

2027 KICKS

OWNER'S MANUAL
and MAINTENANCE INFORMATION

For your safety, read carefully and keep in this vehicle.

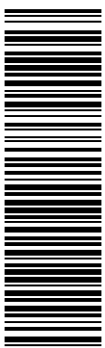
OWNER'S MANUAL SUPPLEMENT

The information contained within this supplement revises or adds to the "Seat belt warning light and chime" section of the "Safety-Seats, seat belts and supplemental restraint system" and "In case of emergency" sections and the "Front and rear seat belt warning (if so equipped)" and "Rear seat belt warning (if so equipped)" sections of the "In case of emergency" section in the 2027 NISSAN Owner's Manual.

Read carefully and keep in the vehicle.

Printing: May 2026

Publication No. SU26EA 0P16U0



SEAT BELT WARNING LIGHT AND CHIME


LRS0786

The light and chime remind you to fasten the driver, front passenger and rear passenger seat belts. A visual and audible alert will operate in the following conditions:

- The driver's seat belt is not fastened.
- The front passenger's seat belt is not fastened and the seat is occupied by a passenger for several seconds after the ignition switch is placed in the ON position.
- The front passenger's seat belt is not fastened and there is no passenger in the seat but objects or external force on the front passenger seat change the seat belt reminder classification to "occupied".
- Any rear passenger's seat belt is operated from fastened to unfastened.

For additional information, see:

- "Seat belt warning light and chime" section of this Supplement.
- "Front and rear seat belt warning" section of this Supplement.
- "Rear seat belt warning" section of this Supplement.

The below situations could result in the seat belt visual and audible alert operating, even with no occupant present in the front passenger seat:

- Heavy objects placed on the seat.
- Someone pushing or pulling on the front passenger seat.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.
- An object hanging on the seat or placed in the seatback pocket.
- A child restraint or other object pressing against the rear of the seatback.

The rear seat belt reminder may operate if the rear seat belts are used without occupants.

WARNING/INDICATOR LIGHTS (red)

Seat belt warning light and chime



The light and chime remind you to fasten the seat belts. They operate differently depending on the model. To identify, check the type of seat belt warning display shown in the vehicle information display.

For models with both the front and rear seat belt warning display:

- The seat belt warning light will illuminate when the ignition switch is placed in the ON position if the driver's seat belt is not fastened, or if the front passenger's seat belt is not fastened when occupied. The chime will sound for a period of time.
- If the driver's or occupied front passenger's seat belt is changed from fastened to unfastened, the seat belt warning light will illuminate until the seat belt(s) are fastened again.
- The seat belt warning light will also illuminate for a period of time if a rear passenger's seat belt is changed from fastened to unfastened.
- For the driver's or occupied front passenger's seat belt, if the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.

- For a rear passenger's seat belt, if the shift lever is placed in the D (Drive) or R (Reverse) position in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound for a period of time, or until the seat belt is fastened again.

For models with only the rear seat belt warning display:

- The seat belt warning light will illuminate when the ignition switch is placed in the ON position if the driver's seat belt is not fastened, or if the front passenger's seat belt is not fastened when occupied.
- The seat belt warning light will also illuminate if a rear passenger's seat belt is changed from fastened to unfastened.
- If the driver's seat belt is not fastened when the ignition switch is placed in the ON position, the chime will sound shortly.
- If the vehicle is driven above certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound for a period of time, or until the seat belt is fastened again.

NOTE:

The warning light and/or chime may activate if an object is placed in the unoccupied front passenger seat. In this case, remove the object from the front passenger seat.
The warning light and/or chime may activate if any seat belt is unfastened before the vehicle comes to a complete stop. Please keep the seat belts fastened until the vehicle has come to a complete stop.

VEHICLE INFORMATION DISPLAY WARNINGS AND INDICATORS

Front and rear seat belt warning (if so equipped)



Display

The seat warning indicator will vary depending on the seat layout of your vehicle.

- ☒ : **Red seat**: The corresponding seat belt is not fastened.
- ☑ : **Green seat**: The corresponding seat belt is fastened.
- Seat belts that are unfastened will appear red.
- If any rear seat belts are unfastened when the ignition switch is placed in the ON position, this warning will display for approximately 1 minute.
- If the driver's seat belt or occupied front passenger's seat belt is not fastened when the ignition switch is pushed to the ON position, the chime will sound.
- If the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- When a rear seat belt is changed from fastened to unfastened, this warning will display for over 1 minute and the seat belt warning light will turn ON.
- If the vehicle is shifted out of P (Park) or N (Neutral) during or after the rear passenger seat belt buckle status change, this warning will display, the seat belt warning light will blink, and the chime will sound for over one minute. During this time, the warning and chime cannot be dismissed unless the rear seat belt is fastened again. Once the seat belt warning light and chime have turned off, the display will remain until dismissed.

NOTE:

- **Opening and closing a rear door while stopped will reset this warning for rear seat belt conditions, similar to pushing the ignition switch to ON again.**

Rear seat belt warning (if so equipped)



Display

This warning includes display of the seat belts for the rear seating positions.

- ☒ : **Red seat**: The corresponding seat belt is not fastened.
- ☑ : **Green seat**: The corresponding seat belt is fastened.
- Seat belts that are unfastened will appear red.
- If any rear seat belts are unfastened when the ignition switch is placed in the ON position, this warning will display for approximately 1 minute.
- If the driver's seat belt or occupied front passenger's seat belt is not fastened when the ignition switch is pushed to the ON position, the chime will sound.
- If the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- When a rear seat belt is changed from fastened to unfastened, this warning will display for over 1 minute and the seat belt warning light will turn ON.

CALIFORNIA PROPOSITION 65 WARNING

⚠WARNING

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

NEW MEXICO PFAS LABELING



FOREWORD

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many miles (kilometers) of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information Booklet can be found at:
https://www.nissanusa.com/owners/manuals-guides.html for U.S. or
https://www.nissan.ca/owners/warranties-and-coverage/limited-warranty.html for Canada.
The "Maintenance and schedules" section of this manual explains details about maintaining and servicing your vehicle.

Additionally, a separate Customer Care and Lemon Law Information Booklet (U.S. only) will explain how to resolve any concerns you may have with your vehicle, and clarify your rights under your state's lemon law.

In addition to factory-installed options, your vehicle may also be equipped with additional accessories installed prior to delivery. It is important that you familiarize yourself with all disclosures, warnings, cautions and instructions concerning proper use of such accessories prior to operating the vehicle and/or accessory. It is recommended that you visit a NISSAN dealer for details concerning the particular accessories with which your vehicle is equipped.

A NISSAN dealership knows your vehicle best. When you require any service or have any questions, they will be glad to assist you with the extensive resources available to them.

READ FIRST—THEN DRIVE SAFELY

READ FIRST—THEN DRIVE SAFELY

Before driving your vehicle, please read this Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements, assisting you in the safe operation of your vehicle.

⚠WARNING

IMPORTANT SAFETY INFORMATION REMINDERS!

Follow these important driving rules to help ensure a safe and comfortable trip for you and your passengers!

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.**
- **ALWAYS use your seat belts and appropriate child restraint systems. Pre-teen children should be seated in the rear seat.**
- **ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **ALWAYS review this Owner's Manual for important safety information.**

For descriptions specified for all-wheel drive models, an **AWD** mark is placed at the beginning of the applicable sections/items.

As with other vehicles with features for off-road use, failure to operate all-wheel drive models correctly may result in loss of control or an accident. For additional information, see "Driving safety precautions" (P. 235).

MODIFICATION OF YOUR VEHICLE

⚠ WARNING

This vehicle should not be modified. Modification could affect its performance, safety, emissions or durability and may even violate governmental regulations. In addition, damage or performance problems resulting from modifications may not be covered under NISSAN warranties.

If modification of an advanced front airbag system is necessary to accommodate a person with disabilities, consult the contact information provided below before making any changes.

For U.S. customers:
https://www.nissanmobilityassist.com

For Canadian customers:
See the NISSAN CUSTOMER CARE PROGRAM page in this Owner's Manual for contact information.

⚠ WARNING

Installing an aftermarket On-Board Diagnostic (OBD) plug-in device that uses the port during normal driving, for example remote insurance company monitoring, remote vehicle diagnostics, telematics or engine reprogramming, may cause interference or damage to vehicle systems. We do not recommend or endorse the use of any aftermarket OBD plug-in devices, unless specifically approved by NISSAN. The vehicle warranty may not cover damage caused by any aftermarket plug-in device.

WHEN READING THE MANUAL

WHEN READING THE MANUAL

This manual includes information for all features and equipment available on this model. Features and equipment in your vehicle may vary depending on model, trim level, options selected, order, date of production, region or availability. Therefore, you may find information about features or equipment that are not included or installed on your vehicle.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications, performance, design or component suppliers without notice and without obligation. From time to time, NISSAN may update or revise this manual to provide Owners with the most accurate information currently available. Please carefully read and retain with this manual all revision updates sent to you by NISSAN to ensure you have access to accurate and up-to-date information regarding your vehicle. Current versions of vehicle Owner's Manuals and any updates can also be found in the Owner section of the NISSAN website at **https://www.nissanusa.com/owners/manuals-guides.html for US or https://www.nissan.ca/owners/manuals-and-guides.html for Canada**.

If you have questions concerning any information in your Owner's Manual, contact

NISSAN Consumer Affairs. For contact information, refer to the NISSAN CUSTOMER CARE PROGRAM page in this Owner's Manual.

IMPORTANT INFORMATION ABOUT THIS MANUAL

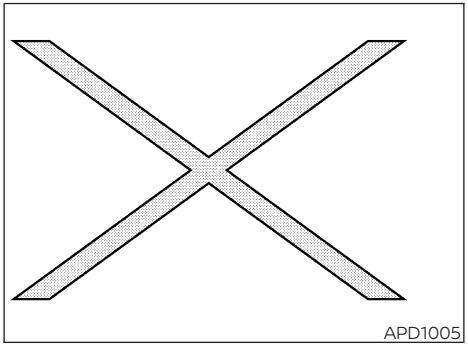
You will see various symbols in this manual. They are used in the following ways:

⚠ WARNING

This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

⚠ CAUTION

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.


APD1005

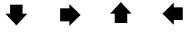
If you see this symbol, it means **"Do not do this"** or **"Do not let this happen."**



If you see a symbol similar to these in an illustration, it means the arrow points to the front of the vehicle.



Arrows in an illustration that are similar to these indicate movement or action.



Arrows in an illustration that are similar to these call attention to an item in the illustration.

CALIFORNIA PERCHLORATE ADVISORY

Some vehicle parts, such as lithium batteries, may contain perchlorate material. The following advisory is provided: "Perchlorate Material – special handling may apply. For additional information, refer to www.dtsc.ca.gov/hazardouswaste/perchlorate/".

QR CODE

The word "QR code" is registered trademark of DENSO WAVE INCORPORATED in Japan and other countries.

COPYRIGHT

© Nissan Mexicana, S. A. de C. V.

All rights reserved. No part of this Owner's Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of Nissan Mexicana, S. A. de C. V.

NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES . . .

Both NISSAN and your NISSAN dealer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your NISSAN dealer are our primary concerns. Your NISSAN dealer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact the NISSAN Consumer Affairs Department using our toll-free number:

For U.S. customers
1-800-NISSAN-1
(1-800-647-7261)

For Canadian customers
1-800-387-0122

The Consumer Affairs Department will ask for the following information:

- Your name, address, and telephone number
- Vehicle identification number (attached to the top of the instrument panel on the driver's side)
- Date of purchase
- Current odometer reading
- Your NISSAN dealer's name
- Your comments or questions

OR

You can write to NISSAN with the information at:

For U.S. customers
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003
or via e-mail at:
nnaconsumeraffairs@nissan-usa.com

For Canadian customers
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5
or via e-mail at:
information.centre@nissancanada.com

If you prefer, visit us at:
www.nissanusa.com (for U.S. customers) or
www.nissan.ca (for Canadian customers)

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

NISSAN SOFTWARE LICENSE

- Your vehicle includes physical parts and/or physical components of such parts on which software and/or firmware ("Software") is embedded or installed. Additionally, updates to Software may be made available by NISSAN for download and installation by owners from time to time as determined by NISSAN in its sole discretion. Such Software, and all updates thereto, including updates delivered by NISSAN to your vehicle over the air (collectively "Updates"), are licensed, and not sold, to you. A portion of the Software may contain or consist of open source software, which may be used under the terms and conditions of the specific license under which the open source software is distributed. For other Software, including Software for which there is no separate license agreement between you and the manufacturer or owner of the Software, the terms and conditions governing your right to use and the use of the installed Software, including any Updates, applications, services, and content provided for or through the Software, are set forth in the End User License Agreement found at:

  For U.S. customers — https://www.nissanusa.com/owners/vehicle-software.html

  For Canadian customers — https://www.nissan.ca/owners/owner-support.html

  Your use of the Software, including any Updates, constitutes consent to the End User License Agreement's terms and conditions.

- PLEASE NOTE: The End User License Agreement contains an arbitration clause. You may opt out of this arbitration clause within 30 days of the date of your vehicle purchase by sending a signed, written notice to NISSAN at the following address:

  For U.S. customers
  Nissan North America, Inc.
  Consumer Affairs Department
  P.O. Box 685003
  Franklin, TN 37068-5003

  For Canadian customers
  Nissan Canada Inc.
  Consumer Affairs Department
  5290 Orbitor Drive
  Mississauga, Ontario L4W 4Z5

- Please refer to "Updating system software" in the 5. Information section or "Software Update" in the 2. Getting Started section of the NissanConnect® Owner's Manual for information about installing Over-the-Air Updates. For questions or assistance concerning installation of any over-the-air Update, you may contact NISSAN Owner Services at 1-800-333-0207 for U.S. customers, or for Canadian customers NISSAN Consumer Affairs at consumeraffairs@nissancanada.com. You may also choose to visit a NISSAN dealer for assistance - charges may apply.

RIGHT TO REPAIR DISCLAIMER – NISSAN CANADA

NOTICE TO QUEBEC CONSUMERS:

Nissan Canada Inc. is pleased to offer a 36-month / 60,000 km (whichever occurs first) limited new-vehicle warranty on your Nissan vehicle. This warranty covers repairs on any part of the vehicle supplied by Nissan Canada that is defective in material or workmanship, subject to the terms and conditions outlined in your warranty booklet.

In accordance with Quebec's Consumer Protection Act, Nissan Canada is required to disclose whether we guarantee the availability of replacement parts, repair services, and technical information necessary to maintain or repair your vehicle or its components.

While Nissan Canada is committed to honouring the terms of our limited warranty and providing high-quality service through our authorized dealerships and Certified Collision Repair Centres, **we do not guarantee the availability of replacement parts, repair services, or technical information necessary to maintain or repair your vehicle or its components beyond the scope of our warranty obligations.**

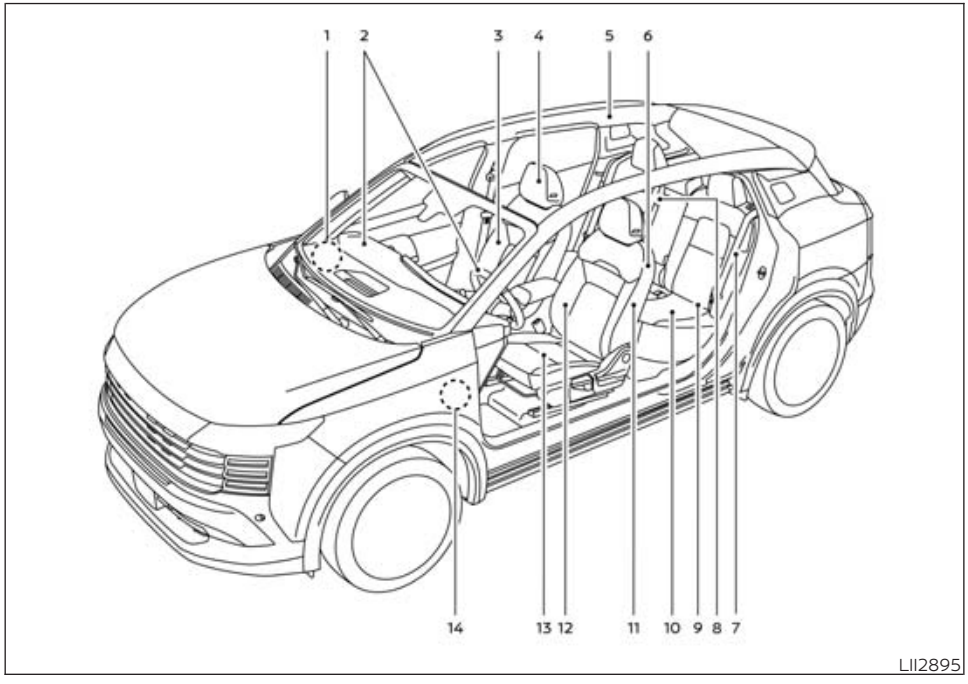
For more information on your warranty coverage, please refer to your Owner's Manual and Warranty Information Booklet, or visit www.nissan.ca.

Table of contents

Illustrated table of contents	0
Safety - Seats, seat belts and supplemental restraint system	1
Instruments and controls	2
Pre-driving checks and adjustments	3
Monitor, climate, audio, phone and voice recognition systems	4
Starting and driving	5
In case of emergency	6
Appearance and care	7
Do-it-yourself	8
Maintenance and schedules	9
Technical and consumer information	10
Index	11

0 Illustrated table of contents

Air bags, seat belts and child restraints 2
Exterior front 3
Exterior rear 4
Passenger compartment 5
Instrument panel 6
Engine compartment check locations 8
Warning and indicator lights 9

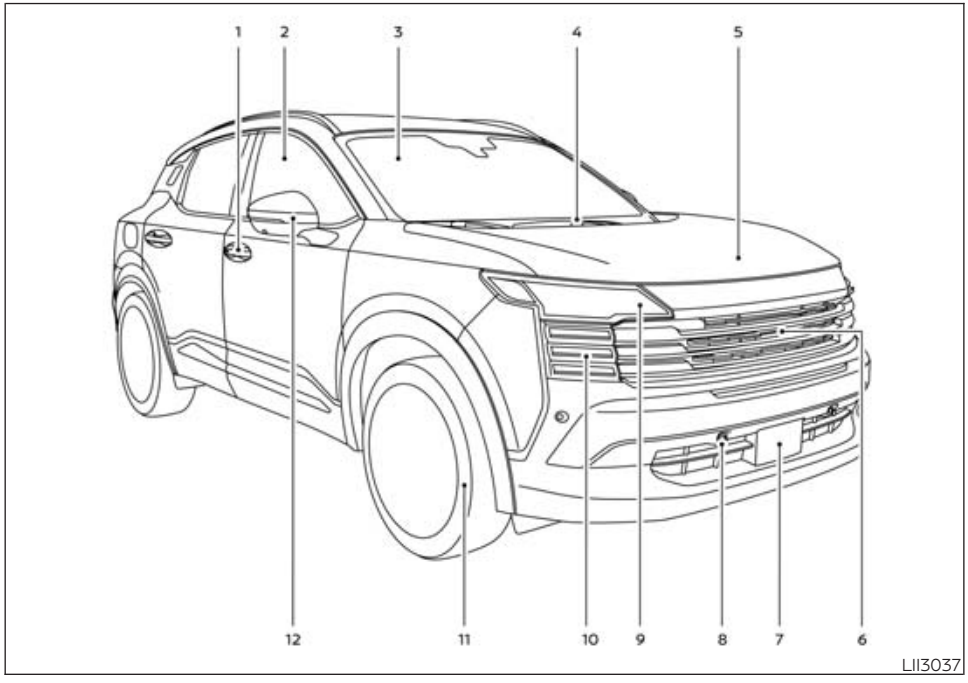


AIR BAGS, SEAT BELTS AND CHILD RESTRAINTS

1. Front passenger supplemental knee air bag (P. 59)
2. Supplemental air bags (P. 45)
3. Occupant classification sensor (weight sensor) (P. 52)
4. Head restraints/headrests (P. 15)
5. Roof-mounted curtain side-impact and rollover supplemental air bag (P. 57)
6. Front seat belt with pretensioner(s) and shoulder height adjuster (P. 19, 60, 25)
7. Rear outboard seat mounted side-impact supplemental air bag (P. 57)

   Rear outboard seat belts with pretensioner(s) (P. 19, 60)
8. Top tether anchor (located on seatback) (P. 32)
9. LATCH (Lower Anchors and Tethers for CHildren) (P. 30)
10. Rear seats (P. 13)
11. Front seat side-mounted side-impact supplemental air bags (P. 57)
12. Front central seat-mounted side-impact supplemental air bag (if so equipped) (P. 57)
13. Front seats (P. 13)
14. Driver supplemental knee air bag (P. 59)

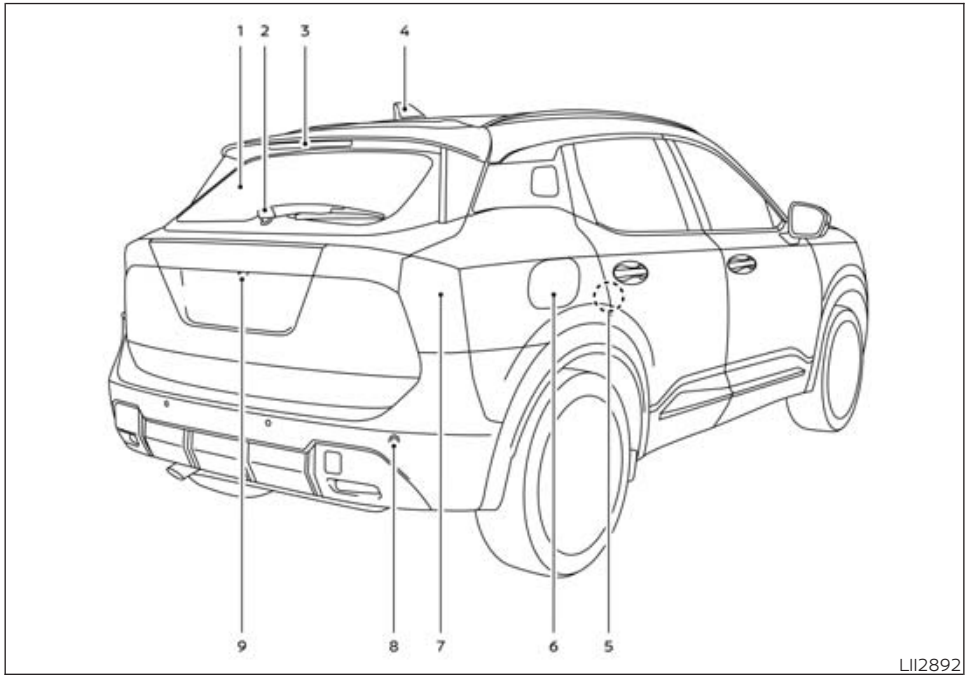
Refer to the page number indicated in parentheses for operating details.



EXTERIOR FRONT

1. Door locks (P. 160)
   NISSAN Intelligent Key® system (P. 162)
   Keys (P. 158)
2. Power windows (P. 150)
3. Windshield (P. 444)
4. Wiper and washer switch (P. 126)
5. Engine hood (P. 174)
6. Front view camera (if so equipped) (P. 193)
7. Front radar sensor (if so equipped) (P. 313)
8. Front sonar sensors (if so equipped) (P. 390)
9. Headlight and turn signal switch (P. 129)
   LED Daytime Running Lights (DRL) system (P. 133)
   Replacing bulbs (P. 451)
10. Front Decorative Lamp (if so equipped) (P. 133)
11. Tire pressure (P. 453)
    Flat tire (P. 407)
    Emergency tire puncture repair kit (P. 411)
    Tire chains (P. 461)
12. Mirrors (P. 180)
    Side camera (if so equipped) (P. 193)

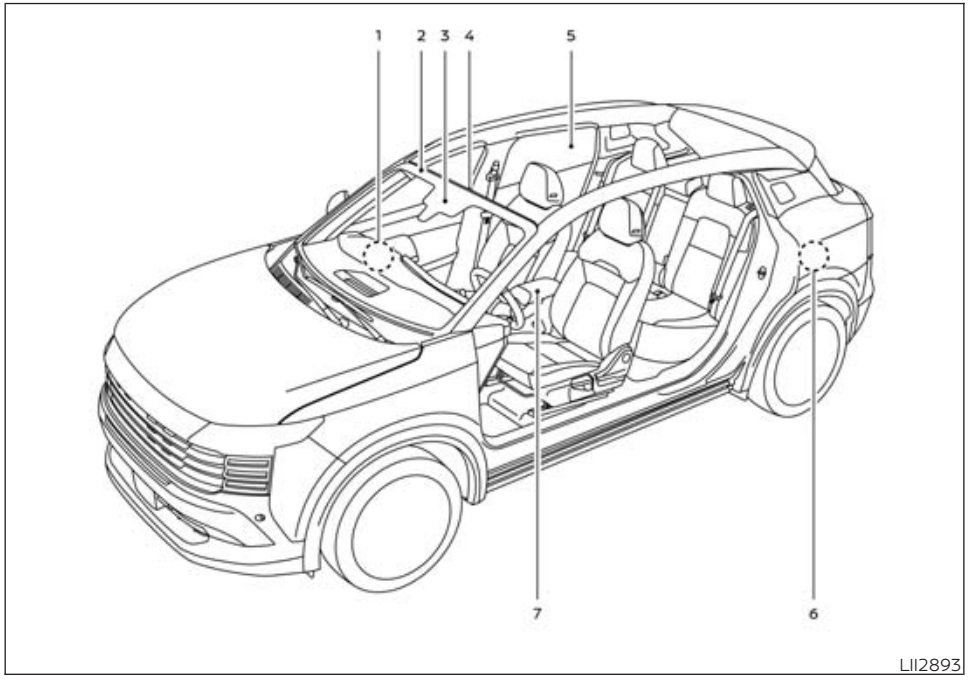
Refer to the page number indicated in parentheses for operating details.



Refer to the page number indicated in parentheses for operating details.

EXTERIOR REAR

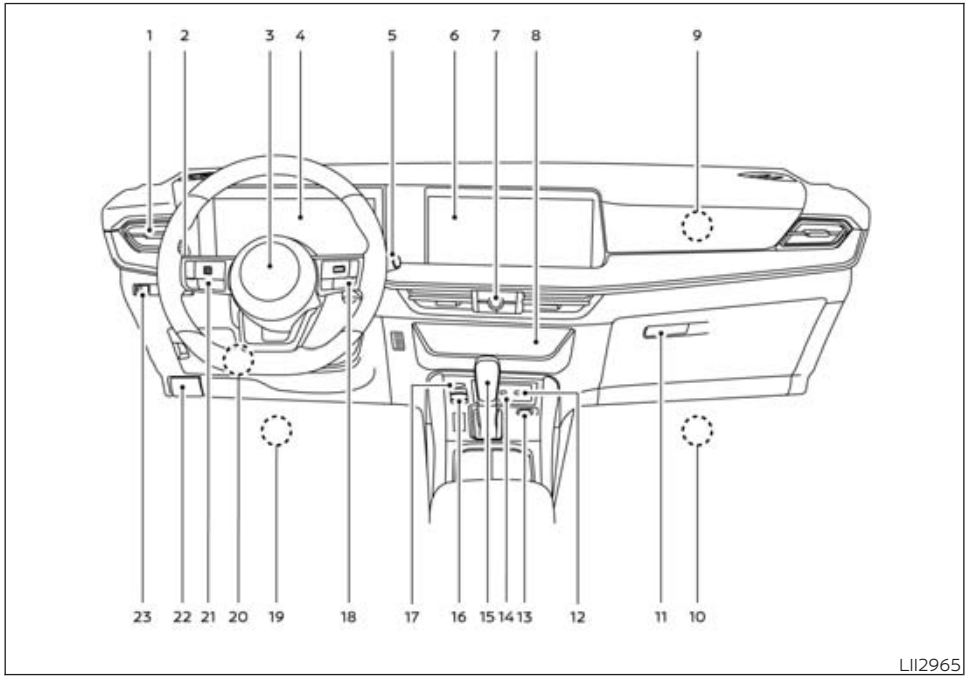
1. Rear window and outside mirror (if so equipped) defroster switch (P. 128)
2. Rear wiper and washer switch (P. 127)
3. High mount stop light (P. 451)
4. Antenna (P. 221)
5. Child safety rear door lock (P. 161)
6. Fuel-filler door (P. 176)
   Fuel recommendation (P. 488)
7. Replacing bulbs (P. 451)
8. Rear sonar sensors (P. 390)
9. Liftgate release (P. 174)
   Rearview camera (P. 187, 193)



Refer to the page number indicated in parentheses for operating details.

PASSENGER COMPARTMENT

1. Glove box (P. 145)
2. Sun visors (P. 179)
3. Rearview mirror (P. 180)
4. Map lights (P. 155)
5. Panoramic moonroof (if so equipped) (P. 153)
6. Luggage hooks (P. 147)
   Emergency tire puncture repair kit (P. 411)
7. Center console storage (P. 145)



INSTRUMENT PANEL

1. Vents (P. 206)
2. Headlight/turn signal switch (P. 129)
3. Driver's supplemental air bag (P. 45)
   Horn (P. 134)
4. Meters and gauges (P. 68)
   Warning and indicator lights (P. 9, 73)
   Vehicle information display (P. 84, 103)
5. Wiper and washer switch (P. 126)
6. Center display (P. 185)
   Center display controls (if so equipped) (P. 185)
7. Audio controls (P. 185)
   Hazard warning flasher switch (P. 406)
   Camera controls (if so equipped) (P. 193)
8. Climate controls (P. 207, 214, 217)
   Heated seat switches (if so equipped) (P. 135)
9. Passenger's supplemental air bag (P. 45)
10. Front passenger supplemental knee air bag (P. 59)
11. Glove box (P. 145)
12. USB connection port (P. 185)
13. Drive Mode Selector (P. 249)
14. Wireless charger and indicator (if so equipped) (P. 140)
15. Shift lever (P. 243)
16. Electronic parking brake (P. 245)
    Automatic brake hold switch (P. 247)
17. Push-button ignition switch (P. 236)
18. Bluetooth® Hands-Free Phone System (P. 185)
    Intelligent Cruise Control (ICC) switches (if so equipped) (P. 296)
    ProPILOT Assist switches (if so equipped) (P. 313)
19. Driver supplemental knee air bag (P. 59)
20. Tilt and telescopic steering wheel lock lever (P. 179)

21. Steering wheel switches for audio control (P. 185, 103)

    Control panel and vehicle information display switches (P. 103)

22. Hood release (P. 174)
23. Steering Assist Switch (if so equipped) (P. 136)

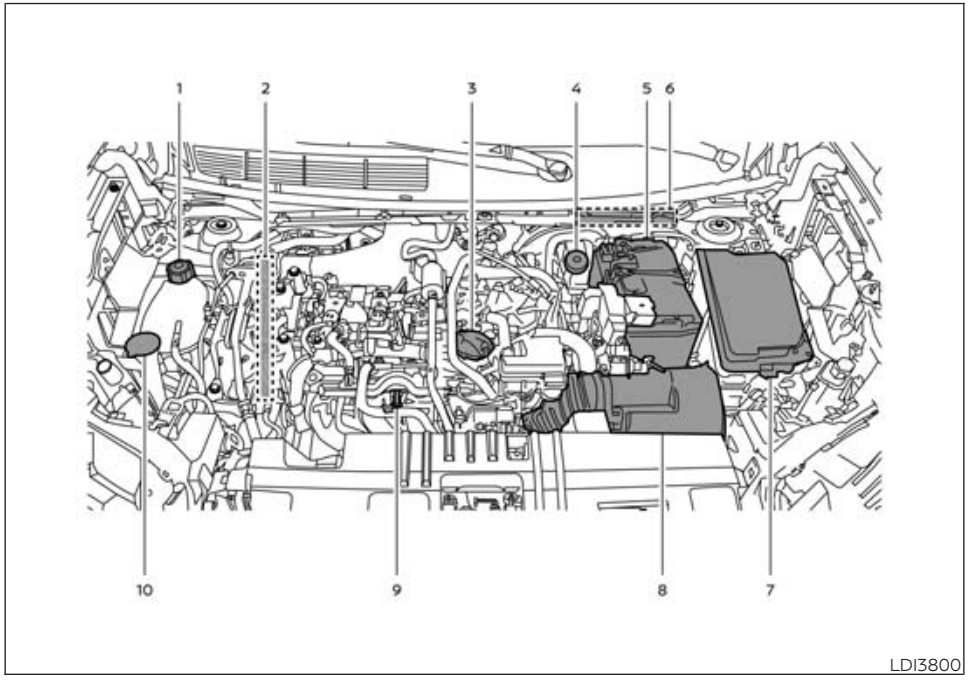
    Heated steering wheel switch (if so equipped) (P. 136)

    Hill descent control switch (if so equipped) (P. 137)

    Idling Stop OFF switch (if so equipped) (P. 396)

* Refer to the separate NissanConnect® Owner's Manual (if so equipped).

Refer to the page number indicated in parentheses for operating details.



LDI3800

ENGINE COMPARTMENT CHECK LOCATIONS

2.0L 4 cylinder (MR20DD engine model)

1. Engine coolant reservoir (P. 434)
2. Engine drive belt location (P. 442)
3. Engine oil filler cap (P. 435)
4. Brake fluid reservoir (P. 438)
5. Battery (P. 440)
6. Fuse/Fusible link box (P. 446)
7. Fuse/Fusible link box (P. 446)
8. Air cleaner (P. 443)
9. Engine oil dipstick (P. 435)
10. Windshield-washer fluid reservoir (P. 439)

NOTE:

Your vehicle may not be equipped with an engine cover.

WARNING AND INDICATOR LIGHTS

Warning/Indicator light (red)

- BRAKE
  or
  
  Brake warning light (if so equipped) (P. 73)
- 
  Charge warning light (P. 74)
- 
  Door open warning light (if so equipped) (P. 74)
- 
  Electric power steering warning light (red) (P. 74)
- PARK
  or
  
  Electronic parking brake indicator light (P. 75)
- 
  Engine oil pressure warning light (P. 75)
- 
  High temperature warning light (if so equipped) (P. 75)
- 
  LED Headlight system warning light (if so equipped) (P. 75)
- 
  Master warning light (P. 76)
- 
  Seat belt warning light and chime (P. 76)
- 
  Steering Assist Hands Off warning light (if so equipped) (P. 76)
-
  Supplemental air bag warning light (P. 77)

Warning/Indicator light (yellow)

- ABS
  or

  Anti-lock Braking System (ABS) warning light (P. 77)
-
  Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light (P. 77)
-
  Blind Spot Warning (BSW)/Intelligent Blind Spot Intervention (I-BSI) indicator light (if so equipped) (P. 77)
-
  or

  Electronic parking brake warning light (P. 78)
- 
  Engine start operation indicator light (if so equipped) (P. 78)
- 
  Front passenger air bag status light (P. 78)
-
  Hill descent control system ON indicator light (if so equipped) (P. 78)
- 
  Lane Departure Warning (LDW)/Intelligent Lane Intervention (I-LI) indicator light (if so equipped) (P. 78)
- 
  Low fuel warning light (if so equipped) (P. 78)
- 
  Low tire pressure warning light (P. 79)
- 
  Low windshield-washer fluid warning light (if so equipped) (P. 80)
- 
  Malfunction Indicator Light (MIL) (P. 80)
-
  Master warning light (P. 80)
- 
  NISSAN Intelligent Key® warning light (if so equipped) (P. 80)
- 
  Power steering warning light (P. 81)
- 
  Rear Automatic Braking (RAB) system warning light (P. 81)
-
  Shift P (Park) warning light (if so equipped) (P. 81)

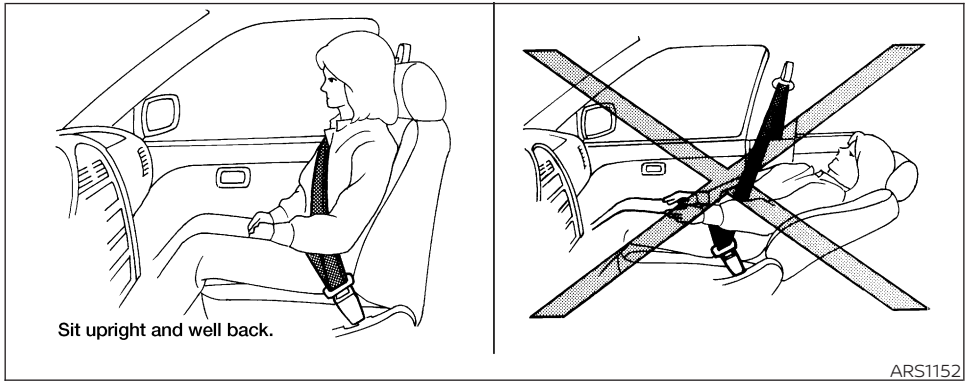
- Slip indicator light (P. 82)
- Vehicle Dynamic Control (VDC) OFF indicator light (P. 82)

Warning/Indicator light (other)

- Automatic brake hold indicator light (white/green) (P. 82)
- CRUISE indicator light (green) (if so equipped) (P. 82)
- High Beam Assist indicator light (green) (P. 83)
- High beam indicator light (blue) (P. 83)
- SET indicator light (green) (if so equipped) (P. 83)
- Side light and headlight indicator light (green) (P. 83)
- SPORT mode indicator light (green) (if so equipped) (P. 83)
- Turn signal/hazard indicator lights (green) (P. 83)

1 Safety - Seats, seat belts and supplemental restraint system

Seats 12
Basic Information 12
Front manual seat adjustment 13
Folding rear seat 13
Armrest (if so equipped) 15
Head restraints/headrests 15
Basic Information 15
Adjustable head restraint/headrest components 16
Non-adjustable head restraint/headrest components 16
Remove 16
Install 17
Adjust 17
Seat belts 19
Precautions on seat belt usage 19
Seat belt warning light and chime 21
Pregnant women 22
Injured persons 22
Three-point type seat belt with retractor 22
Seat belt extenders 26
Seat belt maintenance 26
Child safety 26
Basic Information 26
Infants 27
Small children 27
Larger children 27
Child restraints 28
Precautions on child restraints 28
LATCH (Lower Anchors and Tethers for CHildren) system 30
Rear-facing child restraint installation using LATCH 33
Rear-facing child restraint installation using the seat belts 34
Forward-facing child restraint installation using LATCH 36
Forward-facing child restraint installation using the seat belts 39
Booster seats 42
Supplemental Restraint System (SRS) 45
Precautions on SRS 45
An air bag only works once 61
Supplemental air bag warning labels 63
Supplemental air bag warning light 63



SEATS

BASIC INFORMATION

⚠ WARNING

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. Seat belts are most effective when the passenger sits well back and straight up in the seat. If the seatback is reclined, the seatbelt will not perform as effectively as it should and the shoulder belt will not be against your body increasing the risk of a neck injury or other serious injuries. Additionally, if the seatback is reclined, the risk of sliding under the lap belt and being injured increases.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat properly. For additional information, see "Precautions on seat belt usage" (P. 19).**
- **After adjustment, gently rock in the seat to make sure it is securely locked.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls or make the vehicle move. Unattended children could become involved in serious accidents.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Do not adjust the driver's seat while driving so full attention may be given to vehicle operation. The seat may move suddenly and could cause loss of control of the vehicle.**
- **Do not place objects under the front seats as they could get stuck and prevent the seat from locking in place which could lead to an accident.**
- **Do not leave a cigarette lighter in the vehicle or place it on the floor or seat as it may be lit accidentally when luggage is loaded, when the seat is adjusted, by a child or by being stepped on by a passenger, causing a fire.**

⚠ CAUTION

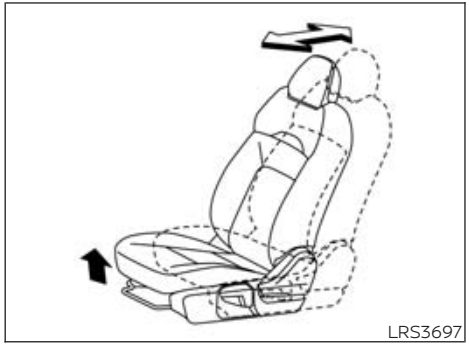
When adjusting the seat positions, be sure not to contact any moving parts to avoid possible injuries and/or damage.

FRONT MANUAL SEAT ADJUSTMENT

Basic Information

Your vehicle seats can be adjusted manually. For additional information about adjusting the seats, refer to the steps outlined in this section.

Forward and backward

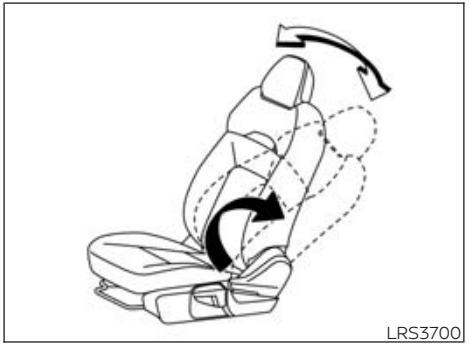

LRS3697

Pull the center of the bar up and hold it while you slide the seat forward or backward to the desired position. Release the bar to lock the seat in position.

⚠ WARNING

After adjustment, gently rock in the seat to make sure it is securely locked.

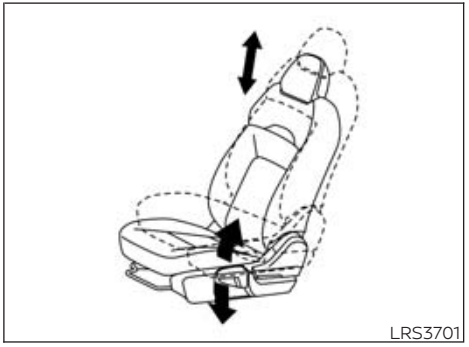
Reclining


LRS3700

To recline the seatback, pull the lever up and lean back. To bring the seatback forward, pull the lever up and lean your body forward. Release the lever to lock the seatback in position.

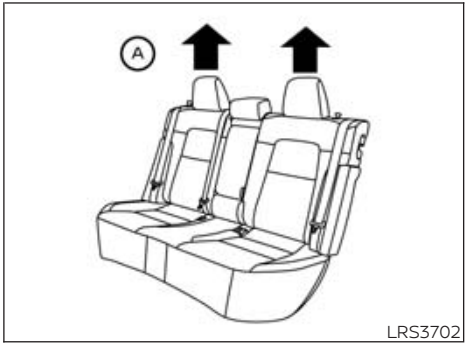
The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. For additional information, see "Precautions on seat belt usage" (P. 19). Also, the seatback can be reclined to allow occupants to rest when the vehicle is parked.

Seat lifter (driver's seat)

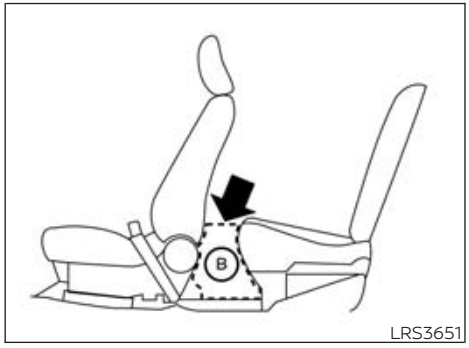

LRS3701

Pull up or push down the adjusting lever to adjust the seat height until the desired position is achieved.

FOLDING REAR SEAT

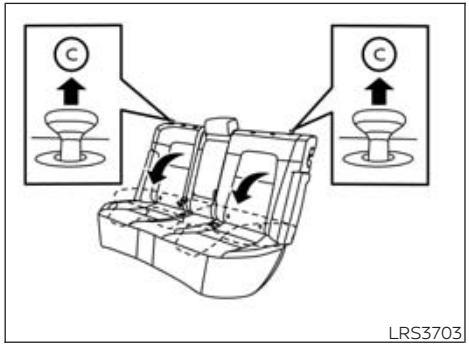


LRS3702



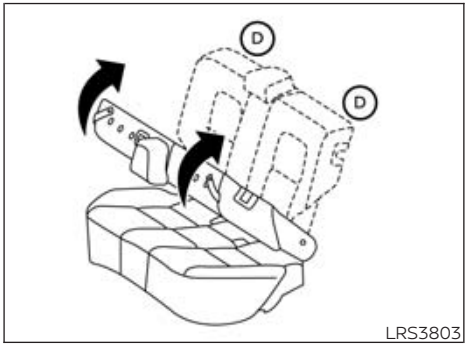
LRS3651

To get a full flat cargo area remove both rear row outboard head restraints/headrests Ⓐ and store them on the floor in front of the rear row seats Ⓑ prior to folding the seatback down.



LRS3703

Pull the knob Ⓒ to fold each seatback down.



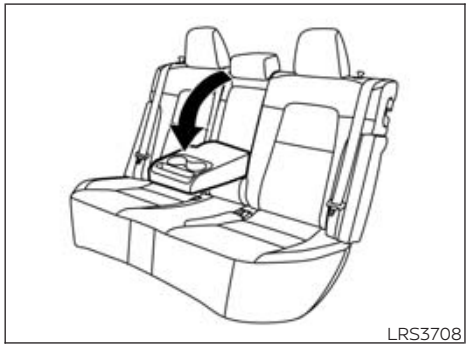
LRS3803

To return the rear seat to a seating position, lift up on the seatback and firmly push it up to an upright position. Firmly press zones Ⓓ to lock the seatback in place.

⚠WARNING

- **Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury or death in an accident or sudden stop.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **Do not use the seat if the head restraint/headrest has been removed. If the head restraint/headrest was removed, reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position. For additional information, see "Head restraint/headrests" (P. 15). Failure to follow these instructions can reduce the effectiveness of the head restraints/headrests. This may increase the risk of serious injury or death in a collision.**

ARMREST (if so equipped)


LRS3708

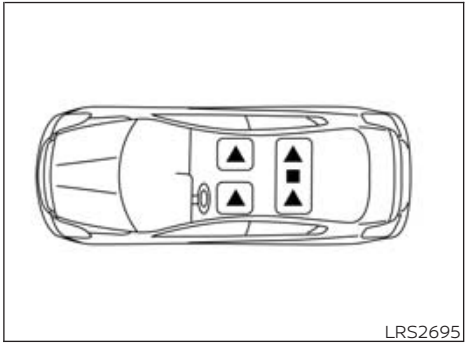
The rear bench seat comes equipped with an armrest. Pull the armrest down as shown.

HEAD RESTRAINTS/HEADRESTS

BASIC INFORMATION

⚠WARNING

Head restraints/headrests supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjustable head restraints/headrests must be adjusted properly. For additional information, see "Adjustable head restraint/headrest components" (P. 16). Check the adjustment after someone else uses the seat. Do not attach anything to the head restraint/headrest stalks or remove the head restraint/headrest. Do not use the seat if the head restraint/headrest has been removed. If the head restraint/headrest was removed, reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the head restraints/headrests. This may increase the risk of serious injury or death in a collision.


LRS2695

The illustration shows the seating positions equipped with head restraints/headrests.

▲ Indicates the seating position is equipped with a head restraint.

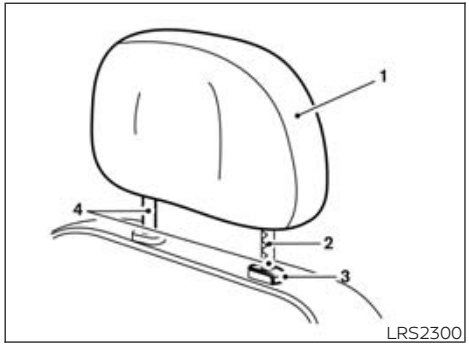
■ Indicates the seating position is equipped with a headrest.

+ Indicates the seating position is not equipped with a head restraint or headrest (if applicable).

- Your vehicle is equipped with a head restraint/headrest that may be integrated, adjustable or non-adjustable.
- Adjustable head restraints/headrests have multiple notches along the stalk(s) to lock them in a desired adjustment position.
- The non-adjustable head restraints/headrests have a single locking notch to secure them to the seat frame.

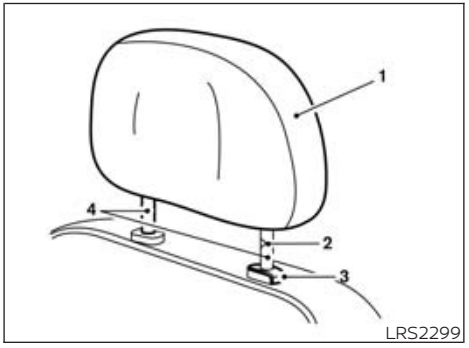
- Proper Adjustment:
  - For the adjustable type, align the head restraint/headrest so the center of your ear is approximately level with the center of the head restraint/headrest.
  - If your ear position is still higher than the recommended alignment, place the head restraint/headrest at the highest position.
- If the head restraint/headrest has been removed, ensure that it is reinstalled and locked in place before riding in that designated seating position.

ADJUSTABLE HEAD RESTRAINT/ HEADREST COMPONENTS



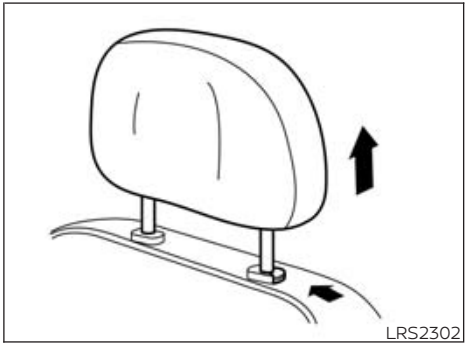
1. Removable head restraint/headrest
2. Multiple notches
3. Lock knob
4. Stalks

NON-ADJUSTABLE HEAD RESTRAINT/HEADREST COMPONENTS



1. Removable head restraint/headrest
2. Single notch
3. Lock knob
4. Stalks

REMOVE



⚠CAUTION

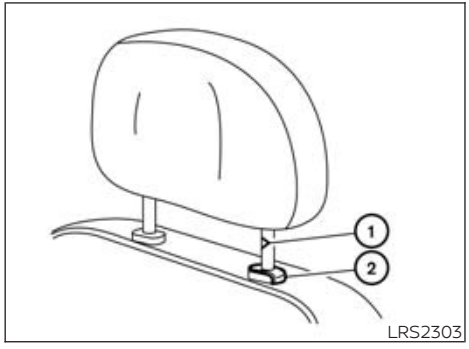
Do not remove head restraint/headrest from vehicles equipped with a Bose head restraint/headrest speaker system. Removal will damage the system wiring.

Use the following procedure to remove the head restraint/headrest:

1. Pull the head restraint/headrest up to the highest position.
2. Push and hold the lock knob.
3. Remove the head restraint/headrest from the seat.
4. Store the head restraint/headrest properly in a secure place so it is not loose in the vehicle.

5. Reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position.

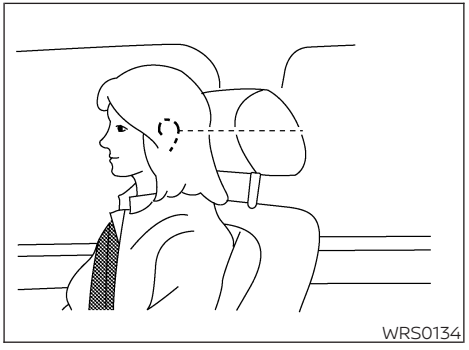
INSTALL



1. Align the head restraint/headrest stalks with the holes in the seat. Make sure that the head restraint/headrest is facing the correct direction. The stalk with the notch (notches) ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint/headrest down.
3. Properly adjust the head restraint/headrest before an occupant uses the seating position.

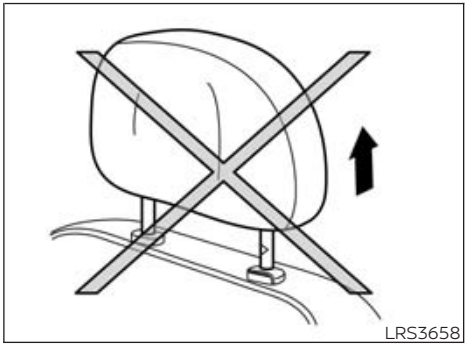
ADJUST

Basic Information



For adjustable head restraint/headrest

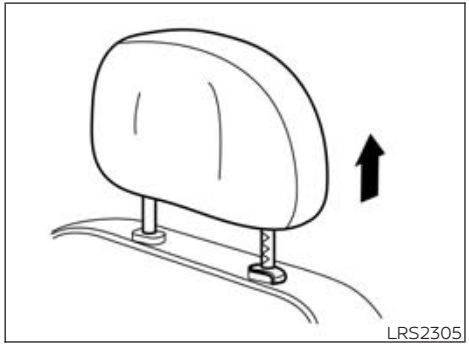
Adjust the head restraint/headrest so the center is level with the center of your ears. If your ear position is still higher than the recommended alignment, place the head restraint/headrest at the highest position.



For non-adjustable head restraint/headrest

Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

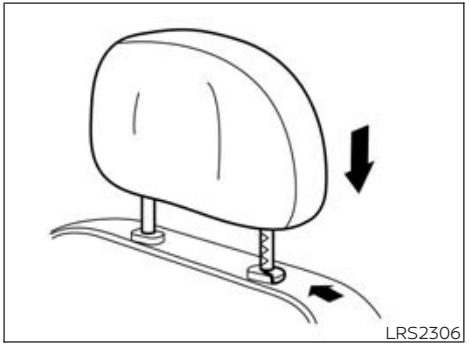
Raise



To raise the head restraint/headrest, pull it up.

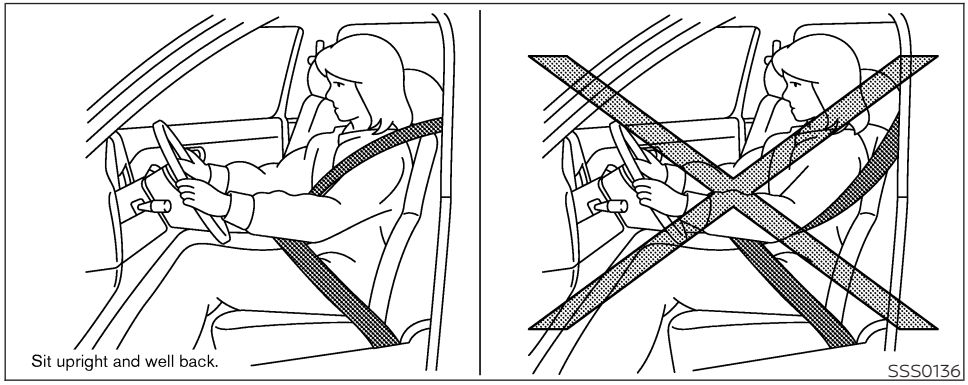
Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

Lower



To lower, push and hold the lock knob and push the head restraint/headrest down.

Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

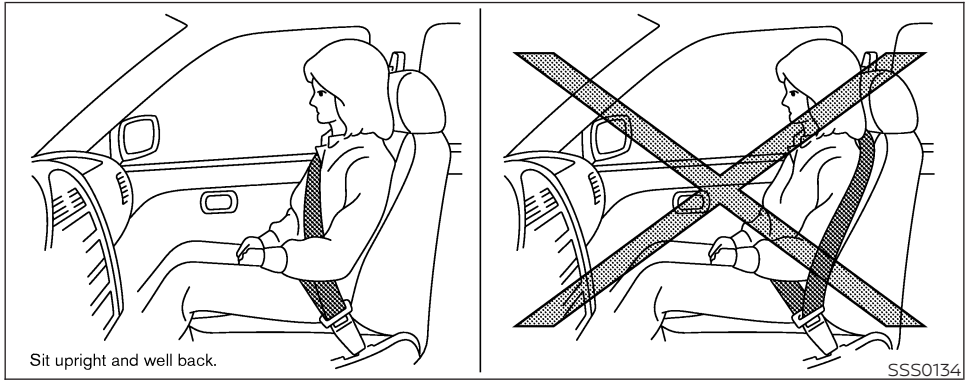


SEAT BELTS

PRECAUTIONS ON SEAT BELT USAGE

Seatbelts are the primary restraint mechanism in the vehicle and can help protect occupants during collisions—whether the airbags deploy, do not deploy, or in multi-impact collisions where the airbags have already deployed. If you are wearing your seat belt properly adjusted and you are sitting upright and well back in your seat with both feet on the floor, your chances of being injured or killed in a collision and/or the severity of injury may be greatly reduced. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

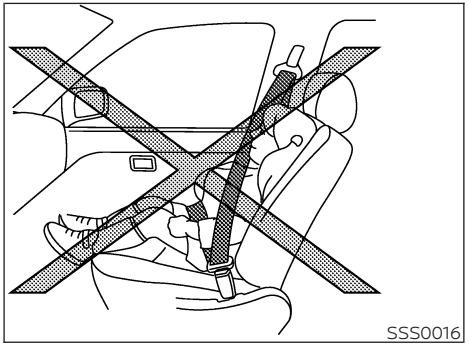
Most U.S. states and Canadian provinces or territories specify that seat belts be worn at all times when a vehicle is being driven.



⚠WARNING

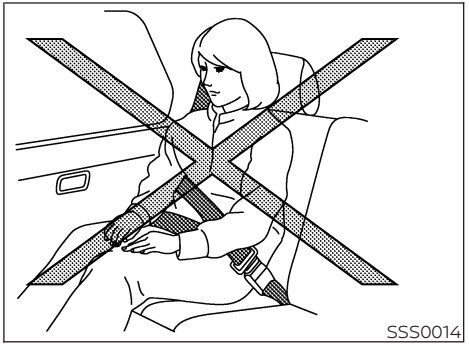
Wearing your seat belt incorrectly could make your injuries in a collision much worse. You might suffer internal injuries, or you could even slide out of the seat belt. Follow these instructions to wear your seat belt safely and to help keep your passengers safe from serious injury or death:

- **Relying on the air bags alone could lead to more severe injuries in a collision. Every person who drives or rides in this vehicle should always use a seat belt. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint appropriate for the age and size of the child.**



⚠WARNING

- **The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.**



⚠WARNING

- **Always route the shoulder belt over your shoulder and across your chest. Never put the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.**

- **Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.**
- **Be sure the seat belt tongue is securely fastened to the proper buckle.**
- **Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.**
- **Do not allow more than one person to use the same seat belt.**
- **Never carry more people in the vehicle than there are seat belts.**
- **If the seat belt warning light illuminates continuously or chime continues while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.**
- **No changes should be made to the seat belt system. For example, do not modify the seat belt, add material, or install devices that may change the seat belt routing or tension. Doing so may affect the operation of the seat belt system. Modifying or tampering with the seat belt system may result in serious personal injury.**
- **Once a seat belt pretensioner has activated it cannot protect you in another collision, it cannot be reused and must be replaced together with the retractor and buckle as a unit. It is recommended that you visit a NISSAN dealer for this service.**
- **All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision. It is recommended that you visit a NISSAN dealer for this service. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.**
- **All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.**

SEAT BELT WARNING LIGHT AND CHIME



The light and chime remind you to fasten the driver, front passenger and rear passenger seat belts. A visual and audible alert will operate in the following conditions:

- The driver's seat belt is not fastened.
- The front passenger's seat belt is not fastened and the seat is occupied by a passenger for several seconds after the ignition switch is placed in the ON position.
- The front passenger's seat belt is not fastened and there is no passenger in the seat but objects or external force on the front passenger seat change the seat belt reminder classification to "occupied".
- Any rear passenger's seat belt is operated from fastened to unfastened.

- (For USA only) If the shift lever is placed in any position other than P (Park) or N (Neutral) during or after the rear seat belt buckle status change.

For additional information, see:

- "Seat belt warning light and chime" (P. 76).
- "Front and Rear seat belt warning (if so equipped)" (P. 97) or (P. 116).
- "Rear seat belt warning (if so equipped)" (P. 98) or (P. 117).

The below situations could result in the seat belt visual and audible alert operating, even with no occupant present in the front passenger seat:

- Heavy objects placed on the seat.
- Someone pushing or pulling on the front passenger seat.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.
- An object hanging on the seat or placed in the seatback pocket.
- A child restraint or other object pressing against the rear of the seatback.

The rear seat belt reminder may operate if the rear seat belts are used without occupants.

PREGNANT WOMEN

NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

INJURED PERSONS

NISSAN recommends that injured persons use seat belts. Check with your doctor for specific recommendations.

THREE-POINT TYPE SEAT BELT WITH RETRACTOR

Basic Information

⚠ WARNING

- **Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be in the rear seats and in an appropriate restraint.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly.**
- **Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.**

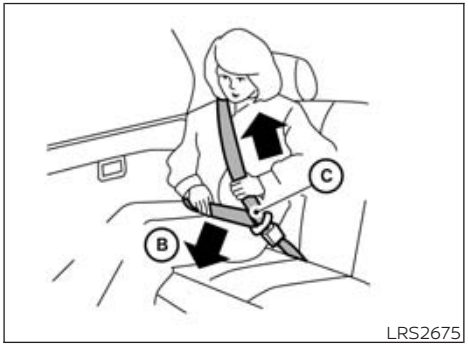
Fastening the seat belts

1. Adjust the seat. For additional information, see "Front manual seat adjustment" (P. 13).



LRS2674

2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle Ⓐ until you hear and feel the latch engage.
   - **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the seat belt to move and allows you some freedom of movement in the seat.**
   - **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**



LRS2675

3. Position the lap belt portion **low and snug on the hips** Ⓑ as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack Ⓒ. Be sure the shoulder belt is routed over your shoulder and across your chest.

The front passenger seat and the rear seating positions' three-point seat belts have two modes of operation:

- Emergency Locking Retractor (ELR)
- Automatic Locking Retractor (ALR)

The ELR mode allows the seat belt to extend and retract to allow the driver and passengers some freedom of movement in the seat. The ELR locks the seat belt when the vehicle slows down rapidly or during certain impacts.

The ALR mode (child restraint mode) locks the seat belt for child restraint installation.

When the ALR mode is activated, the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. The seat belt returns to the ELR mode after the seat belt fully retracts. For additional information, see "Child restraints" (P. 28).

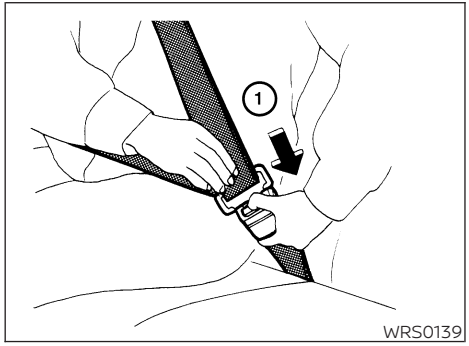
The ALR mode should be used only for child restraint installation. During normal seat belt use by an occupant, the ALR mode should not be activated. If it is activated, it may cause uncomfortable seat belt tension. It can also change the operation of the front passenger air bag. For additional information, see "Front passenger air bag and status light" (P. 52).

⚠WARNING

When fastening the seat belts, be certain that the seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.

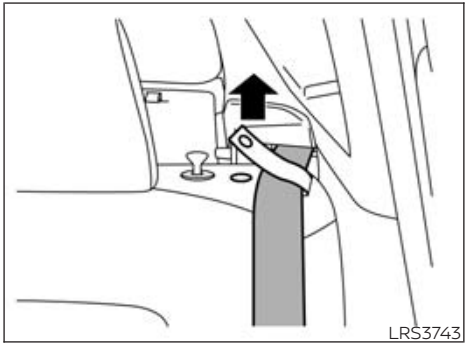
Unfastening the seat belts

Basic information



To unfasten the seat belt, press the button on the buckle ①. The seat belt automatically retracts.

Seat belt guide (for rear seat) (if so equipped)



When the seat belt guide is used on the rear seat, the seat belt can easily be pulled out. Do not allow the seat belt to twist.

To release the seat belt guide, pull the strap from the metal button as shown.

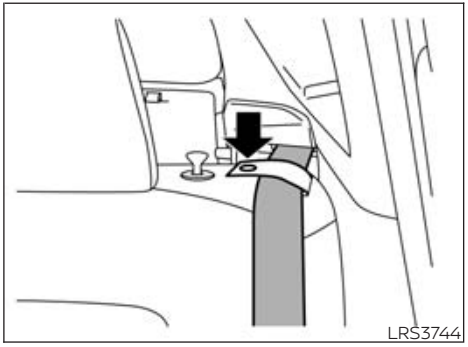
When the seat belt is released from the seat belt guide, use the seat belt guide when fastening the seat belt again.

⚠WARNING

When using the seat belt guide, make sure that the seat belt guide is securely installed to the seat. Otherwise, the seat belt may slip and could cause personal injury.

⚠CAUTION

- **When loading or unloading a cargo with the seatback folded down, always release the seat belt from the seat belt guide. Otherwise, the seat belt guide may be damaged.**
- **Do not adjust, fold or unfold the seatback by holding the seat belt guide. Doing so may damage the seat belt guide.**



To lock the seat belt guide, push the metal button in the direction shown.

If the seat belt guide was released, lock the seat belt guide again with the seat belt before an occupant uses the seating position.

Checking seat belt operation

Seat belt retractors are designed to lock seat belt movement by two separate methods:

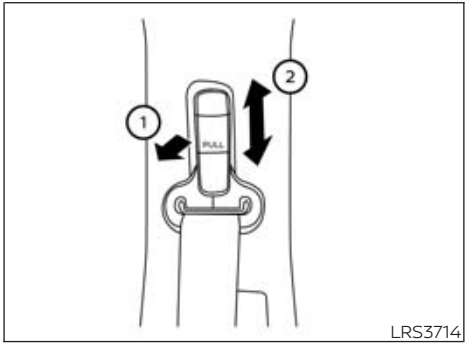
- When the seat belt is pulled quickly from the retractor
- When the vehicle slows down rapidly

To increase your confidence in the seat belts, check the operation as follows:

- Grasp the shoulder belt and pull forward quickly. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check, get the system checked. It is recommended that you visit a NISSAN dealer for this service, or to learn more about seat belt operation.

Shoulder belt height adjustment (front seats)



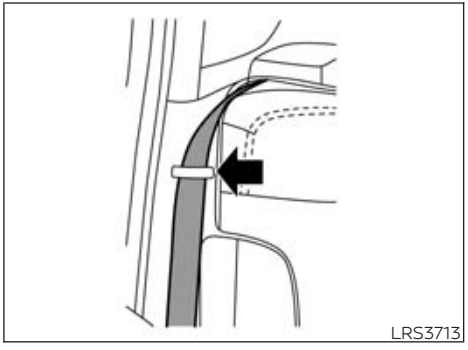
LRS3714

The shoulder belt anchor height should be adjusted to the position best for you. For additional information, see "Precautions on seat belt usage" (P. 19). To adjust, pull out the adjustment button ① and move the shoulder belt anchor to the desired position ②, so the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

⚠WARNING

- **After adjustment, release the adjustment button and try to move the shoulder belt anchor up and down to make sure it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

Seat belt hook


LRS3713

When the seat belt is not in use and when folding down the rear seats, hook the rear outer seat belts on the seat belt hooks.

⚠WARNING

Before folding up the rear seats, ensure the seat belts are not obstructing the rear seatback latches to avoid damage to the seat belt webbing.

SEAT BELT EXTENDERS

If, because of body size or driving position, it is not possible to properly fit the lap/shoulder belt and fasten it, an extender that is compatible with the installed seat belts is available for purchase. The extender adds approximately 8 in (200 mm) of length and is available for the:

- Driver and front passenger seating positions

It is recommended that you visit a NISSAN dealer for assistance with purchasing an extender if an extender is required.

⚠ WARNING

- **Only NISSAN seat belt extenders, made by the same company which made the original equipment seat belts, should be used with NISSAN seat belts.**
- **Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.**
- **Never use seat belt extenders to install child restraints. If the child restraint is not secured properly, the child could be seriously injured or killed in a collision or a sudden stop.**

SEAT BELT MAINTENANCE

- **To clean the seat belt webbing,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpet. Then wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- **If dirt builds up in the shoulder belt guide of the seat belt anchors,** the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- **Periodically check to see that the seat belt and the metal components,** such as buckles, tongues, retractors, flexible wires and anchors, work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.

CHILD SAFETY

BASIC INFORMATION

⚠ WARNING

Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.

Children need adults to help protect them. They need to be properly restrained.

In addition to the general information in this manual, child safety information is available from many other sources, including doctors, teachers, government traffic safety offices, and community organizations. Every child is different, so be sure to learn the best way to transport your child.

There are three basic types of child restraint systems:

- Rear-facing child restraints
- Forward-facing child restraints
- Booster seats

The proper restraint depends on the child's size. Generally, infants up to about 1 year and less than 20 lbs. (9 kg) should be placed in rear-facing child restraints. Forward-facing child restraints are available for children who outgrow rear-facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a forward-facing child restraint.

⚠ WARNING

Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. For additional information, see "Child restraints" (P. 28).

A child restraint may be secured in the vehicle by using either the LATCH (Lower Anchors and Tethers for CHildren) system or with the vehicle seat belt. For additional information, see "Child restraints" (P. 28).

NISSAN recommends that all pre-teens and children be restrained in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat.

This is especially important because your vehicle has a supplemental restraint system (air bag system) for the front passenger. For additional information, see "Supplemental air bag warning light" (P. 63).

INFANTS

Infants up to at least 1 year old should be placed in a rear-facing child restraint. NISSAN recommends that infants be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

SMALL CHILDREN

Children that are over 1 year old and weigh at least 20 lbs. (9 kg) should remain in a rear-facing child restraint as long as possible up to the height or weight limit of the child restraint. Children who outgrow the height or weight limit of the rear-facing child restraint and are at least 1 year old should be secured in a forward-facing child restraint with a harness. Refer to the manufacturer's instructions for minimum and maximum weight and height recommendations. NISSAN recommends that small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

LARGER CHILDREN

Children should remain in a forward-facing child restraint with a harness until they reach the maximum height or weight limit allowed by the child restraint manufacturer.

Once a child outgrows the height or weight limit of the harness-equipped forward-facing child restraint, NISSAN recommends that the child be placed in a commercially available booster seat to obtain proper seat belt fit. For a seat belt to fit properly, the booster seat should raise the child so that the shoulder belt is properly positioned across the chest and the top, middle portion of the shoulder. The shoulder belt should not cross the neck or face and should not fall off the shoulder. The lap belt should lie snugly across the lower hips or upper thighs, not the abdomen.

A booster seat can only be used in seating positions that have a three-point type seat belt. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. Once the child has grown so the

shoulder belt is no longer on or near the face and neck and the lap belt can be positioned properly across the lower hips or upper thighs, use the seat belt without the booster seat.

A booster seat should be used until the child can pass the seat belt fit test below:

- Are the child's back and hips against the vehicle seatback?
- Is the child able to sit without slouching?
- Do the child's knees bend easily over the front edge of the seat with feet flat on the floor?
- Can the child safely wear the seat belt (lap belt low and snug across the hips and shoulder belt across mid-chest and shoulder)?
- Is the child able to use the properly adjusted head restraint/headrest?
- Will the child be able to stay in position for the entire ride?


LRS2690

If you answered no to any of these questions, the child should remain in a booster seat using a three-point type seat belt.

NOTE:

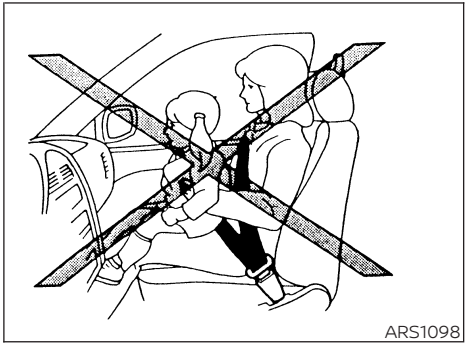
Laws in some communities may follow different guidelines. Check local and state regulations to confirm your child is using the correct restraint system before traveling.

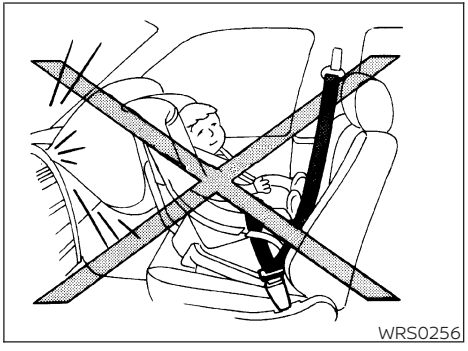
⚠WARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo area. The child could be seriously injured or killed in a sudden stop or collision.

CHILD RESTRAINTS

PRECAUTIONS ON CHILD RESTRAINTS


ARS1098


WRS0256

⚠ WARNING

- **Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:**
  - **Always install the child restraint properly and follow the child restraint manufacturer's instructions exactly for installation and use.**
  - **Never install a rear-facing child restraint in the front seat of a vehicle. Only use a rear-facing child restraint in the rear seat. An inflating front passenger air bag could seriously injure or kill a child improperly placed in the front passenger seat.**
  - **Children twelve (12) and under should ride in the rear seat, properly secured in child restraints, booster seats, or seat belts, according to their size.**
  - **Infants and children should never be held on anyone's lap. Even the strongest adult cannot resist the forces of a collision.**
  - **Do not put a seat belt around both a child and another passenger.**
  - **NISSAN recommends that all child restraints be installed in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat. If you must install a forward-facing child restraint in the front seat, see "Forward-facing child restraint installation using the seat belts" (P. 39).**
  - **Be sure to purchase a child restraint that will fit the child and vehicle. Some child restraints may not fit properly in your vehicle.**
  - **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**
  - **Never use the anchor points for adult seat belts, or other items.**
  - **A child restraint with a top tether strap should not be used in the front passenger seat.**
  - **Keep seatbacks as upright as possible after fitting the child restraint.**
  - **Infants and children should always be placed in an appropriate child restraint while in the vehicle.**
- **When the child restraint is not in use, keep it secured with the LATCH system or a seat belt. In a sudden stop or collision, loose objects can injure occupants or damage the vehicle.**
- **A child restraint in a closed vehicle can become very hot. Check the seating surface and buckles before placing a child in the child restraint.**

This vehicle is equipped with a universal child restraint anchor system, referred to as the LATCH (Lower Anchors and Tethers for CHildren) system. Some child restraints include rigid or webbing-mounted attachments that can be connected to these anchors. For additional information, see "LATCH (Lower Anchors and Tethers for CHildren) system" (P. 30).

If you do not have a LATCH compatible child restraint, the vehicle seat belts can be used.

Several manufacturers offer child restraints for infants and children of various sizes. When selecting any child restraint, keep the following points in mind:

- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.

- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Choose a child restraint that is designed for your child's height and weight. Always follow all recommended procedures.
- If the combined weight of the child and child restraint is less than 65 lbs. (29.5 kg), you may use either the LATCH anchors or the seat belt to install the child restraint (not both at the same time).
- If the combined weight of the child and child restraint is greater than 65 lbs. (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint.
- Be sure to follow the child restraint manufacturer's instructions for installation.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated. Canadian law requires the top tether strap on forward-facing child restraints be secured to the designated anchor point on the vehicle.

LATCH (Lower Anchors and Tethers for CHildren) SYSTEM

Basic Information



LATCH system lower anchor locations

Your vehicle is equipped with special anchor points that are used with LATCH system compatible child restraints. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint unless the combined weight of the child and child restraint exceeds 65 lbs. (29.5 kg). If the combined weight of the child and child restraint is greater than 65 lbs. (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

The LATCH anchor points can be used to install child restraints in either of the rear outboard seating positions or in the center rear seating position. Please refer to the following section of this Owner's Manual for specific information about installing a child restraint in the center rear seating position using LATCH anchors.

LATCH lower anchor

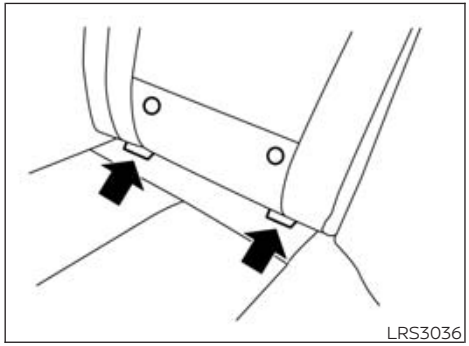
⚠WARNING

Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:

- **Only attach LATCH system compatible child restraints to the Lower Anchors shown in the illustration. For additional information, refer to the following sections of this Owner's Manual for installation guidance.**
- **Inspect the lower anchors by inserting your fingers into the lower anchor area. Feel to make sure there are no obstructions over the anchors such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the lower anchors are obstructed.**

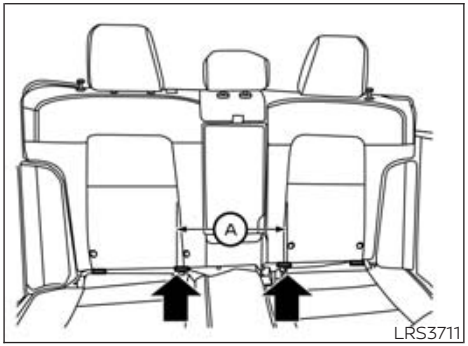
Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.

LATCH lower anchor location


LRS3036

The LATCH lower anchors are located as shown. A label is attached to the seatback to help you locate the LATCH lower anchors.

LATCH in the center rear seating position



LRS3711

There are no LATCH anchors dedicated to the center rear seating position. However, the inboard LATCH anchors belonging to the two outboard seating positions (indicated by the arrows) can be used together to secure a CRS in the center rear seating position. These anchors are separated by a distance Ⓐ of 13 in (330 mm). Before attempting to secure a CRS in this seating position, ensure that the CRS manufacturer's instructions permit the use of LATCH anchors with the spacing indicated above. (These are sometimes referred to as "shared anchors" or "borrowed anchors.")

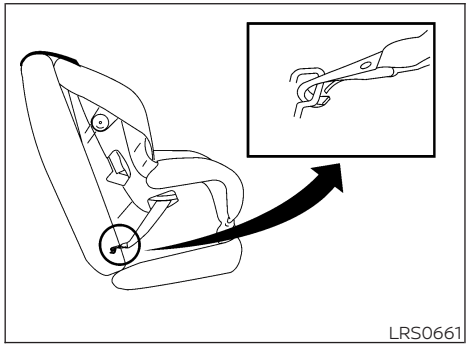
CRS with rigid lower attachments cannot be installed in the center seat. This type of CRS should only be installed in the outboard seating positions.

⚠WARNING

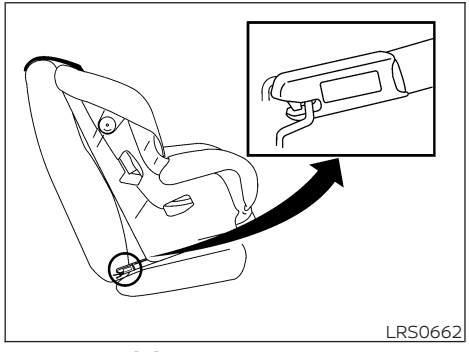
Never attach two CRS attachments to the same LATCH anchor. This may overload the anchor in a collision, which could increase the risk of the occupant's serious injury or death.

When installing the CRS in the center rear seating position with the inboard LATCH anchors, be careful to ensure any occupant or CRS in the outboard seating positions is properly restrained using the vehicle seat belt and there is no interference with the center CRS installation. If the outboard occupants cannot be properly restrained, consider using the vehicle seat belt to restrain the CRS in the center seating position, or moving the CRS to another position instead.

Installing child restraint LATCH lower anchor attachments



LATCH webbing-mounted attachment



LATCH rigid-mounted attachment

LATCH compatible child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Check your child restraint for a label stating that it is compatible with LATCH. This information may also be in the instructions provided by the child restraint manufacturer.

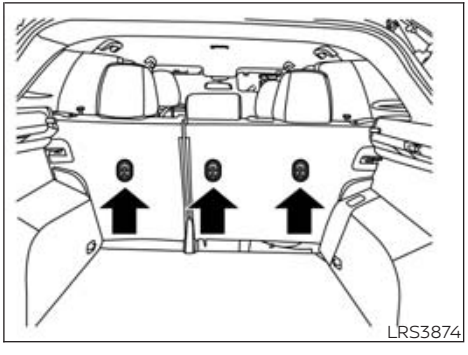
When installing a child restraint, carefully read and follow the instructions in this manual and those supplied with the child restraint.

Top tether anchor

⚠WARNING

- **Do not allow cargo to contact the top tether strap when it is attached to the top tether anchor. Properly secure the cargo so it does not contact the top tether strap. Cargo that is not properly secured or cargo that contacts the top tether strap may damage it during a collision. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**
- **The child restraint top tether strap may be damaged by contact with the tonneau cover or items in the cargo area. Remove the tonneau cover (if so equipped) from the vehicle or secure it in the cargo area. Also secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**

Top tether anchor point locations



Anchor points are located on the back of the rear seats.

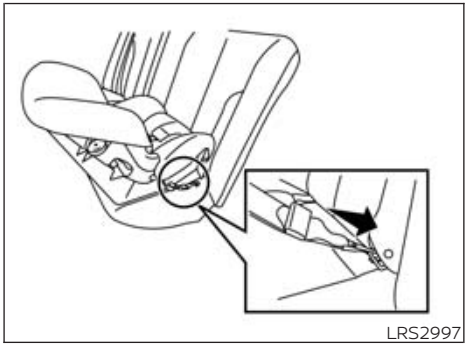
REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH

For additional information, see all Warnings and Cautions in "Child safety" (P. 26) and "Child restraints" (P. 28) before installing a child restraint.

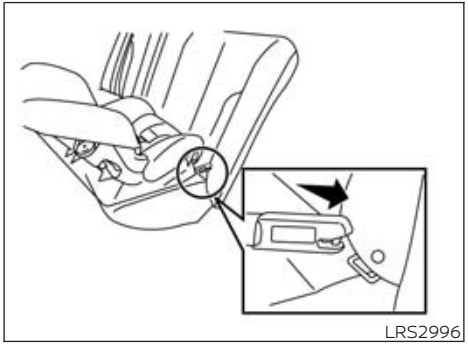
Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs. (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs. (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

Follow these steps to install a rear-facing child restraint in the rear bench seats using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

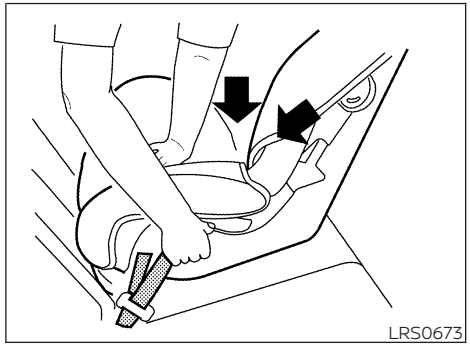


Rear-facing webbing-mounted – step 2



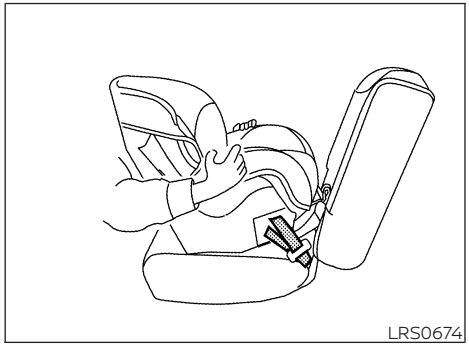
Rear-facing rigid-mounted – step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.



Rear-facing – step 3

3. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.


LRS0674

Rear-facing – step 4

4. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint or try installing by using the vehicle seat belt (if applicable). Not all child restraints fit in all types of vehicles.
5. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 2 through 4.

REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

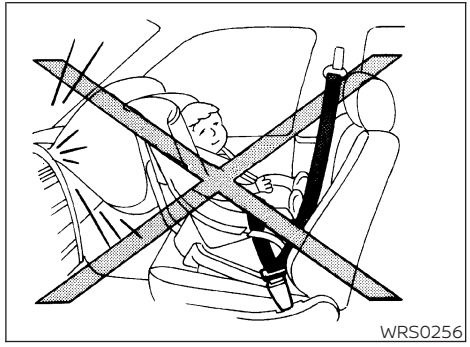
⚠WARNING

The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. For additional information, see "Front passenger air bag and status light" (P. 52).

For additional information, see all Warnings and Cautions in "Child safety" (P. 26) and "Child restraints" (P. 28) before installing a child restraint.

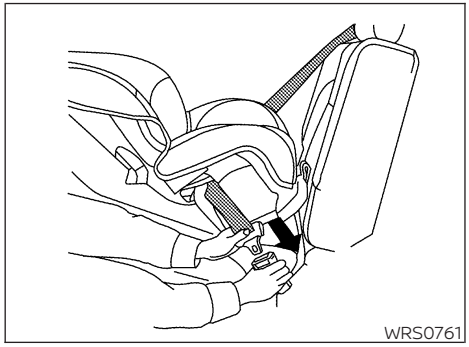
Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs. (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs. (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

Follow these steps to install a rear-facing child restraint using the vehicle seat belts in the rear seats:


WRS0256

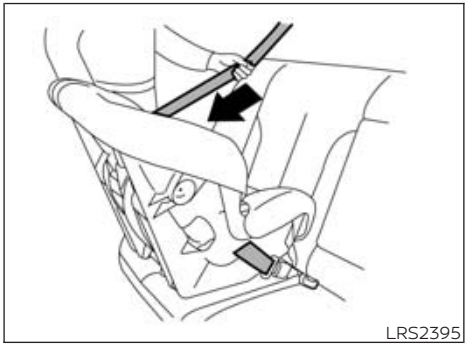
Rear-facing – step 1

1. **Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.** Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.



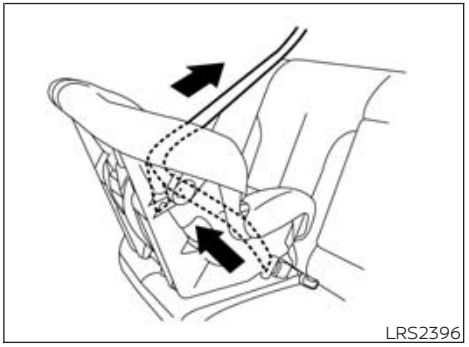
Rear-facing – step 2

2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



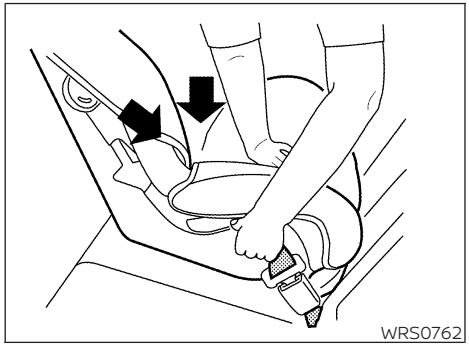
Rear-facing – step 3

3. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the ALR mode (child restraint mode). It reverts to the ELR mode when the seat belt is fully retracted.



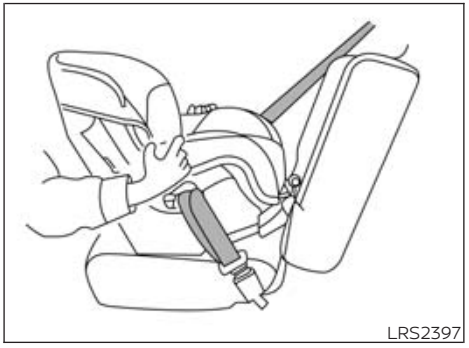
Rear-facing – step 4

4. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Rear-facing – step 5

5. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



Rear-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 1 through 6.

After the child restraint is removed and the seat belt fully retracted, the ALR mode (child restraint mode) is canceled.

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH

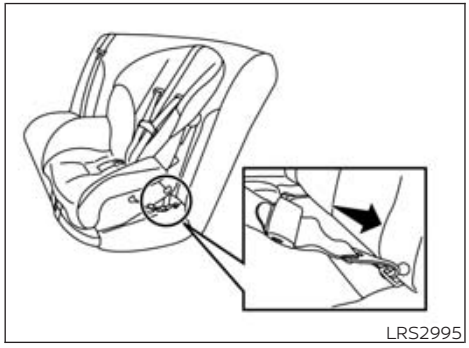
Basic information

For additional information, see all Warnings and Cautions in the "Child safety" (P. 26) and "Child restraints" (P. 28) before installing a child restraint.

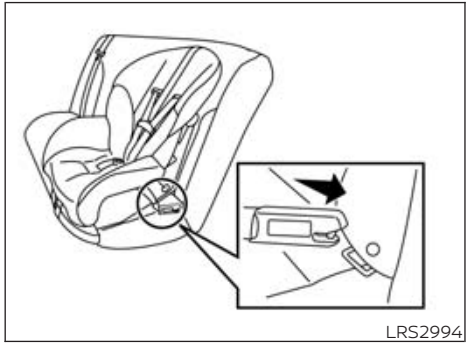
Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs. (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs. (29.5 kg) use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

Follow these steps to install a forward-facing child restraint using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.



Forward-facing webbing-mounted – step 2



Forward-facing rigid-mounted – step 2

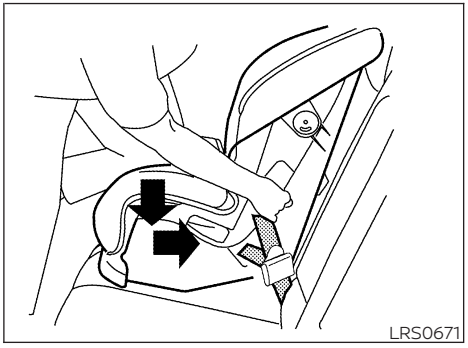
2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. For additional information, see "Installing top tether strap" (P. 38).

   Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.
3. The back of the child restraint should be secured against the vehicle seatback.

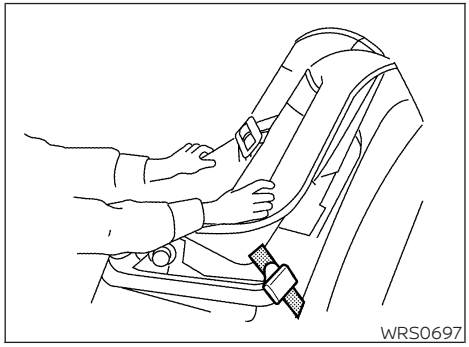
   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information, see "Head restraints/headrests" (P. 15).

   If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing – step 4

4. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.
5. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

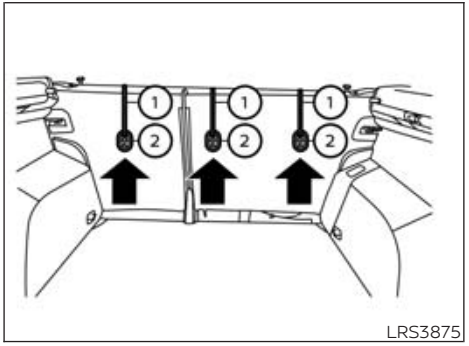


Forward-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 2 through 6.

Installing top tether strap

Basic information



Rear seats

① Top tether strap
② Anchor point

The child restraint top tether strap must be used when installing the child restraint with the LATCH lower anchor attachments.

First, secure the child restraint with the LATCH lower anchors (rear outboard positions only).

Rear bench seat

OUTBOARD SEATING POSITIONS

1. Remove the head restraint/headrest and store it in a secure place. Be sure to reinstall the head restraint/headrest when the child restraint is removed. For additional information, see "Head restraints/headrests" (P. 15).
2. Position the top tether strap as shown.
3. Secure the tether strap to the tether anchor point as shown.
4. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

If you have any questions when installing a top tether strap, it is recommended that you visit a NISSAN dealer for this service.

⚠WARNING

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**

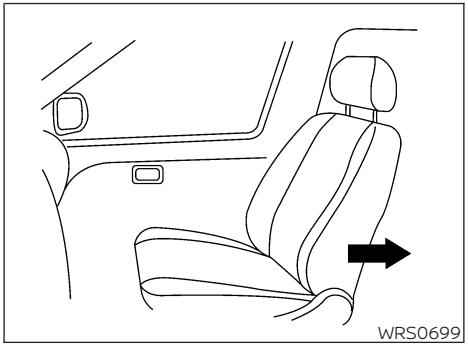
- **Do not hook the top tether strap on the seatback carpet. Be sure to use the tether anchor point to secure the top tether strap. Improper installation or failure to properly secure a child restraint can lead to failure of the restraint. The child could be badly injured or killed.**

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

Basic information

⚠ WARNING

The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. For additional information, see "Front passenger air bag and status light" (P. 52).



Forward-facing (front passenger seat) – step 1

For additional information, see all Warnings and Cautions in the "Child safety" (P. 26) and "Child restraints" (P. 28) before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs. (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs. (29.5 kg) use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

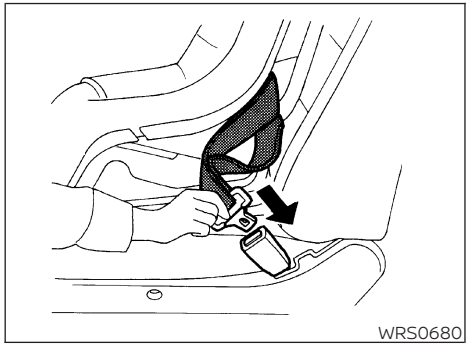
Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the rear seats or in the front passenger seat:

1. **If you must install a child restraint in the front seat, it should be placed in a forward-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and, therefore, must not be used in the front seat.**
2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

   The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information, see "Head restraints/headrests" (P. 15).

   If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.

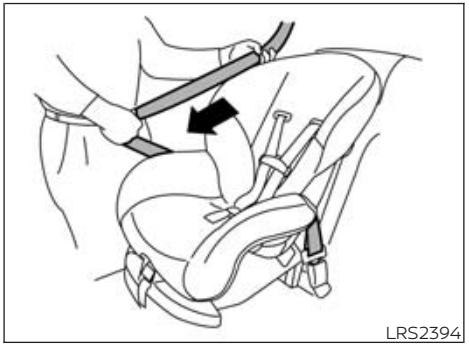


Forward-facing – step 3

3. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

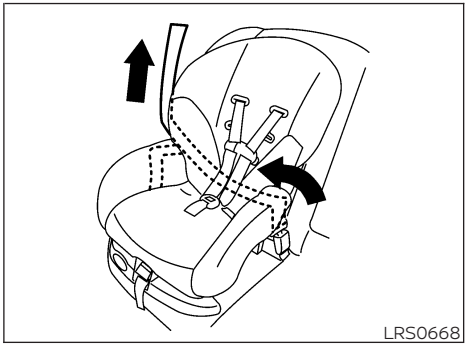
   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. For additional information, see "Installing top tether strap" (P. 41).

   Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.



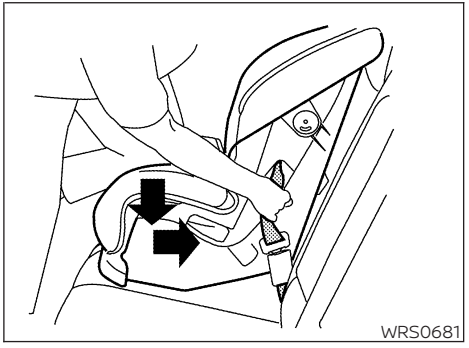
Forward-facing – step 4

4. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the ALR mode (child restraint mode). It reverts to ELR mode when the seat belt is fully retracted.



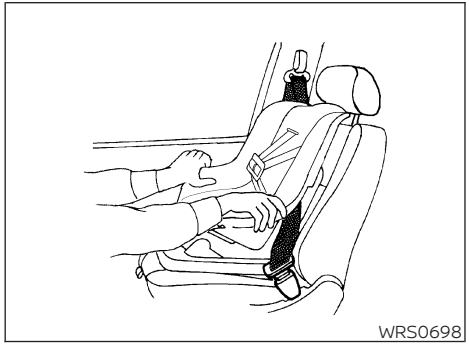
Forward-facing – step 5

5. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Forward-facing – step 6

6. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
7. Tighten the tether strap according to the manufacturer's instructions to remove any slack.



Forward-facing – step 8

8. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
9. Check to make sure the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 2 through 8.



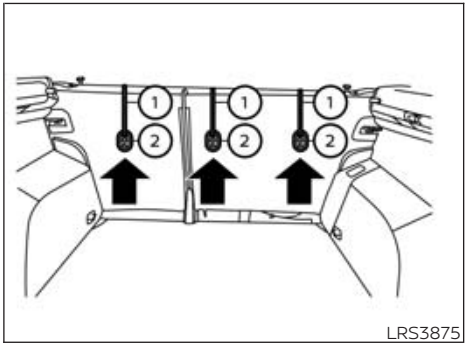
Forward-facing – step 10

10. If the child restraint is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light should illuminate. If this light is not illuminated see "Front passenger air bag and status light" (P. 52). **Move the child restraint to another seating position.** Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

After the child restraint is removed and the seat belt is fully retracted, the ALR mode (child restraint mode) is canceled.

Installing top tether strap

Basic information



Rear seats

① Top tether strap
② Anchor point

The child restraint top tether strap must be used when installing the child restraint with seat belts.

First, secure the child restraint with the seat belt.

Rear bench seat

OUTBOARD SEATING POSITIONS

1. Remove the head restraint/headrest and store it in a secure place. Be sure to reinstall the head restraint/headrest when the child restraint is removed. For additional information, see "Head restraints/headrests" (P. 15).
2. Position the top tether strap as shown.
3. Secure the tether strap to the tether anchor point as shown.
4. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

CENTER SEATING POSITION

1. Position the top tether strap as shown.
2. Secure the tether strap to the tether anchor point as shown.
3. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

If you have any questions when installing a top tether strap, it is recommended that you visit a NISSAN dealer for this service.

⚠ WARNING

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**
- **Do not hook the top tether strap on the seatback carpet. Be sure to use the tether anchor point to secure the top tether strap. Improper installation or failure to properly secure a child restraint can lead to failure of the restraint. The child could be badly injured or killed.**

BOOSTER SEATS

Basic Information

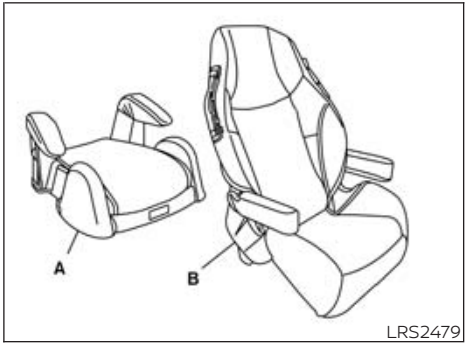
For additional information on installing a booster seat in your vehicle, see "Booster seat installation" (P. 43).

Precautions on booster seats

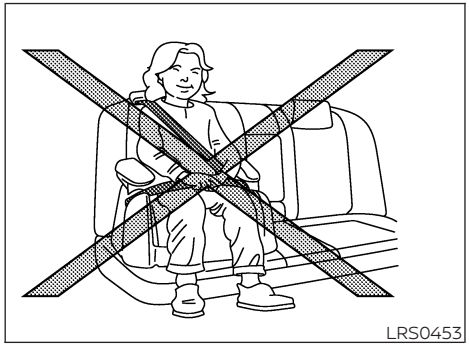
⚠ WARNING

If a booster seat and seat belt are not used properly, the risk of a child being injured or killed in a sudden stop or collision greatly increases:

- **Make sure the shoulder portion of the belt is away from the child's face and neck and the lap portion of the belt does not cross the stomach.**
- **Make sure the shoulder belt is not behind the child or under the child's arm.**
- **A booster seat must only be installed in a seating position that has a lap/shoulder belt.**



A. Low back booster seat
B. High back booster seat


LRS0453


LRS0464

Booster seats of various sizes are offered by several manufacturers. When selecting any booster seat, keep the following points in mind:

- Choose only a booster seat with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the booster seat in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- Make sure the child's head will be properly supported by the booster seat or vehicle seat. The seatback must be at or above the center of the child's ears. For example, if a low back booster seat is chosen, the vehicle seatback must be at or above the center of the child's ears. If the seatback is lower than the center of the child's ears, a high back booster seat should be used.
- If the booster seat is compatible with your vehicle, place the child in the booster seat and check the various adjustments to be sure the booster seat is compatible with the child. Always follow all recommended procedures.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

The instructions in this section apply to booster seat installation in the rear seats or the front passenger seat.

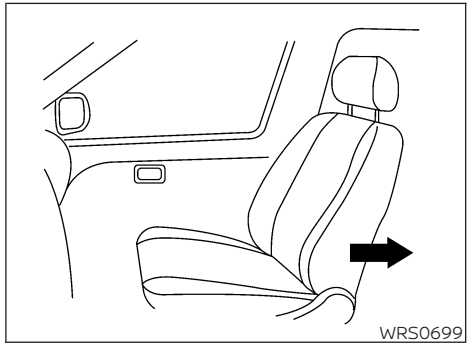
Booster seat installation

⚠WARNING

To avoid injury to child, do not use the lap/shoulder belt in the Automatic Locking Retractor (ALR) mode when using a booster seat with the seat belts.

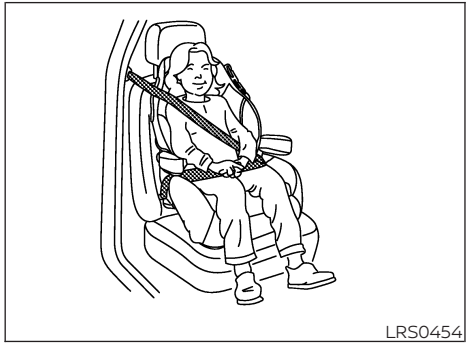
For additional information, see all Warnings and Cautions in the "Child safety" (P. 26) and "Child restraints" (P. 28) and "Booster seats" (P. 42) before installing a child restraint.

Follow these steps to install a booster seat in the rear seat or in the front passenger seat:


WRS0699

1. **If you must install a booster seat in the front seat, move the seat to the rearmost position.**

2. Position the booster seat on the seat. Only place it in a front-facing direction. Always follow the booster seat manufacturer's instructions.


LRS0454

Front passenger position

3. The booster seat should be positioned on the vehicle seat so that it is stable.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct booster seat fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the booster seat is removed.** For additional information, see "Head restraints/headrests" (P. 15).

   If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.
4. Position the lap portion of the seat belt low and snug on the child's hips. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
5. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child's shoulder. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in "Three-point type seat belt with retractor" (P. 22).



LRS0865

7. If the booster seat is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light may or may not illuminate, depending on the size of the child and the type of booster seat being used. For additional information, see "Front passenger air bag and status light" (P. 52).

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

PRECAUTIONS ON SRS

Basic Information

This SRS section contains important information concerning the following systems:

- Driver and front passenger supplemental front-impact air bag (NISSAN Advanced Air Bag System)
- Front seat-mounted side-impact supplemental air bag
- Rear outboard seat-mounted side-impact supplemental air bag
- Front central seat-mounted side-impact supplemental air bag (if so equipped)
- Roof-mounted curtain side-impact and rollover supplemental air bag
- Driver and front passenger supplemental knee air bag
- Seat belt with pretensioner(s) (front seats and rear outboard seats)

Supplemental front-impact air bag system

The NISSAN Advanced Air Bag System can help cushion the impact force to the head and chest of the driver and front passenger in certain frontal collisions.

Front seat-mounted side-impact supplemental air bag system

This system can help cushion the impact force to the chest area of the driver and front passenger in certain side-impact collisions. The side air bags are designed to inflate on the side where the vehicle is impacted.

Rear outboard seat-mounted side-impact supplemental air bag system

This system can help cushion the impact force to the chest area of the rear outboard seat passengers in certain side-impact collisions. The side air bags are designed to inflate on the side where the vehicle is impacted.

Front central seat-mounted side-impact supplemental air bag (if so equipped)

This system can help cushion the impact force to the head area of the driver and front passenger in certain side-impact and rollover collisions. In a side-impact, this air bag is designed to inflate during a vehicle impact from either side.

Roof-mounted curtain side-impact and rollover supplemental air bag system

This system can help cushion the impact force to the head of occupants in front and rear outboard seating positions in certain side-impact collisions. The curtain air bags are designed to inflate on the side where the vehicle is impacted. In a rollover, the curtain air bags are designed to inflate and remain inflated for a short time.

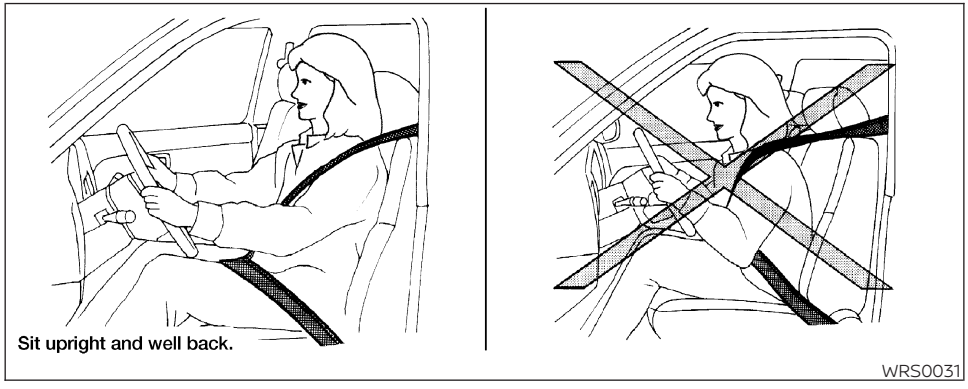
Driver and front passenger supplemental knee air bags

This system can help cushion the impact force to the driver's and front passenger's knees in certain collisions.

The SRS is designed to **supplement** the crash protection provided by the driver and front passenger and rear seat belts and is **not a substitute** for them. Seat belts should always be correctly worn and the occupant seated a suitable distance away from the steering wheel, instrument panel and door finishers. For additional information, see "Seat belts" (P. 19).

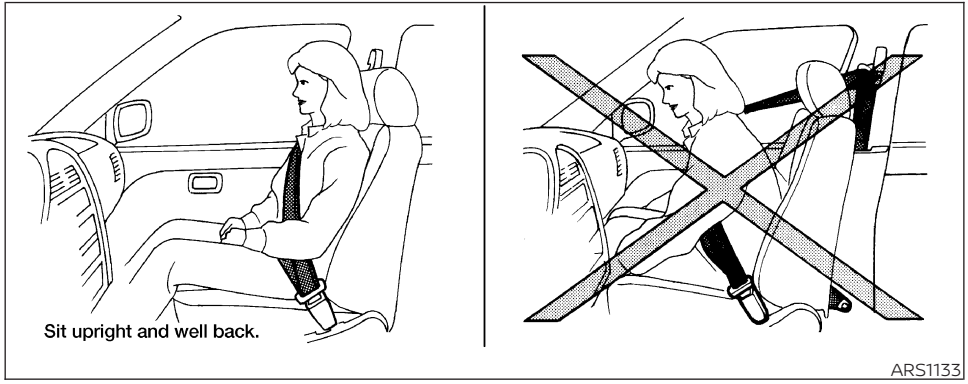
The supplemental air bags operate only when the ignition switch is placed in the ON position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

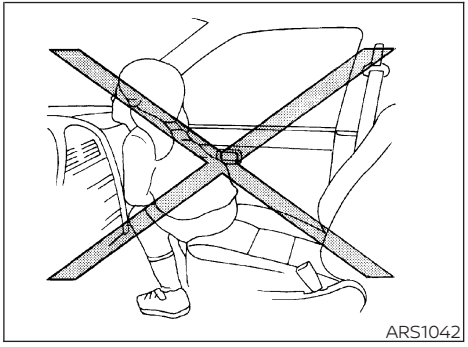


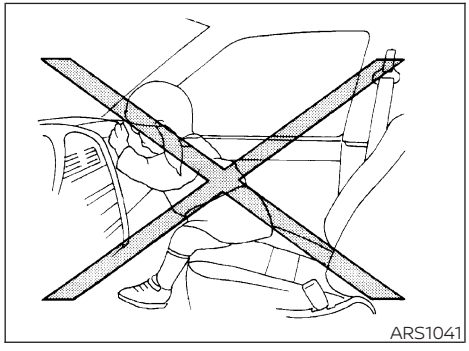
⚠ WARNING

- **The front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents**
- **The front passenger air bag and front passenger supplemental knee air bag will not inflate if the passenger air bag status light is lit. For additional information, see "Front passenger air bag and status light" (P. 52).**
- **The seat belts and the front air bags are most effective when you are sitting well back and upright in the seat. The front air bags inflate with great force. Even with the NISSAN Advanced Air Bag System, if you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the front air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always properly use the seat belts.**
- **The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The NISSAN Advanced Air Bag System monitors the severity of a collision and seat belt usage, then inflates the air bags as needed. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.**
- **The front passenger seat is equipped with an occupant classification sensor (weight sensor) that turns the front passenger air bag and front passenger supplemental knee air bag OFF under some conditions. This sensor is only used in this seat. Failure to be properly seated and wearing the seat belt can increase the risk or severity of injury in an accident. For additional information, see "Front passenger air bag and status light" (P. 52).**
- **Do not position your arm across the center of the steering wheel while driving, keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the front air bag inflates.**



ARS1133


ARS1042

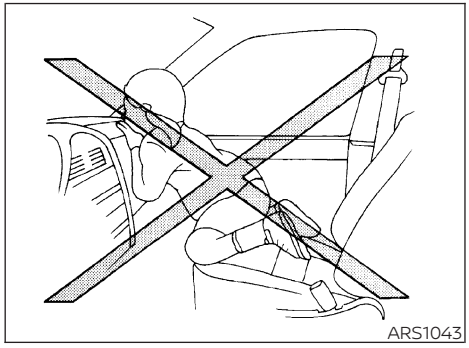

ARS1041

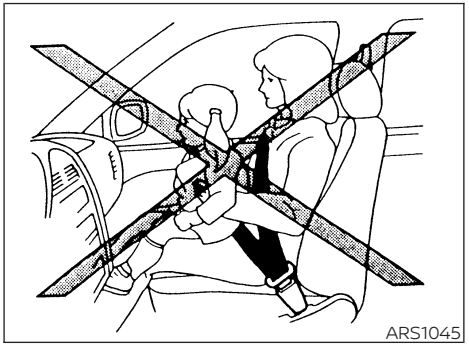
⚠WARNING

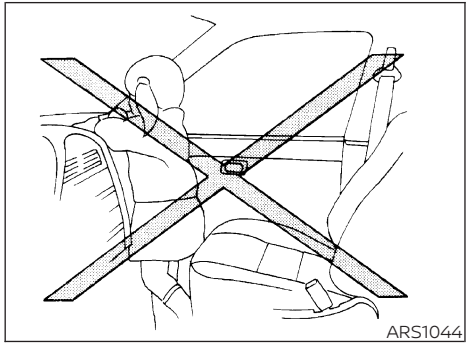
- **To prevent serious injury or death never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.**

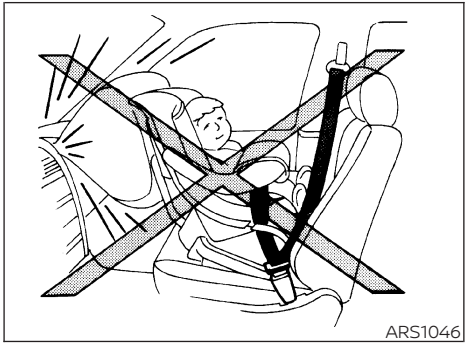
⚠WARNING

- **Children may be severely injured or killed when the front air bags, side air bags or curtain air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.**


ARS1043

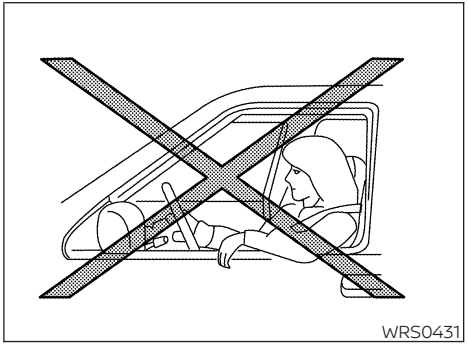

ARS1045


ARS1044


ARS1046

⚠WARNING

- **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating front air bag could seriously injure or kill your child. For additional information, see "Child restraints" (P. 28).**

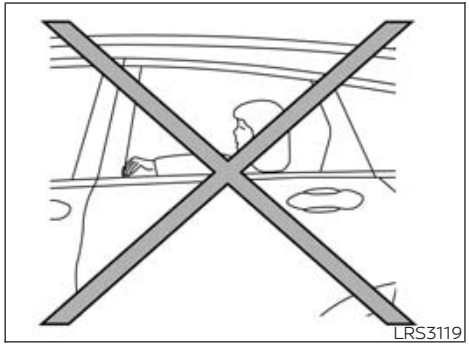

WRS0431

⚠WARNING

Front, front central and rear outboard seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact and rollover supplemental air bags:

- **The side air bags and curtain air bags ordinarily will not inflate in the event of a frontal impact, rear impact, or lower severity side collision. Always wear your seat belts to help reduce the**

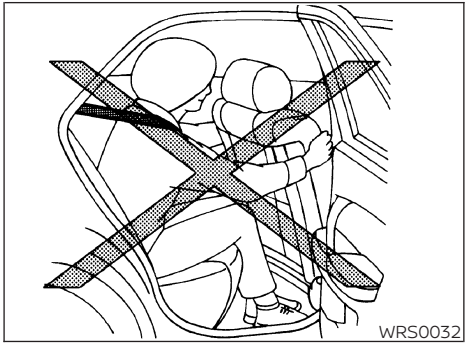
risk or severity of injury in various kinds of accidents.


LRS3119

⚠WARNING

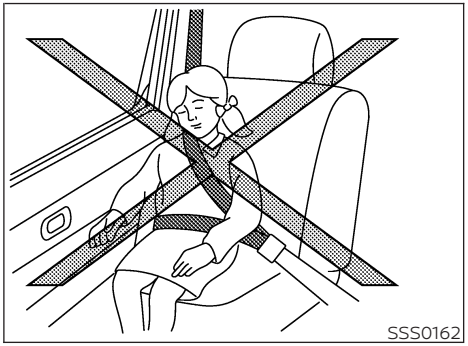
- The seat belts, the side air bags and curtain air bags are most effective when you are sitting well back and upright in the seat with both feet on the floor. The side air bag and curtain air bag inflate with great force. To minimize the risk of severe injury or death in the event of a crash, do not allow anyone to place their hand, leg or face near the side air bag on the side of the seatback of the front and rear seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the window or lean against the door.

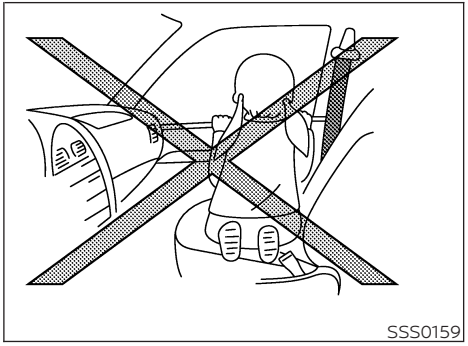
Some examples of dangerous riding positions are shown in the previous illustrations.

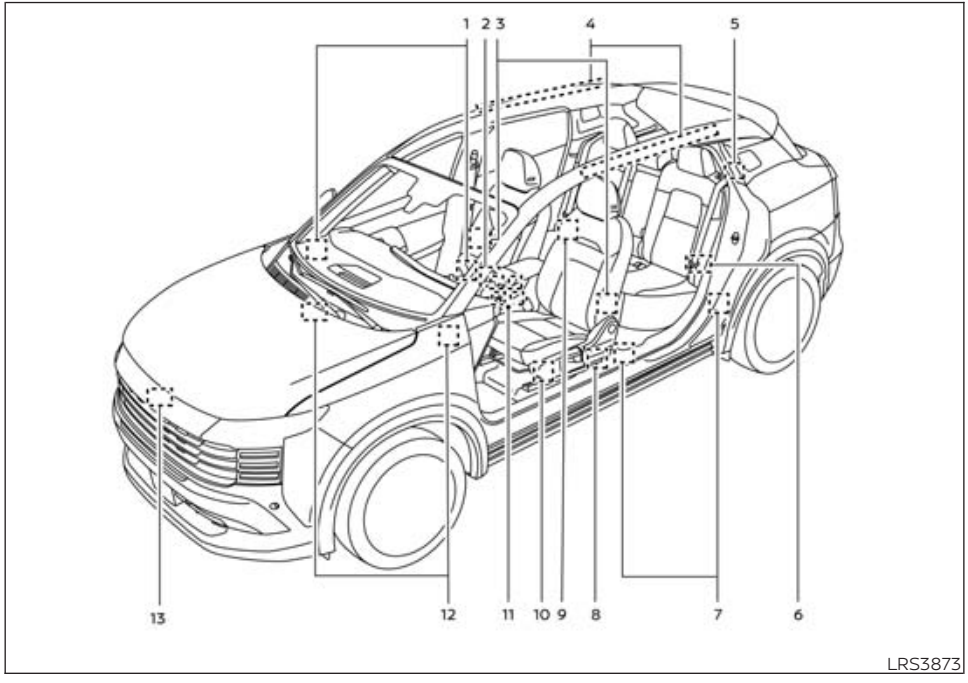

WRS0032

⚠WARNING

- When sitting in the rear seat, do not hold onto the seatback of the front seat. If the side air bag inflates, you may be seriously injured. Be especially careful with children, who should always be properly restrained. Some examples of dangerous riding positions are shown in the illustrations.
- Do not use seat covers on the front or rear seatbacks. They may interfere with side air bag inflation causing serious injury or death.


SSS0162


SSS0159



NISSAN Advanced Air Bag System (front seats)

Basic Information

1. Supplemental front-impact air bag modules
2. Air bag Control Unit (ACU)
3. Front seat-mounted side-impact supplemental air bags
4. Roof-mounted curtain side-impact and rollover supplemental air bags
5. Seat belt with pretensioner(s) (rear outboard seats) (driver's side shown; front passenger side similar)
6. Rear outboard seat-mounted side-impact supplemental air bags (driver's side shown; front passenger side similar)
7. Side satellite sensors (driver's side shown; front passenger side similar)
8. Seat belt with pretensioner(s) (front seats) (driver's side shown; front passenger side similar)
9. Front central seat mounted side-impact supplemental air bag (if so equipped)
10. Front door satellite sensor (driver's side shown; front passenger side similar)
11. Occupant classification sensors (weight sensors)
12. Driver and front passenger supplemental knee air bag
13. Crash zone sensor

⚠ WARNING

To ensure proper operation of the passenger's Advanced Air Bag System and minimize the risk of severe injury or death, please observe the following items.

- **Do not place objects on or near the steering wheel or instrument panel where the air bags inflate.**
- **Do not allow a passenger in the rear seat to push or pull on the seatback pocket.**

- **Do not place heavy loads heavier than 9.1 lbs. (4 kg) on the seatback, head restraint/headrest or in the seatback pocket.**
- **Make sure that there is nothing pressing against the rear of the seatback, such as a child restraint installed in the rear seat or an object stored on the floor.**
- **Make sure that there is no object placed under the front passenger seat.**
- **Make sure that there is no object placed between the seat cushion and center console or between the seat cushion and the door.**
- **Be sure that the front passenger seat does not contact the rear seat, instrument panel, etc., or the head restraint does not contact the roof.**
- **Do not position the front passenger seat so it contacts the rear seat. If the front seat does contact the rear seat, the air bag system may determine a sensor malfunction has occurred and the front passenger air bag status light may illuminate and the supplemental air bag warning light may flash.**
- **If a forward-facing child restraint is installed in the front passenger seat, do not position the front passenger seat so the child restraint contacts the instrument panel. If the child restraint does contact the instrument panel, the system may determine the seat is occupied and the passenger air bag may deploy in a collision. Also the front passenger air bag status light may not illuminate. For additional information, see "Child restraints" (P. 28).**
- **Confirm the operating condition with the front passenger air bag status light.**
- **If you notice that the front passenger air bag status light is not operating as described later in this section, get the occupant classification system checked. It is recommended that you visit a NISSAN dealer for this service.**
- **Until you have confirmed with a dealer that your front passenger seat occupant classification system is working properly, position the occupants in the rear seating positions.**

This vehicle is equipped with the NISSAN Advanced Air Bag System for the driver and front passenger seats. This system is designed to meet certification requirements under U.S. regulations. It is also permitted in Canada. **All of the information, cautions and warnings in this manual still apply and must be followed.**

The driver supplemental front-impact air bag is located in the center of the steering wheel. The front passenger supplemental front-impact air bag is mounted in the dashboard above the glove box. The front air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper front air bag system operation.

The vehicle's front air bag sensor system is designed to detect rapid deceleration usually associated with moderate to higher severity frontal collisions within a limited range of angles. Air bags are not designed to deploy in low-severity collisions. The vehicle's deceleration rate is related to various factors, such as speed of the vehicles, the weight and stiffness of the vehicles/objects involved, contact locations, and the angle of impact.

The NISSAN Advanced Air Bag System monitors information from the crash zone sensor, the Air bag Control Unit (ACU), seat belt buckle sensors and occupant classification sensor (weight sensor). Inflator operation is based on the severity of a collision and seat belt usage for the driver. For the front passenger, the occupant classification sensors are also monitored. Based on information from the sensors, only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. Additionally, the front passenger air

bag and front passenger supplemental knee air bag may be automatically turned OFF under some conditions, depending on the information provided by the occupant classification sensors. If the front passenger air bag and front passenger supplemental knee air bag are OFF, the front passenger air bag status light will be illuminated. For additional information, see "Front passenger air bag and status light" (P. 52). One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, it is recommended that you visit a NISSAN dealer. If you are considering modification of your vehicle due to a disability, you may also contact NISSAN. Contact information is contained in the front of this Owner's Manual.

When a front air bag inflates, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken to not inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Front air bags, along with the use of seat belts, help to cushion the impact force on the face and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating front air bag may cause facial abrasions or other injuries. Front air bags, other than the driver's and front passenger's supplemental knee air bag, do not provide restraint to the lower body.

Even with NISSAN Advanced Air Bags, seat belts should be correctly worn and the driver and front passenger seated upright as far as practical away from the steering wheel or instrument panel. The front air bags inflate quickly in order to help protect the front occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the front air bag module during inflation.

The front air bags deflate quickly after a collision.

The front air bags operate only when the ignition switch is placed in the ON position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

Front passenger air bag and status light



LRS0865

⚠WARNING

The front passenger air bag and front passenger supplemental knee air bag are designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt, and child restraints is necessary for most effective protection. Failure to follow all instructions in this manual concerning the use of seats, seat belts, and child restraints can increase the risk or severity of injury in an accident.

Status light

The front passenger seat is equipped with an occupant classification sensor (weight sensor) that turns the front passenger air bag and front passenger supplemental knee air bag on or off depending on the weight applied to the front passenger seat. The status of the front passenger air bag and front passenger supplemental knee air bag (ON or OFF) is indicated by the front passenger air bag status light which is located on the instrument panel.

After the ignition switch is placed in the ON position, the front passenger air bag status light on the instrument panel illuminates for about 7 seconds and then turns off or remains illuminated depending on the front passenger seat occupied status. The light operates as follows:

Condition: Empty front passenger seat

- Passenger Air Bag Status Light : ON (illuminated)
- Front Passenger Air Bag And Front Passenger Supplemental Knee Air Bag Status: INHIBITED

Condition: Bag or Child or Child Restraint or Small Adult in front passenger seat

- Passenger Air Bag Status Light : ON (illuminated) or OFF (dark)
- Front Passenger Air Bag And Front Passenger Supplemental Knee Air Bag Status: INHIBITED/ACTIVATED

Condition: Adult in the front passenger seat

- Passenger Air Bag Status Light : OFF (dark)
- Front Passenger Air Bag And Front Passenger Supplemental Knee Air Bag Status: ACTIVATED

In addition to the above, certain objects placed on the front passenger seat may also cause the light to operate as described above depending on their weight.

For additional information, see "Normal operation" (P. 54) and "Troubleshooting" (P. 55).

Front passenger air bag

The front passenger air bag and front passenger supplemental knee air bag are designed to automatically turn OFF when the vehicle is operated under some conditions as described below in accordance with U.S. regulations. If the front passenger air bag and front passenger supplemental knee air bag are OFF, it will not inflate in a crash. The driver air bag and other air bags in your vehicle are not part of this system.

The purpose of the regulation is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF. Certain sensors are used to meet the requirements.

The occupant classification sensor in this vehicle is a weight sensor. It is designed to detect an occupant and objects on the seat by weight. For example,

- If a child in a child restraint is in the front passenger seat, the Advanced Air Bag System is designed to turn the front passenger air bag and front passenger supplemental knee air bag OFF.
- If a child in a child restraint of a larger size and weight is in the front passenger seat, the Advanced Air Bag System may turn the front passenger air bag and front passenger supplemental knee air bag ON.

Front passenger seat adult occupants who are properly seated and using the seat belt as outlined in this manual should not cause the front passenger air bag and front passenger supplemental knee air bag to be automatically turned OFF. For small adults it may be turned OFF, however if the occupant takes his/her weight off the seat cushion (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the front passenger air bag and front passenger supplemental knee air bag OFF. Always be sure to be seated and wearing the seat belt properly for the most effective protection by the seat belt and supplemental air bag.

NISSAN recommends that pre-teens and children be properly restrained in a rear seat. NISSAN also recommends that appropriate child restraints and booster seats be properly installed in a rear seat. If this is not possible,

the occupant classification sensors are designed to operate as described above to turn the front passenger air bag and front passenger knee air bag OFF, or ON for a child in a child restraint of a larger size and weight. Failing to properly secure child restraints and to use the ALR mode (child restraint mode) may allow the restraint to tip or move. In an accident, this can also result in the front passenger air bag and front passenger knee air bag inflating in a crash instead of being OFF. For additional information, see "Child restraints" (P. 28).

If the front passenger seat is not occupied, the front passenger air bag and front passenger supplemental knee air bag are designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the object's weight detected by the occupant classification sensor. Other conditions could also result in air bag inflation, such as if a child is standing on the seat, or if two children are on the seat, contrary to the instructions in this manual. Always be sure that you and all vehicle occupants are seated and restrained properly.

Using the front passenger air bag status light, you can monitor when the front passenger air bag and front passenger supplemental knee air bag are automatically turned OFF.

If an adult occupant is in the seat but the front passenger air bag status light is illuminated (indicating that the front passenger air bag and front passenger supplemental knee air bag are OFF), it could be that the person is a small adult, or is not sitting on the seat properly or not using the seat belt properly.

If a child restraint must be used in the front seat, the front passenger air bag status light may or may not be illuminated, depending on the size of the child and the type of child restraint being used.

⚠WARNING

If the front passenger air bag status light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the front facing child restraint or seat belt is not being used properly. To avoid serious injury or death, make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the front passenger air bag status light is not illuminated, reposition the occupant or child restraint in a rear seat. Never use a rear facing child restraint in the front seat.

If the front passenger air bag status light will not illuminate even though you believe that the front facing child restraint, the seat belts and the occupant are properly positioned, it is recommended that you take your vehicle to a NISSAN dealer. A NISSAN dealer can check system status by using a special tool. However, until you have confirmed with a dealer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The NISSAN Advanced Air Bag System and front passenger air bag status light will take a few seconds to register a change in the front passenger seat status. This is normal system operation and does not indicate a malfunction.

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meter and gauges area of the instrument panel, will be illuminated (blinking or steadily lit). Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Normal operation

In order for the occupant classification sensor system to classify the front passenger based on weight, please follow the precautions and steps outlined below:

Precautions

- Make sure that there are no objects weighing over 9.1 lbs. (4 kg) hanging on the seat or placed in the seatback pocket.
- Make sure that a child restraint or other object is not pressing against the rear of the seatback.
- Make sure that a rear passenger is not pushing or pulling on the back of the front passenger seat.
- Make sure that the front passenger seat or seatback is not forced back against an object on the seat or floor behind it.
- Make sure that there is no object placed under the front passenger seat.

Steps

1. Adjust the seat as outlined in the "Seats" (P. 12) section of this manual. Sit upright, leaning against the seatback, and centered on the seat cushion with your feet comfortably extended to the floor.
2. Make sure there are no objects on your lap.
3. Fasten the seat belt as outlined in the "Seat belts" (P. 19) section of this manual. Front passenger seat belt buckle status is monitored by the occupant classification system, and is used as an input to determine occupancy status. So, it is highly recommended that the front passenger fasten their seat belt.
4. Remain in this position for 30 seconds allowing the system to classify the front passenger before the vehicle is put into motion.
5. Ensure proper classification by checking the front passenger air bag status light.

NOTE:

This vehicle's occupant classification sensor system generally keeps the classification locked during driving, so it is important that you confirm that the front passenger is properly classified prior to driving. However, the occupant classification sensor may recalculate the weight of the occupant under some conditions (both while driving and when stopped), so front passenger seat occupants should continue to remain seated as outlined above.

Troubleshooting

If you think the front passenger air bag status light is incorrect:

If the light is ON with an adult occupying the front passenger seat:

- Occupant is a small adult — the air bag light is functioning as intended. The front passenger air bag and front passenger supplemental knee air bag are suppressed.

NOTE:

If the occupant is not a small adult, then this may be due to the following conditions that may be interfering with the weight sensors:

- Occupant is not sitting upright, leaning against the seatback, and centered on the seat cushion with his/her feet comfortably extended to the floor.
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle and wait 1 minute.

NOTE:

A system check will be performed during which the front passenger air bag status light will remain lit for about 7 seconds initially.

If the light is still ON after this, the person should be advised not to ride in the front passenger seat and the vehicle should be checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

If the light is OFF with a small adult, child or child restraint occupying the front passenger seat.

This may be due to the following conditions that may be interfering with the weight sensors:

- Small adult or child is not sitting upright, leaning against the seatback, and centered on the seat cushion with his/her feet comfortably extended to the floor.
- The child restraint is not properly installed, as outlined in the "Child restraints" section of this manual.
- An object weighing over 9 lbs (4 kg) hanging on the seat or placed in the seatback pocket.
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.

- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle and wait 1 minute.

NOTE:

A system check will be performed during which the front passenger air bag status light will remain lit for about 7 seconds initially.

If the light is still OFF after this, the small adult, child or child restraint should be repositioned in the rear seat and the vehicle should be checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

If the light is OFF with no front passenger and no objects on the front passenger seat, the vehicle should be checked. It is recommended that you visit a NISSAN dealer as soon as possible.

Other supplemental front-impact air bag precautions

⚠ WARNING

To avoid risk of serious injury or death:

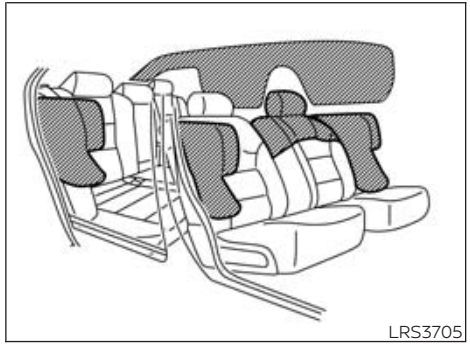
- **Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the front air bags inflate.**
- **Do not place objects with sharp edges on the seat. Also, do not place heavy objects on the seat that will leave permanent impressions in the seat. Such objects can damage the seat or occupant classification sensor (weight sensor). This can affect the operation of the air bag system.**
- **Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensors. This can also affect the operation of the air bag system.**
- **Immediately after inflation, several front air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.**
- **After a collision, NISSAN recommends that you have the seat belts and the air bag system in your vehicle inspected, and any necessary components replaced by a NISSAN dealer as soon as possible.**
- **No unauthorized changes should be made to any components or the SRS wiring or your vehicle's electrical system, suspension system, or front end structure. The SRS wiring harnesses should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system. This could affect proper operation of the front air bag system.**
- **Tampering with the front air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.**

- **Removing or modifying the front passenger seat may affect the function of the air bag system and result in serious personal injury.**
- **Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that are not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensor (weight sensor).**
- **No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the front air bag system. Tampering with the seat belt system may result in serious personal injury.**
- **It is recommended that you visit a NISSAN dealer for work on and around the front air bag. It is also recommended that you visit a NISSAN dealer for installation of electrical equipment. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.**
- **A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect the function of the supplemental air bag system.**

***The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the front air bag system and guide the buyer to the appropriate sections in this Owner's Manual.

Front, rear outboard, and front central (if so equipped) seat-mounted side-impact supplemental air bag and roof-mounted curtain side-impact and rollover supplemental air bag systems


LRS3705

The side air bags are located in the outer side of the seatback of the front and rear seats. The front central air bag (if so equipped) is located in the inboard seatback of the driver's seat. The curtain air bags are located in the side roof rails. **All of the information, cautions and warnings in this manual must be followed.** The side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity impact. They are

designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions.

Curtain air bags are also designed to inflate in certain types of rollover collisions or near rollovers. As a result, certain vehicle movements (for example, during severe off-roading) may cause the curtain air bags to inflate.

Vehicle damage (or lack of it) is not always an indication of proper side air bag and curtain air bag operation.

When the side air bags and curtain air bags inflate, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Side air bags, along with the use of seat belts, help to cushion the impact force on the chest and pelvic area of the front and rear outboard occupants. The front central side air bag, along with the use of seat belts helps cushion the impact force on the head area of the front occupants. Curtain air bags help to cushion the impact force to the head of occupants in the front and rear outboard seating positions. They can help save lives and reduce serious injuries. However, an inflating side air bag and curtain air bag may cause abrasions or other injuries. Side air bags and curtain air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver, front passenger and rear outboard occupants seated upright as far as practical away from the side air bag. Rear seat passengers should be seated as far away as practical from the door finishers and side roof rails. The side air bags and curtain air bags inflate quickly in order to help protect the occupants. Because of this, the force of the side air bag and curtain air bag inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. The side air bag will deflate quickly after the collision is over. The front central side air bag and curtain air bags will remain inflated for a short period of time.

The curtain air bag will remain inflated for a short time.

The side air bags and curtain air bags operate only when the ignition switch is placed in the ON position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

⚠ WARNING

To avoid risk of serious injury or death:

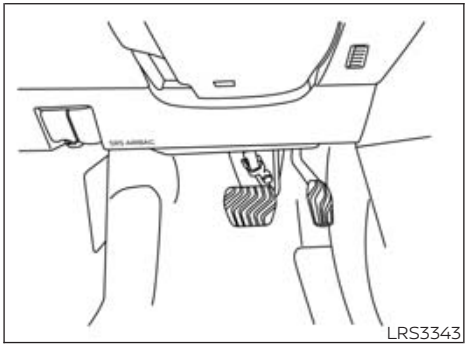
- **Do not place any objects near the seatback of the front and rear seats. Also, do not place any objects (an umbrella, bag, etc.) between the front and rear door finisher and the front and rear seat. Such objects may become dangerous projectiles and cause injury if a side air bag inflate.**
- **Right after inflation, several side air bag and curtain air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the side air bag and curtain air bag systems. This is to prevent damage to or accidental inflation of the side air bag and curtain air bag or damage to the side air bag and curtain air bag systems.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the side air bag and curtain air bag systems.**

- **Tampering with the side air bag system may result in serious personal injury. For example, do not change the front and rear seats by placing material near the seatbacks or by installing additional trim material, such as seat covers, around the side air bag.**
- **It is recommended that you visit a NISSAN dealer for work on and around the side air bag and curtain air bag. It is also recommended that you visit a NISSAN dealer for installation of electrical equipment. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side air bag or curtain air bag system.**

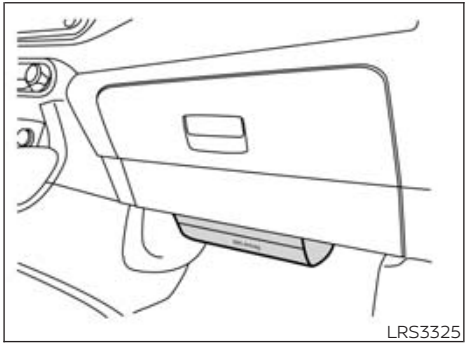
*** The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain air bag systems and guide the buyer to the appropriate sections in this Owner's Manual.

Driver and front passenger supplemental knee air bag



Driver's side



Passenger's side

The knee air bag is located in the knee bolster, on the driver's and passenger's side. **All of the information, cautions and warnings in this manual apply and must be followed.** The knee air bag is designed to inflate in higher severity frontal collisions, although it may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. It may not inflate in certain collisions.

Vehicle damage (or lack of it) is not always an indication of proper knee air bag operation.

When the knee air bag inflates, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

The knee air bag helps to cushion the impact force on the knees of the driver and passenger. It can help reduce serious injuries. However, an inflating knee air bag may cause abrasions or other injuries. The knee air bag provides restraint to the lower body.

The knee air bag inflates quickly in order to help protect the occupants. Because of this, the force of the knee air bag inflating can increase the risk of injury if the occupant is too close to, or is against, this air bag module during inflation. The knee air bag will deflate quickly after the collision is over OR the knee air bag will remain inflated for a short time.

The knee air bag operates only when the ignition switch is placed in the ON position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

⚠ WARNING

To avoid risk of serious injury or death:

- **Do not place any objects between the knee bolster and the driver's or passenger's seat. Such objects may become dangerous projectiles and cause injury if a knee air bag inflates.**
- **Right after inflation, the knee air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the knee air bag system. This is to prevent damage to or accidental inflation of the knee air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system or suspension system. This could affect proper operation of the knee air bag system.**
- **Tampering with the knee air bag system may result in serious personal injury. For example, do not change the driver or passenger knee bolster or install additional trim material around the knee air bag.**
- **It is recommended that you visit a NISSAN dealer for work on and around the knee air bag. It is also recommended that you visit a NISSAN dealer for installation of electrical equipment. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the knee air bag system.**

***The SRS wiring harness or connectors are yellow or orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the knee air bag system and guide the buyer to the appropriate sections in this manual.

Seat belt with pretensioner(s) (front and rear outboard seats)

⚠ WARNING

To avoid risk of serious injury or death:

- **Deployed seat belt pretensioner(s) cannot protect you in another collision. Once a seat belt pretensioner has activated, it cannot be reused and must be replaced together with the retractor and buckle as a unit.**
- **If the vehicle becomes involved in a collision but pretensioner(s) are not activated, be sure to have the pretensioner system checked and, if necessary, replaced. It is recommended that you visit a NISSAN dealer for this service.**
- **No unauthorized changes should be made to any components or wiring of the pretensioner system. This is to prevent damage to or accidental activation of the pretensioner(s). Tampering with the pretensioner system may result in serious personal injury.**
- **It is recommended that you visit a NISSAN dealer for work on and around the pretensioner system. It is also recommended that you visit a NISSAN dealer for installation of electrical equipment. Unauthorized electrical test equipment and probing devices should not be used on the pretensioner system.**
- **If you need to dispose of the pretensioner(s) or scrap the vehicle, it is recommended that you visit a NISSAN dealer for this service. Incorrect disposal procedures could cause personal injury.**

The pretensioner system may activate with the supplemental air bag system in certain types of collisions. Working with the seat belt retractor, the pretensioner(s) help tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front and rear outboard seat occupants.

The pretensioner(s) are encased with the seat belt retractor. These seat belts are used the same way as conventional seat belts.

When pretensioner(s) activate, smoke is released and a loud noise may be heard. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

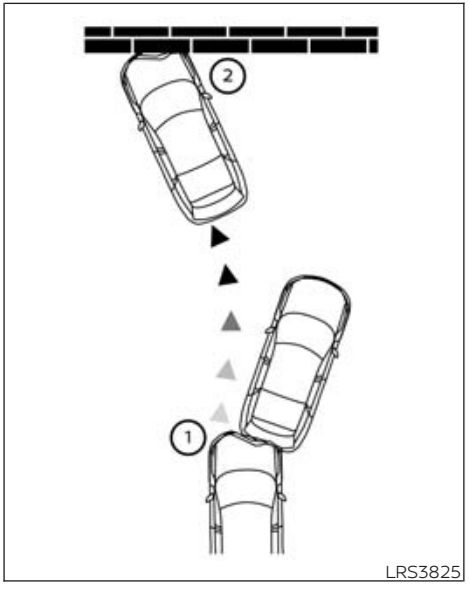
After the pretensioner(s') activation, load limiters allow the seat belt to release webbing (if necessary) to reduce forces against the chest.

The supplemental air bag warning light is used to indicate malfunctions in the pretensioner system. For additional information, see "Supplemental air bag warning light" (P. 63). If the operation of the supplemental air bag warning light indicates there is a malfunction, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

When selling your vehicle, we request that you inform the buyer about the pretensioner system and guide the buyer to the appropriate sections in this Owner's Manual.

AN AIR BAG ONLY WORKS ONCE

Basic information

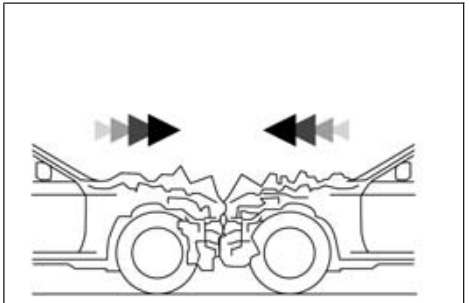


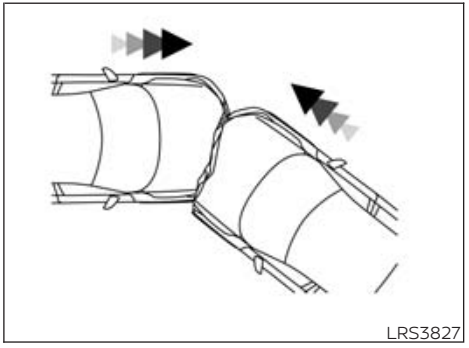
LRS3825

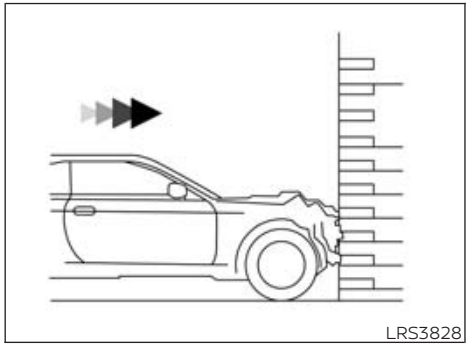
In a multiple-impact collision, air bags help protect only during the first impact severe enough to activate the system.

If, as in the illustration above, for example, the collision labeled ① were severe enough to activate the front air bags, the front air bags would not be reactivated in collision ②.

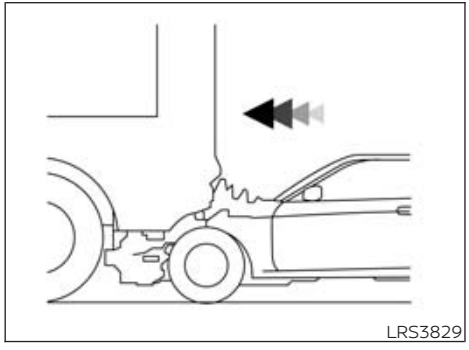
Frontal collisions


LRS3826

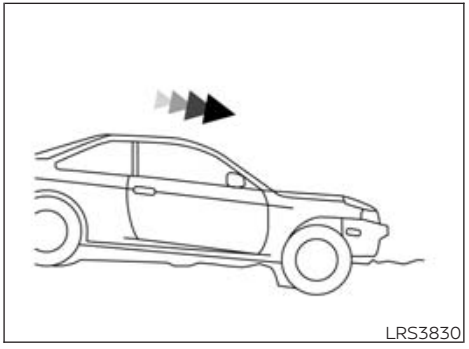

LRS3827


LRS3828

A severe frontal head-on or angled collision involving another vehicle or object, probably will activate the front air bags. Depending on the specific impact, the side and curtain air bags may also activate in this type of collision.

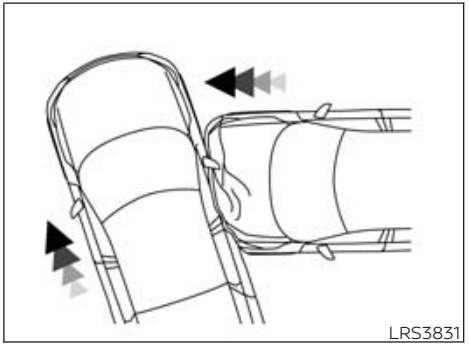

LRS3829

If the front end of your car should go under a vehicle, the impact may not activate the front air bags.

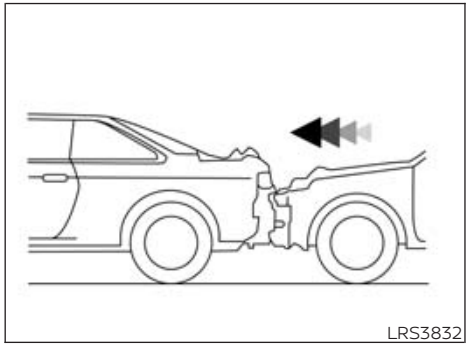

LRS3830

If your vehicle should strike an object in the road, such as a rock, debris or hole, the front air bags may or may not activate, depending on the specific impact.

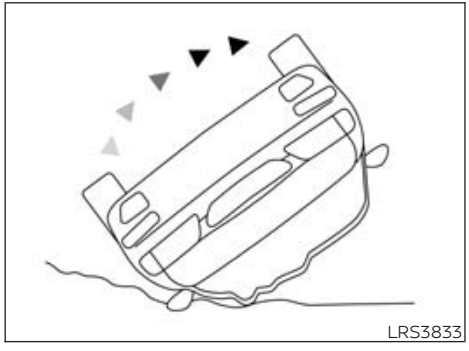
Side, rear and rollover collisions


LRS3831

The side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted.

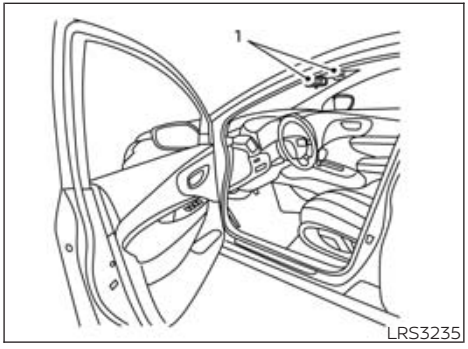

LRS3832

The front, side and curtain air bags ordinarily will not inflate in the event your vehicle is struck from the rear.


LRS3833

The curtain air bags on both sides of the vehicle and the front central side air bag (if so equipped) are designed to activate in certain types of rollover collisions or near rollovers. This function is in addition to the side impact protection function described above. The front air bags are not likely to activate in this situation.

SUPPLEMENTAL AIR BAG WARNING LABELS



LRS3235

1. SRS Air Bag Warning Labels (located on the sun visors)

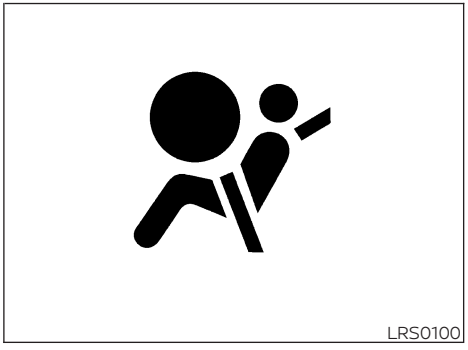
Warning labels about the supplemental front-impact air bag system are placed in the vehicle as shown in the illustration.

⚠WARNING

Do not use a rear-facing child restraint on a seat protected by an air bag in front of it. If the air bag deploys, it may cause serious injury or death.

SUPPLEMENTAL AIR BAG WARNING LIGHT

Basic Information


LRS0100

The supplemental air bag warning light, displaying in the instrument panel, monitors the circuits for the air bag systems, pretensioner(s) and all related wiring.

When the ignition switch is placed in the ON position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag and pretensioner systems need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Under these conditions, the front air bag, side air bag, curtain air bag or pretensioner systems may not operate properly. They must be checked and repaired. It is recommended that you visit a NISSAN dealer for this service.

⚠WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

Repair and replacement procedure

The front air bags, side air bags, curtain air bags, knee air bags and pretensioner(s) are designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light remains illuminated after inflation has occurred. These systems should be repaired and/or replaced as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

When maintenance work is required on the vehicle, the front air bags, side air bags, curtain air bags, knee air bags, pretensioner(s) and related parts should be pointed out to the person performing the maintenance. The ignition switch should always be in the LOCK position when working under the hood or inside the vehicle.

⚠WARNING

To ensure proper operation of the seat belts and the air bag system and minimize the risk of severe injury or death please observe the following items:

- **Once a front air bag, side air bag, curtain air bag, or knee air bag has inflated, the air bag module will not function again and must be replaced. Additionally, the activated pretensioner(s) must also be replaced. The air bag module and pretensioner(s) should be replaced. It is recommended that you visit a NISSAN dealer for this service. However, the air bag module and pretensioner(s) cannot be repaired.**
- **The front air bag, side air bag, curtain air bag, knee air bag systems and the pretensioner system should be inspected if there is any damage to the front end or side portion of the vehicle. It is recommended that you visit a NISSAN dealer for this service.**
- **If you need to dispose of a supplemental air bag or pretensioner systems or scrap the vehicle, it is recommended that you visit a NISSAN dealer. Incorrect disposal procedures could cause personal injury.**
- **If there is an impact to your vehicle from any direction, your Occupant Classification Sensor (OCS) should be checked to verify it is still functioning correctly. It is recommended that you visit a NISSAN dealer for this service. The OCS should be checked even if no air bags deploy as a result of the impact. Failure to verify proper OCS function may result in an improper air bag deployment resulting in injury or death.**

2 Instruments and controls

Instrument panel 67
Meters and gauges 68
- Basic Information 68
- Speedometer and odometer 69
- Tachometer 70
- Engine coolant temperature gauge 71
- Fuel gauge 71
- Distance To Empty (DTE) 72

Warning lights, indicator lights and audible reminders 73
- Warning & Indicator Lights 73
- Checking lights 73
- Warning/Indicator lights (red) 73
- Warning/Indicator lights (yellow) 77
- Warning/Indicator lights (other) 82
- Audible reminders 83

Vehicle information display 7 inch (18 cm) Type A (if so equipped) 84
- Basic Information 84
- How to use the vehicle information display 85
- Startup display 85
- Trip computer 85
- Settings 89
- Vehicle information display warnings and indicators 94

Vehicle information display 12.3 inch (31 cm) Type B (if so equipped) 103
- Basic Information 103
- How to use the vehicle information display 103
- Startup display 103
- Trip computer 104
- Settings 107
- Vehicle information display warnings and indicators 113

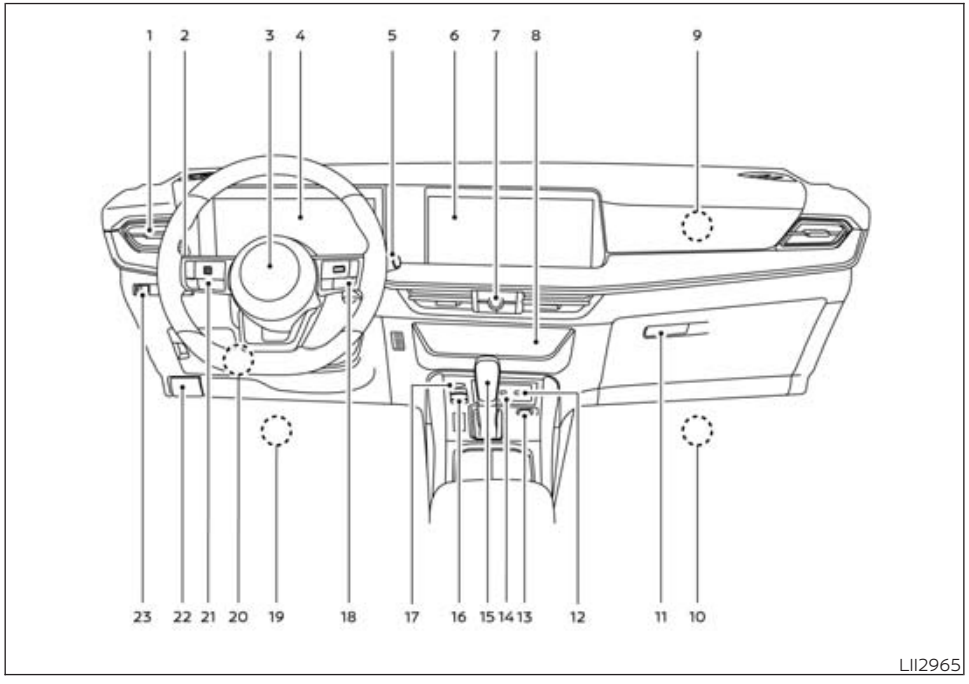
Security systems 124
- Basic Information 124
- Vehicle security system 124
- NISSAN Anti-Theft System (NATS) (if so equipped) 125
- NISSAN Vehicle Immobilizer System 125

Wiper and washer switch 126
- Switch operation 126
- Rear switch operation 127

Rear window and outside mirror (if so equipped) defroster switch 128
Windshield Deicer Switch (if so equipped) 128
Headlight and turn signal switch 129
- Headlight control switch 129
- LED Daytime Running Lights (DRL) system 133
- Front Decorative Lamp (if so equipped) 133
- Instrument brightness control 133
- Turn signal switch 134

Horn 134
Heated seat switches (if so equipped) 135

Heated steering wheel switch (if so equipped) . . . 136
Steering Assist switch (for vehicles with ProPILOT Assist) (if so equipped) . . . 136
Hill descent control switch (if so equipped) . . . 137
Emergency call (SOS) button (if so equipped) . . . 138
Emergency support . . . 138
USB/iPod® charging ports . . . 139
Wireless charger (if so equipped) . . . 140
Basic Information . . . 140
Rear Door Alert . . . 141
Power outlets . . . 142
12v outlet . . . 142
Extended storage switch . . . 143
Storage . . . 144
Front-door pockets . . . 144
Rear-door pockets . . . 144
Seatback pockets (if so equipped) . . . 144
Storage trays . . . 144
Glove box . . . 145
Console box (if so equipped) . . . 145
Cup holders . . . 145
Cargo area storage bin . . . 146
Luggage hooks . . . 147
Grocery hooks . . . 147
Cargo cover (if so equipped) . . . 148
Roof rack (Type A) (if so equipped) . . . 148
Roof rack (Type B) (if so equipped) . . . 149
Windows . . . 150
Power windows . . . 150
Power moonroof (if so equipped) . . . 153
Basic Information . . . 153
Automatic moonroof and sunshade . . . 153
Interior lights . . . 155
Basic Information . . . 155
Map lights . . . 155
Personal Light (if so equipped) . . . 156
Luggage compartment light . . . 156



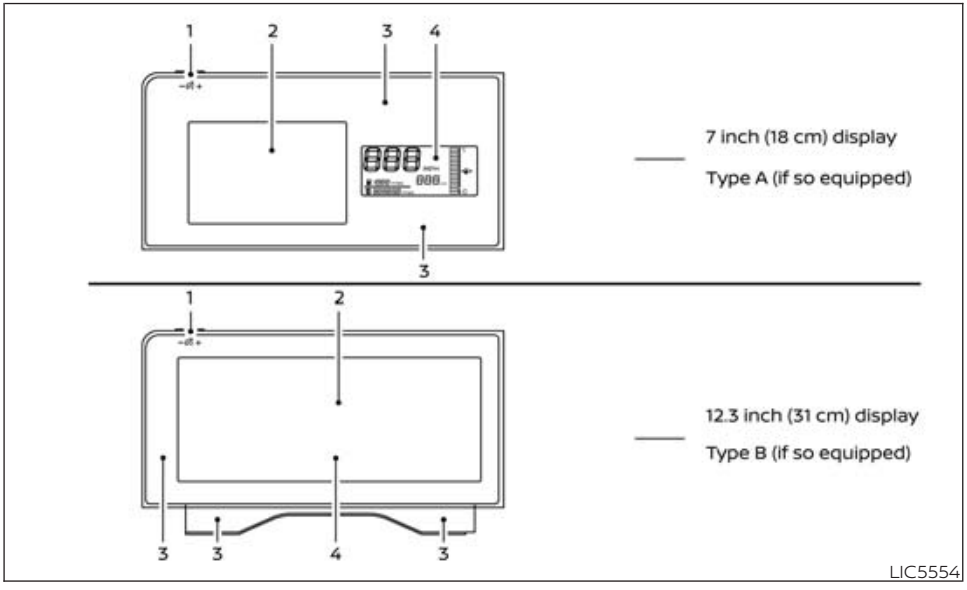
INSTRUMENT PANEL

1. Vents (P. 206)
2. Headlight/turn signal switch (P. 129)
3. Driver's supplemental air bag (P. 45)
   Horn (P. 134)
4. Meters and gauges (P. 68)
   Warning and indicator lights (P. 9, 73)
   Vehicle information display (P. 84, 103)
5. Wiper and washer switch (P. 126)
6. Center display (P. 185)
   Center display controls (if so equipped) (P. 185)
7. Audio controls (P. 185)
   Hazard warning flasher switch (P. 406)
   Camera controls (if so equipped) (P. 193)
8. Climate controls (P. 207, 214, 217)
   Heated seat switches (if so equipped) (P. 135)
9. Passenger's supplemental air bag (P. 45)
10. Front passenger supplemental knee air bag (P. 59)
11. Glove box (P. 145)
12. USB connection port (P. 185)
13. Drive Mode Selector (P. 249)
14. Wireless charger and indicator (if so equipped) (P. 140)
15. Shift lever (P. 243)
16. Electronic parking brake (P. 245)
    Automatic brake hold switch (P. 247)
17. Push-button ignition switch (P. 236)
18. Bluetooth® Hands-Free Phone System (P. 185)
    Intelligent Cruise Control (ICC) switches (if so equipped) (P. 296)
    ProPILOT Assist switches (if so equipped) (P. 313)
19. Driver supplemental knee air bag (P. 59)
20. Tilt and telescopic steering wheel lock lever (P. 179)

21. Steering wheel switches for audio control (P. 185, 103)
    Control panel and vehicle information display switches (P. 103)
22. Hood release (P. 174)
23. Steering Assist Switch (if so equipped) (P. 136)
    Heated steering wheel switch (if so equipped) (P. 136)
    Hill descent control switch (if so equipped) (P. 137)
    Idling Stop OFF switch (if so equipped) (P. 396)

* Refer to the separate NissanConnect® Owner's Manual (if so equipped).

Refer to the page number indicated in parentheses for operating details.



METERS AND GAUGES

BASIC INFORMATION

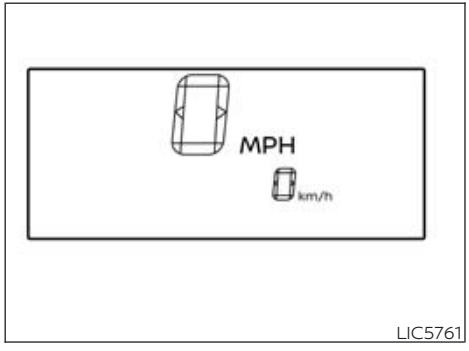
1. Instrument brightness control
2. Vehicle information display
3. Warning and indicator lights
4. Trip computer (7 inch only)
   Speedometer
   Tachometer
   Odometer
   Twin trip odometer
   Fuel gauge
   Engine coolant temperature gauge

SPEEDOMETER AND ODOMETER

Basic Information

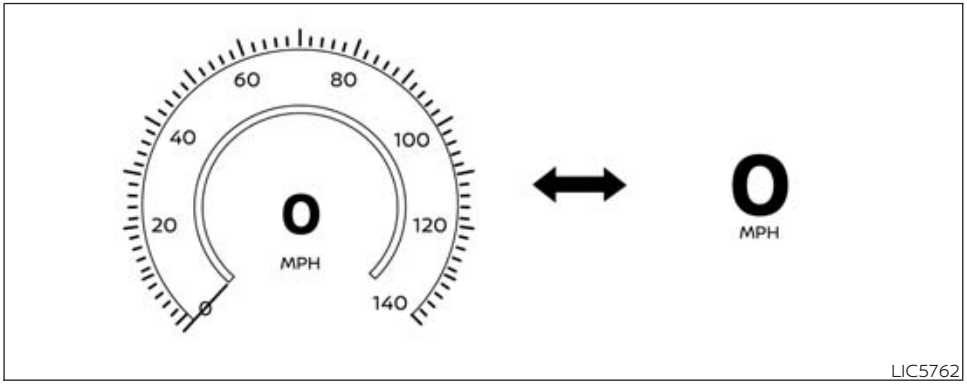
This vehicle is equipped with a speedometer and odometer. The speedometer is located on the right side of the meter cluster. The odometer is located within the trip computer **(Type A — if so equipped)** or the vehicle information display **(Type B — if so equipped)** to the left of the speedometer.

Speedometer



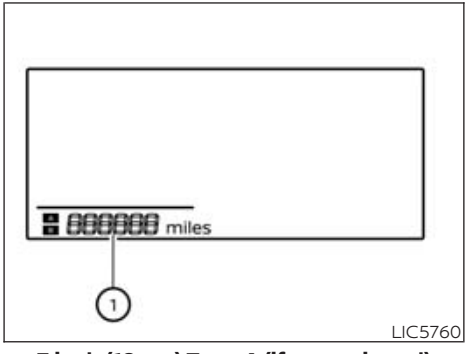
7 inch (18 cm) Type A (if so equipped)

The speedometer indicates vehicle speed.

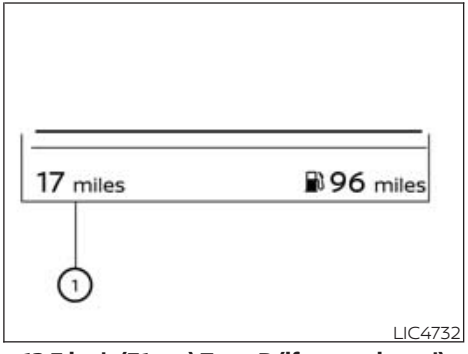


12.3 inch (31 cm) Type B (if so equipped)

Odometer/Twin trip odometer



7 inch (18 cm) Type A (if so equipped)



12.3 inch (31 cm) Type B (if so equipped)

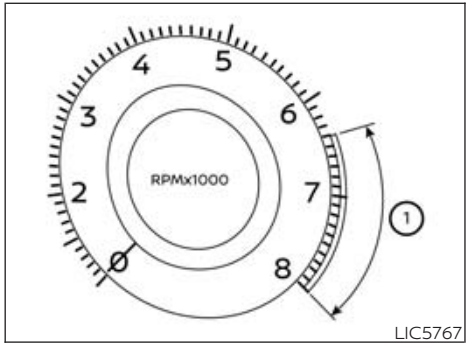
The odometer and the twin trip odometer ① are displayed in the trip computer (Type A)

(if so equipped) or the vehicle information display (Type B) (if so equipped) when the ignition switch is placed in the ON position.

The odometer records the total distance the vehicle has been driven.

The twin trip odometer records the distance of individual trips.

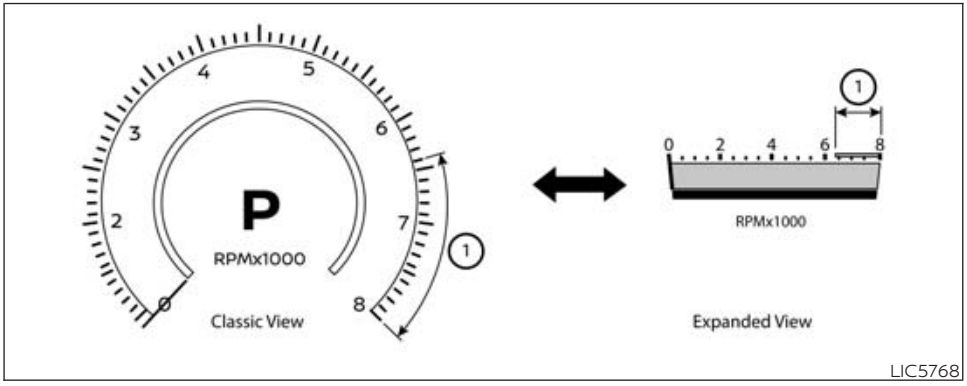
TACHOMETER



7 inch (18 cm) Type A (if so equipped)

The tachometer indicates engine speed in revolutions per minute (rpm). Do not rev engine into the red zone ①.

Type A (if so equipped): To access the tachometer, use the ◀ and ▶ on the steering wheel to navigate to the "Gauges" display. For additional information, see "How to use the vehicle information display" (P. 103).



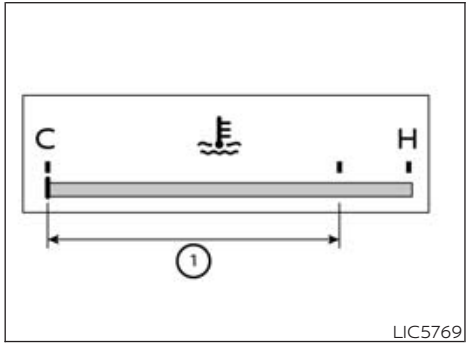
12.3 inch (31 cm) Type B (if so equipped)

Type B (if so equipped): The tachometer is located on the left side of the meter cluster.

⚠CAUTION

When engine speed approaches the red zone, shift to a higher gear or reduce engine speed. Operating the engine in the red zone may cause serious engine damage.

ENGINE COOLANT TEMPERATURE GAUGE



12.3 inch (31 cm) Type B (if so equipped)

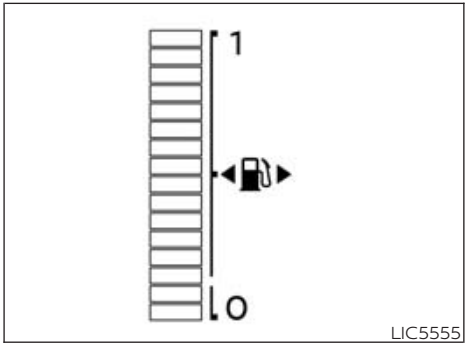
The gauge indicates the engine coolant temperature. The engine coolant temperature is within the normal range ① when the gauge needle points within the zone shown in the illustration.

The engine coolant temperature varies with the outside air temperature and driving conditions.

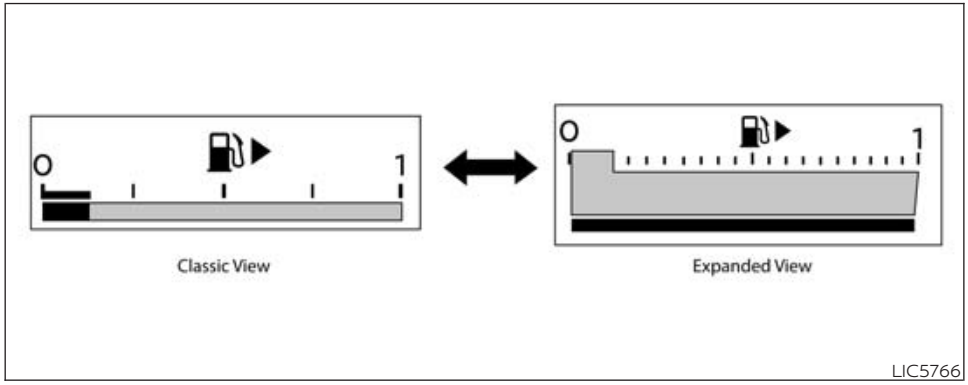
⚠CAUTION

If the gauge indicates coolant temperature near the hot (H) end of the normal range, reduce vehicle speed to decrease temperature. If the gauge is over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. For additional information, see "If your vehicle overheats" (P. 418).

FUEL GAUGE



7 inch (18 cm) Type A (if so equipped)



12.3 inch (31 cm) Type B (if so equipped)

The gauge indicates the **approximate** fuel level in the tank.

The gauge may move slightly during braking, turning, acceleration, or going up or down hills.

Type A (if so equipped): The low fuel warning message shows in the vehicle information display when the amount of fuel in the tank is getting low.

Type B (if so equipped): The low fuel warning light illuminates when the amount of fuel in the tank is getting low.

Refill the fuel tank before the gauge registers 0 (Empty).

The ⛽▶ indicates that the fuel-filler door is located on the passenger's side of the vehicle.

⚠CAUTION

- **If the vehicle runs out of fuel, the Malfunction Indicator Light (MIL) may come on. Refuel as soon as possible. After a few driving trips, the light should turn off. If the light remains on after a few driving trips, have the vehicle inspected. It is recommended that you visit a NISSAN dealer for this service**
- **For additional information, see "Malfunction Indicator Light (MIL)" (P. 80).**

DISTANCE TO EMPTY (DTE)

Displays the estimated distance the vehicle can be driven before refueling. The value is calculated based on recent fuel economy, the amount of fuel remaining in the fuel tank, and the actual fuel consumption.

Changes in driving patterns or conditions can cause the DTE value to vary. As a result, the value displayed may differ from the actual distance that can be driven.

DTE display will change to "---" when the fuel level in the tank is getting low, prior to the fuel gauge reaching 0 (Empty).

NOTE:

- **The DTE value after refill is estimated based on recent fuel economy and amount of fuel added.**
- **If a small amount of fuel is added (less than 2.7 gallons or 10 liters) or the ignition is on during refueling, the display may not be updated.**
- **Conditions that affect the fuel economy will also affect the estimated DTE value (city/highway driving, idle time, remote start time, terrain, seasonal weather, added vehicle weight, added deflectors, roof racks, etc.).**

WARNING LIGHTS, INDICATOR LIGHTS AND AUDIBLE REMINDERS

WARNING & INDICATOR LIGHTS

Warning & Indicator Lights (Red)



Warning & Indicator Lights (Yellow)





Warning & Indicator Lights (Other)



CHECKING LIGHTS

With all doors closed, apply the parking brake, fasten the seat belts and place the ignition switch in the ON position without starting the engine. The following lights (if so equipped) will come on:

BRAKE or , , , , , , , , PARK or

The following lights (if so equipped) will come on briefly and then go off:

, ABS or , , , , , , ,

If any light does not come on or operate in a way other than described, it may indicate a burned-out bulb and/or a system malfunction. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

WARNING/INDICATOR LIGHTS (red)

Basic Information

For additional information on warnings and indicators, see "Vehicle information display 7 inch (18cm) Type A (if so equipped)" (P. 84), or "Vehicle information display 12.3 inch (31 cm) Type B (if so equipped)" (P. 103).

Brake warning light (if so equipped)

BRAKE OR

This light functions for both the parking brake and the foot brake systems.

Parking brake indicator

When the ignition switch is placed in the ON position, this light comes on when the parking brake is applied.

Low brake fluid warning light

When the ignition switch is placed in the ON position, the light warns of a low brake fluid level. If the light comes on while the engine is running with the parking brake not applied, stop the vehicle and perform the following:

1. Check the brake fluid level. Add brake fluid as necessary. For additional information, see "Brake fluid" (P. 438).
2. If the brake fluid level is correct, have the warning system checked. It is recommended that you visit a NISSAN dealer for this service.

⚠ WARNING

- **Your brake system may not be working properly if the warning light is on. Driving could be dangerous. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.**
- **Pressing the brake pedal with the engine stopped and/or a low brake fluid level may increase your stopping distance and braking will require greater pedal effort as well as pedal travel.**
- **If the brake fluid level is below the MINIMUM or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked. It is recommended that you visit a NISSAN dealer for this service.**

Charge warning light



If this light comes on while the engine is running, it may indicate the charging system is not functioning properly. Turn the engine off and check the generator belt. If the belt is loose, broken, missing, or if the light remains on, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

⚠ CAUTION

- **Do not ground electrical accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely. For additional information, see "Variable voltage control system" (P. 441).**
- **Do not continue driving if the generator belt is loose, broken or missing.**

Door open warning light (if so equipped)



This light comes on when any of the doors are not closed securely while the ignition switch is in the ON position.

Electric power steering warning light (red)



⚠ WARNING

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.**
- **When the electric power steering warning light illuminates in red with the engine running, there will be no power assist for the steering. You will still have control of the vehicle, but the steering will be harder to operate. Have the power steering system checked. It is recommended that you visit a NISSAN dealer for this service.**

When the ignition switch is placed in the ON position, the electric power steering warning light illuminates. After starting the engine, the electric power steering warning light turns off. This indicates the power steering is operational.

When the electric power steering warning light illuminates in red, the electric power steering does not operate. Stop the vehicle in a safe place immediately. Have the power steering checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Power steering" (P. 383).

Electronic parking brake indicator light

PARK OR 

This light illuminates when the electronic parking brake system is operating.

When the ignition switch is placed in the ON position, the electronic parking brake indicator light illuminates. When the engine is started and the parking brake is released, the indicator light turns off.

If the parking brake is not released, the electronic parking brake indicator light remains illuminated. Ensure the electronic parking brake indicator light has turned off before driving.

If the electronic parking brake indicator light illuminates or flashes while the electronic parking brake system warning light  or  (yellow) illuminates, it may indicate that the electronic parking brake system is not functioning properly. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Parking brake" (P. 245).

Engine oil pressure warning light



This light warns of low engine oil pressure. If the light flickers or comes on during normal driving, pull off the road in a safe area, stop the engine **immediately** and call a NISSAN dealer or other authorized repair shop.

The engine oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. For additional information, see "Engine oil" (P. 435).

⚠CAUTION

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Such damage is not covered by the NISSAN New Vehicle Limited Warranty. Turn off the engine as soon as it is safe to do so.

High temperature warning light (if so equipped)



When the ignition switch is placed in the ON position, the high temperature warning light illuminates and then turns off. This indicates that the high temperature sensor in the engine coolant system is operational.

When driving, the high temperature warning light may turn off. This indicates that the engine coolant temperature is within the normal range.

⚠CAUTION

If the high temperature warning light illuminates while the engine is running, it may indicate the engine temperature is extremely high. Stop the vehicle safely as soon as possible. If the vehicle is overheated, continuing vehicle operation may seriously damage the engine. For additional information, see "If your vehicle overheats" (P. 418).

LED Headlight system warning light (if so equipped)



This light illuminates when there is an error with the system.

For additional information, see "Headlight and turn signal switch" (P. 129).

Master warning light



This light illuminates red when various vehicle information display warnings appear.

For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) and Vehicle information display 12.3 inch (31 cm) Type B (P. 103).

Seat belt warning light and chime



The light and chime remind you to fasten the seat belts. They operate differently depending on the model. To identify, check the type of the seat belt warning display shown in the vehicle information display.

For models with both the front and rear seat belt warning display:

- The seat belt warning light will illuminate when the ignition switch is placed in the ON position if the driver's seat belt is not fastened, or if the front passenger's seat belt is not fastened when occupied. The chime will sound for a period of time
- If the driver's or occupied front passenger's seat belt is changed from fastened to unfastened, the seat belt warning light will illuminate until the seat belt(s) are fastened again.
- The seat belt warning light will also illuminate for a period of time if a rear passenger's seat belt is changed from fastened to unfastened.
- For the driver's or occupied front passenger's seat belt, if the vehicle is driven above certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- For a rear passenger's seat belt, if the shift lever is placed in the D (Drive) or R (Reverse) position in the conditions that illuminate the seat beat warning light, the light will begin to blink and the chime will sound for a period of time, or until the seat belt is fastened again.

For models with rear seat belt warning display:

- The seat belt warning light will illuminate when the ignition switch is placed in the ON position if the driver's seat belt is not fastened, or if the front passenger's seat belt is not fastened when occupied.
- The seat belt warning light will also illuminate if a rear passenger's seat belt is changed from fastened to unfastened.
- If the driver's seat belt is not fastened when the ignition switch is placed in the ON position, the chime will sound shortly.
- If the vehicle is driven above certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound for a period of time, or until the seat belt is fastened again.

NOTE:

- **The warning light and/or chime may activate if an object is placed in the unoccupied front passenger seat. In this case, remove the object from the front passenger seat.**
- **The warning light and/or chime may activate if any seat belt is unfastened before the vehicle comes to a complete stop. Please keep the seat belts fastened until the vehicle has come to a complete stop.**

Steering Assist Hands Off warning light (if so equipped)



When the Steering Assist is activated, it monitors the driver's steering wheel operation. If the steering wheel is not operated or the driver takes his/her hands off the steering wheel for a period of time, the warning light illuminates. If the driver does not operate the steering wheel after the warning light has been illuminated, an audible alert sounds and the warning flashes in the vehicle information display, followed by a quick brake application to request the driver to take control of the vehicle again. If the driver remains unresponsive, the vehicle will automatically turn on the hazard lights and slow to a complete stop.

For additional information, see "Steering Assist" (P. 331).

Supplemental air bag warning light



When the ignition switch is placed in the ON position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag, and pretensioner seat belt systems need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

It is recommended that you visit a NISSAN dealer for these services.

Unless checked and repaired, the supplemental restraint system (air bag system) and/or the pretensioner(s) may not function properly. For additional information, see "Supplemental Restraint System (SRS)" (P. 45).

⚠WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

WARNING/INDICATOR LIGHTS (yellow)

Basic Information

For additional information on warnings and indicators, see "Vehicle information display 7 inch (18 cm) Type A (if so equipped)" (P. 84), or "Vehicle information display 12.3 inch (31 cm) Type B (if so equipped)" (P. 103).

Anti-lock Braking System (ABS) warning light

ABS OR 

When the ignition switch is placed in the ON position, the ABS warning light illuminates and then turns off. This indicates the ABS is operational.

If the ABS warning light illuminates while the engine is running or while driving, it may indicate the ABS is not functioning properly. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally but without anti-lock assistance. For additional information, see "Brake system" (P. 383).

Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light



This light comes on when the ignition switch is placed in the ON position. It turns off after the engine is started.

This light illuminates when the AEB with Pedestrian Detection system is set to off in the vehicle information display (if so equipped), set to off using the Drive Systems OFF switch (if so equipped), or the Vehicle Dynamic Control (VDC) system is turned off.

If the light illuminates when the AEB with Pedestrian Detection system is on, it may indicate that the system is unavailable. For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346) and "Intelligent Forward Collision Warning (I-FCW)" (P. 362).

Blind Spot Warning (BSW)/ Intelligent Blind Spot Intervention (I-BSI) indicator light (if so equipped)



This indicator light will illuminate when the BSW or BSI system is operating. If the light blinks yellow while the system is on, it may

indicate a malfunction. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Blind Spot Warning (BSW)" (P. 266), "Intelligent Blind Spot Intervention (I-BSI)" (P. 277), and "Rear Cross Traffic Alert (RCTA)" (P. 286).

Electronic parking brake warning light



The electronic parking brake system warning light functions for the electronic parking brake system. If the warning light illuminates, it may indicate the electronic parking brake system is not functioning properly. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Parking brake" (P. 245).

Engine start operation indicator light (if so equipped)



For vehicles equipped with push-button ignition this indicator illuminates when the ignition switch is in the LOCK, OFF or ON position with the shift lever in the P (Park) position.

This indicator means that the engine will start by pushing the push-button ignition switch with the brake pedal depressed.

Front passenger air bag status light



The front passenger air bag status light will be lit and the passenger front air bag will be off depending on how the front passenger seat is being used.

For additional information, see "Front passenger air bag and status light" (P. 52).

Hill descent control system ON indicator light (if so equipped)



When the ignition switch is placed in the ON position, this light comes on briefly and then turns off.

The light comes on when the hill descent control system is activated.

If the hill descent control switch is on and the indicator light blinks, the system is not engaged.

If the indicator light does not come on when the hill descent switch is on, the system may not be functioning properly. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Hill descent control switch" (P. 137) or "Hill descent control system" (P. 389).

Lane Departure Warning (LDW)/Intelligent Lane Intervention (I-LI) indicator light (if so equipped)



If this indicator light illuminates yellow while the system is on, it may indicate a malfunction. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Lane Departure Warning (LDW)" (P. 254), and "Intelligent Lane Intervention (I-LI)" (P. 261).

Low fuel warning light (if so equipped)



This light comes on when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge

reaches 0 (Empty). **There will be a small reserve of fuel in the tank when the fuel gauge reaches 0 (Empty).**

Low tire pressure warning light

Basic Information



Your vehicle is equipped with a Tire Pressure Monitoring System (TPMS) that monitors the tire pressure of all tires except the spare.

The low tire pressure warning light warns of low tire pressure or indicates that the TPMS is not functioning properly.

After the ignition switch is placed in the ON position, this light illuminates for about 1 second and turns off.

Low tire pressure warning

If the vehicle is being driven with low tire pressure, the warning light will illuminate. The "Tire Pressure Low – Add Air" appears in the vehicle information display.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure of all four tires to the recommended COLD tire pressure shown on the Tire and Loading Information label located in the driver's door opening. The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 mph (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

For vehicles with a vehicle information display, the "Tire Pressure Low - Add Air" warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.

For additional information on warnings and indicators, see "Vehicle information display 7 inch (18cm) Type A (if so equipped)" (P. 84), "Vehicle information display 12.3 inch (31 cm) Type B (if so equipped)" (P. 103), "Tire Pressure Monitoring System (TPMS)" (P. 230) and (P. 453).

TPMS malfunction

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is placed in the ON position. The light will remain on after 1 minute. Have the system checked. It is recommended that you visit a NISSAN dealer for this service. The "Tire Pressure Low— Add Air" warning does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.

For additional information, see "Tire Pressure Monitoring System (TPMS)" (P. 230) and "Tire pressure" (P. 453).

⚠ WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **If the light does not illuminate with the ignition switch placed in the ON position, have the vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.**
- **If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury or death. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label located in the driver's door opening to turn the low tire pressure warning light off. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat or the TPMS may be malfunctioning. If you have a flat tire, repair it with an emergency tire**

puncture repair kit (if so equipped) as soon as possible or replace it with a spare tire (if so equipped) as soon as possible. If no tire is flat and all tires are properly inflated, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

- **When using a wheel without the TPMS such as the spare tire, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended that you visit a NISSAN dealer for these services.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **To help avoid serious personal injury or death, when checking your tire pressure, either as part of routine maintenance or because of a TPMS alert, please check the pressure in all of your tires. Driving on underinflated tires can cause tire failure and interfere with the proper operation of other vehicle systems.**

⚠CAUTION

- **The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.**
- **If the vehicle is being driven at speeds of less than 16 mph (25 km/h), the TPMS may not operate correctly.**
- **Be sure to install the specified size of tires to the four wheels correctly.**

Low windshield-washer fluid warning light (if so equipped)



This light comes on when the windshield-washer fluid is at a low level. Add windshield-washer fluid as necessary. For additional information, see "Windshield-washer fluid" (P. 439).

Malfunction Indicator Light (MIL)



If this indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control malfunction.

The MIL may also come on steady if the vehicle runs out of fuel. Check to make sure the fuel-filler cap is installed and closed tightly, and that the vehicle has at least 3 gallons (11.4 liters) of fuel in the fuel tank.

After a few driving trips, the light should turn off if no other potential emission control system malfunction exists.

If this indicator light comes on steady for 20 seconds and then blinks for 10 seconds when the engine is not running, it indicates that the vehicle is not ready for an emission control system inspection/maintenance test. For additional information, see "Readiness for Inspection/Maintenance (I/M) test" (P. 504).

Master warning light



This light illuminates yellow when various vehicle information display warnings appear.

For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) and Vehicle information display 12.3 inch (31 cm) Type B (P. 103).

NISSAN Intelligent Key® warning light (if so equipped)



After the ignition switch is placed in the ON position, this light comes on for about 2 seconds and then turns off. This light illuminates or blinks as follows:

- The light blinks in yellow when the door is closed with the Intelligent Key left outside the vehicle and the ignition switch in the ON position. Make sure that the Intelligent Key is inside the vehicle.

- The light illuminates in yellow when it warns of a malfunction with the electrical steering lock system or the Intelligent Key system.

If the warning light illuminates in yellow while the engine is stopped, it may be impossible to free the steering lock or to start the engine. If the light comes on while the engine is running, you can drive the vehicle. However, in these cases, have the vehicle checked and repaired as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "NISSAN Intelligent Key® System" (P. 162).

Power steering warning light



⚠WARNING

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.**
- **When the power steering warning light illuminates with the engine running, there will be no power assist for the steering. You will still have control of the vehicle, but the steering will be harder to operate. Have the power steering system checked. It is recommended that you visit a NISSAN dealer for this service.**

When the ignition switch is placed in the ON position, the power steering warning light illuminates. After starting the engine, the power steering warning light turns off. This indicates the power steering is operational.

If the power steering warning light illuminates while the engine is running, it may indicate the power steering is not functioning properly and may need servicing. Have the power steering checked. It is recommended that you visit a NISSAN dealer for this service.

When the power steering warning light illuminates with the engine running, there will be no power assist for the steering, but you will still have control of the vehicle. At this time, greater steering effort is required to operate the steering wheel, especially in sharp turns and at low speeds.

For additional information, see "Power steering" (P. 383).

Rear Automatic Braking (RAB) system warning light



This light comes on when the ignition switch is placed in the ON position. It turns off after the engine is started.

This light illuminates when the RAB system is turned off in the vehicle information display or set to off using the Drive Systems OFF switch.

This light also illuminates when the RAB system is off and the shift lever is in the Reverse (R) position.

If the light illuminates or blinks when the RAB system is on, it may indicate that the system is unavailable. For additional information, see "Rear Automatic Braking (RAB)" (P. 339).

Shift P (Park) warning light (if so equipped)



This light blinks red and the key reminder chime sounds if the shift lever is in any position other than P (Park) and the ignition switch is in the OFF position. Return the shift lever to P (Park) with the ignition switch in the OFF position and the light will turn off. Place the ignition switch in the LOCK position and the chime will turn off. For additional information, see "NISSAN Intelligent Key® System" (P. 162).

Slip indicator light



This indicator light will blink when the Vehicle Dynamic Control (VDC) system is operating, thus alerting the driver to the fact that the road surface is slippery and the vehicle is nearing its traction limits.

You may feel or hear the system working; this is normal.

The light will blink for a few seconds after the VDC system stops limiting wheel spin.

The  indicator light also comes on when you place the ignition switch in the ON position. The light will turn off after approximately 2 seconds if the system is operational. If the light does not come on have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Vehicle Dynamic Control (VDC) OFF indicator light



This indicator light comes on when the VDC is turned off in the vehicle information display (if so equipped) or by pushing the VDC OFF switch (if so equipped). This indicates the VDC has been turned off.

Turn the VDC on using the vehicle information display (if so equipped) or by restarting the engine. For additional information, see "Vehicle Dynamic Control (VDC) system" (P. 385).

The VDC light also comes on when the ignition switch is placed in the ON position. The light will turn off after a period of time if the system is operational. If the light stays on or comes on along with the  indicator light while you are driving, have the VDC system checked. It is recommended that you visit a NISSAN dealer for this service.

⚠WARNING

VDC should remain on unless freeing a vehicle from mud or snow.

While the VDC system is operating, you might feel a slight vibration or hear the system working when starting the vehicle or accelerating, but this is normal.

WARNING/INDICATOR LIGHTS (other)

Basic Information

For additional information on warnings and indicators, see "Vehicle information display 7 inch (18cm) Type A (if so equipped)" (P. 84), or "Vehicle information display 12.3 inch (31 cm) Type B (if so equipped)" (P. 103).

Automatic brake hold indicator light (white/green)



The automatic brake hold indicator light (white) illuminates when the automatic brake hold system is on standby.

The automatic brake hold indicator light (green) illuminates when the automatic brake hold system is operating.

For additional information, see "Automatic brake hold" (P. 247).

CRUISE indicator light (green) (if so equipped)



The light comes on when the cruise control switch is pushed. The light goes out when the switch is pushed again. When the cruise indicator light comes on, the cruise control system is operational. For additional information, see "Intelligent Cruise Control (ICC)" (P. 296).

High Beam Assist indicator light (green)



This indicator light illuminates when the headlights come on while the headlight switch is in the AUTO position with the high beams selected. This indicates that the high beam assist is operational.

For additional information, see "Headlight and turn signal switch" (P. 129).

High beam indicator light (blue)



This blue light comes on when the headlight high beams are on and goes out when the low beams are selected.

The high beam indicator light also comes on when the passing signal is activated.

SET indicator light (green) (if so equipped)

SET

This light comes on while the vehicle speed is controlled by the cruise control system. If the light blinks while the engine is running, it may indicate the cruise control system is not functioning properly. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see "Intelligent Cruise Control (ICC)" (P. 296).

Side light and headlight indicator light (green)



The side light and headlight indicator light illuminates when the side light or headlights are on. If the headlight switch is in the AUTO position, the side light and headlight indicator light will illuminate when the headlights turn on. For additional information, see "Headlight and turn signal switch" (P. 129).

SPORT mode indicator light (green) (if so equipped)

SPORT

This light illuminates and then turns off when the ignition switch is placed in the ON position, and when the SPORT mode is selected.

For additional information, see "Drive Mode Selector" (P. 249).

Turn signal/hazard indicator lights (green)



The appropriate light flashes when the turn signal switch is activated.

NOTE:

In case of a turn signal light bulb malfunction, the turn signal will flash at a higher frequency when the turn signal switch is activated.

Both lights flash when the hazard switch is turned on.

For additional information, see "Lights" (P. 451).

AUDIBLE REMINDERS

Brake pad wear warning

The disc brake pads have audible wear warnings. When a disc brake pad requires replacement, it makes a high pitched scraping sound when the vehicle is in motion, whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the warning sound is heard. It is recommended that you visit a NISSAN dealer for this service.

Light reminder chime

With the ignition switch placed in the OFF position, a chime sounds when the driver's door is opened if the headlights or parking lights are on.

Turn the headlight control switch off or to AUTO before leaving the vehicle.

NISSAN Intelligent Key® door chime

The Intelligent Key door chime sounds if any one of the following improper operations is found.

- The Intelligent Key is left inside the vehicle when locking the doors.
- The Intelligent Key is taken outside the vehicle when operating the vehicle.

When the chime sounds, be sure to check both the vehicle and the Intelligent Key System. For additional information, see "NISSAN Intelligent Key® System" (P. 162).

Parking brake reminder chime

A chime sounds if the parking brake is set and the vehicle is driven. The chime will stop if the parking brake is released or the vehicle speed returns to zero.

Driving Aid chimes (if so equipped)

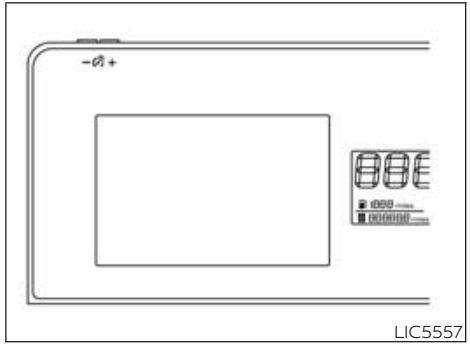
An audible alert/chime may be heard if any of the following systems (if so equipped) are active:

- Lane Departure Warning (LDW)
- Intelligent Lane Intervention (I-LI)
- Blind Spot Warning (BSW)
- Intelligent Blind Spot Intervention (I-BSI)
- Rear Cross Traffic Alert (RCTA)
- Intelligent Cruise Control (ICC)
- ProPILOT Assist
- Automatic Emergency Braking (AEB) with Pedestrian Detection
- Intelligent Forward Collision Warning (I-FCW)
- Intelligent Driver Alertness (I-DA)
- Rear Automatic Braking (RAB)
- Front and Rear Sonar System

For additional information, refer to the "Starting and Driving" section of this manual.

VEHICLE INFORMATION DISPLAY 7 INCH (18 cm) TYPE A (if so equipped)

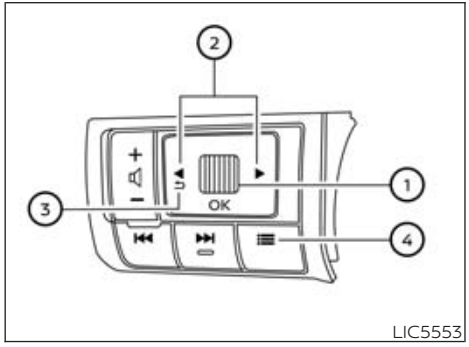
BASIC INFORMATION


LIC5557

The vehicle information display is located to the left of the speedometer. It displays such items as:

- Audio Information
- Drive Computer Information
- Fuel Economy Information
- Indicators and Warnings
- Vehicle and Meter Display Settings
- Odometer/twin trip odometer
- Gear Position Indicator (P, R, N, D, L)
- Distance To Empty and Fuel Indicator

HOW TO USE THE VEHICLE INFORMATION DISPLAY



LIC5553

The vehicle information display can be navigated using the ◀ ⮌ , ▶ buttons and scroll dial located on the steering wheel.

1. Scroll dial — Use the scroll dial to navigate through the items and change or select an item in the vehicle information display. The scroll dial allows up or down navigation and press to select.
2. ◀ , ▶ — navigate through the items in the vehicle information display.
3. ⮌ — go back to the previous menu
4. Short cut menu button— Press this button to open a shortcut menu.

STARTUP DISPLAY

When the vehicle in placed in the ON position the screens that display in the vehicle information display include:

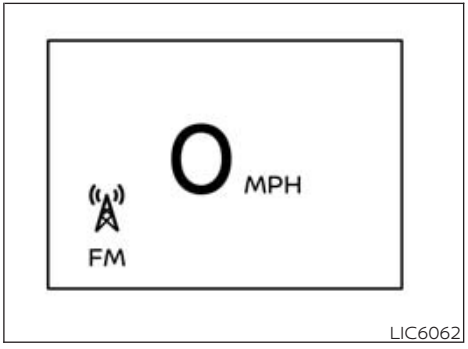
- Gauges
- Audio
- Fuel Economy
- Drive Computer
- Warning Review
- Settings

For additional information, see "Vehicle Information display warnings and indicators" (P. 94, 113).

To control what items display in the vehicle information display, see to "Customize Display" (P. 92, 111).

TRIP COMPUTER

Home



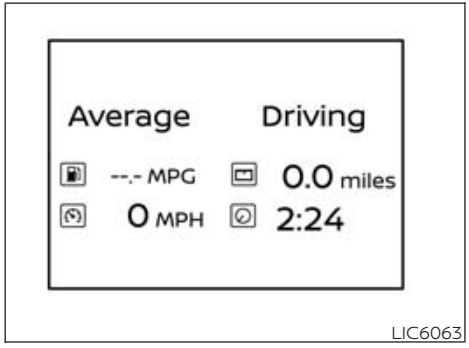
LIC6062

The Home mode shows the following information:

- Vehicle speed
- Audio

The Home display will switch to the Audio display by pressing the OK button.

Drive Computer



Average fuel consumption:

The average fuel consumption shows the average fuel consumption since the last reset.

Average speed:

The average speed shows the average vehicle speed since the last reset.

Trip odometer:

The trip odometer shows the total distance the vehicle has been driven since the last reset.

Elapsed time:

The elapsed time shows the time since the last reset.

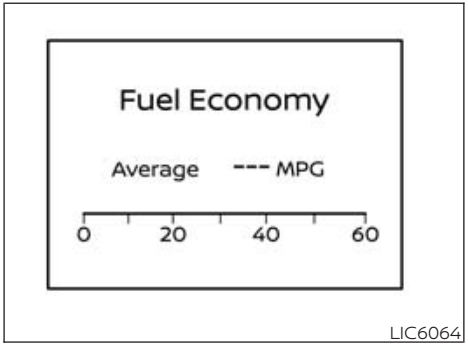
The Drive computer mode has three modes of operation. You can switch between Manual Reset1, Manual Reset2 or Auto Refuel by pushing the scroll dial.

Manual Reset1 can be reset manually by using the scroll dial.

Manual Reset2 can be reset manually by using the scroll dial or will be reset automatically each time the ignition switch is placed in the OFF position (if so equipped).

Auto Refuel will be reset automatically each time when refueling.

Fuel economy display



Current fuel consumption:

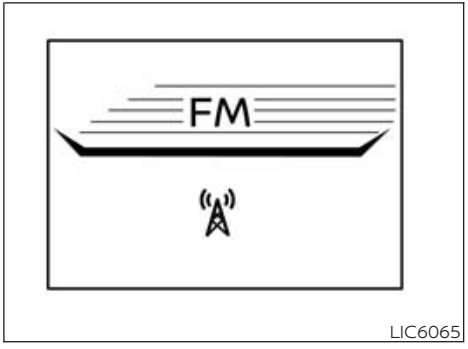
The current fuel consumption mode shows the current fuel consumption.

Average fuel consumption:

The average fuel consumption mode shows the average fuel consumption since the last reset.

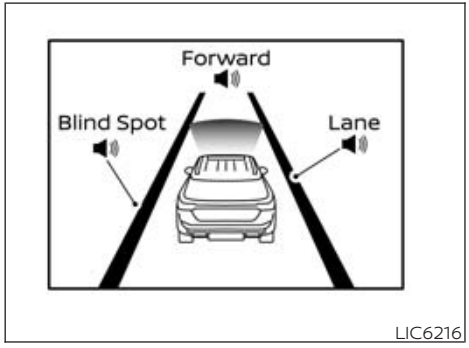
The display is updated every 30 seconds. For about the first 1/3 of a mile (500 m) after a reset, the display shows "– –."

Audio



The audio mode shows the status of audio information.

Driving Aids

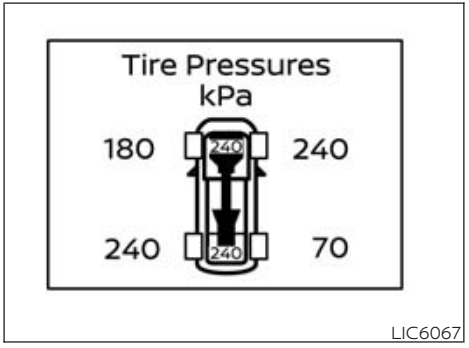


The driving aids mode shows the operating condition for the following systems (if so equipped):

- Emergency Brake:
  - Automatic Emergency Braking (AEB) with Pedestrian Detection system
  - Intelligent Forward Collision Warning (I-FCW)
- Lane:
  - Lane Departure Warning (LDW)
- Blind Spot:
  - Blind Spot Warning (BSW)

For additional information, see "Blind Spot Warning (BSW)" (P. 266), "Lane Departure Warning (LDW)" (P. 254), "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346), or "Intelligent Forward Collision Warning (I-FCW)" (P. 362).

Tire Pressures

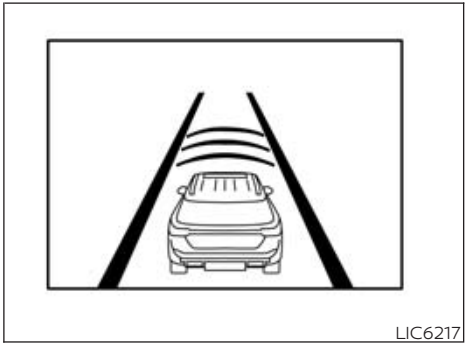


The tire pressure mode shows the pressure of all four tires while the vehicle is driven.

When the "Tire Pressure Low — Add Air" warning appears, the display can be switched to the tire pressure mode by pressing the ◀▶ buttons to reveal additional details on the displayed warning.

For additional information, see "Low tire pressure warning light" (P. 79), "Tire Pressure Monitoring System (TPMS)" (P. 230), "Flat tire" (P. 407) and "Types of tires" (P. 460)

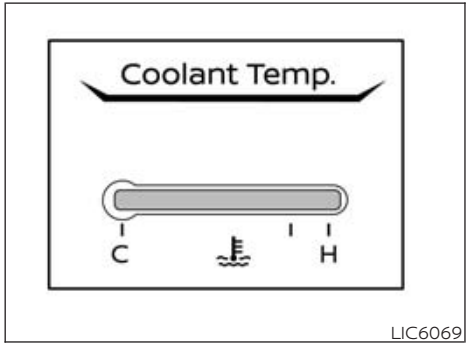
Intelligent Cruise Control (ICC)



The Intelligent Cruise Control (ICC) mode shows the operating condition for the ICC system.

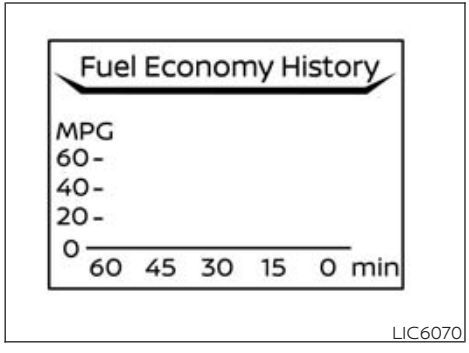
For additional information, see "Intelligent Cruise Control (ICC)" (P. 296).

Coolant Temperature



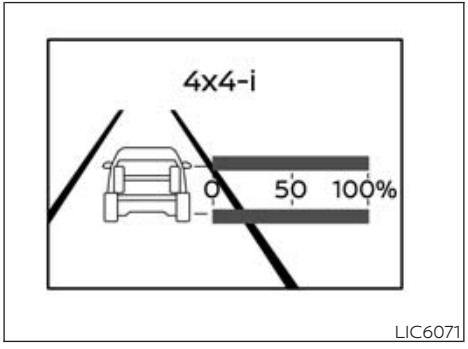
This display indicates the status of engine coolant temperature.

Fuel economy history



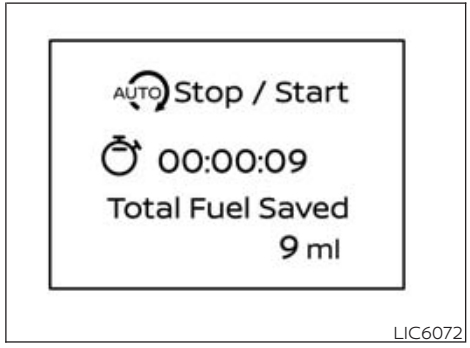
The display shows the previous fuel economy history.

Intelligent 4x4 torque distribution display (if so equipped)



When the Intelligent 4x4 torque distribution display is selected, you can view the distribution ratio of the transmission torque to the front and rear wheels during driving.

Idling Stop System



The Idling Stop System provides the driver with information about the amount of fuel saved while using the system.

For additional information, see "Idling Stop System" (P. 396).

SETTINGS

Basic Information

The setting mode allows you to change the information displayed in the vehicle information display as well as the model for several vehicle functions:

- VDC Setting
- Driver Assistance
- Customize Display
- Vehicle Settings
- TPMS Settings
- Maintenance
- Clock
- Unit/Language
- Factory Reset

VDC Setting

Basic Information

Displays available VDC settings.

Some menu items shown below may not be equipped on your vehicle.

VDC Setting

Displays available VDC settings.

Some menu items shown below may not be equipped on your vehicle.

- **System**: Select to turn the VDC system on or off. For additional information, see "Vehicle Dynamic Control (VDC) system" (P. 385).

Driver Assistance

Basic Information

The driver assistance menu allows the user to change the various driving aids and assistance options.

Some menu items shown below may not be equipped on your vehicle.

Lane Assist

Displays the available lane assist options.

Some menu items shown below may not be equipped on your vehicle.

- **Warning**: Allows user to turn the Lane Departure Warning (LDW) system on or off. For additional information, see "Lane Departure Warning (LDW)" (P. 254).
- **Steering Vibration**: Allows user to set the strength of the steering wheel vibration to High/Middle/Low.

Blind Spot Assist

Displays the available blind spot assist options.

Some menu items shown below may not be equipped on your vehicle.

- **Warning**: Allows user to turn the Blind Spot Warning (BSW) system on or off. For additional information, see "Blind Spot Warning (BSW)" (P. 266).

Emergency Brake

Displays the available emergency brake options.

Some menu items shown below may not be equipped on your vehicle.

- **Emergency Braking**: Allows user to turn the emergency brake on or off. For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).
- **Rear**: Allows user to turn the emergency brake on or off. For additional information, see "Rear Automatic Braking (RAB)" (P. 339).

Parking Aids

Displays the available parking aids options.

Some menu items shown below may not be equipped on your vehicle.

- **Auto Show Sonar**: Allows user to turn the auto show sonar on or off.
- **Rear Sonar**: Allows user to turn the rear sonar on or off.
- **Sonar Distance**: Allows user to adjust the volume to Long/Medium/Short.
- **Sonar Volume**: Allows user to adjust the range to High/Medium/Low.

Rear Cross Traffic Alert

Some menu items shown below may not be equipped on your vehicle.

- **Rear Cross Traffic Alert**: Allows user to turn Rear Cross Traffic Alert on or off. For additional information, see "Rear Cross Traffic Alert (RCTA)" (P. 286).

Driver Alertness

Some menu items shown below may not be equipped on your vehicle.

- **Driver Alertness**: Allows user to turn the Intelligent Driver Alertness (I-DA) system on or off. For additional information, see "Intelligent Driver Alertness (I-DA)" (P. 374)

Timer Alert

Some menu items shown below may not be equipped on your vehicle.

- **Timer Alert**: Allows user to set or reset an alert at a specific time interval.

Low Temperature Alert

Some menu items shown below may not be equipped on your vehicle.

- **Low Temperature Alert**: Allows user to turn the low temperature alert on or off.

Chassis Control

Some menu items shown below may not be equipped on your vehicle.

- **Trace Control**: Allows the user to turn the Intelligent Trace Control (I-TC) function on or off.

ECO Setting

Basic Information

The ECO setting menu allows the user to change the settings for the ECO.

Some menu items shown below may not be equipped on your vehicle.

ECO Customize

Displays available ECO settings.

Some menu items shown below may not be equipped on your vehicle.

- **Cruise Control**: Allows user to turn the cruise control ECO option on or off. For additional information, see "ECO Customize" (P. 251).
- **Idling stop**: Allows user to turn the Idling Stop System (ISS) ECO option on or off. For additional information, see "Idling Stop System" (P. 396).
- **Air Conditioning**: Allows user to turn the Air Conditioning ECO option on or off. For additional information, see "ECO" (P. 251).

ECO Drive Assist

Displays available ECO information settings.

Some menu items shown below may not be equipped on your vehicle.

- **ECO Indicator**: Allows user to turn the ECO indicator on or off.
- **ECO Drive Report**: Allows user to turn the ECO Drive Report on or off.

View History

Some menu items shown below may not be equipped on your vehicle.

- **View History**: Displays the history report for the vehicle.

Tire Pres ECO advice

Some menu items shown below may not be equipped on your vehicle.

- **Tire Pres ECO advice**: Allows user to turn the tire pressure ECO advice on or off.

TPMS Settings

Basic Information

The TPMS settings menu allows the user to change the tire pressure units displayed in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

Tire Pressure Unit

Displays available TPMS Settings.

Some menu items shown below may not be equipped on your vehicle.

- **Tire Pressure Unit**: Allows user to select the tire pressure units that will display in the vehicle information display.

Clock

Basic Information

Some menu items shown below may not be equipped on your vehicle.

Clock

- **Clock**: Allows user to adjust the clock settings and time within the vehicle information display. Adjustments that can be made include manually setting the time and 12H/24H format.

  If these options do not appear, the clock must be set within the center display. For additional information, refer to the separate NissanConnect® Owner's Manual (if so equipped).

Vehicle Settings

Basic Information

The vehicle settings allow the user to change the settings for lights, wipers, locking, keys, and other vehicle settings.

Some menu items shown below may not be equipped on your vehicle.

Lighting

Displays the available lighting settings.

Some menu items shown below may not be equipped on your vehicle.

- **Welcome Headlight**: Allows user to tun the welcome headlight on or off.
- **Auto Headlight**: Allows user to change when the auto headlight turns on.
- **Light Off Delay**: Allows user to change the duration of time, from 0 to 180 seconds, that the automatic headlights stay on after the vehicle is shut off.

Locking

Displays the available locking settings.

Some menu items shown below may not be equipped on your vehicle.

- **Selective Unlock**: Select to turn the selective unlock feature on or off. When this item is turned on (default), only the driver's door is unlocked after the driver's door unlock operation. All the doors can be unlocked if the capacitive touch pad is pressed within 60 seconds of the door handle capacitive unlock feature. When this feature is turned off, all the doors unlock when the driver's door unlock operation is performed once.
- **Auto Door Unlock**: Displays the available auto door unlock options.
  - **Shift to P**: Doors will unlock when the vehicle is shifted into P (Park).
  - **IGN OFF**: Doors will unlock when the ignition is turned off.
  - **OFF**: Doors will have to be manually unlocked.
- **Horn beeps on lock**: Allows user to turn the answer back horn feature on or off. When turned on, the horn will chirp and the hazard indicators will flash twice when locking the vehicle with the Intelligent Key.
- **Walk Away Lock**: Allows the user to turn the walk away lock function ON or OFF. For additional information, see "Walk away lock function" (P. 170).
- **Approach Unlock**: Allows the user to turn the approach unlock function ON or OFF. For additional information, see "Approach unlock function" (P. 170).

Wipers

Displays the available wipers settings.

Some menu items shown below may not be equipped on your vehicle.

- **Speed Dependent**: Allows user to turn the speed dependent feature on or off.
- **Reverse Link**: Allows user to turn the reverse link feature on or off.
- **Drip Wipe**: Allows user to turn the drip wipe feature on or off.

Rear Door Alert

Displays the available Rear Door Alert options. For additional information, see "Rear Door Alert" (P. 141).

Some menu items shown below may not be equipped on your vehicle.

- **Horn & Alert**: When selected, the alert is displayed and the horn sounds.
- **Alert Only**: When selected, only the alert is displayed.
- **OFF**: When selected, no alert or horn will be active.

Maintenance

Basic Information

The maintenance menu allows the user to set reminders for various vehicle maintenance items.

Some menu items shown below may not be equipped on your vehicle.

⚠ WARNING

The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. For additional information, see "Changing wheels and tires" (P. 461). Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.

Oil Control System

Some menu items shown below may not be equipped on your vehicle.

- **Oil Control System**: Displays the remaining distance before the next engine oil service is due.

Oil and Filter

Some menu items shown below may not be equipped on your vehicle.

- **Oil and Filter**: Allows user to set a reminder at a specific interval or reset the current one.

Tire

Some menu items shown below may not be equipped on your vehicle.

- **Tire**: Allows user to set a reminder at a specific interval or reset the current one.

Other

Some menu items shown below may not be equipped on your vehicle.

- **Other**: Allows user to set a reminder at a specific interval or reset the current one.

Customize Display

Basic Information

The customize display menu allows the user to customize the information that appears in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

Main Menu Selection

Displays available screens that can be shown in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

- **Home**: Allows user to turn the home screen on or off in the vehicle information display.
- **Drive Computer**: Allows user to turn the drive computer screen on or off in the vehicle information display.
- **Fuel Economy**: Allows user to turn the fuel economy screen on or off in the vehicle information display.
- **TPMS**: Allows user to turn the tire pressures screen on or off in the vehicle information display.

- **4x4–I**: Allows user to turn the 4X4–I screen on or off in the vehicle information display.
- **Idle Stop System**: Allows user to turn the idle stop system screen on or off in the vehicle information display.
- **Coolant Temp.**: Allows user to turn the coolant temp. screen on or off in the vehicle information display.
- **Audio**: Allows user to turn the audio screen on or off in the vehicle information display.
- **Driving Aids**: Allows user to turn the driving aids screen on or off in the vehicle information display.
- **Cruise**: Allows user to turn the cruise screen on or off in the vehicle information display.

Transition (Cruise)

Some menu items shown below may not be equipped on your vehicle.

- **Transition (Cruise)**: Allows user to turn the transition (cruise) feature on or off.

Welcome Effect

Displays the available welcome effect settings.

Some menu items shown below may not be equipped on your vehicle.

- **Animation**: Allows user to turn the animation effect on or off.

Operation Guidance

Displays the available operation guidance settings.

Some menu items shown below may not be equipped on your vehicle.

- **Lights**: Allows user to turn the light mode guidance on or off.
- **Wiper**: Displays the available wiper settings.
  - **Front**: Allows user to turn the front wiper guidance on or off.
  - **Rear**: Allows user to turn the rear wiper guidance on or off.
- **High Beam Assist**: Allows user to turn the High Beam Assist on or off.

Unit/Language

Basic Information

The unit/language menu allows the user to change the units shown in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

Mileage/Fuel

Some menu items shown below may not be equipped on your vehicle.

- **Mileage/Fuel**: Displays the available mileage/fuel display units and allows user to select preferred unit for display.

Tire Pressure

Some menu items shown below may not be equipped on your vehicle.

- **Tire Pressure**: Allows user to select the tire pressure display units.

Temperature

Some menu items shown below may not be equipped on your vehicle.

- **Temperature**: Allows user to select the temperature display units.

Language

Some menu items shown below may not be equipped on your vehicle.

- **Language**: Displays the available language options and allows user to select preferred language for display.

Factory Reset

Basic Information

The factory reset menu allows the user to restore the vehicle information display settings to factory status.

Some menu items shown below may not be equipped on your vehicle.

Factory Reset

Some menu items shown below may not be equipped on your vehicle.

- **Factory Reset**: Allows user to reset the vehicle information display settings to the original factory settings. Once selected, the user can confirm or cancel the reset.

VEHICLE INFORMATION DISPLAY WARNINGS AND INDICATORS

Basic Information

The following messages may appear in your vehicle information display.

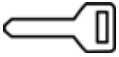
Engine start operation for Intelligent Key system (if I-Key battery level is low)



This indicator appears when the battery of the Intelligent Key is low and when the Intelligent Key system and the vehicle are not communicating normally.

If this appears, touch the ignition switch with the Intelligent Key while depressing the brake pedal. For additional information, see "NISSAN Intelligent Key® battery discharge" (P. 238).

Key System Error: See Owner's Manual



After the ignition switch is placed in the ON position, this warning appears for a period of time and then turns off.

The I-Key System Error message warns of a malfunction with the Intelligent Key system. If the warning appears while the engine is stopped, it may be impossible to start the engine.

If the warning appears while the engine is running, you can drive the vehicle. However, in these cases, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

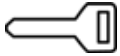
Key Battery Low



This indicator appears when the Intelligent Key battery is running out of power.

If this indicator appears, replace the battery with a new one. For additional information, see "Intelligent Key battery replacement" (P. 449).

No Key Detected



This warning appears when the Intelligent Key is left outside the vehicle with the ignition switch in the ON position. Make sure the Intelligent Key is inside the vehicle.

For additional information, see "NISSAN Intelligent Key® System" (P. 162).

Alarm - Time for a break?



This indicator appears when the driver enables the Timer Alert function within the Driving Assistance settings and the selected set time is expired. The time is based on ignition on time and can be set up to six hours.

Chassis Control System Error See Owner's Manual

This warning appears if the chassis control module detects a malfunction in the chassis control system. Have the system checked. It is recommended that you visit a NISSAN dealer for this service. For additional information, see "Chassis Control" (P. 387).

Caution Steep slope



This indicator appears and chime sounds when the automatic brake hold function is activated while the vehicle is on a steep hill. Apply the foot brake to stop the vehicle moving. For additional information, see "Automatic brake hold" (P. 247).

Check Rear Seat indicator

When the system is enabled, this message appears when the vehicle comes to a complete stop, the shift position is changed from the D (Drive) position to P (Park) position, and the engine is stopped. This message alerts the driver, after a period of time, to check for occupants or items in the rear seat after the audible alert (if so equipped) has been provided.

For additional information, see "Rear Door Alert" (P. 141).

Check Rear Seat (Dismiss Message/Disable Alert)

When the system is enabled, this message appears when the Rear Door Alert system is active and can remind the driver to check the rear seat.

- Using the steering wheel switch, a driver can select "Dismiss Message" to clear the display for a period of time.
- Using the steering wheel switch, a driver can select "Disable Alert" to disable the horn alert for the remainder of the current trip.

⚠WARNING

Selecting "Dismiss Message" during a stop within a trip temporarily dismisses the message for that stop without turning the system off. Alerts can be provided for other stops during the trip. Selecting "Disable Alert" turns off the Rear Door Alert system for the remainder of a trip and no audible alert will be provided.

For additional information, see "Rear Door Alert" (P. 141).

Door/liftgate Open



This warning appears when a door or the liftgate has been opened.

Headlight System Error: See Owner's Manual

This warning appears when there is an error with the system. For additional information, see "Headlight and turn signal switch" (P. 129).

High Coolant Temp: See Owner's Manual



This warning appears when the temperature of the engine coolant is too high. Stop the vehicle in a safe location as soon as possible. Avoid quick starting or abrupt acceleration. When the warning turns off, the vehicle can be driven.

If the warning appears again soon after it turns off, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

Illumination indicator



This indicator shows the illumination adjustment of the instrument panel. For additional information, see "Instrument brightness control" (P. 133).

Low Fuel



This warning appears when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches 0 (Empty). **There will be a small reserve of fuel in the tank when the fuel gauge needle reaches 0 (Empty).**

Low Outside Temperature



This warning appears if the outside temperature is below 37°F (3°C). The temperature can be changed to display in Celsius or Fahrenheit. For additional information, see "Settings" (P. 107).

Oil and Filter



This indicator appears when the customer set distance comes for changing the engine oil and filter. You can set or reset the distance for checking or replacing these items. For scheduled maintenance items and intervals, see "Maintenance and schedules" (P. 468).

Other



This indicator appears when the customer set distance is reached for checking or replacing maintenance items other than the engine oil, oil filter and tires. Other maintenance items can include such things as air filter or tire rotation. The distance for checking or replacing the items can be set or reset.

Outside Temperature Display

72°F

The outside temperature display appears in the center region of the vehicle information display.

Parking Sensor Error: See Owner's Manual

This warning appears when there is an error with the system. For additional information, see "Front and Rear Sonar System" (P. 390).

Parking Sensor Temporarily disabled

This warning appears when the parking sensor is unavailable due to dirt or other factors blocking the sensor. For additional information, see "Front and Rear Sonar System" (P. 390).

Parking Sensor



This indicator appears when the sensor is activated. For additional information, see "Front and Rear Sonar System" (P. 390).

Power will turn off to save the battery

This message appears in the vehicle information display after a period of time if the ignition switch is in the ON position and if the vehicle is in P (Park). For additional information, see "Push-button ignition switch positions" (P. 237).

Power turned off to save the battery

This message appears after the ignition switch is automatically turned off. For additional information, see "Push-button ignition switch positions" (P. 237).

Press brake pedal to prevent rolling



This warning appears in the following situations:

- The driver tries to release the electronic parking brake manually without depressing the brake pedal.
- The vehicle is stopped on a steep hill and there is a possibility of moving backward, even if the electronic parking brake is applied.
- This warning appears and chime sounds if the vehicle moves while the automatic brake hold is activated. Apply the foot brake to stop the vehicle moving.

Press brake to operate switch



This indicator appears if the automatic brake hold switch is pushed without depressing the brake pedal while the automatic brake hold function is activated. Depress the brake pedal and push the switch to deactivate the automatic brake hold function.

For additional information, see "Automatic brake hold" (P. 247).

Push brake and start switch to drive



This indicator appears when the shift lever is in the P (Park) position.

This indicator also appears when the vehicle has been started using the Remote Engine Start (if so equipped) function.

This indicator means that the engine will start by pushing the ignition switch with the brake pedal depressed. You can start the engine from any position of the ignition switch.

Front and Rear seat belt warning (if so equipped)



Display

The seat warning indicator will vary depending on the seat layout of your vehicle.

- ☒ : **Red seat**: The corresponding seat belt is not fastened.
- ☑ : **Green seat**: The corresponding seat belt is fastened.
- Seat belts that are unfastened will appear red.
- If any rear seat belts are unfastened when the ignition switch is placed in the ON position, this warning will display for approximately 1 minute.
- If the driver's seat belt or occupied front passenger's seat belt is not fastened when the ignition switch is pushed to the ON position, the chime will sound.
- If the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- When a rear seat belt is changed from fastened to unfastened, this warning will display for over 1 minute and the seat belt warning light will turn ON.
- If the vehicle is shifted out of P (Park) or N (Neutral) during or after the rear passenger seat belt buckle status change, this warning will display, the seat belt warning light will blink, and the chime will sound for over one minute. During this time, the warning and chime cannot be dismissed unless the rear seat belt is fastened again. Once the seat belt warning light and chime have turned off, the display will remain until dismissed.

NOTE:

- **Opening and closing a rear door while stopped will reset this warning for rear seat belt conditions, similar to pushing the ignition switch to ON again.**

Rear seat belt warning (if so equipped)



Display

This warning includes display of the seat belts for rear seating positions.

- ☒ : **Red seat**: The corresponding seat belt is not fastened.
- ☑ : **Green seat**: The corresponding seat belt is fastened.
- Seat belts that are unfastened will appear red.
- If any rear seat belts are unfastened when the ignition switch is placed in the ON position, this warning will display for approximately 1 minute.
- If the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- When a rear seat belt is changed from fastened to unfastened, this warning will display for over 1 minute and the seat belt warning light will turn ON.

Release Parking Brake

This warning appears in the message area of the vehicle information display when the parking brake is set and the vehicle is driven.

Reminder: Turn OFF Headlights



This warning appears when the headlights are left in the ON position when exiting the vehicle. Place the headlight switch in the OFF (if so equipped) or AUTO position. For additional information, see "Headlight and turn signal switch" (P. 129).

Shift to Park



This warning appears when the ignition switch is in the OFF position and the shift lever is not in the P (Park) position. Also, a chime sounds when the ignition switch is in the OFF position.

If this warning appears, move the shift lever to the P (Park) position and start the engine.

Shipping Mode On Push Storage Fuse

This warning may appear if the extended storage switch is not pushed in. When this warning appears, push in the extended storage switch to turn off the warning. For additional information, see "Extended storage switch" (P. 143).

Steep slope Apply foot brake



This indicator appears if the "Caution Steep slope" warning has appeared over about 3 minutes. Then the parking brake will automatically be applied and the brake force of the automatic brake hold will be released, and the vehicle may move or roll away unexpectedly. Apply the foot brake to stop the vehicle from moving.

For additional information, see "Automatic brake hold" (P. 247).

Steering lock release malfunction indicator



This indicator appears when the steering lock cannot be released.

If this indicator appears, push the ignition switch while lightly turning the steering wheel right and left.

Tire



This indicator appears when the customer set distance is reached for replacing tires. You can set or reset the distance for replacing tires.

⚠ WARNING

The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. For additional information, see "Changing wheels and tires" (P. 461). Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.

Tire Pressure Low - Add Air

This warning appears when the low tire pressure warning light in the meter illuminates and low tire pressure is detected. The warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated. If this warning appears, stop the vehicle and adjust the tire pressures of all four tires to the recommended COLD tire pressure shown on the Tire and Loading Information label. For additional information, see "Low tire pressure warning light" (P. 79) and "Tire Pressure Monitoring System (TPMS)" (P. 230).

TPMS Error: See Owner's Manual

This warning appears when there is an error with your TPMS. If this warning comes on, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Transmission Shift Position indicator



This indicator shows the transmission shift position.

CVT Error: See Owner's Manual



This warning appears when there is a problem with the CVT system. If this warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

AWD Error: See Owner's Manual

This warning appears when the All-Wheel Drive (AWD) system is not functioning properly while the engine is running. Reduce vehicle speed and have your vehicle checked by a NISSAN dealer as soon as possible. For additional information, see "Intelligent All-Wheel Drive (AWD)" (P. 379).

Automatic Emergency Braking (AEB) emergency warning indicator



This indicator appears along, with an audible warning, when the system detects the possibility of a forward collision.

For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346) and "Intelligent Forward Collision Warning (I-FCW)" (P. 362).

Blind Spot Warning (BSW) indicator



This indicator appears when the BSW and/or I-BSI systems are engaged.

This indicator also appears when the I-BSI system is unavailable.

For additional information, see "Blind Spot Warning (BSW)" (P. 266).

Cruise control indicator



This indicator shows the cruise control system status.

For additional information, see "Intelligent Cruise Control (ICC)" (P. 296).

Currently not available

This message may appear when the Intelligent Cruise Control (ICC) system is engaged.

Under the following conditions, the Intelligent Cruise Control (ICC) system is automatically canceled:

- When the VDC system is turned off
- The SNOW mode or the SAND or MUD/RUT mode is selected (AWD models).

The above system cannot be used in some situations (VDC operates, wheel slip and VDC system is off.)

Drive Sport mode indicator



A small "S" appears to the right of the Transmission Shift Position indicator in the vehicle information display when the Drive Sport mode is engaged.

Activate the Drive Sport mode by pushing the drive mode selector switch while the shift lever is in the D (Drive) position.

For additional information, see "Drive Mode Selector" (P. 249).

Driver Attention Alert Malfunction



This warning appears when the Intelligent Driver Alertness (I-DA) system is not functioning properly. For additional information, see Intelligent Driver Alertness (I-DA) (P. 374).

Driver Alertness Take a Break?



This alert appears when the system has detected that the driver may be displaying fatigue or a lack of attention.

Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual

This message appears when the front radar sensor may be obstructed due to:

- mud, dirt, snow, ice, etc.
- inclement weather (rain, fog, snow, etc.)

All forward driving aids are temporarily disabled until the system detects that the front radar sensor is no longer obstructed.

For additional information, see the following (if so equipped):

- Intelligent Cruise Control (ICC) (P. 296)

Temporarily disabled Clean sensor area See Owner's Manual

This message appears when the front radar sensor and/or front camera may be obstructed due to:

- mud, dirt, snow, ice, etc.
- inclement weather (rain, fog, snow, etc.)

All forward driving aids are temporarily disabled until the system detects that the front radar sensor and/or front camera is no longer obstructed.

For additional information, see the following (if so equipped):

- Automatic Emergency Braking (AEB) with Pedestrian Detection (P. 346)
- Intelligent Forward Collision Warning (I-FCW) (P. 362)

Driving Aids Temporarily limited



This message appears when the vehicle is being towed or when the Automatic Emergency Braking (AEB) with Pedestrian Detection system check is not completed properly.

For additional information, see:

- Automatic Emergency Braking (AEB) with Pedestrian Detection (P. 346)
- Intelligent Cruise Control (ICC) (P. 296)

Idling Stop System



This indicator shows the Idling Stop System status.

For addition information, see "Idling Stop System" (P. 396).

Intelligent Cruise Control (ICC) indicator



This indicator shows the Intelligent Cruise Control (ICC) system status. The status is shown by the color. For additional information, see "Intelligent Cruise Control (ICC)" (P. 296).

Lane Departure Warning (LDW) indicator



This indicator appears when the LDW system is engaged.

For additional information, see "Lane Departure Warning (LDW)" (P. 254).

Limited driver's aid VDC setting OFF

This message appears when the Automatic Emergency Braking (AEB) with Pedestrian Detection system becomes unavailable because the VDC is turned off. For additional information, refer to "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).

Malfunction See Owner's Manual

This warning appears when one or more of the following systems (if so equipped) is not functioning properly:

- Automatic Emergency Braking (AEB)
- Blind Spot Warning (BSW)
- Intelligent Cruise Control (ICC)
- Intelligent Forward Collision Warning (I-FCW)
- Lane Departure Warning (LDW)
- Rear Automatic Braking (RAB)
- Rear Cross Traffic Alert (RCTA)

If one or more of these warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Not Available Poor Road Conditions

This message may appear when the Intelligent Cruise Control (ICC) system is engaged.

Under the following conditions, the Intelligent Cruise Control (ICC) system is automatically canceled:

- When the VDC system operates
- When a wheel slips

The above system cannot be used in some situations (VDC operates, wheel slip and VDC system is off.)

Rear Automatic Braking (RAB) system warning indicator



This indicator appears to indicate the status of the Rear Automatic Braking (RAB) system. For additional information, see "Rear Automatic Braking (RAB)" (P. 339).

Side Radar Obstruction

This message appears when the Blind Spot Warning (BSW) or Rear Cross Traffic Alert (RCTA) systems become unavailable because a radar blockage is detected. For additional information, see "Blind Spot Warning (BSW)" (P. 266) or "Rear Cross Traffic Alert (RCTA)" (P. 286).

Temporarily limited Front Camera too Hot



This message appears when the camera detects an interior temperature of more than 104°F (40°C). For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).

Temporarily limited Poor Visibility



This message may appear when the Automatic Emergency Braking (AEB) with Pedestrian Detection system is engaged.

Under the following conditions, the Automatic Emergency Braking (AEB) with Pedestrian Detection system may be limited or cancelled:

- Strong light, such as sunlight or high beams from oncoming vehicles, enter the front camera

The system will be available when the above conditions no longer exist.

If the warning message continues to appear, stop the vehicle in a safe location, turn the engine off, and clean the windshield.

Temporarily limited Radar interference



This message appears when the front radar sensor may be experiencing radio wave interference.

All forward driving aids may be temporarily limited or disabled until the system detects that the front radar sensor is no longer experiencing interference.

For additional information, see:

- Automatic Emergency Braking (AEB) with Pedestrian Detection (P. 346)
- Intelligent Forward Collision Warning (I-FCW) (P. 362)

Unavailable Cabin Temperature High



This message appears when the camera detects an interior temperature of more than approximately 104°F (40°C). For additional information, see "Lane Departure Warning (LDW)" (P. 254).

Vehicle ahead detection indicator

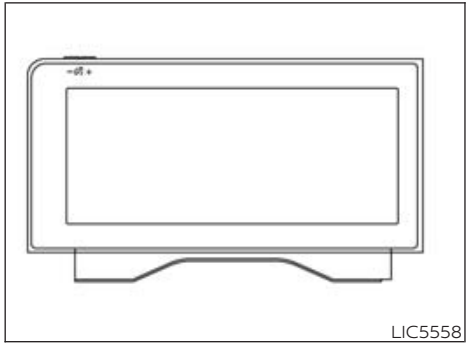


This indicator appears when the Automatic Emergency Braking (AEB) or Intelligent Cruise Control (ICC) systems are engaged and have detected a vehicle.

For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346) or "Intelligent Cruise Control (ICC)" (P. 296).

VEHICLE INFORMATION DISPLAY 12.3 INCH (31 cm) TYPE B (if so equipped)

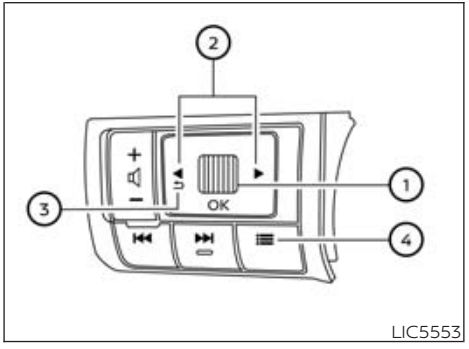
BASIC INFORMATION


LIC5558

The vehicle information display is located to the left of the speedometer. It displays such items as:

- Audio Information
- Drive Computer Information
- Fuel Economy Information
- Indicators and Warnings
- Vehicle and Meter Display Settings
- Odometer/twin trip odometer
- Gear Position Indicator (P, R, N, D, L)
- Distance To Empty and Fuel Indicator

HOW TO USE THE VEHICLE INFORMATION DISPLAY



LIC5553

The vehicle information display can be navigated using the ◀ ⮌ , ▶ buttons and scroll dial located on the steering wheel.

1. Scroll dial — Use the scroll dial to navigate through the items and change or select an item in the vehicle information display. The scroll dial allows up or down navigation and press to select.
2. ◀ , ▶ — navigate through the items in the vehicle information display.
3. ⮌ — go back to the previous menu
4. Short cut menu button— Press this button to open a shortcut menu.

STARTUP DISPLAY

When the vehicle in placed in the ON position the screens that display in the vehicle information display include:

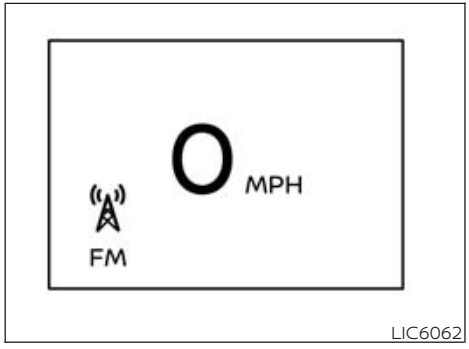
- Gauges
- Audio
- Fuel Economy
- Drive Computer
- Warning Review
- Settings

For additional information on warnings and indicators, see "Vehicle information display warnings and indicators" (P. 113).

To control what items display in the vehicle information display, see to "Customize Display" (P. 111).

TRIP COMPUTER

Home

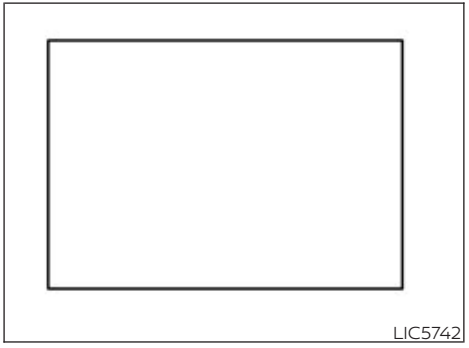


The Home mode shows the following information:

- Vehicle speed
- Audio

The Home display will switch to the Audio display by pressing the OK button.

Blank

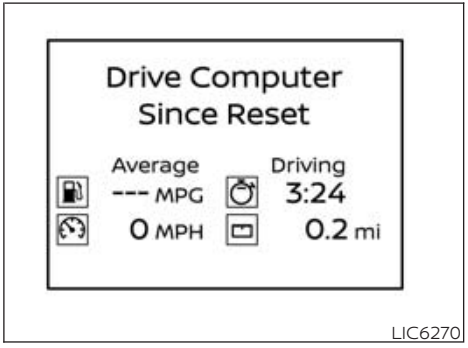


This display is a blank screen and shows no information.

NOTE:

- **If the meter screen view is changed to expand the vehicle information display, this display will show limited driving information and will not be blank.**

Drive Computer



Average fuel consumption:

The average fuel consumption shows the average fuel consumption since the last reset.

Average speed:

The average speed shows the average vehicle speed since the last reset.

Trip odometer:

The trip odometer shows the total distance the vehicle has been driven since the last reset.

Elapsed time:

The elapsed time shows the time since the last reset.

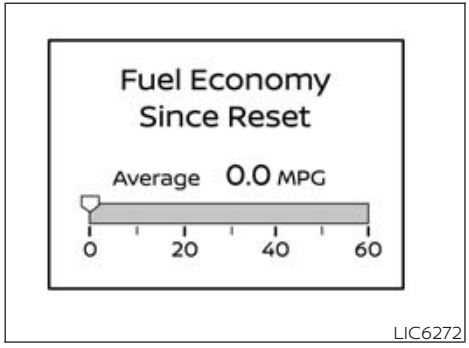
The Drive computer mode has three modes of operation. You can switch between Manual Reset1, Manual Reset2 or Auto Refuel by pushing the scroll dial.

Manual Reset1 can be reset manually by using the scroll dial.

Manual Reset2 can be reset manually by using the scroll dial or will be reset automatically each time the ignition switch is placed in the OFF position (if so equipped).

Auto Refuel will be reset automatically each time when refueling.

Fuel economy display



LIC6272

Current fuel consumption:

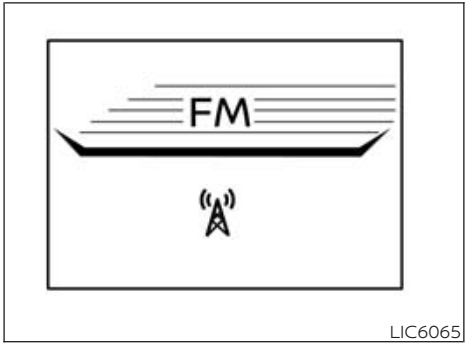
The current fuel consumption mode shows the current fuel consumption.

Average fuel consumption:

The average fuel consumption mode shows the average fuel consumption since the last reset.

The display is updated every 30 seconds. For about the first 1/3 of a mile (500 m) after a reset, the display shows "– –."

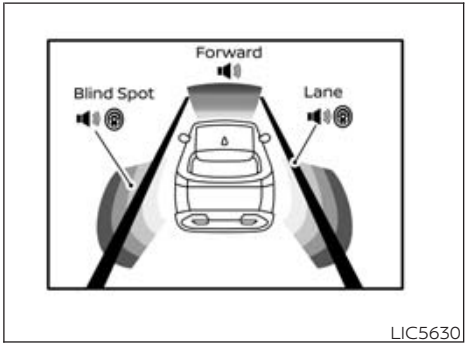
Audio



LIC6065

The audio mode shows the status of audio information.

Driving Aids



LIC5630

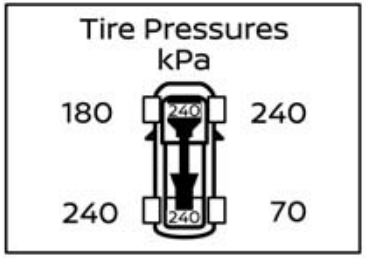
The driving aids mode shows the operating condition for the following systems (if so equipped):

- Emergency Brake:
  - Automatic Emergency Braking (AEB) with Pedestrian Detection system
  - Intelligent Forward Collision Warning (I-FCW)
- Lane:
  - Lane Departure Warning (LDW)
  - Intelligent Lane Intervention (I-LI)
- Blind Spot:
  - Blind Spot Warning (BSW)
  - Intelligent Blind Spot Intervention (I-BSI)

For additional information, see "Blind Spot Warning (BSW)" (P. 266), "Intelligent Blind Spot Intervention (I-BSI)" (P. 277), "Intelligent Lane Intervention (I-LI)" (P. 261), "Lane Departure Warning (LDW)" (P. 254), "Automatic Emergency

Braking (AEB) with Pedestrian Detection" (P. 346), or "Intelligent Forward Collision Warning (I-FCW)" (P. 362).

Tire Pressures



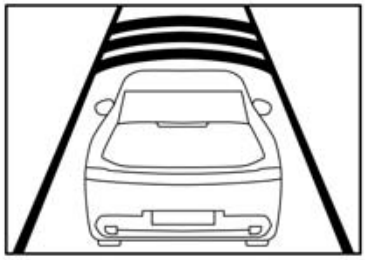
LIC6067

The tire pressure mode shows the pressure of all four tires while the vehicle is driven.

When the "Tire Pressure Low — Add Air" warning appears, the display can be switched to the tire pressure mode by pressing the ◀▶ buttons to reveal additional details on the displayed warning.

For additional information, see "Low tire pressure warning light" (P. 79), "Tire Pressure Monitoring System (TPMS)" (P. 230), "Flat tire" (P. 407) and "Types of tires" (P. 460)

ProPILOT Assist

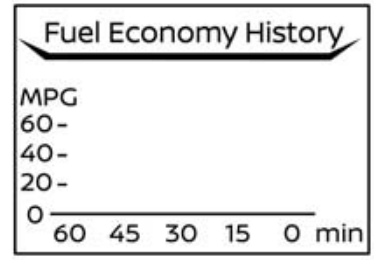

LIC5942

The ProPILOT Assist mode shows operating conditions for the following systems:

- Intelligent Cruise Control (ICC)
- Steering Assist

The display will also be shown when the ProPILOT Assist is turned on. For additional information, see "ProPILOT Assist" (P. 313).

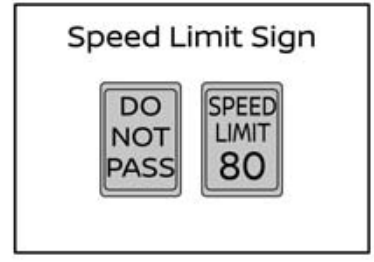
Fuel economy history



LIC6080

The display shows the previous fuel economy history.

Traffic Sign Recognition

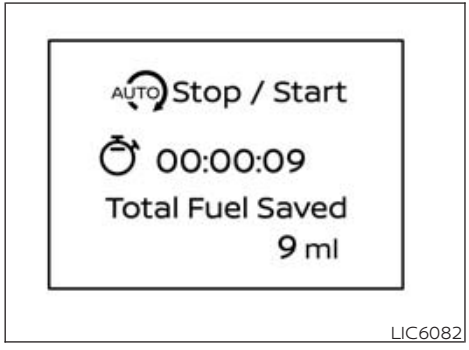


LIC6213

The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit.

For additional information, see "Traffic Sign Recognition (TSR) (P. 253).

Idling Stop System

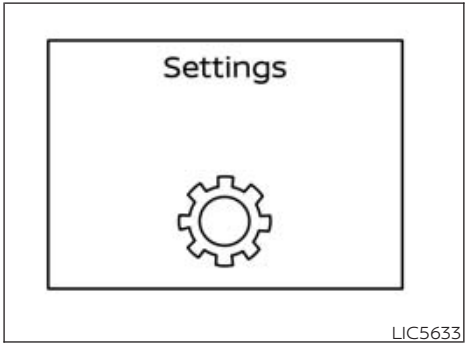


LIC6082

The Idling Stop System provides the driver with information about the amount of fuel saved while using the system.

For additional information, see "Idling Stop System" (P. 396).

Settings



LIC5633

The settings mode allows the driver to view or modify settings.

SETTINGS

Basic Information

The setting mode allows you to change the information displayed in the vehicle information display as well as the model for several vehicle functions:

- VDC Setting
- Driver Assistance
- Customize Display
- Vehicle Settings
- TPMS Settings
- Maintenance
- Clock
- Unit/Language
- Factory Reset

VDC Setting

Basic Information

Displays available VDC settings.

Some menu items shown below may not be equipped on your vehicle.

VDC Setting

Displays available VDC settings.

Some menu items shown below may not be equipped on your vehicle.

- **System**: Select to turn the VDC system on or off. For additional information, see "Vehicle Dynamic Control (VDC) system" (P. 385).

Driver Assistance

Basic Information

The driver assistance menu allows the user to change the various driving aids and assistance options.

Some menu items shown below may not be equipped on your vehicle.

Lane Centering Assist

Displays the available lane centering assist options.

Some menu items shown below may not be equipped on your vehicle.

- **Steering Assist**: Allows user to turn the Steering Assist of the ProPILOT Assist system on or off. For additional information, see "ProPILOT Assist" (P. 313).

Lane Assist

Displays the available lane assist options.

Some menu items shown below may not be equipped on your vehicle.

- **Warning**: Allows user to turn the Lane Departure Warning (LDW) system on or off. For additional information, see "Lane Departure Warning (LDW)" (P. 254).
- **Intervention**: Allows user to turn the Intelligent Lane Intervention (I-LI) system on or off. For additional information, see "Intelligent Lane Intervention (I-LI)" (P. 261).
- **Lane Sensitivity**: Allows user to set the lane sensitivity to Strong/Normal/Mild.
- **Steering Vibration**: Allows user to set the strength of the steering wheel vibration to High/Middle/Low.

Blind Spot Assist

Displays the available blind spot assist options.

Some menu items shown below may not be equipped on your vehicle.

- **Warning**: Allows user to turn the Blind Spot Warning (BSW) system on or off. For additional information, see "Blind Spot Warning (BSW)" (P. 266).
- **Intervention**: Allows user to turn the Intelligent Blind Spot Intervention (I-BSI) system on or off. For additional information, see "Intelligent Blind Spot Intervention (I-BSI)" (P. 277).

Emergency Assist

Displays the available emergency assist options.

Some menu items shown below may not be equipped on your vehicle.

- **Emergency Braking**: Allows user to turn the emergency brake on or off. For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).
- **Rear Auto Braking**: Allows user to turn the emergency brake on or off. For additional information, see "Rear Automatic Braking (RAB)" (P. 339).

Speed Limit Sign

Some menu items shown below may not be equipped on your vehicle.

- **Speed Limit Sign**: Allows user to turn the speed limit sign feature on or off.

Parking Assist

Displays the available parking aids options.

Some menu items shown below may not be equipped on your vehicle.

- **Rear Cross Traffic Alert**: Allows user to turn Rear Cross Traffic Alert on or off. For additional information, see "Rear Cross Traffic Alert (RCTA)" (P. 286).
- **Moving Object**: Allows user to turn the Moving Object Detection (MOD) on or off. For additional information, see "Moving Object Detection (MOD)" (P. 203).
- **Front Sonar**: Allows user to turn the front sonar on or off.
- **Rear Sonar**: Allows user to turn the rear sonar on or off.
- **Sonar Distance**: Allows user to adjust the volume to Long/Medium/Short.
- **Auto Show Sonar**: Allows user to turn the auto show sonar on or off.
- **Sonar Volume**: Allows user to adjust the range to High/Medium/Low.

Driver Monitor

Displays the available driver monitor options.

Some menu items shown below may not be equipped on your vehicle.

- **Driver Alertness**: Allows user to turn the Intelligent Driver Alertness (I-DA) system on or off. For additional information, see Intelligent Driver Alertness (I-DA) (P. 374).

Timer Alert

Some menu items shown below may not be equipped on your vehicle.

- **Timer Alert**: Allows user to set or reset an alert at a specific time interval.

Low Temperature Alert

Some menu items shown below may not be equipped on your vehicle.

- **Low Temperature Alert**: Allows user to turn the low temperature alert on or off.

Chassis Control

Some menu items shown below may not be equipped on your vehicle.

- **Trace Control**: Allows the user to turn the Intelligent Trace Control (I-TC) function on or off.

ECO Mode Setting

Basic Information

The ECO setting menu allows the user to change the settings for the ECO.

Some menu items shown below may not be equipped on your vehicle.

ECO Customize

Displays available ECO settings.

Some menu items shown below may not be equipped on your vehicle.

- **Cruise Control**: Allows user to turn the cruise control ECO option on or off. For additional information, see "ECO Customize" (P. 251).
- **Idling stop**: Allows user to turn the Idling Stop System (ISS) ECO option on or off. For additional information, see "Idling Stop System" (P. 396).
- **Air Conditioning**: Allows user to turn the Air Conditioning ECO option on or off. For additional information, see "ECO" (P. 251).

ECO Drive Assist

Displays available ECO information settings.

Some menu items shown below may not be equipped on your vehicle.

- **ECO Indicator**: Allows user to turn the ECO indicator on or off.
- **ECO Drive Report**: Allows user to turn the ECO Drive Report on or off.

View History

Some menu items shown below may not be equipped on your vehicle.

- **View History**: Displays the history report for the vehicle.

Tire Pres ECO advice

Some menu items shown below may not be equipped on your vehicle.

- **Tire Pres ECO advice**: Allows user to turn the tire pressure ECO advice on or off.

TPMS Setting

Basic Information

The TPMS settings menu allows the user to change the tire pressure units displayed in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

Tire Pressure Unit

Displays available TPMS Settings.

Some menu items shown below may not be equipped on your vehicle.

- **Tire Pressure Unit**: Allows user to select the tire pressure units that will display in the vehicle information display.

Clock

Basic Information

Some menu items shown below may not be equipped on your vehicle.

Clock

Some menu items shown below may not be equipped on your vehicle.

- Clock: Allows user to enable or disable the clock in the vehicle information display.

Vehicle Settings

Basic Information

The vehicle settings allow the user to change the settings for lights, wipers, locking, keys, and other vehicle settings.

Some menu items shown below may not be equipped on your vehicle.

Lighting

Displays the available lighting settings

Some menu items shown below may not be equipped on your vehicle.

- **Welcome Headlight**: Allows user to tun the welcome headlight on or off.
- **Accent Lighting (if so equipped)**: Allows user to adjust the accent lighting.
- **Auto Headlight**: Allows user to change when the auto headlight turns on.
- **Light Off Delay**: Allows user to change the duration of time, from 0 to 180 seconds, that the automatic headlights stay on after the vehicle is shut off.

Locking

Displays the available locking settings.

Some menu items shown below may not be equipped on your vehicle.

- **Ext. Door Switch**: Allows user to turn the exit door switch on or off.
- **Selective Unlock**: Allows user to turn selective unlock on or off. When turned on, only the driver's door is unlocked after the door unlock operation. When the door handle request switch on the driver's or liftgate is pushed to be unlocked, only the corresponding door is unlocked first. All the doors can be unlocked if the door unlock operation is performed again within 30 seconds. When this item is turned off, all the doors will be unlocked after the door unlock operation is performed once.
- **Auto Door Unlock**: Displays the available auto door unlock options.
  - **Shift to P**: Doors will unlock when the vehicle is shifted into P (Park).
  - **Ignition OFF**: Doors will unlock when the ignition is turned off.
  - **OFF**: Doors will have to be manually unlocked.
- **Horn beeps on lock**: Allows user to turn the answer back horn feature on or off. When turned on, the horn will chirp and the hazard indicators will flash twice when locking the vehicle with the Intelligent Key.
- **Walk Away Lock**: Allows the user to turn the walk away lock function ON or OFF. For additional information, see "Walk away lock function" (P. 170).
- **Approach Unlock**: Allows the user to turn the approach unlock function ON or OFF. For additional information, see "Approach unlock function" (P. 170).

Wipers

Displays the available wipers settings.

Some menu items shown below may not be equipped on your vehicle.

- **Speed Dependent**: Allows user to turn the speed dependent feature on or off.
- **Rain Sensor**: Allows user to turn the rain sensor on or off.
- **Reverse Link**: Allows user to turn the reverse link feature on or off.
- **Drip Wipe**: Allows user to turn the drip wipe feature on or off.

Rear Door Alert

Displays the available Rear Door Alert options. For additional information, see "Rear Door Alert" (P. 141).

Some menu items shown below may not be equipped on your vehicle.

- **Horn & Alert**: When selected, the alert is displayed and the horn sounds.
- **Alert Only**: When selected, only the alert is displayed.
- **OFF**: When selected, no alert or horn will be active.

Maintenance

Basic Information

The maintenance menu allows the user to set reminders for various vehicle maintenance items.

Some menu items shown below may not be equipped on your vehicle.

⚠ WARNING

The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. For additional information, see "Changing wheels and tires" (P. 461). Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.

Oil Control System

Some menu items shown below may not be equipped on your vehicle.

- **Oil Control System**: Displays the remaining distance before the next engine oil service is due.

Tire

Some menu items shown below may not be equipped on your vehicle.

- **Tire**: Allows user to set a reminder at a specific interval or reset the current one.

Other

Some menu items shown below may not be equipped on your vehicle.

- **Other**: Allows user to set a reminder at a specific interval or reset the current one.

Customize Display

Basic Information

The customize display menu allows the user to customize the information that appears in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

Main Menu Selection

Displays available screens that can be shown in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

- **Blank**: Allows user to turn the blank screen on or off in the vehicle information display.
- **Drive Computer**: Allows user to turn the drive computer screen on or off in the vehicle information display.
- **Fuel Economy**: Allows user to turn the fuel economy screen on or off in the vehicle information display.
- **ECO Pedal Guide**: Allows user to turn the eco pedal guide screen on or off in the vehicle information display.
- **TPMS**: Allows user to turn the tire pressures screen on or off in the vehicle information display.
- **4X4–I**: Allows user to turn the 4X4–I screen on or off in the vehicle information display.
- **Idle Stop System**: Allows user to turn the idle stop system screen on or off in the vehicle information display.

- **Audio**: Allows user to turn the audio screen on or off in the vehicle information display.
- **Driving Aids**: Allows user to turn the driving aids screen on or off in the vehicle information display.
- **Cruise**: Allows user to turn the cruise screen on or off in the vehicle information display.
- **Speed Limit Sign**: Allows user to turn the speed limit sign screen on or off in the vehicle information display.

Transition (Cruise)

Some menu items shown below may not be equipped on your vehicle.

- **Transition (Cruise)**: Allows user to turn the transition (cruise) feature on or off.

Welcome Effect

Displays the available welcome effect settings.

Some menu items shown below may not be equipped on your vehicle.

- **Animation**: Allows user to turn the animation effect on or off.

Operation Guidance

Displays the available operation guidance settings.

Some menu items shown below may not be equipped on your vehicle.

- **Lights**: Allows user to turn the light mode guidance on or off.
- **Wiper**: Displays the available wiper settings.
  - **Front**: Allows user to turn the front wiper guidance on or off.
  - **Rear**: Allows user to turn the rear wiper guidance on or off.
- **High Beam Assist**: Allows user to turn the High Beam Assist on or off.

Unit/Language

Basic Information

The unit/language menu allows the user to change the units shown in the vehicle information display.

Some menu items shown below may not be equipped on your vehicle.

Mileage/Fuel

Some menu items shown below may not be equipped on your vehicle.

- **Mileage/Fuel**: Displays the available mileage/fuel display units and allows user to select preferred unit for display.

Tire Pressure

Some menu items shown below may not be equipped on your vehicle.

- **Tire Pressure**: Allows user to select the tire pressure display units.

Temperature

Some menu items shown below may not be equipped on your vehicle.

- **Temperature**: Allows user to select the temperature display units.

Language

Some menu items shown below may not be equipped on your vehicle.

- **Language**: Displays the available language options and allows user to select preferred language for display.

Factory Reset

Basic Information

The factory reset menu allows the user to restore the vehicle information display settings to factory status.

Some menu items shown below may not be equipped on your vehicle.

Factory Reset

Some menu items shown below may not be equipped on your vehicle.

- **Factory Reset**: Allows user to reset the vehicle information display settings to the original factory settings. Once selected, the user can confirm or cancel the reset.

VEHICLE INFORMATION DISPLAY WARNINGS AND INDICATORS

Basic Information

The following messages may appear in your vehicle information display.

Engine start operation for Intelligent Key system (if I-Key battery level is low)



This indicator appears when the battery of the Intelligent Key is low and when the Intelligent Key system and the vehicle are not communicating normally.

If this appears, touch the ignition switch with the Intelligent Key while depressing the brake pedal. For additional information, see "NISSAN Intelligent Key® battery discharge" (P. 238).

Key System Error: See Owner's Manual



After the ignition switch is placed in the ON position, this warning appears for a period of time and then turns off.

The I-Key System Error message warns of a malfunction with the Intelligent Key system. If the warning appears while the engine is stopped, it may be impossible to start the engine.

If the warning appears while the engine is running, you can drive the vehicle. However, in these cases, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

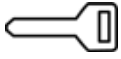
Key Battery Low



This indicator appears when the Intelligent Key battery is running out of power.

If this indicator appears, replace the battery with a new one. For additional information, see "Intelligent Key battery replacement" (P. 449).

No Key Detected



This warning appears when the Intelligent Key is left outside the vehicle with the ignition switch in the ON position. Make sure the Intelligent Key is inside the vehicle.

For additional information, see "NISSAN Intelligent Key® System" (P. 162).

Alarm - Time for a break?



This indicator appears when the driver enables the Timer Alert function within the Driving Assistance settings and the selected set time is expired. The time is based on ignition on time and can be set up to six hours.

Chassis Control System Error See Owner's Manual

This warning appears if the chassis control module detects a malfunction in the chassis control system. Have the system checked. It is recommended that you visit a NISSAN dealer for this service. For additional information, see "Chassis Control" (P. 387).

Caution Steep slope



This indicator appears and chime sounds when the automatic brake hold function is activated while the vehicle is on a steep hill. Apply the foot brake to stop the vehicle moving. For additional information, see "Automatic brake hold" (P. 247).

Check Rear Seat indicator

When the system is enabled, this message appears when the vehicle comes to a complete stop, the shift position is changed from the D (Drive) position to P (Park) position, and the engine is stopped. This message alerts the driver, after a period of time, to check for occupants or items in the rear seat after the audible alert (if so equipped) has been provided.

For additional information, see "Rear Door Alert" (P. 141).

Check Rear Seat (Dismiss Message/Disable Alert)

When the system is enabled, this message appears when the Rear Door Alert system is active and can remind the driver to check the rear seat.

- Using the steering wheel switch, a driver can select "Dismiss Message" to clear the display for a period of time.
- Using the steering wheel switch, a driver can select "Disable Alert" to disable the horn alert for the remainder of the current trip.

⚠ WARNING

Selecting "Dismiss Message" during a stop within a trip temporarily dismisses the message for that stop without turning the system off. Alerts can be provided for other stops during the trip. Selecting "Disable Alert" turns off the Rear Door Alert system for the remainder of a trip and no audible alert will be provided.

For additional information, see "Rear Door Alert" (P. 141).

Door/liftgate Open



This warning appears when a door or the liftgate has been opened.

Headlight System Error: See Owner's Manual

This warning appears when there is an error with the system. For additional information, see "Headlight and turn signal switch" (P. 129).

High Coolant Temp: See Owner's Manual



This warning appears when the temperature of the engine coolant is too high. Stop the vehicle in a safe location as soon as possible. Avoid quick starting or abrupt acceleration. When the warning turns off, the vehicle can be driven.

If the warning appears again soon after it turns off, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

Illumination indicator



This indicator shows the illumination adjustment of the instrument panel. For additional information, see "Instrument brightness control" (P. 133).

Low Fuel



This warning appears when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches 0 (Empty). **There will be a small reserve of fuel in the tank when the fuel gauge needle reaches 0 (Empty).**

Low Outside Temperature



This warning appears if the outside temperature is below 37°F (3°C). The temperature can be changed to display in Celsius or Fahrenheit. For additional information, see "Settings" (P. 107).

Oil and Filter



This indicator appears when the customer set distance comes for changing the engine oil and filter. You can set or reset the distance for checking or replacing these items. For scheduled maintenance items and intervals, see "Maintenance and schedules" (P. 468).

Other



This indicator appears when the customer set distance is reached for checking or replacing maintenance items other than the engine oil, oil filter and tires. Other maintenance items can include such things as air filter or tire rotation. The distance for checking or replacing the items can be set or reset.

Outside Temperature Display

72°F

The outside temperature display appears in the center region of the vehicle information display.

Parking Sensor Error: See Owner's Manual

This warning appears when there is an error with the system. For additional information, see "Front and Rear Sonar System" (P. 390).

Parking Sensor Temporarily disabled

This warning appears when the parking sensor is unavailable due to dirt or other factors blocking the sensor. For additional information, see "Front and Rear Sonar System" (P. 390).

Parking Sensor



This indicator appears when the sensor is activated. For additional information, see "Front and Rear Sonar System" (P. 390).

Power will turn off to save the battery

This message appears in the vehicle information display after a period of time if the ignition switch is in the ON position and if the vehicle is in P (Park). For additional information, see "Push-button ignition switch positions" (P. 237).

Power turned off to save the battery

This message appears after the ignition switch is automatically turned off. For additional information, see "Push-button ignition switch positions" (P. 237).

Press brake pedal to prevent rolling



This warning appears in the following situations:

- The driver tries to release the electronic parking brake manually without depressing the brake pedal.
- The vehicle is stopped on a steep hill and there is a possibility of moving backward, even if the electronic parking brake is applied.
- This warning appears and chime sounds if the vehicle moves while the automatic brake hold is activated. Apply the foot brake to stop the vehicle moving.

Press brake to operate switch



This indicator appears if the automatic brake hold switch is pushed without depressing the brake pedal while the automatic brake hold function is activated. Depress the brake pedal and push the switch to deactivate the automatic brake hold function.

For additional information, see "Automatic brake hold" (P. 247).

Push brake and start switch to drive



This indicator appears when the shift lever is in the P (Park) position.

This indicator also appears when the vehicle has been started using the Remote Engine Start (if so equipped) function.

This indicator means that the engine will start by pushing the ignition switch with the brake pedal depressed. You can start the engine from any position of the ignition switch.

Front and Rear seat belt warning (if so equipped)



Display

The seat warning indicator will vary depending on the seat layout of your vehicle.

- ☒ : **Red seat**: The corresponding seat belt is not fastened.
- ☑ : **Green seat**: The corresponding seat belt is fastened.
- Seat belts that are unfastened will appear red.
- If any rear seat belts are unfastened when the ignition switch is placed in the ON position, this warning will display for approximately 1 minute.
- If the driver's seat belt or occupied front passenger's seat belt is not fastened when the ignition switch is pushed to the ON position, the chime will sound.
- If the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- When a rear seat belt is changed from fastened to unfastened, this warning will display for over 1 minute and the seat belt warning light will turn ON.
- If the vehicle is shifted out of P (Park) or N (Neutral) during or after the rear passenger seat belt buckle status change, this warning will display, the seat belt warning light will blink, and the chime will sound for over one minute. During this time, the warning and chime cannot be dismissed unless the rear seat belt is fastened again. Once the seat belt warning light and chime have turned off, the display will remain until dismissed.

NOTE:

- **Opening and closing a rear door while stopped will reset this warning for rear seat belt conditions, similar to pushing the ignition switch to ON again.**

Rear seat belt warning (if so equipped)



Display

This warning includes display of the seat belts for rear seating positions.

- ☒ : **Red seat**: The corresponding seat belt is not fastened.
- ☑ : **Green seat**: The corresponding seat belt is fastened.
- Seat belts that are unfastened will appear red.
- If any rear seat belts are unfastened when the ignition switch is placed in the ON position, this warning will display for approximately 1 minute.
- If the vehicle is driven above a certain speed in the conditions that illuminate the seat belt warning light, the light will begin to blink and the chime will sound until the seat belt is fastened again.
- When a rear seat belt is changed from fastened to unfastened, this warning will display for over 1 minute and the seat belt warning light will turn ON.

Release Parking Brake

This warning appears in the message area of the vehicle information display when the parking brake is set and the vehicle is driven.

Reminder: Turn OFF Headlights



This warning appears when the headlights are left in the ON position when exiting the vehicle. Place the headlight switch in the OFF (if so equipped) or AUTO position. For additional information, see "Headlight and turn signal switch" (P. 129).

Shift to Park



This warning appears when the ignition switch is in the OFF position and the shift lever is not in the P (Park) position. Also, a chime sounds when the ignition switch is in the OFF position.

If this warning appears, move the shift lever to the P (Park) position and start the engine.

Shipping Mode On Push Storage Fuse

This warning may appear if the extended storage switch is not pushed in. When this warning appears, push in the extended storage switch to turn off the warning. For additional information, see "Extended storage switch" (P. 143).

Steep slope Apply foot brake



This indicator appears if the "Caution Steep slope" warning has appeared over about 3 minutes. Then the parking brake will automatically be applied and the brake force of the automatic brake hold will be released, and the vehicle may move or roll away unexpectedly. Apply the foot brake to stop the vehicle from moving.

For additional information, see "Automatic brake hold" (P. 247).

Steering lock release malfunction indicator



This indicator appears when the steering lock cannot be released.

If this indicator appears, push the ignition switch while lightly turning the steering wheel right and left.

Tire



This indicator appears when the customer set distance is reached for replacing tires. You can set or reset the distance for replacing tires.

⚠ WARNING

The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. For additional information, see "Changing wheels and tires" (P. 461). Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.

Tire Pressure Low - Add Air

This warning appears when the low tire pressure warning light in the meter illuminates and low tire pressure is detected. The warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated. If this warning appears, stop the vehicle and adjust the tire pressures of all four tires to the recommended COLD tire pressure shown on the Tire and Loading Information label. For additional information, see "Low tire pressure warning light" (P. 79) and "Tire Pressure Monitoring System (TPMS)" (P. 230).

TPMS Error: See Owner's Manual

This warning appears when there is an error with your TPMS. If this warning comes on, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Transmission Shift Position indicator



This indicator shows the transmission shift position.

CVT Error: See Owner's Manual

CVT

This warning appears when there is a problem with the CVT system. If this warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

AWD Error: See Owner's Manual

This warning appears when the All-Wheel Drive (AWD) system is not functioning properly while the engine is running. Reduce vehicle speed and have your vehicle checked by a NISSAN dealer as soon as possible. For additional information, see "Intelligent All-Wheel Drive (AWD)" (P. 379).

Automatic Emergency Braking (AEB) with Pedestrian Detection warning indicator



This indicator appears along, with an audible warning, when the system detects the possibility of a forward collision.

For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346) and "Intelligent Forward Collision Warning (I-FCW)" (P. 362).

Blind Spot Warning (BSW)/ Intelligent Blind Spot Intervention (I-BSI) indicator



This indicator appears when the BSW and/or I-BSI systems are engaged.

This indicator also appears when the I-BSI system is unavailable.

For additional information, see "Blind Spot Warning (BSW)" (P. 266) or "Intelligent Blind Spot Intervention (I-BSI)" (P. 277).

Cruise control indicator



This indicator shows the cruise control system status.

For additional information, see "Intelligent Cruise Control (ICC)" (P. 296).

Currently Unavailable



This message may appear when one or more of the following systems (if so equipped) is engaged.

- Intelligent Blind Spot Intervention (I-BSI)
- Intelligent Lane Intervention (I-LI)
- ProPILOT Assist

Under the following conditions, the systems are automatically canceled:

- When the VDC system is turned off
- The SNOW mode or the SAND or MUD/RUT mode is selected (AWD models).

The above systems cannot be used in some situations (VDC operates, wheel slip and VDC system is off.)

Drive Sport mode indicator



A small "S" appears to the right of the Transmission Shift Position indicator in the vehicle information display when the Drive Sport mode is engaged.

Activate the Drive Sport mode by pushing the drive mode selector switch while the shift lever is in the D (Drive) position.

For additional information, see "Drive Mode Selector" (P. 249).

Driver Alertness Take a Break?



This alert appears when the system has detected that the driver may be displaying fatigue or a lack of attention.

Driving Aids Temporarily disabled Clean sensor area See Owner's Manual

This message appears when the front radar sensor and/or front camera may be obstructed due to:

- mud, dirt, snow, ice, etc.
- inclement weather (rain, fog, snow, etc.)

All forward driving aids are temporarily disabled until the system detects that the front radar sensor and/or front camera is no longer obstructed.

For additional information, see the following (if so equipped):

- Automatic Emergency Braking (AEB) with Pedestrian Detection (P. 346)
- Intelligent Forward Collision Warning (I-FCW) (P. 362)

Driving Aids Temporarily limited



This message appears when the vehicle is being towed or when the Automatic Emergency Braking (AEB) with Pedestrian Detection system check is not completed properly.

For additional information, see:

- Automatic Emergency Braking (AEB) with Pedestrian Detection (P. 346)

Driving Aids temporarily limited Front Camera Too Hot



This message appears when the camera detects an interior temperature of more than 104°F (40°C). For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).

Driving Aids Temporarily limited Poor Visibility



This message may appear when the Automatic Emergency Braking (AEB) with Pedestrian Detection system is activated and strong light, such as sunlight or high beams from oncoming vehicles, enter the front camera.

For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).

Driving Aids Temporarily limited Radar interference



This message appears when the front radar sensor may be experiencing radio wave interference.

All forward driving aids may be temporarily limited or disabled until the system detects that the front radar sensor is no longer experiencing interference.

For additional information, see:

- Automatic Emergency Braking (AEB) with Pedestrian Detection (P. 346)
- Intelligent Forward Collision Warning (I-FCW) (P. 362)

Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual

This message appears when the front radar sensor may be obstructed due to:

- mud, dirt, snow, ice, etc.
- inclement weather (rain, fog, snow, etc.)

All forward driving aids are temporarily disabled until the system detects that the front radar sensor is no longer obstructed.

For additional information, see the following (if so equipped):

- ProPILOT Assist (P. 313)

Hands on detection warning



This warning appears when the Steering Assist system is engaged and the following condition(s) occur:

- When not holding the steering wheel
- When there is no steering wheel operation

Hold onto the steering wheel immediately. When the steering operation is detected, the warning turns off and the Steering Assist function is automatically restored.

For additional information, see "ProPILOT Assist" (P. 313).

Idling Stop System



This indicator shows the Idling Stop System status.

For addition information, see "Idling Stop System" (P. 396).

Intelligent Lane Intervention (I-LI)/Intelligent Blind Spot Intervention (I-BSI)/ProPILOT Assist status indicator



This indicator shows when the I-LI, I-BSI or ProPILOT Assist system is engaged.

For additional information, see "Intelligent Lane Intervention (I-LI)" (P. 261), "Intelligent Blind Spot Intervention (I-BSI)" (P. 277) or "ProPILOT Assist" (P. 313).

Lane Departure Warning (LDW)/Intelligent Lane Intervention (I-LI) indicator



This indicator appears when the LDW or I-LI system is engaged.

For additional information, see "Lane Departure Warning (LDW)" (P. 254), or "Intelligent Lane Intervention (I-LI)" (P. 261).

Limited driver's aid VDC setting OFF

This message appears when the Automatic Emergency Braking (AEB) with Pedestrian Detection system becomes unavailable because the VDC is turned off. For additional information, refer to "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346).

Malfunction

This warning appears when one or more of the following systems (if so equipped) is not functioning properly:

- Blind Spot Warning (BSW)
- Rear Cross Traffic Alert (RCTA)
- Traffic Sign Recognition (TSR)

If one or more of these warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Malfunction See Owner's Manual

This warning appears when one or more of the following systems (if so equipped) is not functioning properly.

- ProPILOT Assist
- Blind Spot Warning (BSW)
- Intelligent Blind Spot Intervention (I-BSI)
- Intelligent Forward Collision Warning (I-FCW)
- Lane Departure Warning (LDW)
- Intelligent Lane Intervention (I-LI)
- Automatic Emergency Braking (AEB) with Pedestrian Detection
- Rear Automatic Braking (RAB)
- Intelligent Driver Alertness (I-DA)

If one or more of these warnings appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, see ProPILOT Assist" (P. 313), Intelligent Blind Spot Intervention (I-BSI)" (P. 277), "Blind Spot Warning (BSW)" (P. 266), "Intelligent Forward Collision Warning (I-FCW)" (P. 362), "Lane Departure Warning (LDW)" (P. 254), "Intelligent Lane Intervention (I-LI)" (P. 261), "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346), "Rear Automatic Braking (RAB)" (P. 339), or "Intelligent Driver Alertness (I-DA)" (P. 374).

ProPILOT Assist indicators



These indicators show the ProPILOT Assist system status. The status is shown by color. For additional information, see "ProPILOT Assist" (P. 313).

Rear Automatic Braking (RAB) system warning indicator



This indicator appears to indicate the status of the Rear Automatic Braking (RAB) system. For additional information, see "Rear Automatic Braking (RAB)" (P. 339).

Speed Limit Sign indicator



This message may appear when the Traffic Sign Recognition system is engaged.

For additional information, see "Traffic Sign Recognition (TSR)" (P. 253).

Steering Assist Not Available Cannot Detect Lane

This indicator may appear when the Steering Assist system is engaged. The Steering Assist system is automatically canceled when the lane markers in the traveling lane cannot be correctly detected for a period of time due to such items as a snow rut, reflection of light on a rainy day or several unclear lane markers are present.

If you want to use the Steering Assist system again, cancel the ProPILOT Assist system and set it again when lane markers are clearly visible, or push the Steering Assist switch once.

Steering Assist ON



This indicator appears when the Steering Assist system is turned on.

For additional information, see "Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist" (P. 322) and "Steering Assist" (P. 331).

Steering Assist OFF



This indicator appears when the Steering Assist system is turned off.

For additional information, see "Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist" (P. 322) and "Steering Assist" (P. 331).

Only Available with Cruise Control ON



This message appears when the Steering Assist switch has been pushed while the cruise control is not switched on.

For additional information, see "Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist" (P. 322) and "Steering Assist" (P. 331).

Steering Assist status



This indicator appears green when the Steering Assist system is engaged.

For additional information, see "ProPILOT Assist" (P. 313).

Step on Brake Now



This warning may appear when the Intelligent Cruise Control (ICC) (with ProPILOT Assist) system is engaged and the following condition occurs:

- While the vehicle is stopped by the ProPILOT Assist, the driver's door is opened but the electronic parking brake was not activated.

Step on the brake pedal immediately.

Take Steering Control



This warning appears when the Steering Assist system is engaged and the following condition(s) occur:

- When not holding the steering wheel
- When there is no steering wheel operation

Hold onto the steering wheel immediately. When the steering operation is detected, the warning turns off and the Steering Assist function is automatically restored.

For additional information, see "ProPILOT Assist" (P. 313).

Unavailable Adverse Weather



This message may appear when the Steering Assist system is engaged.

Under the following conditions, the Steering Assist system is automatically canceled:

- When the wiper (HI) operates.
- When lane markers in the traveling lane cannot be correctly detected for a period of time due to such items as a snow rut, reflection of light on a rainy day or several unclear lane markers are present.

If you want to use the Steering Assist system again, cancel the ProPILOT Assist system and set it again when lane markers are clearly visible, or push the Steering Assist switch once.

Unavailable Camera Temperature High



This message appears when the camera detects an interior temperature of more than 104°F (40°C). For additional information, see "Lane Departure Warning (LDW)" (P. 254), or "Steering Assist" (P. 331).

Unavailable Low Visibility



This message may appear when the Steering Assist system is engaged.

Under the following condition, the Steering Assist system is automatically canceled:

- The camera area of the windshield is fogged up or covered with dirt, water drops, ice, snow, etc.

Unavailable Parking Brake is On



This message may appear when the ProPILOT Assist system is engaged.

Under the following condition, the ProPILOT Assist system is automatically canceled:

- The electronic parking brake is applied.

The above system cannot be used when the electronic parking is activated.

For additional information, see "ProPILOT Assist (P. 313) and "Parking brake" (P. 245).

Unavailable Seat Belt is Unfastened



This message may appear when the ProPILOT Assist system is engaged.

Under the following condition, the ProPILOT Assist system is automatically canceled:

- When the driver's seat belt is not fastened

The above system cannot be used when the driver's seat belt is not fastened.

Unavailable Side Radar Obstruction



This message appears when the Blind Spot Warning (BSW), Intelligent Blind Spot Intervention (I-BSI), or Rear Cross Traffic Alert (RCTA) systems become unavailable because a radar blockage is detected. For additional information, see "Blind Spot Warning (BSW)" (P. 266), "Intelligent Blind Spot Intervention (I-BSI)" (P. 277), or "Rear Cross Traffic Alert (RCTA)" (P. 286).

Unavailable Slippery Road



This message may appear when the ProPILOT Assist system, Intelligent Blind Spot Intervention (I-BSI) or the Intelligent Lane Intervention (I-LI) system is engaged.

Under the following conditions, the ProPILOT Assist system, Intelligent Blind Spot Intervention (I-BSI) or the Intelligent Lane Intervention (I-LI) system is automatically canceled:

- When the VDC system operates
- When a wheel slips

The above system cannot be used in some situations (VDC operates, wheel slip and VDC system is off.)

Vehicle ahead detection indicator

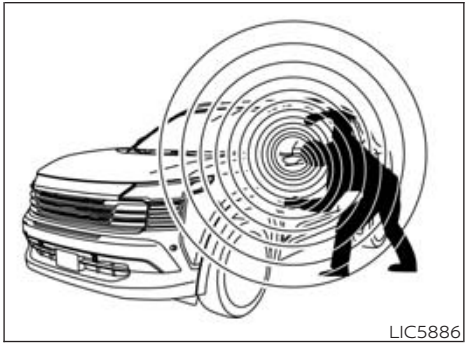


This indicator appears when the Automatic Emergency Braking (AEB) system, the ProPILOT Assist system, or the Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist) system are engaged and have detected a vehicle.

For additional information, see "Automatic Emergency Braking (AEB) with Pedestrian Detection" (P. 346), "ProPILOT Assist" (P. 313), or "Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist)" (P. 322).

SECURITY SYSTEMS

BASIC INFORMATION



LIC5886

Your vehicle may have three types of security systems:

- Vehicle security system
- NISSAN Anti-Theft System
- NISSAN Vehicle Immobilizer System

VEHICLE SECURITY SYSTEM

Basic Information

The vehicle security system provides visual and audible alarm signals if someone opens the doors, hood or liftgate when the system is armed. It is not, however, a motion detection type system that activates when a vehicle is moved or when a vibration occurs.

The system helps deter vehicle theft but cannot prevent it, nor can it prevent the theft of interior or exterior vehicle components in all situations. Always secure your vehicle even if parking for a brief period. Never leave your keys in the vehicle, and always lock the vehicle when unattended. Be aware of your surroundings, and park in secure, well-lit areas whenever possible.

Many devices offering additional protection, such as component locks, identification markers, and tracking systems, are available at auto supply stores and specialty shops. A NISSAN dealer may also offer such equipment. Check with your insurance company to see if you may be eligible for discounts for various theft protection features.

How to arm the vehicle security system

1. Close all windows and the moonroof (if so equipped). The system can be armed even if the windows and moonroof are open.
2. Remove the keys from the vehicle.
3. Close all doors, hood and liftgate. Lock all doors. The doors can be locked with the Intelligent Key, or door handle request switch (if so equipped) or power door lock switch.
4. Wait 30 seconds for the system to complete the pre-armed phase.

The vehicle security system will automatically shift into the armed phase.

If during the pre-armed phase one of the following occurs, the system will not arm:

- Any door is unlocked with the Intelligent Key, or door request switch (if so equipped).
- Ignition switch is placed in the AUTO ACC or ON position.
- Even when the driver and/or passengers are in the vehicle, the system will activate with all the doors, hood and liftgate locked with the ignition switch placed in the LOCK position. When placing the ignition switch in the ON position, the system will be released.

Vehicle security system activation

The vehicle security system will give the following alarm:

- The headlights or turn lamps blink and the horn sounds intermittently but synchronously.
- The alarm automatically turns off after a period of time. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated by:

- opening any door, hood or the liftgate without using the key or Intelligent Key (even if the door is unlocked by releasing the door inside lock knob).

How to stop an activated alarm

The alarm stops only by unlocking a door, pressing the button on the Intelligent Key, or pushing the request switch (if so equipped) on the driver's or passenger's door with Intelligent Key in range of the door handle.

NISSAN ANTI-THEFT SYSTEM (NATS) (if so equipped)

The NISSAN Anti-Theft System will not allow the engine to start without the use of a registered NATS key.

If the engine does not start using the registered NATS key, it may be due to interference caused by:

- Another NATS key
- Automated toll road device
- Automated payment device
- Other devices that transmit similar signals

Start the engine using the following procedure:

1. Remove any items that may be causing the interference away from the NATS key.
2. Leave the ignition switch in the ON position for approximately 5 seconds.
3. Place the ignition switch in the OFF or LOCK position and wait approximately 10 seconds.
4. Repeat steps 2 and 3 again.
5. Start the engine.
6. Repeat the steps above until all possible interferences are eliminated.

If this procedure allows the engine to start, NISSAN recommends placing the registered NATS key separate from other devices to avoid interference.

NISSAN VEHICLE IMMOBILIZER SYSTEM

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of a registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Place the ignition switch in the OFF or LOCK position, and wait approximately 10 seconds.
3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

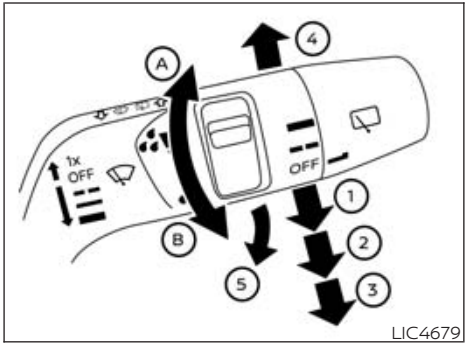
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WIPER AND WASHER SWITCH

SWITCH OPERATION



LIC4679

⚠WARNING

In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm the windshield with the defroster before you wash the windshield.

⚠CAUTION

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the windshield-washer fluid reservoir is empty.**
- **Do not fill the windshield-washer fluid reservoir with windshield-washer fluid concentrates at full strength. Some methyl alcohol based windshield-washer fluid concentrates may permanently stain the grille if spilled while filling the windshield-washer fluid reservoir.**
- **Pre-mix windshield-washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the windshield-washer fluid reservoir. Do not use the windshield-washer fluid reservoir to mix the windshield-washer fluid concentrate and water.**

NOTE:

If the windshield wiper operation is interrupted by snow or ice, the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to the OFF position and remove the snow or ice that is on and around the wiper arms. After approximately 1 minute, turn the switch on again to operate the wiper.

The windshield wiper and washer operates when the ignition switch is in the ON position.

Push the lever down to operate the wiper at the following speed:

① Intermittent (INT) — intermittent operation can be adjusted by turning the knob toward Ⓐ (faster) or Ⓑ (slower). Also, the intermittent operation speed varies in accordance with the vehicle speed. (For

example, when the vehicle speed is high, the intermittent operation speed will be faster.)

② Low (LO) — continuous low speed operation

③ High (HI) — continuous high speed operation

Push the lever up ④ to have one sweep operation (MIST) of the wiper.

Pull the lever toward you ⑤ to operate the washer. The wiper will also operate several times.

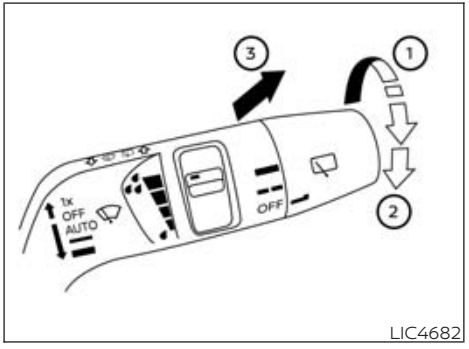
NOTE:

The Wiper with Speed feature and wiper guidance may be disabled. For additional information, see "Vehicle information display–7 inch (18 cm) Type A" (P. 84) or "Vehicle information display—12.3 inch (31 cm) Type B" (P. 103).

⚠ WARNING

Do not operate the windshield wiper while the wiper arm is pulled up. The wiper arm may be damaged.

REAR SWITCH OPERATION



LIC4682

⚠ WARNING

In freezing temperatures the washer solution may freeze on the rear window and obscure your vision which may lead to an accident. Warm the rear window with the defroster before you wash the rear window.

⚠ CAUTION

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the windshield-washer fluid reservoir is empty.**
- **Do not fill the windshield-washer fluid reservoir with windshield-washer fluid concentrates at full strength. Some methyl alcohol based windshield-washer fluid concentrates may permanently stain the grille if spilled while filling the windshield-washer fluid reservoir.**
- **Pre-mix windshield-washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the windshield-washer fluid reservoir. Do not use the windshield-washer fluid reservoir to mix the windshield-washer fluid concentrate and water.**

If the rear window wiper operation is interrupted by snow, etc., the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to OFF and remove the snow, etc. on and around the wiper arms. After about 1 minute, turn the switch on again to operate the wiper.

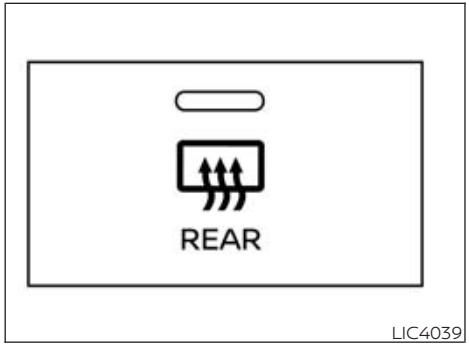
The rear window wiper and washer operate when the ignition switch is in the ON position. Turn the switch clockwise from the OFF position to operate the wiper.

① Intermittent (INT) — intermittent operation (not adjustable)

② Low (ON) — continuous low speed operation

Push the switch forward ③ to operate the washer. The wiper will also operate several times.

REAR WINDOW AND OUTSIDE MIRROR (if so equipped) DEFROSTER SWITCH



LIC4039

To defrost the rear window glass, start the engine and push the rear window defroster switch on. The rear window defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

To defrost the outside mirrors (if so equipped), start the engine and push the outside mirror defroster switch on. The outside mirror defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

The rear window/outside mirror defroster (if so equipped) automatically turns off after approximately 20 minutes.

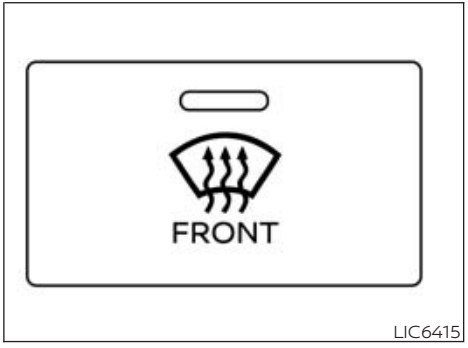
NOTE:

Use defroster and/or outside mirror defroster when engine is running to avoid discharging the battery.

⚠ CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defroster.

WINDSHIELD DEICER SWITCH (if so equipped)



LIC6415

The windshield deicer switch (defroster switch) operates when the push-button ignition switch is in the ON position.

The deicer is used to remove ice from the windshield when a wiper is frozen to the windshield.

When the switch is pushed, the indicator light illuminates and the deicer operates for approximately 20 minutes. The rear window defroster will activate at the same time. After the preset time has passed, the deicer will turn off automatically. To turn off the deicer manually, press the windshield deicer switch.

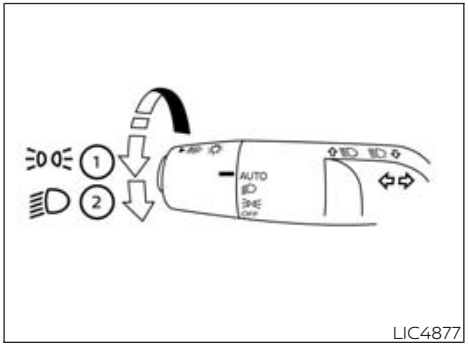
⚠CAUTION

- **When operating the deicer continuously, be sure to start the engine. Otherwise, it may cause the battery to discharge.**
- **When cleaning the inner side of the window, be careful not to scratch or damage the electrical conductors on the surface of the window.**

HEADLIGHT AND TURN SIGNAL SWITCH

HEADLIGHT CONTROL SWITCH

Basic Information



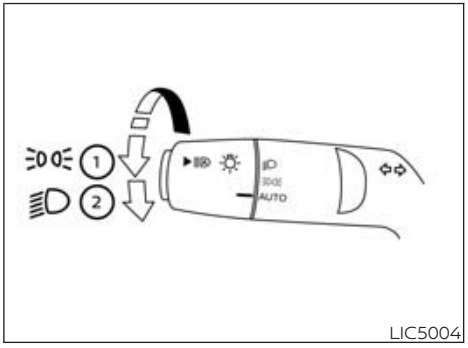
LIC4877

Type A (if so equipped)

Lighting

① Rotate the switch to the position, and the front parking, tail, license plate, and instrument panel lights will come on.

② Rotate the switch to the position, and the headlights will come on and all the other lights remain on.



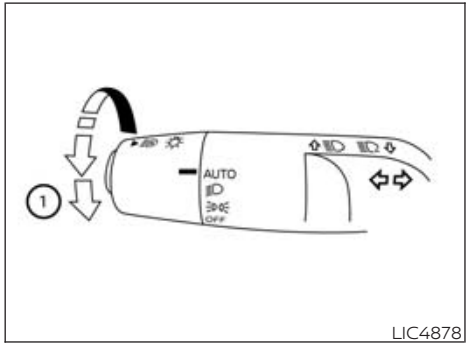
LIC5004

Type B (if so equipped)

⚠CAUTION

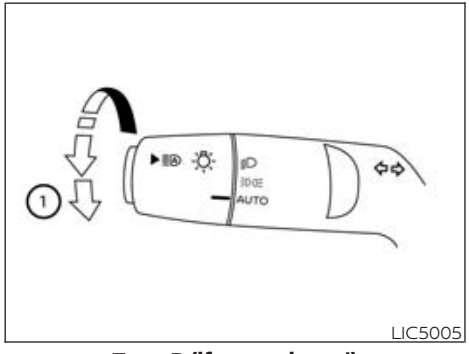
Use the headlights with the engine running to avoid discharging the vehicle battery.

Autolight system



LIC4878

Type A (if so equipped)



LIC5005

Type B (if so equipped)

The autolight system allows the headlights to turn on and off automatically. The autolight system can:

- Turn on the headlights, front parking, tail, license plate and instrument panel lights automatically when it is dark.
- Turn off all the lights (except Daytime Running Lights) when it is light.
- Keep all the lights on for a period of time after you place the ignition switch in the OFF position and all doors are closed.

NOTE:

Autolight activation sensitivity (if so equipped) and the time delay for autolight shutoff can be adjusted. For additional information, see "Vehicle information display-7 inch (18 cm) Type A" (P. 84) or "Vehicle information display-12.3 inch (31 cm) Type B" (P. 103).

To turn on the autolight system:

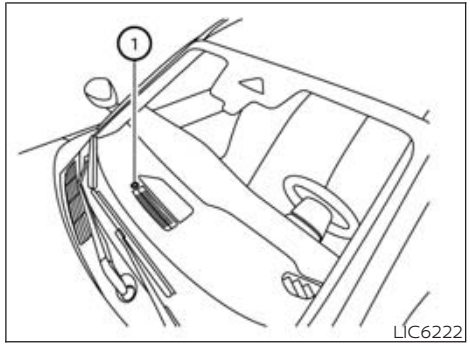
1. **For USA:** Turn the headlight switch to the AUTO position ①.
   For CAN: Turn the headlight switch to the AUTO ① or position.
2. Place the ignition switch in the ON position.
3. The autolight system automatically turns the headlights on and off.

Initially, if the ignition switch is placed in the OFF position and a door is opened and left open, the headlights remain on for a period of time. If another door is opened while the headlights are on, then the timer continues.

To turn the autolight system off:

For USA: Turn the switch to the OFF (if so equipped), , or position.

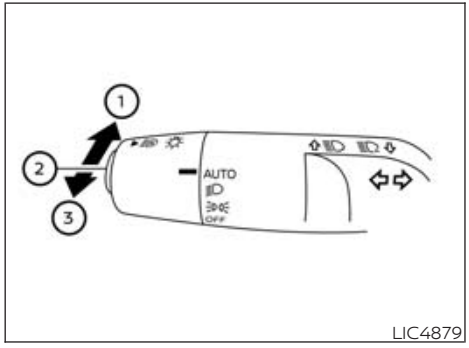
For CAN: Turn the switch to the position.



LIC6222

Be sure you do not put anything on top of the autolight sensor located in the top side ① of the instrument panel. The autolight sensor controls the autolight; if it is covered, the autolight sensor reacts as if it is dark out and the headlights will illuminate. If this occurs while parked with the engine off and the ignition switch placed in the ON position, your vehicle's battery could become discharged.

Headlight beam select



① To select the high beam function, push the lever forward. The high beam lights come on and the light illuminates.

② Pull the lever back to select the low beam.

③ Pulling and releasing the lever flashes the headlight high beams on and off.

High Beam Assist

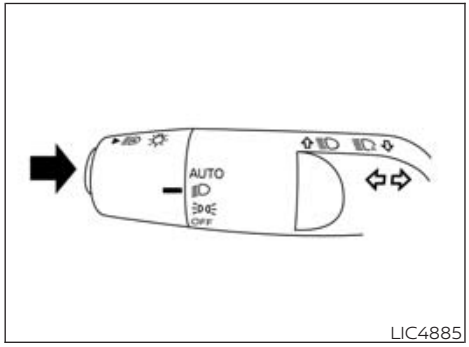
Basic Information

The High Beam Assist system will operate when the vehicle is driven at speeds of approximately 25 mph (40 km/h) and above. If an oncoming vehicle or leading vehicle appears in front of your vehicle when the headlight high beam is on, the headlight will be switched to the low beam automatically.

⚠WARNING

- **The High Beam Assist system is a convenience but it is not a substitute for safe driving operation. The driver should remain alert at all times, ensure safe driving practices and switch the high beams and low beam manually when necessary.**
- **The high beam or low beam may not switch automatically under the following conditions. Switch the high beam and low beam manually.**
  - **During bad weather (rain, fog, snow, wind, etc.).**
  - **When a light source similar to a headlight or tail light is in the vicinity of the vehicle.**
  - **When the headlights of the oncoming vehicle or the leading vehicle are turned off, when the color of the light is affected due to foreign materials on the lights, or when the light beam is out of position.**
  - **When there is a sudden, continuous change in brightness.**
  - **When driving on a road that passes over rolling hills, or a road that has level differences.**
  - **When driving on a road with many curves.**
  - **When a sign or mirror-like surface is reflecting intense light towards the front of the vehicle.**
  - **When the container, etc. being towed by a leading vehicle is reflecting intense light.**
  - **When a headlight on your vehicle is damaged or dirty.**
  - **When the vehicle is leaning at an angle due to a punctured tire, being towed, etc.**
- **The timing of switching the low beam and high beam may change under the following situations.**
  - **The brightness of the headlights of the oncoming vehicle or leading vehicle.**
  - **The movement and direction of the oncoming vehicle and the leading vehicle.**
  - **When only one light on the oncoming vehicle or the leading vehicle is illuminated.**
  - **When the oncoming vehicle or the leading vehicle is a two-wheeled vehicle.**
  - **Road conditions (incline, curve, the road surface, etc.).**
  - **The number of passengers and the amount of luggage.**

High Beam Assist operation



LIC4885

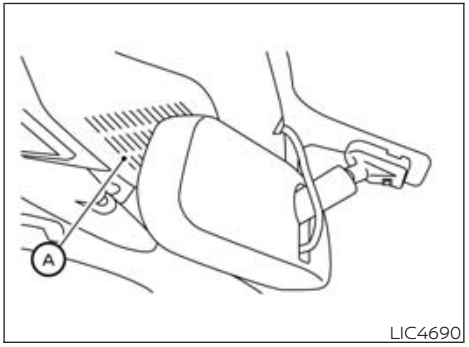
To activate the High Beam Assist system, turn the headlight switch to the AUTO position and push the switch as illustrated with the engine running. The High Beam Assist indicator light in the meter will illuminate while the headlights are turned on.

If the High Beam Assist indicator light does not illuminate in the above condition, it may indicate that the system is not functioning properly. Have the system checked, it is recommended that you visit a NISSAN dealer for this service.

When the vehicle speed lowers to less than approximately 16 mph (25 km/h), the headlight uses the low beam.

To turn off the High Beam Assist system, push the switch again.

Ambient image sensor maintenance



LIC4690

The ambient image sensor Ⓐ for the High Beam Assist system is located in front of the inside mirror. To maintain the proper operation of the high beam assist system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the ambient image sensor.
- Do not strike or damage the areas around the ambient image sensor. Do not touch the sensor lens that is located on the ambient image sensor.

If the ambient image sensor is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

Battery saver system

The battery saver system automatically turns off the ignition after a period of time when the ignition switch is left in the ON position.

The battery saver system automatically turns off the following lights after a period of time when the ignition switch is placed in the OFF or LOCK position:

- Headlights, when the headlight switch is in the or position
- Interior lights, when left in the ON position

The light reminder chime will sound if the headlight switch is in either the or position and when the driver's door is opened with the ignition switch in the OFF or LOCK position.

Be sure to turn the headlight switch to the OFF or AUTO position when you leave the vehicle.

⚠CAUTION

Even though the battery saver feature automatically turns off the headlights after a period of time, you should turn the headlight switch to the OFF position (if so equipped) when the engine is not running to avoid discharging the vehicle battery.

LED DAYTIME RUNNING LIGHTS (DRL) SYSTEM

The LED DRL automatically illuminate at 100% intensity when the engine is started and parking brake released. The LED DRL operate with the headlight switch in the OFF (if so equipped), or AUTO position during day conditions. **For CAN:** the LED DRL can turn on when headlight is in the position during day conditions (rear position lights will turn on as well). When you turn the headlight switch to the position for full illumination, the LED lights switch from LED DRL to the park function.

If the parking brake is applied before the engine is started, the LED DRL do not illuminate. The LED DRL illuminate when the parking brake is released. The LED DRL will remain on until the ignition switch is placed in the OFF position.

⚠WARNING

When the LED DRL system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

FRONT DECORATIVE LAMP (if so equipped)

The front decorative lamp mounted in the front bumper fascia illuminates under the following conditions:

- The ignition is in the ON position.
- The headlight switch is in the OFF or AUTO position.
- The parking brake is not applied.
- The turn signal is not activated on the same side.

⚠WARNING

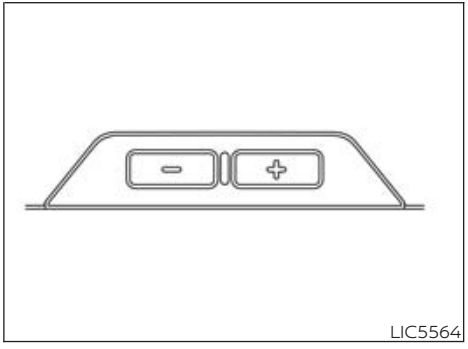
When the headlights are on, the front decorative lamp will switch to a reduced light output.

Turn the headlight switch to the position for full illumination when driving at night. The front decorative lamp is not a substitute for your vehicle's headlights.

⚠WARNING

It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

INSTRUMENT BRIGHTNESS CONTROL

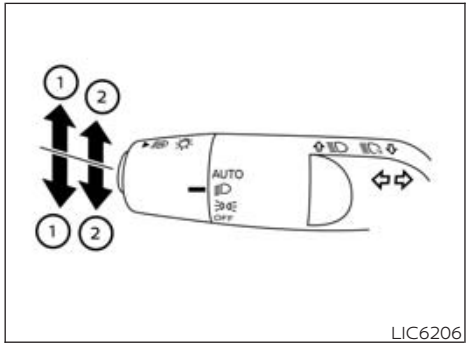


Press the "+" button to increase the brightness of instrument panel lights.

Press the "-" button to decrease the brightness of instrument panel lights.

TURN SIGNAL SWITCH

Basic Information



LIC6206

Turn signal:

① Move the lever up or down to signal the turning direction. When the turn is completed, the turn signal cancels automatically.

Lane change signal:

② Move the lever up or down until the turn signal begins to flash, but the lever does not latch, to signal a lane change. Hold the lever until the lane change is complete.

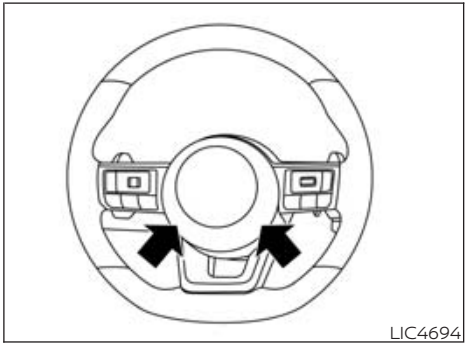
Move the lever up or down until the turn signal begins to flash, but the lever does not latch, and release the lever. The turn signal will automatically flash three times.

Choose the appropriate method to signal a lane change based on road and traffic conditions.

NOTE:

If the turn signal light bulb malfunctions, the turn signal indicator will flash at a higher frequency when the turn signal is activated.

HORN

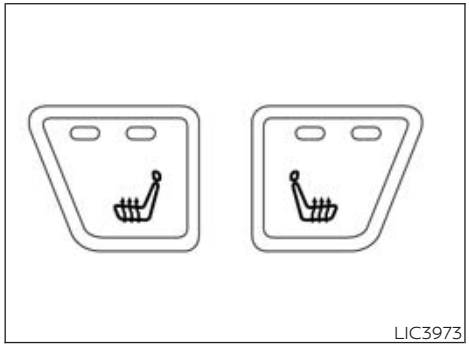

LIC4694

To sound the horn, push the center pad area of the steering wheel.

⚠WARNING

Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

HEATED SEAT SWITCHES (if so equipped)


LIC3973

⚠ WARNING

Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in body parts that contact the seat. Use of the seat heater by such people could result in serious injury.

⚠ CAUTION

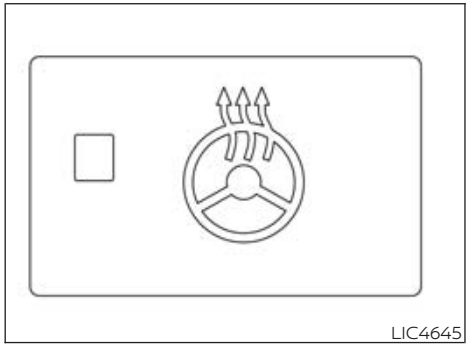
- **The battery could run down if the seat heater is operated while the engine is not running.**
- **Do not use the seat heater for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use gasoline, benzine, thinner, or any similar materials.**
- **If any malfunctions are found or the heated seat does not operate, turn the switch off and have the system checked. It is recommended that you visit a NISSAN dealer for this service.**

The front seats are warmed by built-in heaters.

1. Place the ignition switch in the ON position.
2. Push the switch once for the high (2 indicators illuminated) setting. Push the switch again for the low (1 indicator illuminated) setting.

   The heater is controlled by a thermostat, automatically turning the heater on and off. The indicator light(s) will remain on as long as the switch is on.
3. Push the switch again to turn it off (no indicators illuminated).
4. When the seat is warmed or before you leave the vehicle, be sure to push the switch to turn it off.

HEATED STEERING WHEEL SWITCH (if so equipped)


LIC4645

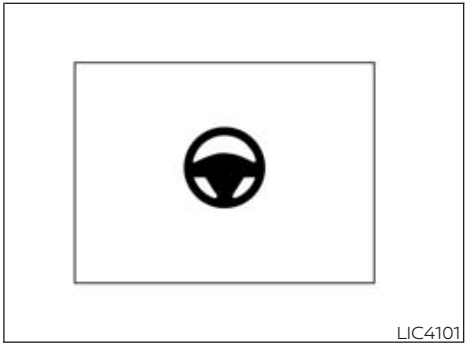
The heated steering wheel system is designed to operate only when the surface temperature of the steering wheel is below 68°F (20°C).

Push the heated steering wheel switch to warm the steering wheel after the engine starts. The indicator light will come on.

If the surface temperature of the steering wheel is below 68°F (20°C), the system will heat the steering wheel and cycle off and on to maintain a temperature above 68°F (20°C). Regardless of the temperature, the steering-wheel heating will turn off after 30 minutes. The indicator light will remain on as long as the system is on.

Push the switch again to turn the heated steering wheel system off manually. The indicator light will go off.

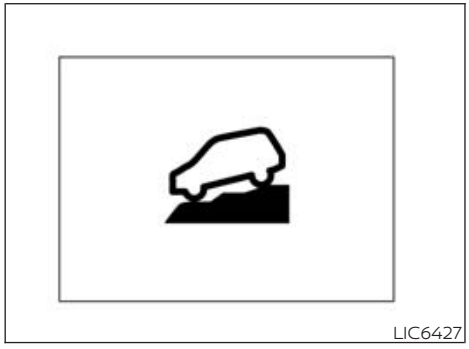
STEERING ASSIST SWITCH (for vehicles with ProPILOT Assist) (if so equipped)


LIC4101

The Steering Assist switch is used to enable and disable the Steering Assist system that is activated using the settings menu of the vehicle information display.

The Steering Assist system controls the steering system, when ProPILOT Assist is engaged, to help keep your vehicle near the center of the lane when driving. For additional information, see "ProPILOT Assist" (P. 313) and "Intelligent Lane Intervention (I-LI)" (P. 261).

HILL DESCENT CONTROL SWITCH (if so equipped)



LIC6427

⚠ WARNING

- **Never rely solely on the hill descent control system to control vehicle speed when driving on steep downhill grades. Always drive carefully when using the hill descent control system and decelerate the vehicle speed by depressing the brake pedal if necessary. Be especially careful when driving on frozen, muddy or extremely steep downhill roads. Failure to control vehicle speed may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill descent control may not control the vehicle speed on a hill under all load or road conditions. Always be prepared to depress the brake pedal to control vehicle speed. Failure to do so may result in a collision or serious personal injury.**

⚠ CAUTION

When the hill descent control system operates continuously for a long time, the temperature of the brake pads may increase and the hill descent control system may be temporarily disabled (the indicator light will blink). If the indicator light does not come on continuously after blinking, stop using the system.

The hill descent control system is designed to reduce driver workload when going down steep hills. The hill descent control system helps to control vehicle speed so the driver can concentrate on steering the vehicle.

To activate the hill descent control system:

- the vehicle speed must be under 15 mph (25 km/h)
- the hill descent control system switch must be ON.

The hill descent control system ON indicator light will come on when the system is activated. Also, the stop/tail lights illuminate while the hill descent control system applies the brakes to control vehicle speed.

If the accelerator or brake pedal is depressed while the hill descent control system is on, the system will stop operating temporarily. As soon as the accelerator or brake pedal is released, the hill descent control system begins to function again if the hill descent control operating conditions are fulfilled.

The hill descent control system ON indicator light blinks if the switch is on and all conditions for system activation are not met or if the system becomes disengaged for any reason.

To turn off the hill descent control system, push the switch to the OFF position.

For additional information, see "Hill descent control system ON indicator light" (P. 78) and "Hill descent control system" (P. 389).

EMERGENCY CALL (SOS) BUTTON (if so equipped)

EMERGENCY SUPPORT

Basic Information

NissanConnect® Services provide various services to support dealing with emergencies of the subscribed vehicle and the driver.

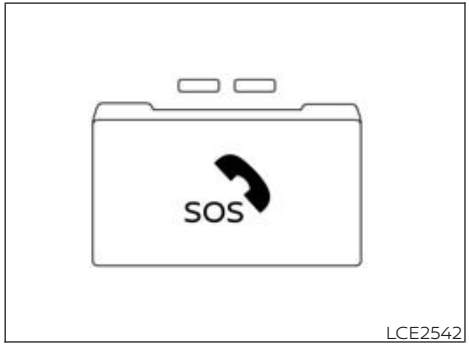
For example, in case of an illness or serious injury, you can seek support by pressing the in-vehicle Emergency Call (SOS) button and connecting to the NissanConnect® Services Response Center. The NissanConnect® Services Response Center can specify the location of the vehicle via GPS, and the information will be sent to the police or other agencies as needed.

For information about other NissanConnect® Services emergency support related services, contact the NissanConnect® Customer Support line at 1-855-426-6628 or refer to the NissanConnect® Services website www.nissanusa.com/connect (for U.S.) or www.nissan.ca/nissanconnect (English) / www.nissan.ca/nissanconnect/fr (French) (for Canada).

⚠WARNING

- **Please note that the Automatic Collision Notification service and Emergency Call function cannot be used in the following conditions:**
  - **Emergency functions and services may not be available without a paid subscription to NissanConnect® Services.**
  - **The NissanConnect® Services network system is disabled.**
  - **The vehicle moves outside the service area where the TCU (Telematics Control Unit) is connected to the system.**
  - **The vehicle is outside the area where the cellular network service is receivable.**
  - **The vehicle is in a location with poor signal reception such as tunnels, underground parking garages, behind buildings or in mountainous areas.**
  - **The line is busy.**
  - **The TCU (Telematics Control Unit) or other systems of your vehicle are not working properly.**
  - **It may not be possible to make an emergency call depending on the severity of a collision and/or emergency.**
- **Park the vehicle in a safe location and set the parking brake before operating the Emergency Call (SOS) button.**
- **Only use this service in case of an emergency. There may be a penalty for inappropriate use of the service.**
- **Radio waves could adversely affect electric medical equipment. Individuals who use a pacemaker should contact the device manufacturer regarding any possible effects before using the system.**
- **The TCU (Telematics Control Unit) antenna is installed inside the upper central part of the instrument panel. An occupant should not get any closer to the antenna than specified by the pacemaker manufacturer. The radio waves from the TCU antenna may adversely affect the operation of the pacemaker while using the NissanConnect® Services.**

Making an emergency call



The Emergency Call (SOS) button is located near the map light.

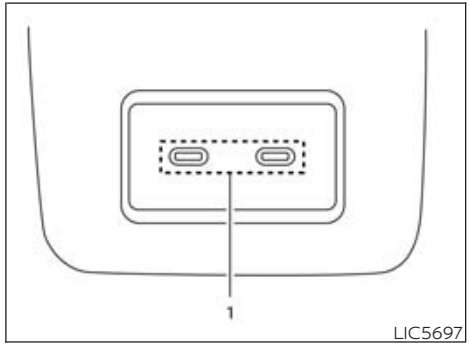
1. Push the cover to expose the Emergency Call (SOS) button.
2. Press the Emergency Call (SOS) button to make an emergency call.
3. When the line is connected, speak to the Response Specialist.

If you want to cancel the emergency call, press and hold the Emergency Call (SOS) button for a few seconds.

NOTE:

- **After the Emergency Call (SOS) button is pressed, it may take some time until the system initiates connection, depending on the technical environment and whether the TCU (Telematics Control Unit) is being used by the other services.**
- **An indicator light on the Emergency call (SOS) button shows the readiness of the emergency support system. If the indicator light is not illuminated, pressing the Emergency Call (SOS) button does not connect your vehicle to the Response Specialist. The indicator light blinks while connected to the NissanConnect® Services Response Center.**
- **Even when the indicator light is illuminated, connection to the NissanConnect® Services Response Center may not be possible. If this occurs in an emergency situation, contact the authorities by other means.**
- **To avoid disconnecting the line, keep the engine running during an emergency call, if it is safe to do so.**
- **For some models with ProPILOT Assist, after the vehicle is brought to an emergency stop, the vehicle is connected to the Emergency Call (SOS) service operator, who then requests relief from public institutions (police, fire department, medical institutions). See "ProPILOT Assist" (P. 313) for more details of the ProPILOT Assist feature.**

USB/iPod® CHARGING PORTS



1. Type-C USB

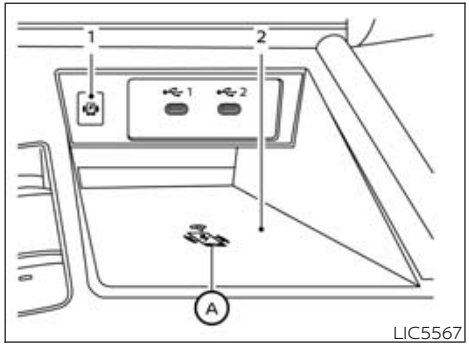
There are USB/iPod® charging ports located on the back of the center console. These ports will charge compatible devices.

NOTE:

- **The USB/iPod® charging ports will not operate with the display screen. Only the USB connection port located on the instrument panel, below the temperature controls, will operate USB/iPod® devices through the audio system.**
- **For best results, it is recommended to use the manufacturer cables, which are sold separately. A USB Type-C to USB Type-A adapter (or vice versa) could be available; however, results may vary.**

WIRELESS CHARGER (if so equipped)

BASIC INFORMATION



LIC5567

1. Indicator
2. Charging pad

The wireless charger is located on the front of the center console. Lay the smartphone on the pad of the wireless charger. Charging will start automatically. The smartphone will be charged continuously while the ignition switch is in the ON position.

NOTE:

The wireless charging pad requires the vehicle doors to be closed before charging will start. If the doors are opened, the charging function will not operate.

⚠WARNING

- **Never put metallic materials between the wireless charger and a smartphone.**
- **Those who use a pacemaker or other medical equipment should contact the electric medical equipment manufacturer for the possible influences before use.**
- **Never put cloth over the smartphone during charging process.**
- **Never charge a smartphone when it is wet.**
- **Never put metallic materials or small goods such as a cigarette lighter, Intelligent Key or memory drive.**

⚠CAUTION

- **Do not put an RFID/NFC/credit card between the wireless charger and a smartphone. This could cause data corruption in the card.**
- **Do not use the wireless charger with dust accumulated or dirt on the pad.**
- **Do not hit the surface of the wireless charger.**
- **Do not spill liquid (water, drinks, etc.) on the charging pad.**
- **Do not use grease, oil or alcohol for cleaning charging pad.**

Wireless charger indicator

The indicator (1) will illuminate in orange when the charging process is started.

When the charging has completed, the indicator illuminates in green.

If a malfunction occurs or the charging process has stopped, the indicator will blink in orange for 8 seconds then turn off.

Wireless charger operation

To use the wireless charger, it is necessary to seat the smartphone well within the charging pad. To maximize charging performance, ensure the smartphone is fully seated on the center of the charging pad over the "Qi" logo Ⓐ. Because the location of the power receiver may vary depending on the smartphone, you will need to try and find the area that suits your smartphone.

Because some smartphone cases or accessories may adversely affect charging, remove them before wireless charging. Turn off the vibration function of the smartphone before wireless charging.

NOTE:

- **Only a Qi compatible smartphone can be used.**
- **The smartphone may be warmed during charging process and the charging may stop by the protection function of the wireless charger. This is not a malfunction. If this occurs, restart charging after the smartphone cooled down. The indicator will blink in orange then turn off.**

- **The wireless charging process may be stopped by the status of the smartphone (battery temperature, etc.).**
- **If a radio noise interference occurs during charging process, put the smartphone onto the center ("Qi" logo) position of the wireless charger.**
- **The wireless charging process will stop during process of searching the Intelligent Key.**
- **The wireless charging process will not be started when a USB (Universal Serial Bus) cable is connected to the smartphone. The indicator may illuminate in orange or blink if the smartphone is put on the wireless charger with a USB cable connected. However, charging is not performed.**
- **Depending on the type of the smartphone, the indicator may remain illuminated in orange even when the charging process has been completed.**

This device complies with part 15 of the FCC Rules and RSS-Gen of IC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Radiation Exposure Statement: This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment.
This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with a minimum distance of 15cm between the radiator and your body.

ISED Compliance Statement
This device complies with RSS-Gen of IC Rules
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications made to this device, not expressly approved by LG Vehicle Components Company, will void the user's authority to operate the equipment.
ISED RF Radiation Exposure Statement: This equipment complies with ISED RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed to operate with a minimum distance of 15 cm between the radiator and the end-user's body and arms.

REAR DOOR ALERT

The Rear Door Alert system functions under certain conditions to indicate there may be an object or passenger in the rear seat(s). Check the seat(s) before exiting the vehicle.

The Rear Door Alert system is initially enabled. The driver can disable the system using the vehicle information display. For additional information, see "Vehicle information display warnings and indicators" (P. 94, 113).

When the system is enabled:

- The system is activated when a rear door is opened and closed.
- The time interval to activate the system between when the rear door is opened and the vehicle is started is about 15 minutes. A longer interval does not indicate a malfunction.

When the Rear Door Alert system is activated:

- When the driver stops the engine, a notification message appears in the vehicle information display with the options to "Dismiss Message" or "Disable Alert" if desired.
  - Select "Disable Alert" to temporarily disable for that stop.
  - No selection or "Dismiss Message" will keep the alert enabled for that stop.

- If the alert is enabled when a driver exits the vehicle, a message will appear in the vehicle information display that states "Check Rear Seat."

  If "Horn & Alert" setting is selected:
  - An audible horn sound will occur after a short time unless a rear door is opened within a short time to deactivate the alert.
  - If the doors are locked before the alert is deactivated by opening a rear door, the horn will sound.
  - If the liftgate is opened before a rear door is opened, the horn will be delayed until after the liftgate is closed.

NOTE:

If "Alert Only" setting is selected, the message alert will still be shown in the vehicle information display but the horn will not sound.

⚠ WARNING

- **If the driver selects "Disable Alert", no audible alert will be provided regardless of rear door open/close status.**
- **There may be times when there is an object or passenger in the rear seat(s) but the audible alert does not sound. For example, if rear seat passengers enter or exit the vehicle during a trip.**
- **The system does not directly detect objects or passengers in the rear seat(s). Instead, it can detect when a rear door is opened and closed, indicating that there may be something in the rear seat(s).**

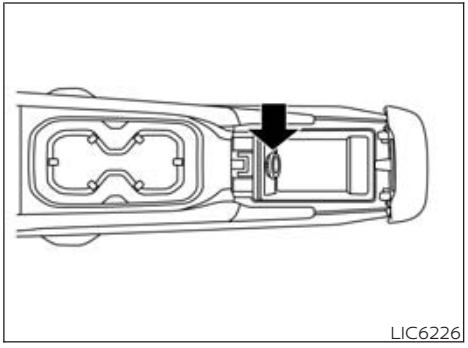
NOTE:

There may be times when the horn sounds but there are no objects or passengers in the rear seat(s).

For additional information, see "Check Rear Seat indicator" (P. 95, 114) and "Check Rear Seat (Dismiss Message/Disable Alert)" (P. 95, 114).

POWER OUTLETS

12V OUTLET



Center Console

The power outlet is for powering electrical accessories such as cellular telephones. It is rated at 12 volt, 120W (10A) maximum.

The center console power outlet is powered only when the ignition switch is in the ON position, or while the accessory power is active.

NOTE:

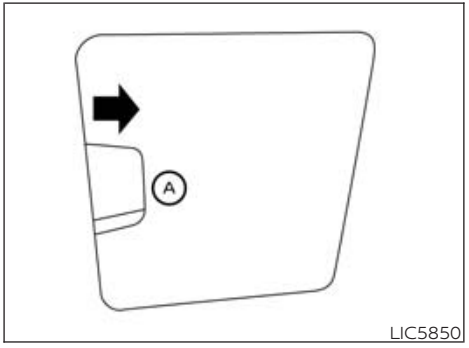
- **When the ignition is in the OFF position, the center console power outlet stops delivering power one minute after the door is opened and stays open.**
- **If the door remains closed after the ignition is placed in the OFF position, the center console power outlet continues to**

deliver power until the accessory power timer has elapsed.

⚠CAUTION

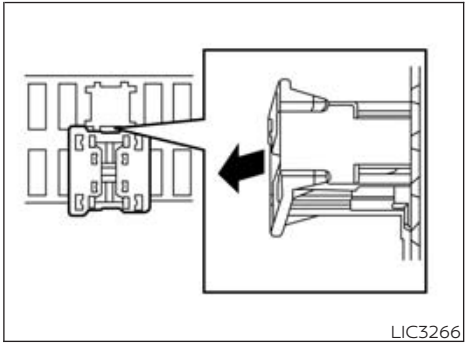
- **The outlet and plug may be hot during or immediately after use.**
- **Only certain power outlets are designed for use with a cigarette lighter unit. Do not use any other power outlet for an accessory lighter. It is recommended that you visit a NISSAN dealer for additional information.**
- **Do not use with accessories that exceed a 12 volt, 120W (10A) power draw.**
- **Do not use double adapters or more than one electrical accessory.**
- **Use power outlets with the engine running to avoid discharging the vehicle battery.**
- **Avoid using power outlets when the air conditioner, headlights or rear window defroster is on.**
- **Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned off.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may open.**
- **When not in use, be sure to close the cap. Do not allow water or any other liquid to contact the outlet.**

EXTENDED STORAGE SWITCH

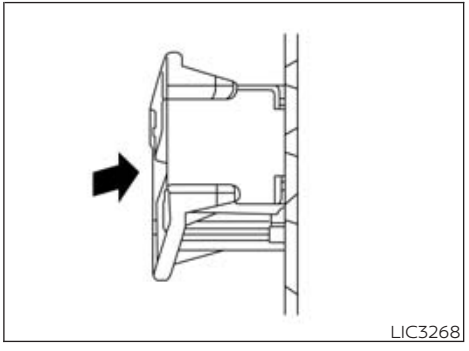


LIC5850

The extended storage switch is used when the vehicle is in transit from the factory. It is located in the fuse panel Ⓐ which is on the driver's side left kick panel, near the floor, on the inside of the panel. If any electrical equipment does not operate, ensure the extended storage switch is pushed fully in place, as shown.


LIC3266

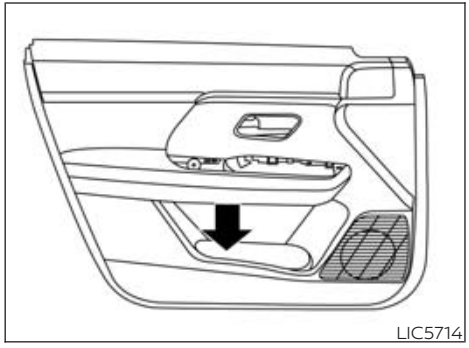
Pulled position


LIC3268

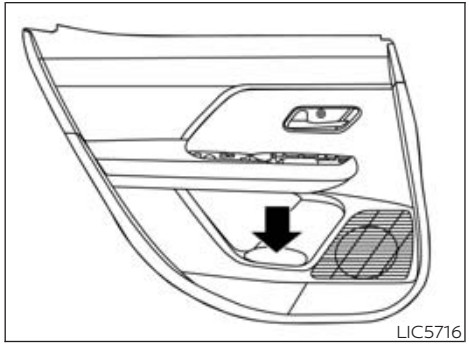
Pushed position

STORAGE

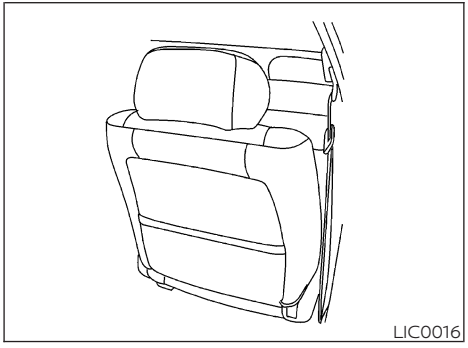
FRONT-DOOR POCKETS


LIC5714

REAR-DOOR POCKETS


LIC5716

SEATBACK POCKETS (if so equipped)


LIC0016

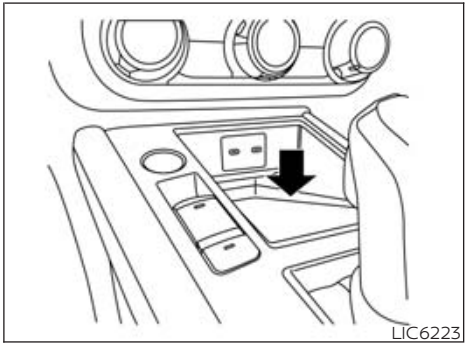
The seatback pockets are located on the back of the driver's and passenger's seat. The pockets can be used to store maps.

⚠WARNING

To ensure proper operation of the driver's and/or front passenger's NISSAN Advanced Air Bag System (if so equipped), please observe the following items:

- **Do not allow a passenger in the rear seat to push or pull on the seatback pocket or head restraint/headrest.**
- **Do not place heavy loads heavier than 9.1 lbs. (4 kg) on the seatback, head restraint/headrest or in the seatback pocket.**

STORAGE TRAYS

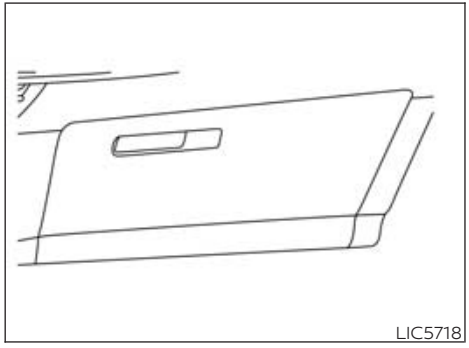

LIC6223

Storage compartment (if so equipped)

⚠WARNING

Do not place sharp objects in the trays to help prevent injury in an accident or sudden stop.

GLOVE BOX

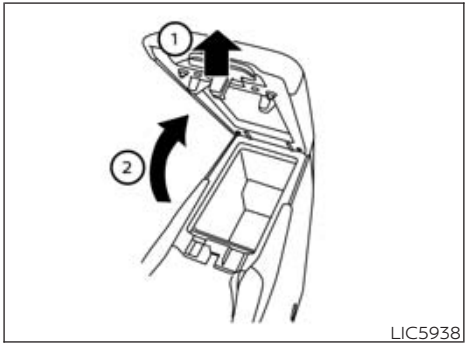


Open the glove box by pulling the handle.

⚠WARNING

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

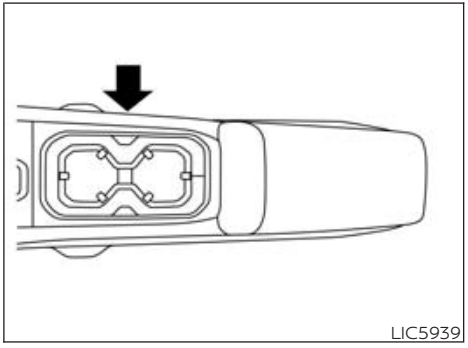
CONSOLE BOX (if so equipped)



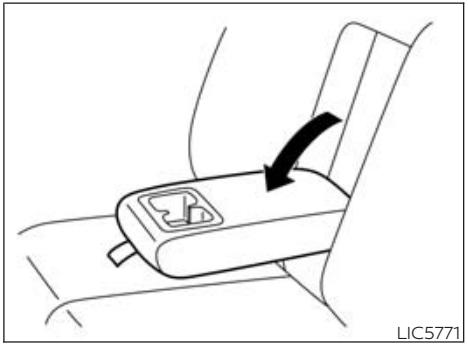
To open the console box, pull on the lever ① and raise the lid ②.

To close, push the lid down until the lock latches.

CUP HOLDERS



Center console with armrest



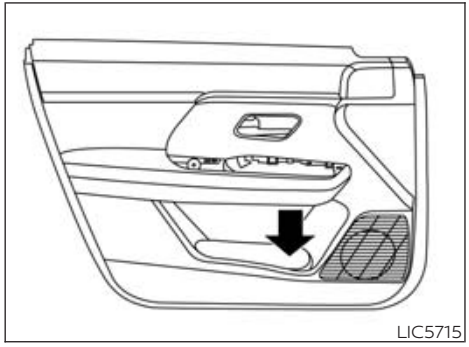
Rear (if so equipped)

⚠CAUTION

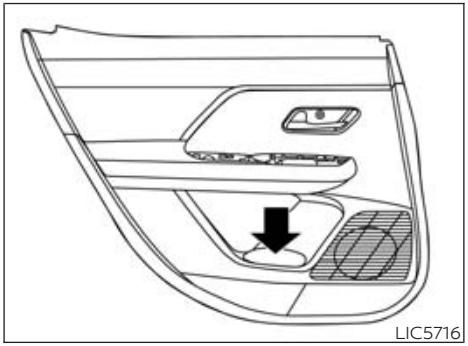
- **Do not recline the rear seatback when you use the cup holders on the rear armrest. Doing so may cause the beverages to spill over, and if they are hot, they may scald the passengers.**

⚠CAUTION

- **Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during sudden braking or an accident.**
- **Do not use bottle holder for open liquid containers.**



Bottle holder — front

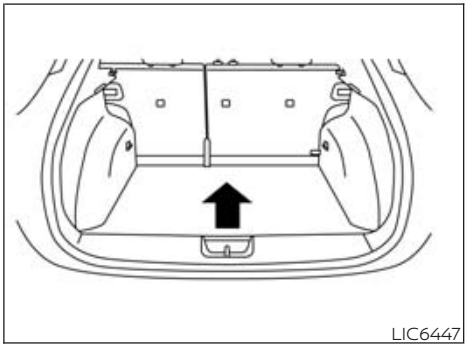


Bottle holder — rear

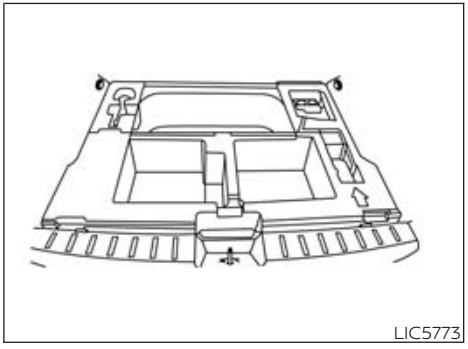
⚠CAUTION

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**

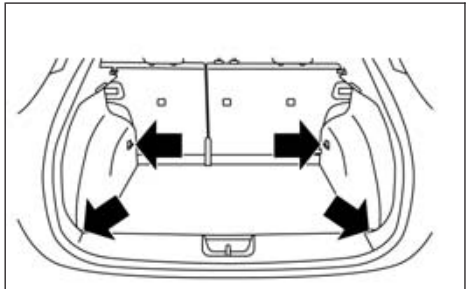
CARGO AREA STORAGE BIN



To access the floor storage area pull up to lift the luggage board.



LUGGAGE HOOKS


LIC6446

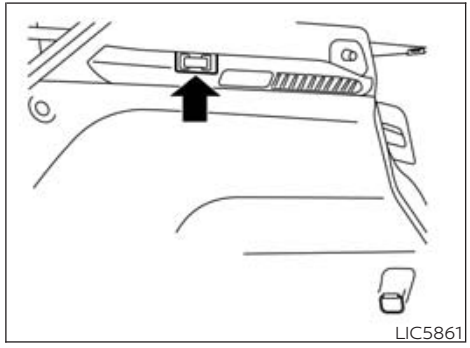
The luggage hooks that are located on the floor should have loads less than 110 lbs. (490 N) to a single hook.

The luggage hooks can be used to secure cargo with ropes or other types of straps.

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Use suitable ropes and hooks to secure cargo.**
- **Never allow anyone to ride in the luggage area. It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **The child restraint top tether strap may be damaged by contact with items in the cargo area. Secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

GROCERY HOOKS


LIC5861

Left side shown (right similar)

The grocery hooks are located in the cargo area and allow for standard size plastic grocery bags to hang side by side.

⚠CAUTION

Do not apply a total load of more than 6.6 lbs. (3 kg) to a single grocery hook.

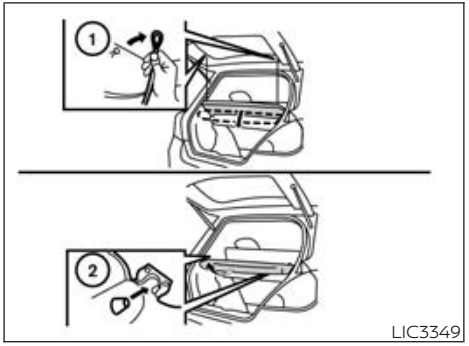
CARGO COVER (if so equipped)

⚠WARNING

- **Never put anything on the cargo cover, no matter how small. Any object on it could cause an injury in an accident or sudden stop.**
- **Do not put objects heavier than 44 lbs. (20 kg) on the cargo cover for long periods of time.**
- **Do not leave the cargo cover in the vehicle with it disengaged from the holder.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Properly secure cargo and do not allow it to contact the top tether strap when it is attached to the top tether anchor. Cargo that is not properly secured or cargo that contacts the top tether strap may damage the top tether strap during a collision. If the cargo cover contacts the top tether strap when it is attached to the top tether anchor, remove the cargo cover from the vehicle or secure it on the cargo floor below its attachment location. If the cargo cover is not removed, it may damage the top tether strap during a collision.**

Your child could be seriously injured or killed in a collision if the child restraint top tether strap is damaged.

The cargo cover keeps the luggage compartment contents hidden from the outside.



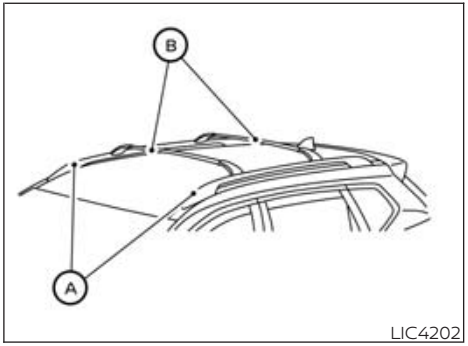
LIC3349

To remove the cargo cover:

① Remove the straps from the rear hatch.
② Remove the cargo cover from the holders on the rear pillar.

ROOF RACK (Type A) (if so equipped)

Basic Information



LIC4202

⚠WARNING

- **Always install the crossbars onto the roof side rails before loading cargo of any kind. Loading cargo directly onto the roof side rails or the vehicle's roof may cause vehicle damage.**
- **Roof rack cross bars should be evenly distributed.**
- **Do not exceed maximum roof rack crossbars load capacity and always distribute the load uniformly.**

- **Heavy loading of the crossbars has the potential to affect the vehicle stability and handling during sudden or unusual handling maneuvers.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the crossbars.**

⚠CAUTION

- **Use care when placing or removing items from the roof rack. If you cannot comfortably lift the items onto the roof rack from the ground, use a ladder or a stool.**

Do not apply any load directly to the roof side rails Ⓐ. Crossbars Ⓑ must be installed before applying load/cargo/luggage to the roof of the vehicle.

Genuine NISSAN accessory crossbars may be available through a NISSAN dealer. It is recommended that you visit a NISSAN dealer for additional information.

The service load capacity for the roof side rails is 165 lbs. (75 kg.), however do not exceed the crossbars load capacity.

Be careful that your vehicle does not exceed the Gross Vehicle Weight Rating (GVWR) or its Gross Axle Weight Rating (GAWR front and rear).

For additional information regarding GVWR and GAWR, refer to:

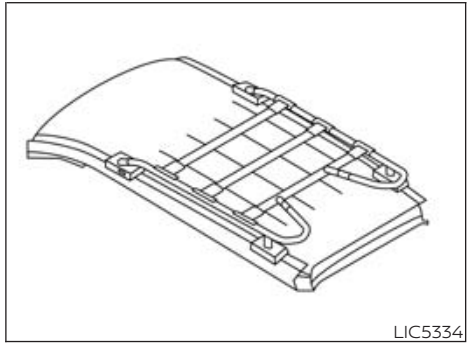
- F.M.V.S.S. or C.M.V.S.S. certification label (located on the driver's door pillar).

Installing Crossbars (if so equipped)

⚠WARNING

- **It is recommended that you have the roof rack crossbars installed by a NISSAN dealer.**
- **Protect the painted area on the vehicle roof under the crossbars by placing a piece of cloth under the cross bars to prevent scratch damage.**
- **Make sure the moonroof (if so equipped) is in the closed position during the installation process.**

ROOF RACK (Type B) (if so equipped)



Roof rack (for Rock Creek®)

⚠WARNING

- **Always install the crossbars onto the roof side rails before loading cargo of any kind. Loading cargo directly onto the roof rack or the vehicle's roof may cause vehicle damage.**
- **Do not exceed maximum roof rack load capacity and always distribute the load uniformly. Heavy loading of the roof rack has the potential to affect the vehicle stability and handling during sudden or unusual handling maneuvers.**

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the roof rack.**

⚠CAUTION

- **Use care when placing or removing items from the roof rack. If you cannot comfortably lift the items onto the roof rack from the ground, use a ladder or a stool.**
- **Do not put load directly on the roof rack. To avoid damage to paint, the rubber seal and plastic supports, use soft padding or soft cloth on the crossbar before putting rough surface load like plywood, lumber, etc.**

Genuine NISSAN accessory roof rack attachments may be available through a NISSAN dealer. It is recommended that you visit a NISSAN dealer for additional information.

The service load capacity for the roof side rails is 165 lbs. (75 kg).

Be careful that your vehicle does not exceed the Gross Vehicle Weight Rating (GVWR) or its Gross Axle Weight Rating (GAWR front and rear).

For additional information regarding GVWR and GAWR, refer to:

- F.M.V.S.S. or C.V.M.S.S. certification label (located on the driver's door pillar).

WINDOWS

POWER WINDOWS

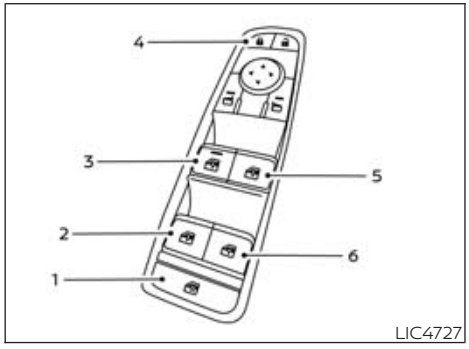
Basic Information

⚠WARNING

- **Make sure that all passengers have their hands, etc., inside the vehicle while it is in motion and before closing the windows. Use the window lock button to prevent unexpected use of the power windows.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

The power windows operate when the ignition switch is placed in the ON position or for a period of time after the ignition switch is placed in the OFF position. If the driver's or passenger's door is opened during this period of time, the power to the windows is canceled.

Driver's side power window switch

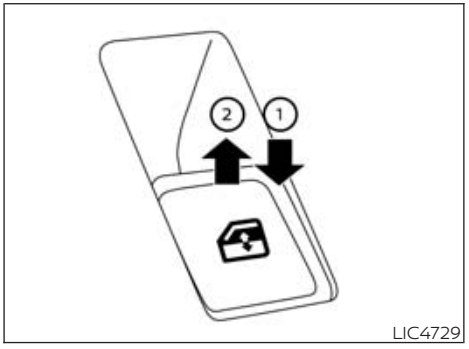


1. Window lock button
2. Left rear passenger side switch
3. Driver's side automatic switch
4. Power door lock switch
5. Front passenger side automatic switch
6. Right rear passenger side switch

The driver's side control panel is equipped with switches to open or close all of the windows.

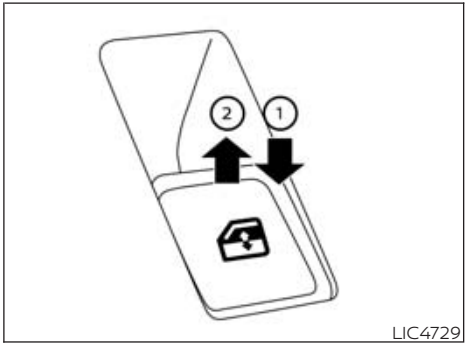
To open a window, push the switch to the detent and continue to hold down until the desired window position is reached. To close a window, pull the switch to the detent and continue to hold up until the desired window position is reached.

Front passenger's power window switch



The passenger's window switch operates only the corresponding passenger's window. To open the window partially, push the switch down ① lightly until the desired window position is reached. To close the window partially, pull the switch up ② until the desired window position is reached.

Rear power window switch

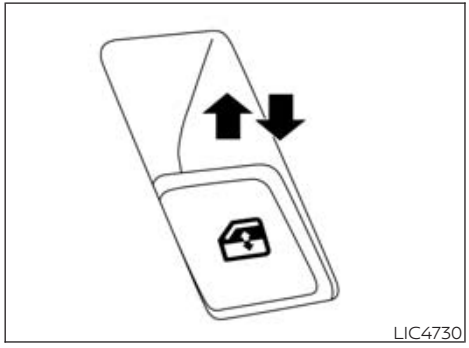


The rear power window switches open or close only the corresponding windows. To open the window, push the switch and hold it down ①. To close the window, pull the switch up ②.

Locking passengers' windows

When the window lock button is depressed, only the driver's side window can be opened or closed. Press it again to cancel the window lock function.

Automatic operation


LIC4730

To fully open a window equipped with automatic operation, push the window switch down to the second detent and release it; it need not be held. The window automatically opens all the way. To stop the window, lift the switch up while the window is opening.

If so equipped, it may be possible to fully close a window equipped with automatic operation, pull the switch up to the second detent and release it; it need not be held. To stop the window, push the switch down while the window is closing.

Auto-reverse function

The auto-reverse function can be activated when a window is closed by automatic operation.

Depending on the environment or driving conditions, the auto-reverse function may be activated if an impact or load similar to something being caught in the window occurs.

⚠WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the window.

If the vehicle's battery is disconnected, replaced, or jump started, the power window auto-reverse function may not operate properly. Have the power window auto-reverse system re-initialized. It is recommended that you visit a NISSAN dealer for this service.

If the control unit detects something caught in a window equipped with automatic operation as it is closing, the window will be immediately lowered.

When power window switch does not operate

If the power window automatic function (closing only) does not operate properly, perform the following procedure to initialize the power window system:

1. Place the ignition switch in the ON position.
2. Open the window more than halfway by operating the power window switch.
3. Pull the power window switch and hold it to close the window, and then hold the switch more than 3 seconds after the window is closed.
4. Release the power window switch. Operate the window by the automatic function to confirm the initialization is complete. The power window automatically opens or closes depending on if the automatic down or up function is selected.
5. Perform steps 2 through 4 above for other windows.

If the power window function does not operate properly after performing the above procedure have the system checked and repaired. It is recommended that you visit a NISSAN dealer for this service.

⚠ WARNING

When the auto-reverse function is canceled, the windows will not automatically reverse even if the control unit detects an obstacle. Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows.

POWER MOONROOF (if so equipped)

BASIC INFORMATION

⚠ WARNING

- **In an accident you could be thrown from the vehicle through an open moonroof. Always use seat belts and child restraints.**
- **Do not allow anyone to stand up or extend any portion of their body of the moonroof opening while the vehicle is in motion or while the moonroof is closing.**

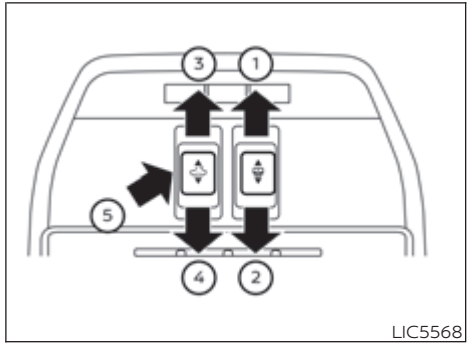
⚠ CAUTION

- **Remove water drops, snow, ice or sand from the moonroof before opening.**
- **Do not place any heavy object on the moonroof or surrounding area.**

AUTOMATIC MOONROOF AND SUNSHADE

Sliding sunshade and moonroof

Basic Information



LIC5568

When the sunshade switch is pushed to the OPEN position ①, the sunshade open. (If the sunshade starts to open from the position between close and half open, the sunshade will stop half. When the switch is pushed again, the sunshade will open fully.) When the moonroof switch is pushed to the OPEN position ③, the moonroof opens to the comfort mode position. (If the sunshade is close, the sunshade will open half first. When the switch is pushed again, the moonroof will open fully.)

When the moonroof switch is pushed to the CLOSE position ④, the moonroof will automatically close. When the sunshade switch is

pushed to the CLOSE position ②, the sunshade will close. (If the sunshade starts to close from the position between full and half open, the sunshade will stop half. When the switch is pushed again, the sunshade will close fully. However, if the moonroof is open or tilted up, the sunshade will not close beyond half.)

To stop the sunshade or moonroof during the operation, push the moonroof switch to either of the OPEN ①, ③, CLOSE ②, ④ or UP ⑤ position.

Tilting the moonroof

To tilt up the moonroof, push the moonroof switch to the UP position ⑤. To tilt down the moonroof, push the switch to the CLOSE position ④.

Comfort mode

This is the position used when driving with the moonroof open. When driving with the moonroof fully open, wind noise may be very loud. Use the comfort mode position when driving.

Auto-reverse function

⚠ WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the moonroof and sunshade.

The auto-reverse function enables the moonroof and sunshade to automatically reverse when something is caught in the moonroof and sunshade as it is closing. When the control unit detects an obstacle, the moonroof and sunshade will open immediately.

Depending on the environment or driving conditions, the auto-reverse function may activate if an impact or load similar to something being caught in the moonroof and sunshade occurs.

If the auto-reverse function activates consecutively or the battery is discharged, the moonroof and sunshade may not close properly. In this case, push and hold the switch to the CLOSE position ④ to close the moonroof.

If the moonroof switch does not operate

If the moonroof and sunshade do not operate properly, perform the following procedure to initialize the operation system.

1. If the moonroof and sunshade are open, close them fully by repeatedly pushing the moonroof switch to the CLOSE ② and ④ position.
2. Push and hold the moonroof switch to the CLOSE ④ position for 10 seconds.
3. After the moonroof and sunshade move slightly to the closed position and then move back a little, release the moonroof switch.
4. Push and hold the moonroof switch to the CLOSE ④ position, and the glass and shade will move.
5. Release the moonroof switch. Then the moonroof and sunshade will fully open and then fully close.
6. Check if the moonroof switch operates normally.

⚠ WARNING

The driver is always responsible for operating the moonroof properly, including the operation by all passengers. Failure to follow the warnings and instructions for proper use of the moonroof could result in serious injury or death.

- **Do not allow children to operate the moonroof. Improper operation by children may cause an accident. If children or others get caught in the moonroof, it could cause serious injury.**
- **To help avoid risk of injury or death through unintended operation of the moonroof, place the ignition switch in the OFF position when leaving the vehicle, and do not leave children and the Intelligent Key inside the vehicle.**
- **Do not activate the auto-reverse function intentionally. If hands or face, etc. get caught in the moonroof, it could cause serious injury.**

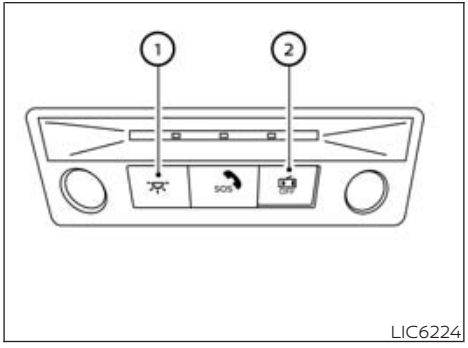
⚠CAUTION

- **Do not place objects (such as newspapers, handkerchiefs, etc.) on the sunshade when it is extending or retracting causing improper operation or damage to the sunshade.**
- **Do not push the sunshade arm with your hands, etc., as this may deform it. Improper operation or damage to the sunshade may result.**
- **Do not put any object into the sunshade inlet port as this may result in improper operation or damage the sunshade.**
- **Do not hang any object on the arm rail as this may result in improper operation or damage the sunshade.**
- **Do not forcefully pull the sunshade. Doing so may elongate the sunshade. Improper operation or damage to the sunshade may result.**

If the moonroof does not operate properly after performing the procedure above, have your vehicle checked by a NISSAN dealer.

INTERIOR LIGHTS

BASIC INFORMATION



LIC6224

The interior light will automatically turn on and stay on for a period of time when:

- The doors are unlocked by the key, or the power door lock switch while all doors are closed and the ignition switch is placed in the OFF position.
- The driver's door is opened and then closed while the ignition switch is placed in the OFF position.
- The ignition switch is placed in the OFF position while all doors are closed.

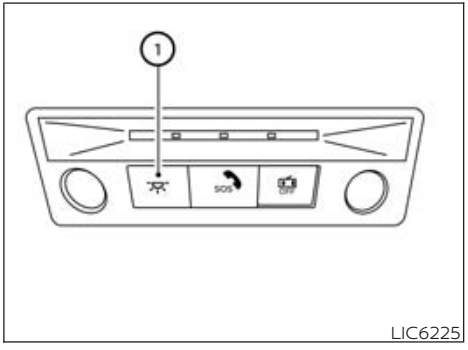
When the ON switch ① is pushed, the interior lights illuminate.

When the DOOR/OFF switch ② is pushed, the interior lights do not illuminate unless individually pushed.

⚠CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

MAP LIGHTS



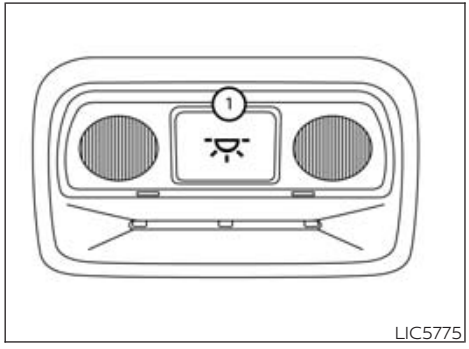
LIC6225

To turn the map lights on, push the switch ①. To turn them off, push the switch ① again.

⚠CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

PERSONAL LIGHT (if so equipped)



Center personal light

To turn on the personal light, push and release the switch ①.

To turn off the personal light, push and release the switch ①.

For information regarding the interior light bulb replacement, see "Exterior and interior lights" (P. 452).

⚠CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

LUGGAGE COMPARTMENT LIGHT

The light illuminates when the rear hatch is opened. When the rear hatch is closed, the light goes off. For additional information, see "Exterior and interior lights" (P. 452).

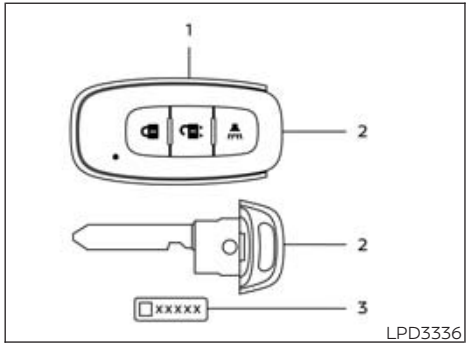
3 Pre-driving checks and adjustments

Keys . . . 158
NISSAN Intelligent Key® . . . 158
NISSAN Vehicle Immobilizer System keys . . . 159
Doors . . . 160
Basic Information . . . 160
Locking with key . . . 160
Locking with inside lock knob . . . 160
Locking with power door lock switch . . . 161
Automatic door locks . . . 161
Child safety rear door lock . . . 161
NISSAN Intelligent Key® system . . . 162
Basic Information . . . 162
Operating range . . . 163
Door locks/unlocks precaution . . . 163
NISSAN Intelligent Key® Operation . . . 164
How to use the remote keyless entry function . . . 167
Approach unlock function (if so equipped) . . . 170
Walk away lock function (if so equipped) . . . 170
Setting memory function . . . 170
Warning signals . . . 170
Troubleshooting guide . . . 170
Remote Engine Start (if so equipped) . . . 172
Basic Information . . . 172
Remote Engine Start operating range . . . 172
Remote starting the vehicle . . . 172
Canceling a Remote Engine Start . . . 173
Conditions the Remote Engine Start will not work . . . 173
Hood . . . 174
Liftgate . . . 174
Basic Information . . . 174
Opening the liftgate . . . 175
Closing the liftgate . . . 175
Secondary liftgate unlock . . . 176
Fuel-filler door . . . 176
Opening the fuel-filler door . . . 176
How to refuel . . . 177
When refueling from a portable fuel container . . . 178
Steering wheel . . . 179
Basic Information . . . 179
Tilt and telescopic operation . . . 179
Sun visors . . . 179
Basic Information . . . 179
Vanity mirrors . . . 180
Card holder . . . 180
Mirrors . . . 180
Manual anti-glare rearview mirror (if so equipped) . . . 180
Automatic anti-glare rearview mirror (if so equipped) . . . 181
Outside mirrors . . . 181

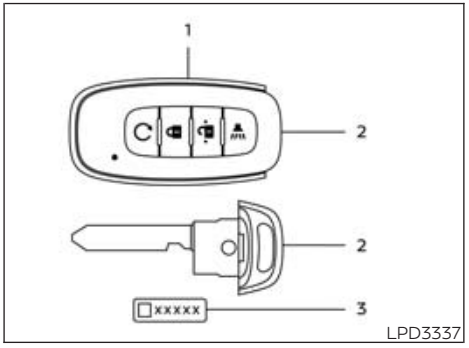
KEYS

NISSAN INTELLIGENT KEY®

Basic Information



Type A (if so equipped)



Type B (if so equipped)

1. Intelligent Keys (two sets)
2. Mechanical key
3. Key number plate (one plate)

Your vehicle can only be driven with the Intelligent Keys which are registered to your vehicle's Intelligent Key System components.

Never leave the keys in the vehicle.

As many as four Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by a NISSAN dealer prior to use with the Intelligent Key System of your vehicle. Since the registration process requires erasing all memory in the Intelligent Key components when registering new keys, be sure to take all Intelligent Keys that you have to the NISSAN dealer.

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, it is recommended that you visit a NISSAN dealer for duplicates by using the key number. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

A key number is only necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, it can be duplicated without knowing the key number.

⚠CAUTION

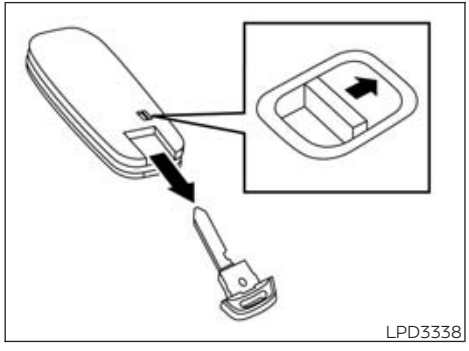
Listed below are conditions or occurrences which will damage the Intelligent Key:

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **Do not place the Intelligent Key for an extended period in a place where temperatures exceed 140°F (60°C).**

- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key from the vehicle. This may prevent the unauthorized use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, it is recommended that you visit a NISSAN dealer.

Mechanical key


LPD3338

The Intelligent Key contains the mechanical key.

To remove the mechanical key, release the lock knob on the back of the Intelligent Key.

To install the mechanical key, firmly insert it into the Intelligent Key until the lock knob returns to the lock position.

Use the mechanical key to lock or unlock the driver's door.

For additional information, see "Doors" (P. 160).

⚠CAUTION

Always carry the mechanical key installed in the Intelligent Key slot.

NISSAN VEHICLE IMMOBILIZER SYSTEM KEYS

Additional or replacement keys:

If you still have a key, the key number is not necessary when you need extra NISSAN Vehicle Immobilizer System keys. Your existing key can be duplicated without knowing the key number. As many as four NISSAN Vehicle Immobilizer System keys can be used with one vehicle. You should bring all NISSAN Vehicle Immobilizer System keys that you have to the NISSAN dealer for registration. This is because the registration process will erase the memory of all key codes previously registered into the NISSAN Vehicle Immobilizer System. After the registration process, these components will only recognize keys coded into the NISSAN Vehicle Immobilizer System during registration. Any virtual key accessories (if so equipped) will also have to be reregistered. Any key that is not given to the dealer at the time of registration will no longer be able to start your vehicle.

⚠CAUTION

Do not allow the immobilizer system key, which contains an electrical transponder, to come into contact with water or salt water. This could affect system function.

DOORS

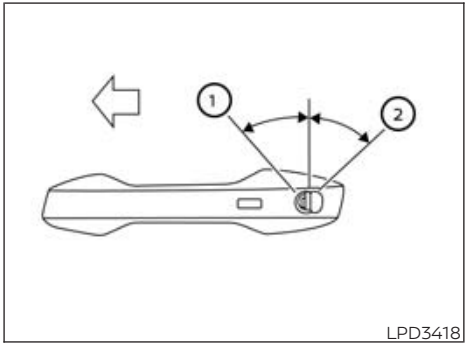
BASIC INFORMATION

When the doors are locked using one of the following methods, the doors cannot be opened using the inside or outside door handles. The doors must be unlocked to open the doors.

⚠ WARNING

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **Before opening any door, always look for and avoid oncoming traffic.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

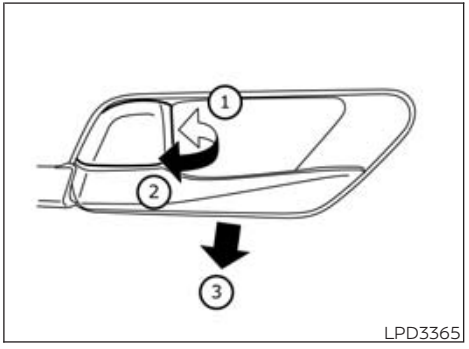
LOCKING WITH KEY



Driver's side

To lock the driver's door, turn the key toward the rear of the vehicle ②. To unlock, turn it toward the front ①

LOCKING WITH INSIDE LOCK KNOB



Inside lock

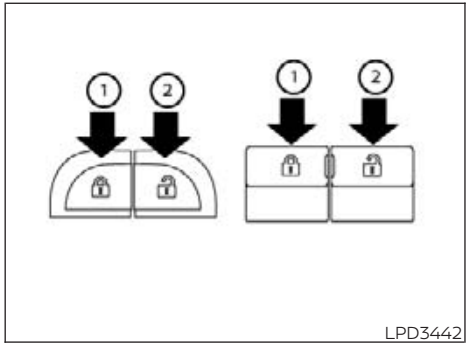
To lock the door without the key, move the inside lock knob to the lock position ①, then close the door.

To unlock the door without the key, move the inside lock knob to the unlock position ②.

To unlock or open the front doors without using the lock knob, pull once on the door handle ③ to unlock it, and again to open it.

LOCKING WITH POWER DOOR LOCK SWITCH

Basic Information



LPD3442

To lock all the doors without a key, push the door lock switch (driver's or front passenger's side) to the lock position ①. When locking the door this way, be certain not to leave the key inside the vehicle.

To unlock all the doors without a key, push the door lock switch (driver's or front passenger's side) to the unlock position ②.

Lockout protection

When any door is open and the power door lock switch is moved to the lock position, all doors will lock. If the Intelligent Key is left in the vehicle after all the doors are locked and closed, all doors will unlock automatically and a chime will sound.

These functions help to prevent the Intelligent Key from being accidentally locked inside the vehicle.

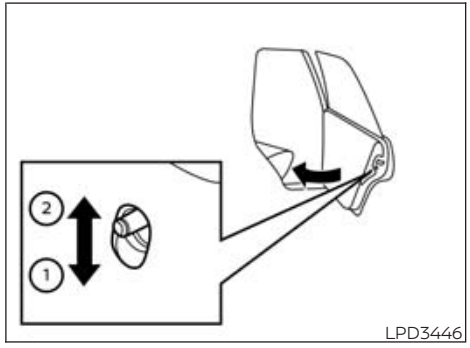
AUTOMATIC DOOR LOCKS

- All doors lock automatically when the vehicle speed reaches 15 mph (24 km/h).
- All doors unlock automatically when the transmission is placed in the P (Park) position or when the ignition switch is placed in the OFF position depending on the option selected in the "Vehicle Settings" menu.

NOTE:

The Auto Door Unlock function can be changed using "Vehicle Settings" of the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

CHILD SAFETY REAR DOOR LOCK



LPD3446

Child safety locks help prevent the rear doors from being opened accidentally, especially when small children are in the vehicle.

The child safety lock levers are located on the edge of the rear doors.

When the lever is in the unlock position ②, the door can be opened from the outside or the inside.

When the lever is in the LOCK position ①, the door can be opened only from the outside.

NISSAN INTELLIGENT KEY® SYSTEM

BASIC INFORMATION

⚠ WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The Intelligent Key transmits radio waves when the buttons are pressed. The FAA advises the radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored for a flight.**
- **Before leaving the vehicle, engage the P (Park) position and check that the electronic parking brake warning light is illuminated to confirm that the electronic parking brake is applied. The electronic parking brake warning light will remain on for a period of time after the driver's door is locked**
- **Make sure to engage the P (Park) position and apply the parking brake when parking the vehicle, entering or exiting the vehicle or loading luggage. Failure to do so could cause the vehicle to move or roll away unexpectedly and result in serious personal injury or property damage.**

The Intelligent Key can operate all the door locks using the remote control function or pushing the request switch (if so equipped) on the vehicle without taking the key out from a pocket or purse. The operating environment and/or conditions may affect the Intelligent Key operation.

Be sure to read the following before using the Intelligent Key.

⚠ CAUTION

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key in the vehicle when you leave the vehicle.**

The Intelligent Key is always communicating with the vehicle as it receives radio waves. The Intelligent Key transmits weak radio waves. Environmental conditions may interfere with the operation of the Intelligent Key under the following operating conditions:

- When operating near a location where strong radio waves are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular telephone, transceiver, or a CB radio.
- When the Intelligent Key is in contact with or covered by metallic materials.
- When any type of radio wave remote control is used nearby.
- When the Intelligent Key is placed near an electric appliance such as a personal computer.
- When the vehicle is parked near a parking meter.

In such cases, correct the operating conditions before using the Intelligent Key function or use the mechanical key.

Although the life of the battery varies depending on the operating conditions, the battery's life is approximately two years. If the battery is discharged, replace it with a new one.

Since the Intelligent Key is continuously receiving radio waves, if the key is left near equipment which transmits strong radio waves, such as signals from a TV and personal computer, the battery life may become shorter.

When the battery is discharged, firmly apply the foot brake and touch the ignition switch with the Intelligent Key. Then push the ignition switch while depressing the brake pedal within 10 seconds after the chime sound. For additional information, see "Push-button ignition switch" (P. 236).

For additional information, see "Intelligent Key battery replacement" (P. 449).

As many as four Intelligent Keys can be registered and used with one vehicle. For information about the purchase and use of additional Intelligent Keys, it is recommended that you visit a NISSAN dealer.

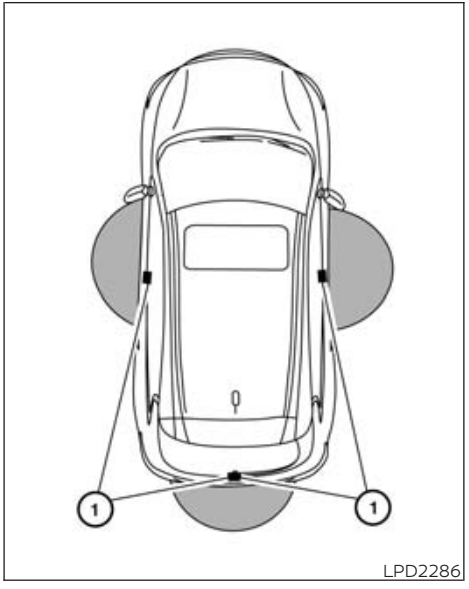
⚠CAUTION

Listed below are conditions or occurrences which will damage the Intelligent Key:

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key from the vehicle. This may prevent the unauthorized use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, it is recommended that you visit a NISSAN dealer.

OPERATING RANGE



LPD2286

The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range from the request switch (if so equipped) ①.

When the Intelligent Key battery is discharged or strong radio waves are present near the operating location, the Intelligent Key operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 31.5 in (80 cm) from each request switch (if so equipped) ①.

If the Intelligent Key is too close to the door glass, handle or rear bumper, the request switches (if so equipped) may not function.

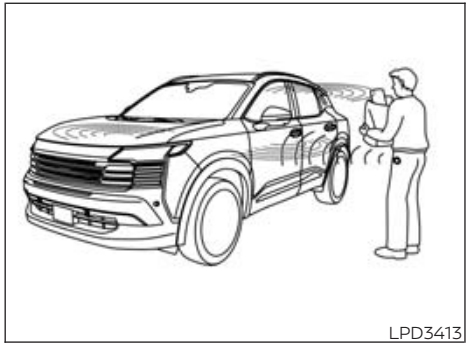
When the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to push the request switch (if so equipped) to lock/unlock the doors.

DOOR LOCKS/UNLOCKS PRECAUTION

- After locking with the door handle request switch (if so equipped), verify the doors are securely locked by testing them.
- To prevent the Intelligent Key from being left inside the vehicle, make sure you carry the Intelligent Key with you and then lock the doors.
- Do not pull the door handle before pushing the door handle request switch (if so equipped). The door will be unlocked but will not open. Release the door handle once and pull it again to open the door.

NISSAN INTELLIGENT KEY® OPERATION

Basic Information

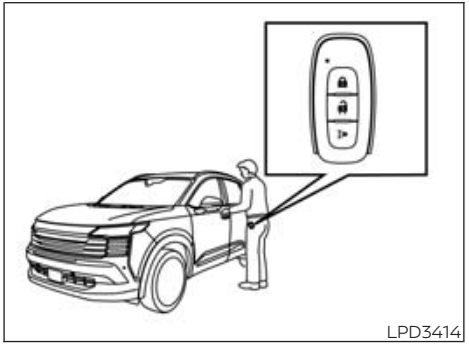

LPD3413

You can lock or unlock the doors without taking the Intelligent Key out of your pocket or bag.

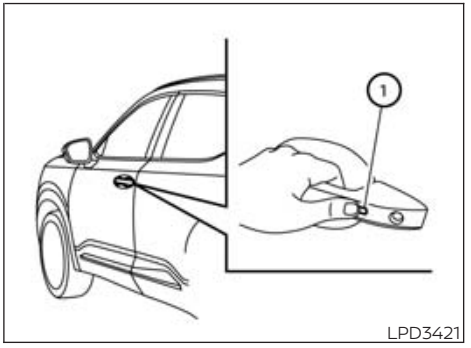
When you carry the Intelligent Key with you, you can lock or unlock all doors by pushing the door handle request switch (if so equipped) within the range of operation.

Locking doors

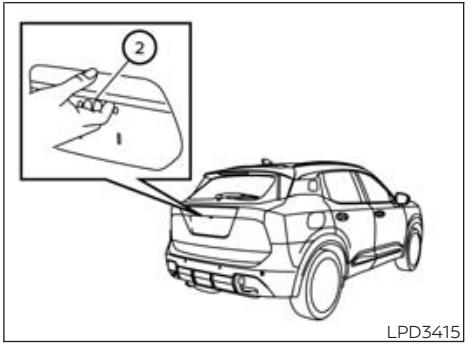
Basic Information


LPD3414

1. Move the shift lever to the P (Park) position, place the ignition switch in the LOCK position and make sure you carry the Intelligent Key with you.
2. Close all doors.



LPD3421



LPD3415

3. Push the door handle request switch (if so equipped) ① or the liftgate request switch (if so equipped) ②.
4. All doors and the rear liftgate will lock.
5. The hazard indicator lights flash twice and a chime sounds twice.

NOTE:

- **Request switches (if so equipped) for all doors and liftgate can be deactivated when the "Ext. Door Switch" setting is switched to OFF in the "Vehicle Settings" of the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).**
- **Doors do not lock by pushing the door handle request switch (if so equipped) while any door is open. However, doors lock with the mechanical key even if any door is open.**
- **Doors do not lock with the door handle request switch (if so equipped) with the Intelligent Key inside the vehicle and a beep sounds to warn you. However, when an Intelligent Key is inside the vehicle, doors can be locked with another Intelligent Key.**

⚠ WARNING

After locking the doors using the request switch (if so equipped), make sure that the doors have been securely locked by operating the door handles. Failure to follow these instructions may result in inadvertently unlocking the doors, which may decrease the safety and security of your vehicle.

⚠ CAUTION

- **When locking the doors using the request switch (if so equipped), make sure to have the Intelligent Key in your possession before operating the request switch (if so equipped) to prevent the Intelligent Key from being left in the vehicle.**
- **The request switch (if so equipped) is operational only when the Intelligent Key has been detected by the Intelligent Key system.**

Lockout protection

To prevent the Intelligent Key from being accidentally locked in the vehicle, lockout protection is equipped with the Intelligent Key system.

When any door is open, the doors are locked, and then the Intelligent Key is put inside the vehicle and all the doors are closed, a chime will sound and the lock will automatically unlock. However, if an Intelligent Key is inside the vehicle with all the doors closed, the doors can be locked with another Intelligent Key.

NOTE:

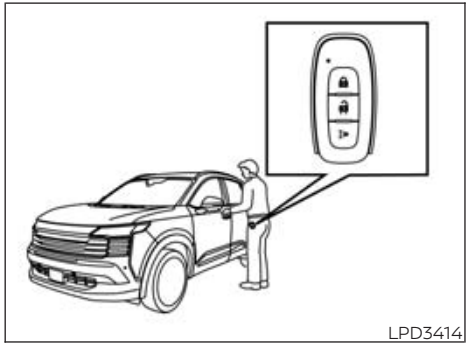
The doors may not lock when the Intelligent Key is in the same hand that is operating the request switch (if so equipped) to lock the door. Put the Intelligent Key in a purse, pocket or your other hand.

⚠ CAUTION

The lockout protection may not function under the following conditions:

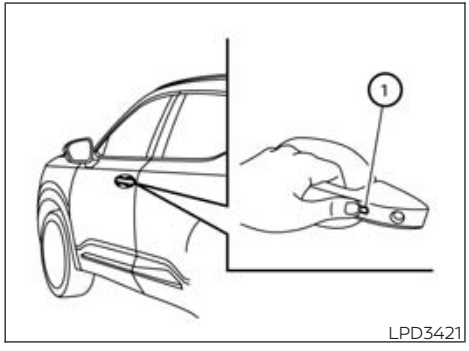
- **When the Intelligent Key is placed on top of the instrument panel.**
- **When the Intelligent Key is placed inside the glove box or a storage bin.**
- **When the Intelligent Key is placed inside the door pockets.**
- **When the Intelligent Key is placed inside or near metallic materials.**
- **When the Intelligent Key is placed on or under the spare tire area.**
- **When the Intelligent Key is placed inside the pockets luggage trunk.**
- **When the Intelligent Key Battery's discharged.**

Unlocking doors


LPD3414

Unlocking from doors:

1. Carry the Intelligent Key.



LPD3421

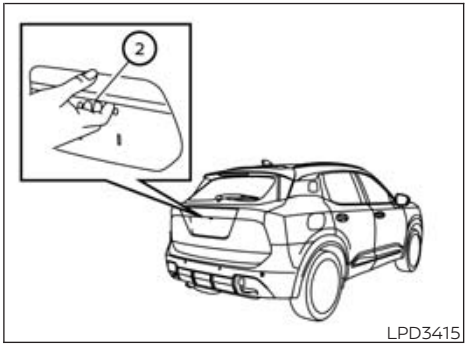
2. Push the door handle request switch (if so equipped) ①.
   - When unlocking from the driver's door handle, the driver's door will unlock.
   - To unlock all doors, push the door handle request switch (if so equipped) ① again within 60 seconds.
   - When unlocking from the front passenger door, all vehicle doors will unlock.
   - To allow driver and passenger doors to unlock at the same time from driver's door handle, turn off the Selective Unlock feature in the vehicle settings menu of the vehicle information display. For additional information, see "Vehicle Settings" (P. 91) or "Vehicle Settings" (P. 110).
3. The hazard indicator lights flash once and the outside chime sounds once.

NOTE:

In case selective unlock is activated in the vehicle, the function Approach unlock is not available; otherwise if Approach unlock is activated in the vehicle, selective unlock is not available.

Unlocking from liftgate:

1. Carry the Intelligent Key.



LPD3415

2. Push the liftgate request switch (if so equipped) ②, the liftgate will unlock. Push the liftgate request switch ② again within 60 seconds to unlock all doors.
3. The hazard indicator lights flash once and the outside chime sounds once.

NOTE:

Request switches (if so equipped) for all doors and liftgate can be deactivated when the "Ext. Door Switch" setting is switched to OFF in "Vehicle Settings" of the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

If a door handle is pulled while unlocking the doors, that door may not be unlocked. Returning the door handle to its original position will unlock the door. If the door does not unlock after returning the door handle, push the door

handle request switch (if so equipped) to unlock the door.

All doors and the liftgate will be locked automatically unless one of the following operations is performed within 60 seconds after pushing the request switch (if so equipped).

- Opening any doors or the liftgate.
- Pushing the ignition switch.

Using the interior lights

The interior lights illuminate for a period of time when a door is unlocked and the interior light switch is in the DOOR position.

The lights can be turned off without waiting by performing one of the following operations:

- Placing the ignition switch in the ON position.
- Locking the doors with the Intelligent Key.
- Switching the interior lights switch to the OFF position.

For additional information, see "Interior lights" (P. 155).

HOW TO USE THE REMOTE KEYLESS ENTRY FUNCTION

Basic Information

The remote keyless entry function can operate all door locks using the remote keyless function of the Intelligent Key. The remote keyless function can operate at a distance of 33 ft (10 m) away from the vehicle. The operating distance depends upon the conditions around the vehicle.

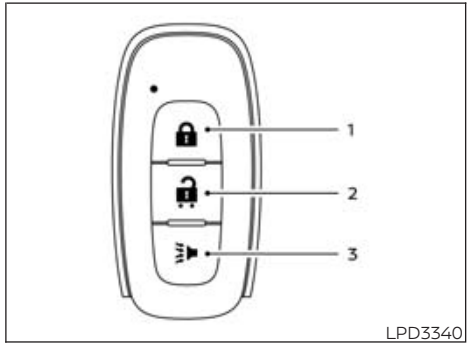
The remote keyless entry function will not function under the following conditions:

- When the Intelligent Key is not within the operational range.
- When the Intelligent Key battery is discharged.
- The doors or the liftgate are open or not closed securely.

⚠CAUTION

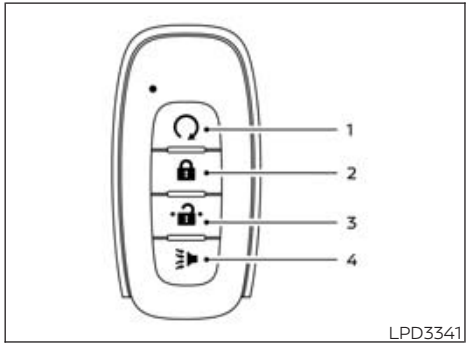
When locking the doors using the Intelligent Key, be sure not to leave the key in the vehicle.

Type A (if so equipped)



1. (lock) button
2. (unlock) button
3. (panic) button

Type B (if so equipped)



1. (remote engine start) button
2. (lock) button
3. (unlock) button
4. (panic) button

Locking doors

1. Place the ignition switch in the LOCK position.
2. Close all doors.
3. Press the button on the Intelligent Key.
4. The hazard indicator lights flash twice and the horn beeps once.
5. All doors will be locked.

WARNING

After locking the doors using the Intelligent Key, be sure that the doors have been securely locked by operating the door handles. Failure to follow these instructions may result in inadvertently unlocking the doors, which may decrease the safety and security of your vehicle.

Unlocking doors

1. Press the button on the Intelligent Key to unlock the driver's door.
2. The hazard indicator lights flash once and the driver's door and will unlock.
3. Press the button again within 60 seconds (1 minute) to unlock all doors and liftgate.

NOTE:

If Selective Unlock is turned off in "Vehicle Settings" of the vehicle information display, all doors will unlock upon the first press of the key fob. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

All doors and the liftgate will be locked automatically unless one of the following operations is performed within 1 minute after pressing the button.

- Opening any doors or the liftgate.
- Engaging the ignition switch from the lock position.

Using the interior lights

The interior lights illuminate for a period of time when a door is unlocked and the interior light switch is in the DOOR position.

The lights can be turned off without waiting by performing one of the following operations:

- Placing the ignition switch in the ON position.
- Locking the doors with the Intelligent Key.
- Switching the interior lights switch to the OFF position.

For additional information, see "Interior lights" (P. 155).

Opening window(s) (if so equipped)

The Intelligent Key allows you to simultaneously open the window(s) equipped with automatic operation.

All doors must be closed and the key must be outside the vehicle.

To open the window(s) equipped with automatic operation, press and hold the button on the Intelligent Key for **longer than 3 seconds** after all doors are unlocked.

The door window(s) equipped with automatic operation will open while pressing the button on the Intelligent Key.

To interrupt opening of the window(s) equipped with automatic operation, release the button.

- The Intelligent Key cannot close any window.
- All doors will be unlocked by the operation.

Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention by pressing and holding the button on the Intelligent Key for **longer than 0.5 seconds (half a second).**

The headlights will flash and the panic alarm will stay on for a period of time.

The panic alarm stops when:

- It has run for a period of time.
- Any button is pressed on the Intelligent Key.
- The request switch (if so equipped) on the driver or passenger door is pushed and the Intelligent Key is in range of the door handle.
- The liftgate request switch (if so equipped) is pushed with the Intelligent Key in range of the liftgate area.

Horn beeps on lock feature

If desired, the Horn beeps on lock feature can be deactivated using the Intelligent Key. When it is deactivated and the button is pressed, the hazard indicator lights flash twice. When the button is pressed, neither the hazard indicator lights nor the horn operates.

NOTE:

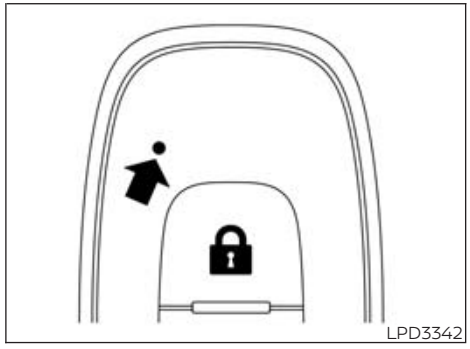
If you change the Horn beeps on lock and light flash feature with the Intelligent Key, the vehicle information display will show the current mode after the ignition switch has been cycled from the OFF to the ON position. The vehicle information display screen can also be used to change the horn beeps on lock mode.
For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

To deactivate:
Press and hold the and buttons **for at least 4 seconds.** The hazard indicator lights will flash once to confirm that the Horn beeps on lock feature has been deactivated.

To activate:
Press and hold the and buttons **for at least 4 seconds once more.** The hazard indicator lights will flash three times and the horn will sound once to confirm that the Horn beeps on lock feature has been reactivated.

Deactivating the horn beep feature does not silence the horn if the alarm is triggered.

Intelligent Key button operation light



The light blinks only when you press any button on the Intelligent Key. The light illumination only signifies that the key fob has transmitted a signal. You may look and/or listen to verify that the vehicle has performed the intended operation.

If the light does not blink, your battery may be too weak to communicate to the vehicle. If this occurs, the battery may need to be replaced. For additional information regarding the replacement of a battery, see "Intelligent Key battery replacement" (P. 449).

APPROACH UNLOCK FUNCTION (if so equipped)

When you approach the vehicle with the Intelligent Key, the vehicle will be unlocked automatically by the approach unlock function. This function is disabled by the default setting. You can enable this function by the vehicle information display. For additional information, see "Vehicle Settings" (P. 91) or "Vehicle Settings" (P. 110).

NOTE:

When the Approach unlock function is enabled in the vehicle information display, the Selective Unlock feature will be automatically disabled.

WALK AWAY LOCK FUNCTION (if so equipped)

When you walk away from the vehicle with the Intelligent Key, the vehicle will be locked automatically by the walk-away lock function. This function is disabled by the default setting. You can enable this function by the vehicle information display. For additional information, see "Vehicle Settings" (P. 91) or "Vehicle Settings" (P. 110).

NOTE:

- **When the doors are locked by the walk away lock function, the hazard indicator flash twice. Be sure to confirm the door locks before you leave the vehicle.**
- **The walk-away lock function may not operate under the following conditions:**
  - **When the door(s) and/or the liftgate are not closed securely.**
  - **When the engine is running.**
  - **When the Intelligent Key is placed inside of the vehicle.**
  - **When you place the Intelligent Key outside of the vehicle for a period of time. (When a door is opened and closed, the walk-away lock function will be activated.)**

SETTING MEMORY FUNCTION

The position of the following settings can be linked to the Intelligent Key and the memorized settings can be available for each Intelligent Key.

- Climate control system
- Audio system

To use the memory function, lock the doors with the Intelligent Key that is linked to the settings.

To engage the memorized settings, perform the following:

1. Carry the Intelligent Key that is linked to the memorized settings and unlock the doors by pushing the door request switch or pressing the button on the Intelligent Key.
2. Place the ignition switch in the ON position. The memorized settings are available.

For additional information on using the climate control system, see "Heater and air conditioner (automatic) (Type B)" (P. 217).

WARNING SIGNALS

To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key or to help prevent the vehicle from being stolen, a chime or buzzer sounds from inside and outside the vehicle and a warning is displayed in the instrument panel.

When a chime or beep sounds or a warning is displayed, be sure to check the vehicle and the Intelligent Key.

For additional information, see "Troubleshooting guide" (P. 170) and "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

TROUBLESHOOTING GUIDE

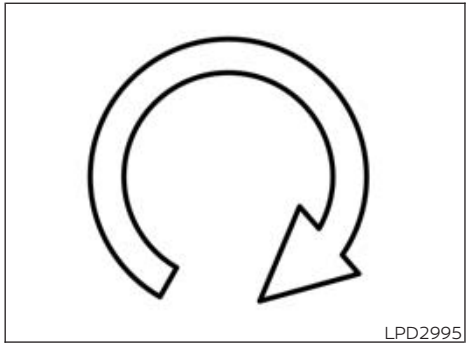
Verify the location of all Intelligent Keys that are programmed for the vehicle. If another Intelligent Key is in range or inside the vehicle, the vehicle system may respond differently than expected.

- **When pushing the ignition switch to stop the engine, the Shift to Park warning appears on the display and the inside warning chime sounds continuously.**
  - The shift lever is not in the P (Park) position with the parking brake fully applied.
  - Move the shift lever to the P (Park) position.

- **When pushing the door handle request switch (if so equipped) to lock the door, the outside chime sounds for approximately a few seconds.**
  - The Intelligent Key may be inside the vehicle, or a door may not be closed securely.
  - Be sure to carry the Intelligent Key with you, or close the door securely.
- **When opening the driver's door to get out of the vehicle, the Door/liftgate Open warning appears on the display and the inside warning chime sounds continuously.**
  - The ignition switch may be in the ON position.
  - Place the ignition switch in the OFF position.
- **When closing the doors after getting out of the vehicle, the No Key Detected warning appears on the display, the outside chime sounds three times and the inside warning chime sounds for approximately 3 seconds.**
  - The ignition switch may be in the ON position.
  - Place the ignition switch in the OFF position.
- **When opening the driver's door after the engine has stopped, The Check Rear Seat indicator appears on the display, then the horn sounds six times.**
  - The Rear Door Alert "Horn & Alert" setting (if so equipped) is selected. Check the rear seat for occupants or items, clear the Rear Door Alert message by using the steering wheel switches.
- **When closing the doors after getting out of the vehicle, the Shift to Park warning appears on the display and the outside chime sounds continuously.**
  - The ignition switch may be in the ACC position and the shift lever is not in the P (Park) position.
  - Move the shift lever to the P (Park) position and place the ignition switch in the OFF position.
- **When closing the door with the inside lock knob turned to LOCK, the outside chime sounds for approximately 3 seconds and all doors unlock.**
  - The Intelligent Key may be inside the vehicle.
  - Be sure to carry the Intelligent Key with you.
- **When pushing the ignition switch to start the engine, the Key Battery Low warning appears on the display.**
  - The battery charge may be low.
  - Replace the battery with a new one. For additional information, see "Intelligent Key battery replacement" (P. 449)
- **When pushing the ignition switch to start the engine, the Key System Error: See Owner's Manual warning appears in the vehicle information display.**
  - It warns of a malfunction with the Intelligent Key system.
  - It is recommended that you visit a NISSAN dealer.
- **When the engine is running and the door closed, the No Key Detected warning appears on the display, the outside chime sounds three times and the inside warning chime sounds for approximately 3 seconds.**
  - The Intelligent Key may not be inside the vehicle.
  - Carry the Intelligent Key with you.
- **When pressing the on the Intelligent Key to lock the door, the outside chime sounds for a few seconds and all the doors unlock.**
  - The Intelligent Key may be inside the vehicle or trunk (if so equipped). Be sure to carry the Intelligent Key with you.
- **When pressing the on the Intelligent Key to lock the door, the outside chime sounds for a few seconds and all the doors unlock.**
  - A door may not be closed securely. Close the door securely.

REMOTE ENGINE START (if so equipped)

BASIC INFORMATION


LPD2995

The button will be on the NISSAN Intelligent Key® if the vehicle has Remote Engine Start. This feature allows the engine to start from outside the vehicle.

Vehicles with a manual climate control system (if so equipped) will default to the last used heating or cooling mode.

Vehicles with an automatic climate control system (if so equipped) may default to either heating or cooling mode depending on outside and cabin temperatures. For additional information, see "Remote Engine Start with Intelligent Climate Control" (P. 215).

Laws in some local communities may restrict or prohibit the use of Remote Engine Start, or the amount of time a parked vehicle engine may idle. For example, some laws require a person using Remote Engine Start to have the vehicle in view or may restrict idling time except in freezing temperatures. Check local regulations for any requirements.

Other conditions may affect the function of the Remote Engine Start feature. For additional information, see "Conditions the Remote Engine Start will not work" (P. 173).

Other conditions can affect the performance of the Intelligent Key transmitter. For additional information, see "NISSAN Intelligent Key® system" (P. 162).

REMOTE ENGINE START OPERATING RANGE

⚠WARNING

- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Do not use Remote Engine Start in closed spaces such as a garage. Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**

⚠CAUTION

When the Intelligent Key battery is discharged or other strong radio wave sources are present near the operating location, the Intelligent Key operating range becomes narrower, and the Intelligent Key may not function properly.

The Remote Engine Start function can only be used when the Intelligent Key is within the specified operating range from the vehicle.

The Remote Engine Start operating range is approximately 197 ft (60 m) from the vehicle.

REMOTE STARTING THE VEHICLE

To use the Remote Engine Start feature perform the following:

1. Aim the Intelligent Key at the vehicle.
2. Press the button to lock all doors.
3. Within 5 seconds press and hold the button until the turn signal lights flash and the tail lamps turn on. If the vehicle is not within view press and hold the button for at least 2 seconds.

The following events will occur when the engine starts:

- The parking lights will turn on and remain on as long as the engine is running.
- The doors will be locked and the climate control system may come on.
- The engine will continue to run for about 20 minutes.

Press and hold the brake pedal while switching the ignition to the ON position before driving. For additional information, see "Driving the vehicle" (P. 241).

The vehicle needs to be driven at speeds of 4 mph (7 km/h) before the remote engine start can be used again.

CANCELING A REMOTE ENGINE START

To cancel a Remote Engine Start, perform one of the following:

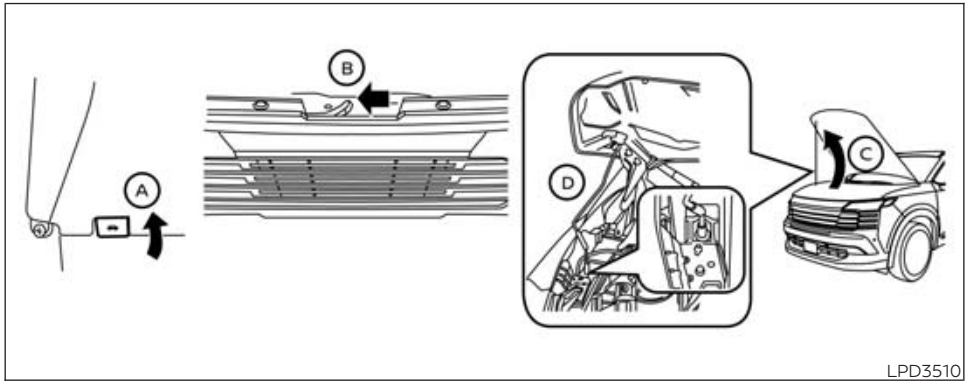
- Aim the Intelligent Key at the vehicle and press button until the parking lights turn off.
- Turn on the hazard indicator flashers.
- Cycle the ignition switch on and then off.
- The 20 minute timer has expired.
- The engine hood has been opened.
- The vehicle is shifted out of P (Park) position.
- The alarm sounds due to illegal entry into the vehicle.
- The ignition switch is pushed without an Intelligent Key in the vehicle.
- The ignition switch is pushed with an Intelligent Key in the vehicle but the brake pedal is not depressed.
- The accelerator is depressed.
- The vehicle moves after a remote engine start. (The hazard indicator flashers blink once and the engine is stopped.)

CONDITIONS THE REMOTE ENGINE START WILL NOT WORK

The Remote Engine Start will not operate if any of the following conditions are present:

- The ignition switch is placed in the ON position.
- The hood is not securely closed.
- The hazard indicator flashers are on.
- The engine is still running. The engine must be completely stopped.
- The remote engine start button is not pressed and held for at least 2 seconds.
- The remote engine start button is not pressed and held within 5 seconds of pressing the lock button.
- The doors are not closed and locked. (The hazard indicator flashers blink twice to indicate the function is not operated.)
- The liftgate is open. (The hazard indicator flashers blink twice to indicate the function is not operated.)
- The Key System Error warning message remains on in the vehicle information display.
- The theft alarm sounds due to illegal entry into the vehicle. (The hazard indicator flashers blink twice to indicate the function is not operated.)
- The remote engine start has already been used once. (To use the remote engine start function again, the vehicle needs to be driven at speeds of 4 mph (7 km/h).)
- The shift position is not in P (Park) position.
- The brake is pressed.
- There is a detected registered key already inside of the vehicle.

The Remote Engine Start may display a warning or indicator in the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).



LPD3510

HOOD

1. Pull the hood lock release handle Ⓐ located below the driver side instrument panel. The hood will spring up slightly.
2. Push the lever Ⓑ at the front of the hood to the side as illustrated with your fingertips and raise the hood Ⓒ.
3. Remove the support rod and insert it into the slot Ⓓ.
4. When closing the hood, reset the support rod to its original position.
5. When closing the hood, return the support rod to its original position, lower the hood slowly and drop the hood from the height of 8 to 12 in (20 to 30 cm). This allows proper engagement of the hood latch.

⚠WARNING

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**

LIFTGATE

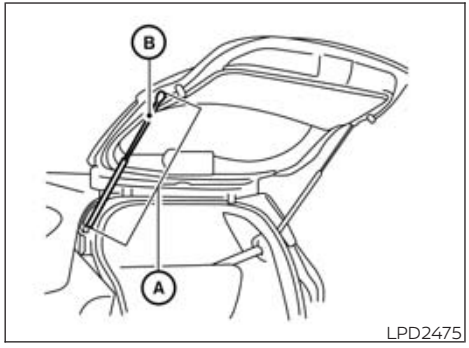
BASIC INFORMATION

⚠WARNING

- **Always be sure the liftgate has been closed securely to prevent it from opening while driving.**
- **Do not drive with the liftgate open. This could allow dangerous exhaust gases to be drawn into the vehicle. For additional information, see "Exhaust gas (carbon monoxide)" (P. 229).**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Always be sure that hands and feet are clear of the door frame to avoid injury while closing the liftgate.**

⚠CAUTION

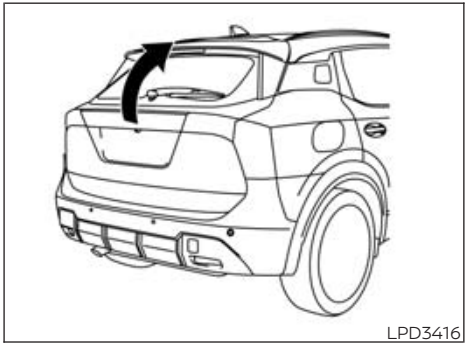
- **Before opening the liftgate, be sure to clear away snow, ice or dust that may be stuck to the liftgate. If the liftgate is opened while materials are still stuck to it, it may suddenly close again due to the weight of these materials.**
- **Always be sure to fully open the liftgate. If it is not fully opened, it may suddenly shut.**
- **Be especially careful when opening the liftgate in strong wind. The door could be caught by a gust of wind and may close suddenly.**



LPD2475

- The liftgate gas stays Ⓐ are installed in order to support the weight of the liftgate. In order to prevent the gas stays being damaged or not operating properly, be sure to observe the following points.
- Do not insert hands or cords into the gas stays Ⓐ or apply any force to them laterally.
- Do not attach any adhesive foreign materials such as pieces of plastic or stickers to the rod Ⓑ portion.
- Do not close the liftgate while holding the gas stays or hang anything on them. Doing so may lead to hands or arms becoming trapped in the liftgate and could result in an injury.

OPENING THE LIFTGATE


LPD3416

To open the liftgate use the following operations:

- Push the liftgate opener switch and pull up on the liftgate.
- Press the button on the Intelligent Key. Then push the liftgate opener switch and pull up on the liftgate.
- With the Intelligent Key in range, push the liftgate request switch (if so equipped) and pull up on the liftgate.

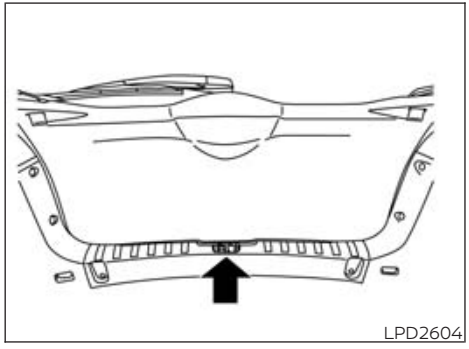
CLOSING THE LIFTGATE

⚠WARNING

- **Do not shut the liftgate with one hand and the other hand remaining on the liftgate or vehicle body. Doing so may lead to your hand becoming trapped and could result in an injury.**
- **When closing the liftgate, do not place your hands near the edge of the liftgate. Always be sure to close the liftgate from the outside.**
- **After closing the liftgate, be sure to check that it has been closed securely. If the liftgate opens while the vehicle is being driven this could result in a serious accident.**

To close the liftgate, pull down until it securely locks.

SECONDARY LIFTGATE UNLOCK

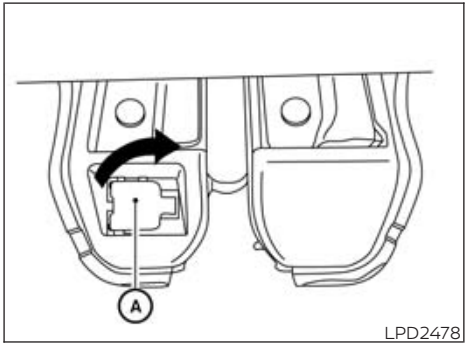

LPD2604

Follow the following steps to unlock the liftgate when the battery is discharged.

NOTE:

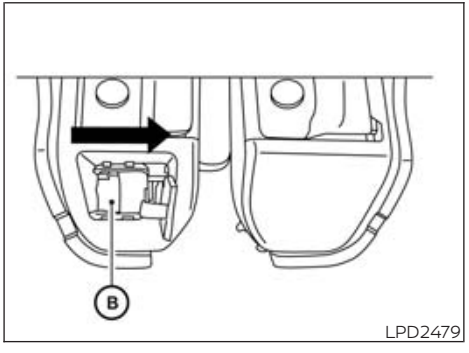
It is recommended that you visit a NISSAN dealer as soon as possible for inspection.

Unlocking the liftgate:



LPD2478

1. Move the cover Ⓐ by using a screwdriver or a similar tool available on hand.

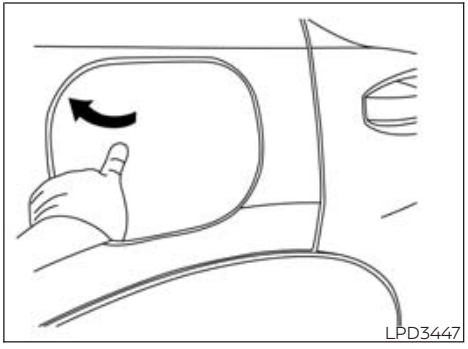


LPD2479

2. Then move the inside lever Ⓑ by using a screwdriver or similar tool available on hand. The liftgate will open.

FUEL-FILLER DOOR

OPENING THE FUEL-FILLER DOOR


LPD3447

To open the fuel-filler door, push the left side of the fuel-filler door to release.

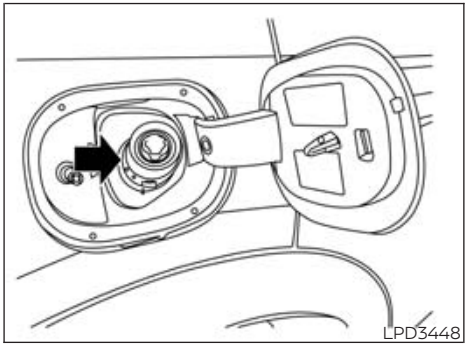
⚠WARNING

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.**

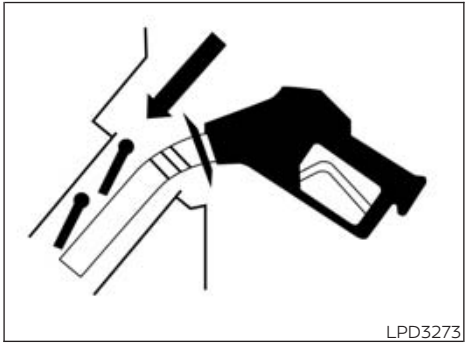
- **Never pour fuel into the throttle body to attempt to start your vehicle.**
- **Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:**
  - **Always place the container on the ground when filling.**
  - **Do not use electronic devices when filling.**
  - **Keep the pump nozzle in contact with the container while you are filling it.**
  - **Use only approved portable fuel containers for flammable liquid.**

⚠CAUTION

- **Do not use E–15 or E-85 fuel in your vehicle. For additional information, see "Fuel recommendation" (P. 488).**
- **For additional information, see "Malfunction Indicator Light (MIL)" (P. 80).**
- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**


LPD3448

HOW TO REFUEL


LPD3273

The fuel tank is not equipped with a fuel filler cap. After opening the fuel-filler door, insert the fuel pump nozzle directly into the fuel-filler opening. When the fuel pump nozzle is pulled out, the fuel filler opening will be sealed.

To refuel:

Be sure to insert the fuel pump nozzle slowly into the fuel-filler opening as far as it will go before fueling.

Never move the nozzle during the refueling.

Pull out the nozzle approximately 5 seconds after the fuel pump nozzle shuts off automatically (initial shut-off).

Close the fuel-filler door after refueling.

If you need to refuel from a portable fuel container, use the funnel supplied with your vehicle. (see "When refueling from a portable fuel container" (P. 178).

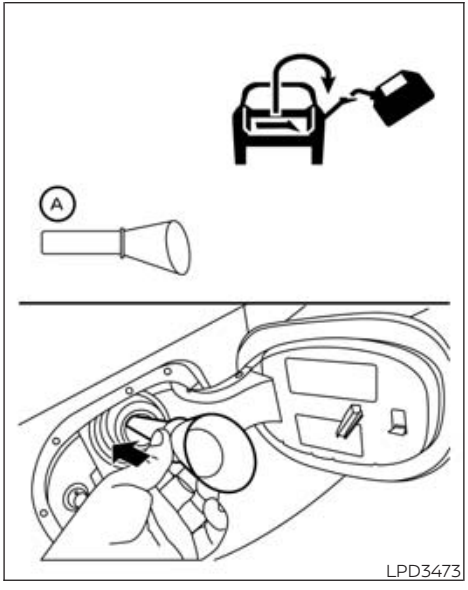
⚠CAUTION

- **Do not attempt to open the flaps on the fuel-filler opening using any tool other than the fuel pump nozzle.**
- **This fuel-filler opening is only conformable to normal fuel pump nozzles at gas stations. Using a nozzle with a small diameter may damage the opening and the fuel system.**
- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**

⚠ WARNING

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.**
- **Never pour fuel into the throttle body to attempt to start your vehicle.**
- **Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:**
  - **Always place the container on the ground when filling.**
  - **Do not use electronic devices when filling.**
  - **Keep the pump nozzle in contact with the container while you are filling it.**
  - **Use only approved portable fuel containers for flammable liquid.**

WHEN REFUELING FROM A PORTABLE FUEL CONTAINER



If you need to refuel from a portable fuel container, use the funnel Ⓐ stored under the luggage board.

Be sure to insert the funnel into the fuel-filler opening slowly and fully. Insert the nozzle of the portable fuel container into the opening along the funnel and fill the fuel tank.

After refueling, remove the funnel from the fuel-filler opening. Wipe the funnel clean and return it under the luggage board.

⚠ CAUTION

- **Do not insert the nozzle of the portable fuel container directly into the fuel-filler opening. Doing so may damage the opening and the fuel system.**
- **Use only the funnel provided with your vehicle. Otherwise the fuel-filler opening and the fuel system may be damaged.**

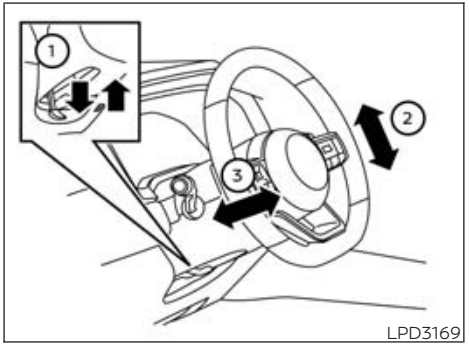
STEERING WHEEL

BASIC INFORMATION

⚠ WARNING

- **Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.**
- **Do not adjust the steering wheel any closer to you than is necessary for proper steering operation and comfort. The driver's air bag inflates with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel. Always use the seat belts.**

TILT AND TELESCOPIC OPERATION



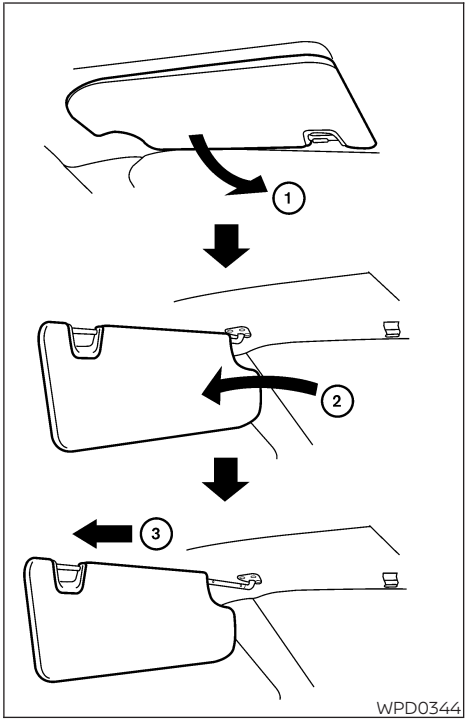
Push the lock lever ① down:

- Adjust the steering wheel up or down in direction ② to the desired position.
- Adjust the steering wheel forward or backward in direction ③ to the desired position.

Pull the lock lever ① up firmly to lock the steering wheel in place.

SUN VISORS

BASIC INFORMATION



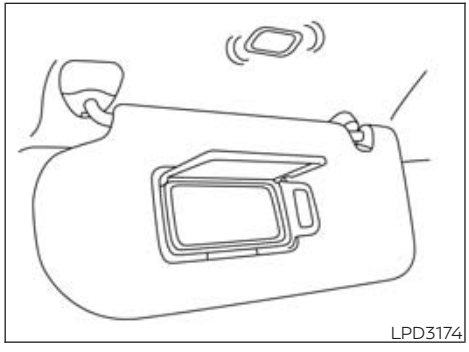
1. To block glare from the front, swing down the sun visor ①.

2. To block glare from the side, remove the sun visor from the center mount and swing the visor to the side ②.
3. Slide the sun visor extension ③ in or out as needed.

⚠CAUTION

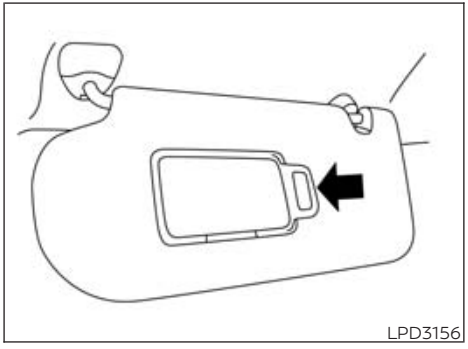
- **Do not store the sun visor before returning the extension to its original position.**
- **Do not pull the extension sun visor forcedly downward.**

VANITY MIRRORS


LPD3174

To access the vanity mirror, pull the sun visor down and flip open the mirror cover. Some vanity mirrors are illuminated and turn on when the mirror cover is open.

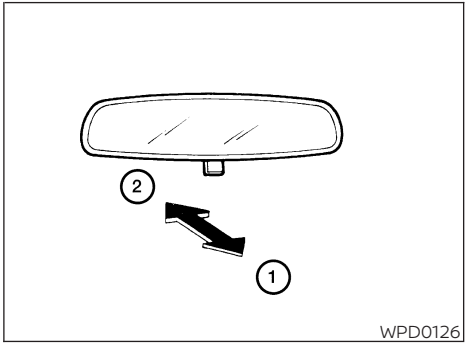
CARD HOLDER


LPD3156

To use the card holder, slide card into the clip. Do not view information while operating the vehicle.

MIRRORS

MANUAL ANTI-GLARE REARVIEW MIRROR (if so equipped)



WPD0126

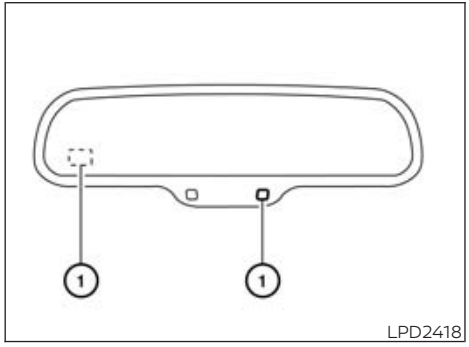
Use the night position ① to reduce glare from the headlights of vehicles behind you at night.

Use the day position ② when driving in daylight hours.

⚠WARNING

Use the night position only when necessary, because it reduces rear view clarity.

AUTOMATIC ANTI-GLARE REARVIEW MIRROR (if so equipped)



LPD2418

The inside mirror is designed so that it automatically dims during night time conditions and according to the intensity of the headlights of the vehicle following you.

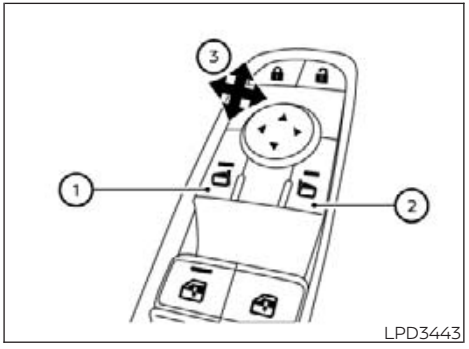
NOTE:

Do not hang any objects over the sensors ① or apply glass cleaner to the sensors. Doing so will reduce the sensitivity of the sensors, resulting in improper operation.

The automatic anti-glare feature is activated when the ignition switch is on the ON position.

OUTSIDE MIRRORS

Basic Information



LPD3443

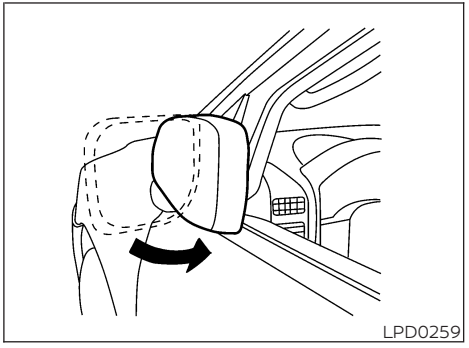
The outside mirror remote control will operate only when the ignition switch is in the ACC or ON position.

Push the switch ① or ② to select the left or right mirror. Adjust each mirror to the desired position using the large switch ③. Push the switch ① or ② and make sure that the corresponding light is off, to prevent accidentally moving the mirror.

⚠WARNING

- **Do not adjust the mirrors while driving. You could lose control of your vehicle and cause an accident.**
- **Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.**

Foldable outside mirrors


LPD0259

Pull the outside mirror toward the door to fold it.

Heated mirrors (if so equipped)

Some outside mirrors can be heated to defrost, defog, or de-ice for improved visibility. For additional information, see "Rear window and outside mirror (if so equipped) defroster switch" (P. 216).

⚠ WARNING

Do not use products which contain the following substances to clean outside mirror glass:

- **Sodium Hydroxide**
- **Potassium Hydroxide**
- **Ammonia**
- **Phosphates**
- **High pH cleaning agents**
- **Hydrofluoric Acid**
- **Phosphoric Acid**
- **Nitric Acid**
- **Acetic Acid**

This will cause discoloration and glazy appearance.

4 Monitor, climate, audio, phone and voice recognition systems

NissanConnect® Owner's Manual 185
Safety Note 185
Safety Information 186
USB memory device, iPod® and Bluetooth® audio player 186
RearView Monitor (if so equipped) 187
- Basic Information 187
- RearView Monitor system operation 188
- How to read the displayed lines 188
- Difference between predicted and actual distances 188
- How to park with predicted course lines 190
- Adjusting the screen 191
- How to turn on and off predicted course lines (if so equipped) 191
- RearView Monitor system limitations 191
- System maintenance 192

Intelligent Around View® Monitor (if so equipped) 193
- Basic Information 193
- Intelligent Around View® Monitor system operation 194
- Difference between predicted and actual distances 197
- How to park with predicted course lines 199
- How to switch the display 200
- Adjusting the screen 200
- Intelligent Around View® Monitor system limitations 200
- System maintenance 202

Moving Object Detection (MOD) (if so equipped) 203
- Basic Information 203
- MOD system operation 204
- Turning MOD on and off (if so equipped) 205
- MOD system limitations 205
- System maintenance 206

Vents 206
Heater and air conditioner (manual) (if so equipped) 207
- Basic information 207
- Controls 208
- Heater operation 209
- Air conditioner operation 210
- Air flow charts 211

Heater and air conditioner (automatic) (Type A) (if so equipped) 214
- Basic Information 214
- Automatic operation 215

Manual operation 215
Operating tips 216
Heater and air conditioner (automatic) (Type B) (if so equipped) 217
Basic Information 217
Automatic operation 218
Manual operation 219
Heater and air conditioner settings 220
Operating tips 221
Servicing air conditioner 221
Antenna 221
Roof Mounted Antenna 221
Car phone or CB radio 222
iPod®/iPhone® 222
Accent Light (if so equipped) 223

NissanConnect® OWNER'S MANUAL



QR code (U.S. only)

For models equipped with the NissanConnect® system, please refer to your printed NissanConnect® Owner's Manual (if so equipped), or scan the QR code for quick access to the full digital version of the manual, along with other helpful guides related to your vehicle.

This manual includes the following information:

- NissanConnect® Services (if so equipped)
- Audio system
- Apple CarPlay®
- Android Auto™
- Bluetooth® Hands-Free Phone system
- Viewing information
- Other settings
- Voice Recognition
- General system information

SAFETY NOTE

⚠WARNING

- **Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electric shock.**
- **Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.**
- **In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately. It is recommended you visit a NISSAN dealer for servicing. Ignoring such conditions may lead to accidents, fire, or electric shock.**
- **Park the vehicle in a safe location and apply the parking brake to view the images on the touch screen display.**

Do not attempt to operate the system in extreme temperature conditions [below −4°F (−20°C) and above 158°F (70°C)]. Operating this system under these conditions may result in system malfunctions.

SAFETY INFORMATION

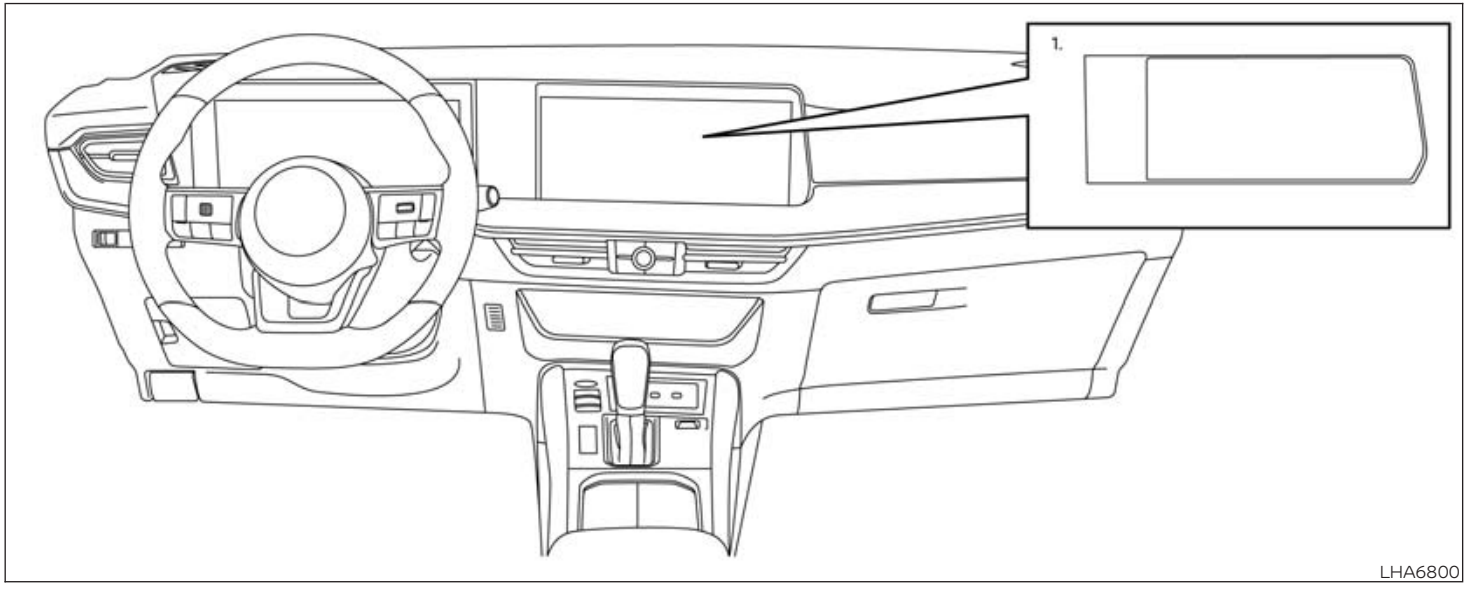
⚠ WARNING

- **To operate the system, first park the vehicle in a safe location and set the parking brake. Operating the system while driving can distract the driver and may result in a serious accident.**
- **Exercise extreme caution at all times so full attention may be given to vehicle operation. If the system does not respond immediately, please be patient and keep your eyes on the road. Inattentive driving may lead to a crash resulting in serious injuries or death.**
- **Laws in some jurisdictions may restrict the use of some of the applications and features such as "Text-to-Speech", social networking, and texting. Check local regulations for any requirements before using this feature.**
- **To avoid risk of death or serious personal injury when parking the vehicle with the engine turned on, it should be kept in a well-ventilated area to avoid exposure to carbon monoxide. Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**
  - **Apply the parking brake.**
  - **Do not allow children, pets or people who may need assistance to remain in the vehicle.**
  - **Do not leave the vehicle unattended to prevent unauthorized use of the vehicle.**

USB MEMORY DEVICE, iPod® AND Bluetooth® AUDIO PLAYER

⚠ WARNING

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.



LHA6800

REARVIEW MONITOR (if so equipped)

BASIC INFORMATION

1. Display screen

⚠WARNING

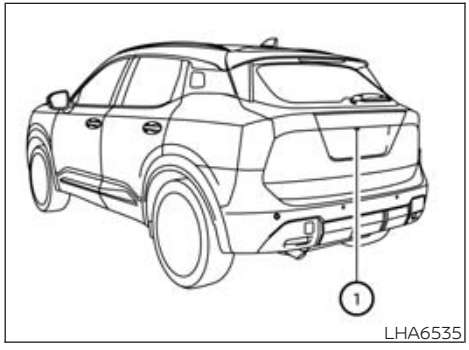
- **Failure to follow the warnings and instructions for proper use of the RearView Monitor system could result in serious injury or death.**
- **RearView Monitor is a convenience feature and is not a substitute for proper backing. Always turn and look out the windows and check mirrors to be sure that it is safe to move before operating the vehicle. Always back up slowly.**
- **The system is designed as an aid to the driver in showing large stationary objects directly behind the vehicle, to help avoid damaging the vehicle.**
- **The distance guide lines and the vehicle width lines should be used as a reference only when the vehicle is on a level paved surface. The distance viewed on**

the monitor is for reference only and may be different than the actual distance between the vehicle and displayed objects.

⚠CAUTION

Do not scratch the camera lens when cleaning dirt or snow from the front of the camera.

The RearView Monitor system automatically shows a rear view of the vehicle when the shift lever is shifted into the R (Reverse) position. The radio can still be heard while the RearView Monitor is active.



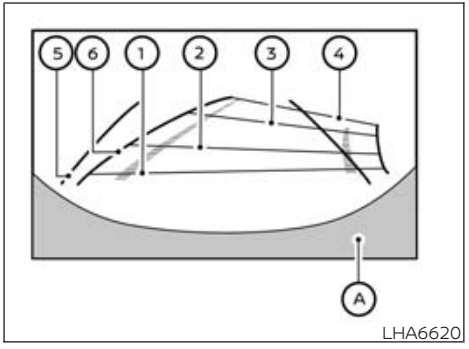
LHA6535

To display the rear view, the RearView Monitor system uses a camera located just above the vehicle's license plate ①.

REARVIEW MONITOR SYSTEM OPERATION

With the ignition switch in the ON position, move the shift lever to the R (Reverse) position to operate the RearView Monitor.

HOW TO READ THE DISPLAYED LINES



LHA6620

Guiding lines which indicate the vehicle width and distances to objects with reference to the vehicle body line Ⓐ are displayed on the monitor.

Distance guide lines

Indicate distances from the vehicle body.

- Red line ①: approximately 1.5 ft (0.5 m)
- Blue line ②: approximately 3 ft (1 m)
- Blue line ③: approximately 7 ft (2 m)
- Blue line ④: approximately 10 ft (3 m) (if so equipped)

Vehicle width guide lines ⑤

Indicate the vehicle width when backing up.

Predicted course lines (if so equipped) ⑥

Indicate the predicted course when backing up. The predicted course lines will be displayed on the monitor when the shift lever is in the R (Reverse) position and the steering wheel is turned. The predicted course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight-ahead position.

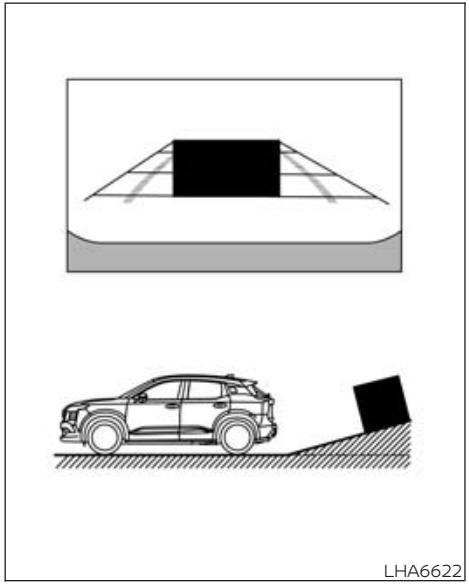
The vehicle width guide lines and the width of the predicted course lines are wider than the actual width and course.

DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES

Basic Information

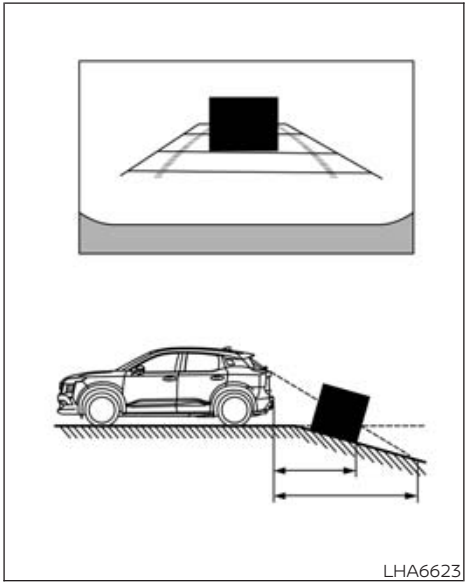
The displayed guidelines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guidelines (refer to illustrations). When in doubt, turn around and view the objects as you are backing up, or park and exit the vehicle to view the positioning of objects behind the vehicle.

Backing up on a steep uphill



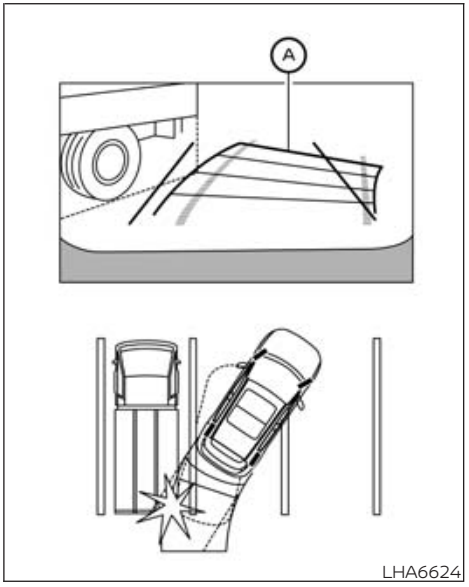
When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is further than it appears on the monitor.

Backing up on a steep downhill



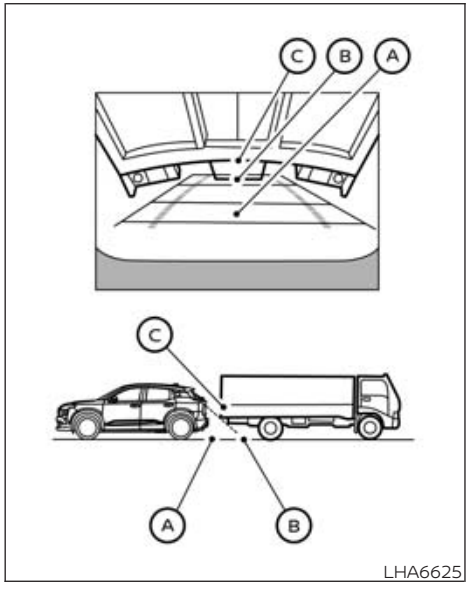
When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. Note that any object on the hill is closer than it appears on the monitor.

Backing up near a projecting object



The predicted course lines Ⓐ do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.

Backing up behind a projecting object

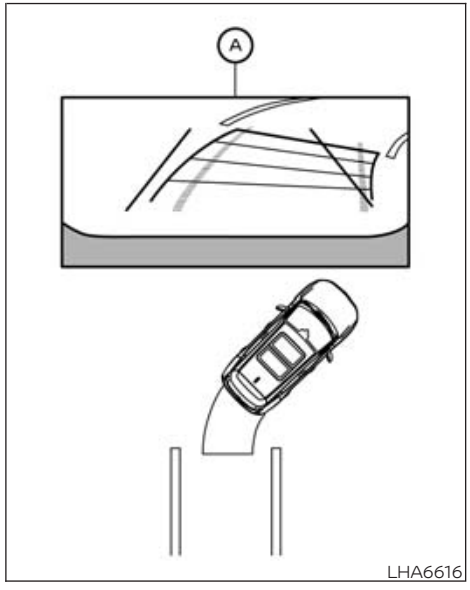


The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

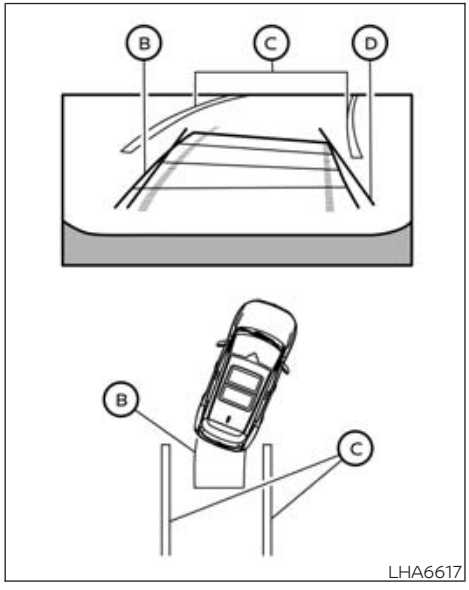
HOW TO PARK WITH PREDICTED COURSE LINES

⚠WARNING

- **If the tires are replaced with different sized tires, the predicted course lines may be displayed incorrectly.**
- **On a snow-covered or slippery road, there may be a difference between the predicted course line and the actual course line.**
- **If the battery is disconnected or becomes discharged, the predicted course lines may be displayed incorrectly. If this occurs, please perform the following procedures:**
  - **Turn the steering wheel from lock to lock while the engine is running.**
  - **Drive the vehicle on a straight road for more than 5 minutes.**
- **When the steering wheel is turned with the ignition switch in the ACC position, the predicted course lines may be displayed incorrectly.**



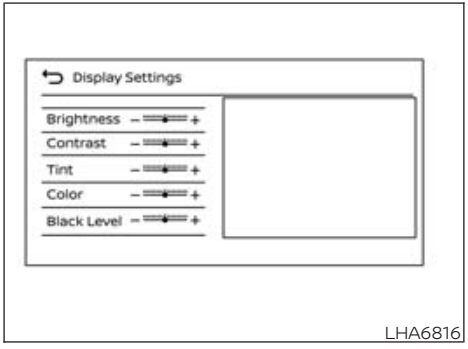
1. Visually check that the parking space is safe before parking your vehicle.
2. The rear view of the vehicle is displayed on the screen Ⓐ when the shift lever is moved to the R (Reverse) position.



LHA6617

3. Slowly back up the vehicle adjusting the steering wheel so that the predicted course lines Ⓑ enter the parking space Ⓒ.
4. Maneuver the steering wheel to make the vehicle width guide lines Ⓓ parallel to the parking space Ⓒ while referring to the predicted course lines.
5. When the vehicle is parked in the space completely, move the shift lever to the P (Park) position and apply the parking brake.

ADJUSTING THE SCREEN



LHA6816

1. While on the main menu screen, touch the "Settings" key.
2. Touch the "Vehicle" key.
3. Touch the "Camera" key.
4. Touch the "Display Settings" key.
5. Touch the "Brightness", "Contrast", "Tint", "Color", or "Black Level" key.
6. Adjust the item by touching the "+" or "–" key on the touch screen display.

NOTE:

Do not adjust any of the display settings of the RearView Monitor while the vehicle is moving.

HOW TO TURN ON AND OFF PREDICTED COURSE LINES (if so equipped)

To toggle ON and OFF the predicted course lines while in the P (Park) position:

1. Touch the "Camera" key.
2. Touch the "Predicted Course Lines" key to turn the feature ON or OFF.

To toggle ON and OFF the predicted course lines while in the R (Reverse) position, press the CAMERA button.

REARVIEW MONITOR SYSTEM LIMITATIONS

⚠WARNING

Listed below are the system limitations for RearView Monitor. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

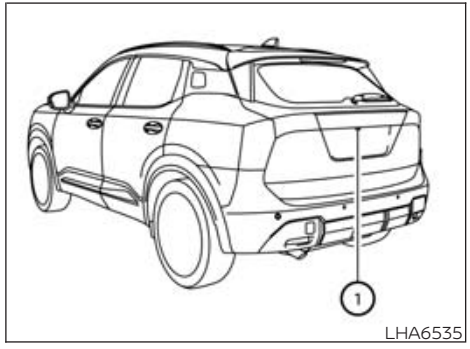
- **The system cannot completely eliminate blind spots and may not show every object.**
- **Underneath the bumper and the corner areas of the bumper cannot be viewed on the RearView Monitor because of its monitoring range limitation. The system will not show small objects below the bumper, and may not show objects close to the bumper or on the ground.**

- **Objects viewed in the RearView Monitor differ from actual distance because a wide-angle lens is used.**
- **Objects in the RearView Monitor will appear visually opposite compared to when viewed in the rearview and outside mirrors.**
- **Use the displayed lines as a reference. The lines are highly affected by the number of occupants, fuel level, vehicle position, road conditions and road grade.**
- **Make sure that the liftgate is securely closed when backing up.**
- **Do not put anything on the rearview camera. The rearview camera is installed above the license plate.**
- **When washing the vehicle with high pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.**

The following are operating limitations and do not represent a system malfunction:

- When the temperature is extremely high or low, the screen may not clearly display objects.
- When strong light directly shines on the camera, objects may not be displayed clearly.
- Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper.
- The screen may flicker under fluorescent light.
- The colors of objects on the RearView Monitor may differ somewhat from the actual color of objects.
- Objects on the monitor may not be clear in a dark environment.
- There may be a delay when switching between views.
- If dirt, rain or snow accumulate on the camera, the RearView Monitor may not display objects clearly. Clean the camera.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth dampened with a diluted mild cleaning agent, then wipe with a dry cloth.

SYSTEM MAINTENANCE

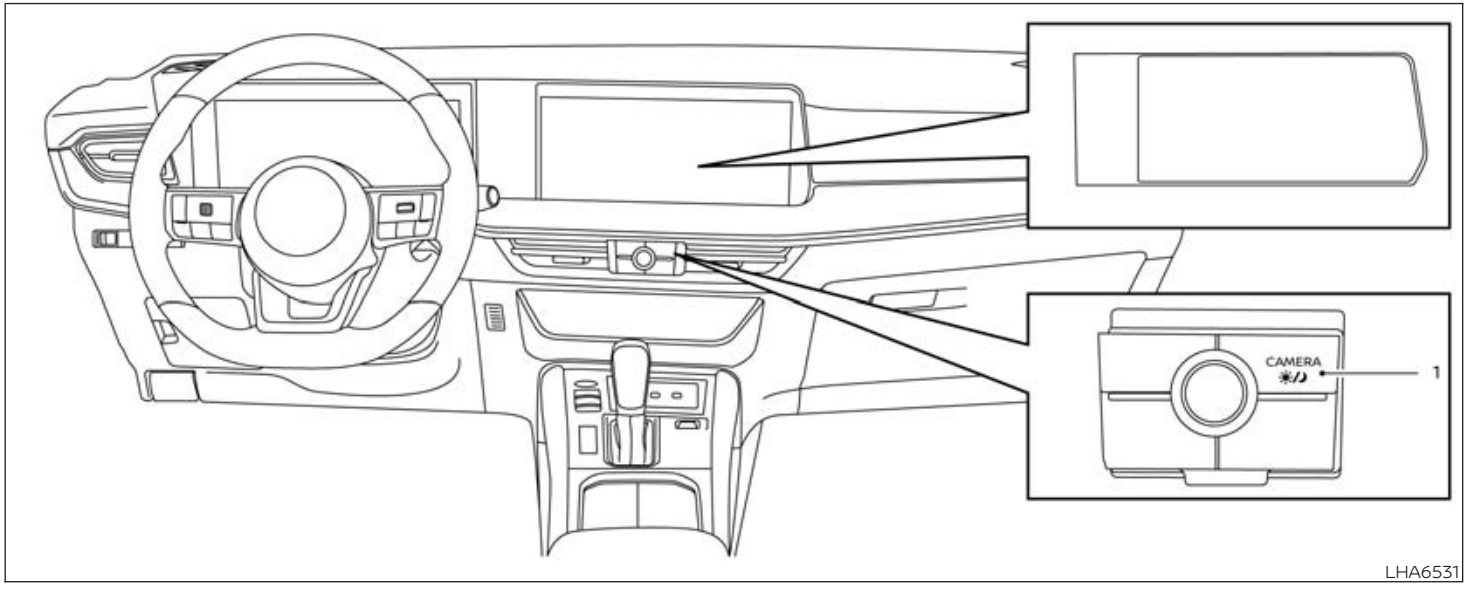


LHA6535

⚠CAUTION

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

If dirt, rain or snow accumulates on the camera ①, the RearView Monitor may not display objects clearly. Clean the camera by wiping it with a cloth dampened with a diluted mild cleaning agent and then wiping it with a dry cloth.



INTELLIGENT Around View® MONITOR (if so equipped)

BASIC INFORMATION

1. CAMERA button/ ☼/◑ button

⚠WARNING

- **Failure to follow the warnings and instructions for the proper use of the Intelligent Around View® Monitor system could result in serious injury or death.**
- **The Intelligent Around View® Monitor is a convenience feature and is not a substitute for proper vehicle operation because it has areas where objects cannot be viewed. The four corners of the vehicle in particular, are areas where objects do not always appear in the bird's-eye, front, or rear views. Always check your surroundings to be sure that it is safe to move before operating the vehicle. Always operate the vehicle slowly.**
- **The driver is always responsible for safety during parking and other maneuvers.**

⚠CAUTION

Do not scratch the camera lens when cleaning dirt or snow from the front of the camera.

The Intelligent Around View® Monitor system is designed as an aid to the driver in situations such as slot parking or parallel parking.

The monitor displays various views of the position of the vehicle in a split screen format. Not all views are available at all times.

Available views:

- Front view

  An approximately 150-degree view of the front of the vehicle.
- Rear view

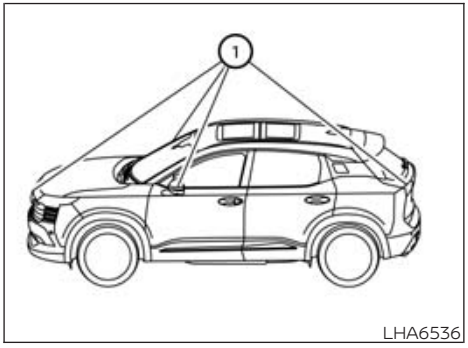
  An approximately 150-degree view of the rear of the vehicle.
- Bird's-eye view

  The surrounding views of the vehicle from above.
- Front-side view

  The view around and ahead of the front passenger's side wheel.
- Front-wide view

  An approximately 180-degree view of the front of the vehicle.
- Rear-wide view

  An approximately 180-degree view of the rear of the vehicle.



LHA6536

To display the multiple views, the Intelligent Around View® Monitor system uses cameras located in the front grille, on the vehicle's outside mirrors and one just above the vehicle's license plate ①.

INTELLIGENT Around View® MONITOR SYSTEM OPERATION

Basic Information

With the ignition switch in the ON position, move the shift lever to the R (Reverse) position or press the CAMERA button to operate the Intelligent Around View® Monitor.

The screen displayed on the Intelligent Around View® Monitor will automatically return to the previous screen 3 minutes after the CAMERA button has been pressed with the shift lever in a position other than R (Reverse) position.

Available views

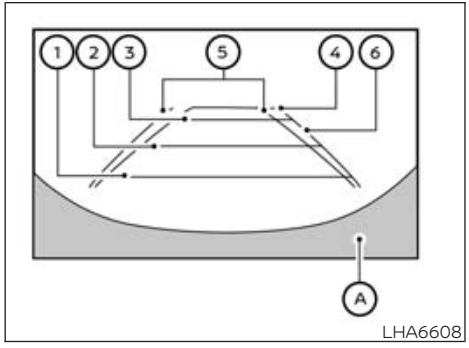
Basic Information

⚠WARNING

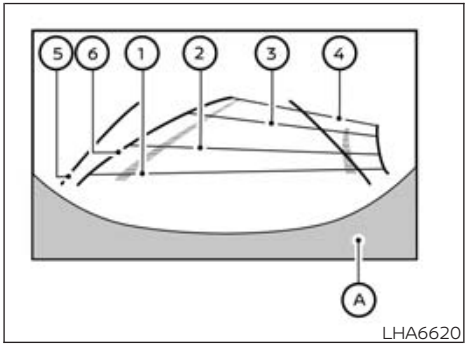
- **The distance guide lines and the vehicle width lines should be used as a reference only when the vehicle is on a paved, level surface. The apparent distance viewed on the monitor may be different than the actual distance between the vehicle and displayed objects.**
- **Use the displayed lines and the bird's-eye view as a reference. The lines and the bird's-eye view are greatly affected by the number of occupants, cargo, fuel level, vehicle position, road condition and road grade.**
- **If the tires are replaced with different sized tires, the predicted course lines and the bird's-eye view may be displayed incorrectly.**
- **When driving the vehicle up a hill, objects viewed in the monitor are further than they appear. When driving the vehicle down a hill, objects viewed in the monitor are closer than they appear.**
- **Objects in the rear view will appear visually opposite compared to when viewed in the monitor and outside mirrors.**
- **Use the mirrors or actually look to properly judge distances to other objects.**

- **On a snow-covered or slippery road, there may be a difference between the predicted course lines and the actual course line.**
- **The vehicle width and predicted course lines are wider than the actual width and course.**

Front and rear view



Front view



Rear view

Guiding lines that indicate the approximate vehicle width and distance to objects with reference to the vehicle body line Ⓐ are displayed on the monitor.

Distance guide lines:

Indicate distances from the vehicle body:

- Red line ①: approximately 1.5 ft (0.5 m)
- Blue line ②: approximately 3 ft (1 m)
- Blue line ③: approximately 7 ft (2 m)
- Blue line ④: approximately 10 ft (3 m) (if so equipped)

Vehicle width guide lines ⑤:

Indicate the approximate vehicle width when backing up.

Predicted course lines ⑥:

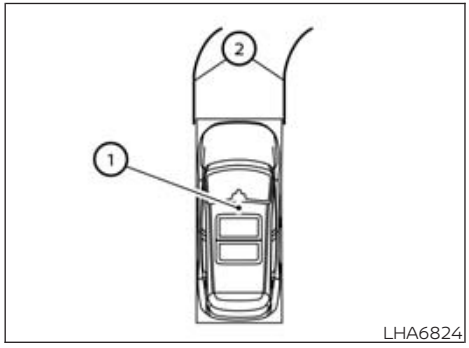
Indicate the predicted course when operating the vehicle. The predicted course lines will be displayed on the monitor when the steering wheel is turned. The predicted course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight-ahead position.

The front view will not be displayed when the vehicle speed is above 6 mph (10 km/h).

NOTE:

When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the straight-ahead position, both the right and left predicted course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, a line is displayed only on the opposite side of the turn.

Bird's-eye view



The bird's-eye view shows the overhead view of the vehicle, which helps confirm the vehicle position and the predicted course to a parking space.

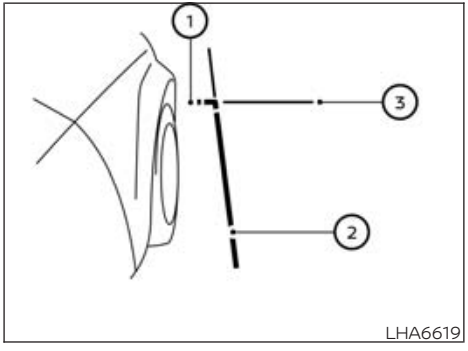
The vehicle icon ① shows the position of the vehicle. Note that the apparent distance between objects viewed in the bird's-eye view differ from the actual distance.

The predicted course lines ② indicate the predicted course when operating the vehicle.

⚠WARNING

- **Objects in the bird's-eye view will appear further than the actual distance.**
- **Tall objects, such as a curb or vehicle, may be misaligned or not displayed at the seam of the views.**
- **Objects that are above the camera cannot be displayed.**
- **The view of the bird's-eye view may be misaligned when the camera position alters.**
- **A line on the ground may be misaligned and is not seen as being straight at the seam of the views. The misalignment will increase as the line proceeds away from the vehicle.**

Front-side view



Guiding lines

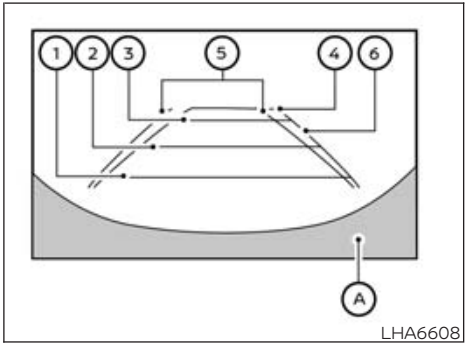
Guiding lines that indicate the approximate width and the front end of the vehicle are displayed on the monitor.

The front-of-vehicle line ① shows the front part of the vehicle.

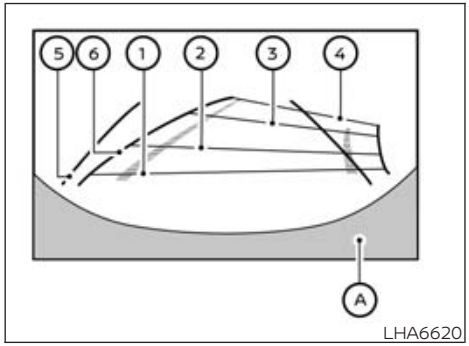
The side-of-vehicle line ② shows the approximate vehicle width including the outside mirrors.

The extensions ③ of both the front ① and side ② lines are shown with a blue line.

Front-wide and rear-wide view



Front-wide view



LHA6620

Rear-wide view

The front-wide and rear-wide views show a wider area on the entire screen and allows the checking of the blind corners on right and left sides. The rear-wide view displays an approximately 180-degree area while the front view and rear view display an approximately 150-degree area.

Distance guide lines

Indicates distances from the vehicle body:

- Red line ①: approximately 1.5 ft (0.5 m)
- Blue line ②: approximately 3 ft (1 m)
- Blue line ③: approximately 7 ft (2 m)
- Blue line ④: approximately 10 ft (3 m) (if so equipped)

Vehicle width guide lines ⑤

Indicate the vehicle width when backing up.

Predicted course lines ⑥:

Indicate the predicted course when operating the vehicle. The predicted course lines will be displayed on the monitor when the steering wheel is turned. The predicted course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight-ahead position.

The front view will not be displayed when the vehicle speed is above 6 mph (10 km/h).

NOTE:

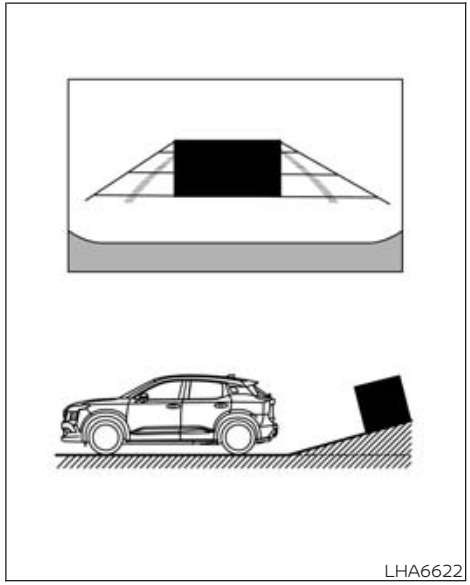
When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the straight-ahead position, both the right and left predicted course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, a line is displayed only on the opposite side of the turn.

DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES

Basic Information

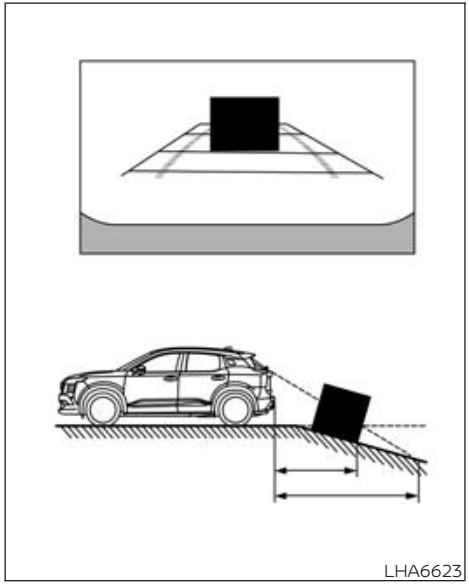
The displayed guidelines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guidelines (refer to illustrations). When in doubt, turn around and view the objects as you are backing up, or park and exit the vehicle to view the positioning of objects behind the vehicle.

Backing up on a steep uphill


LHA6622

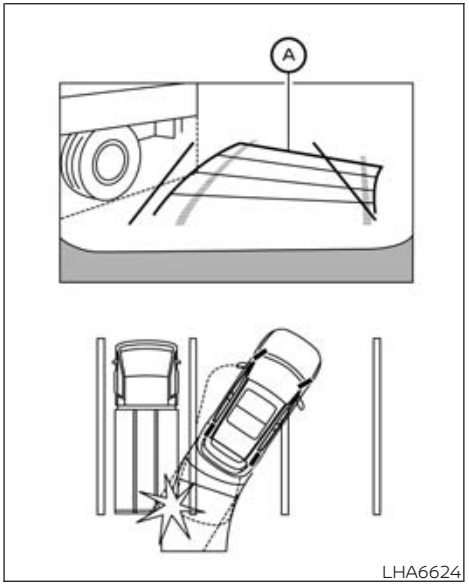
When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is further than it appears on the monitor.

Backing up on a steep downhill



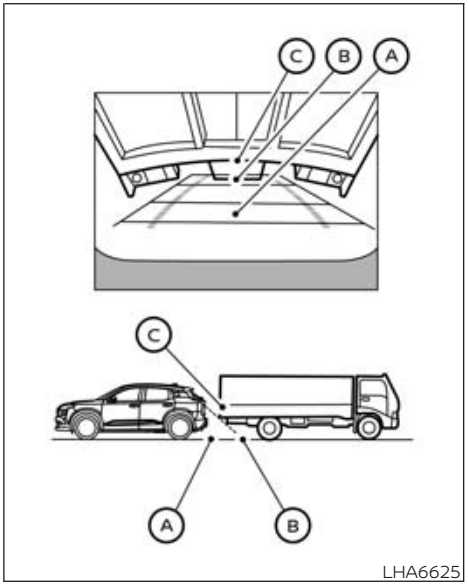
When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. Note that any object on the hill is closer than it appears on the monitor.

Backing up near a projecting object



The predicted course lines Ⓐ do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.

Backing up behind a projecting object

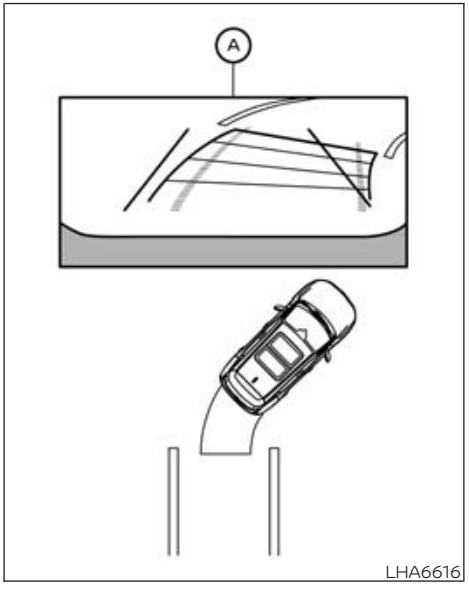


The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

HOW TO PARK WITH PREDICTED COURSE LINES

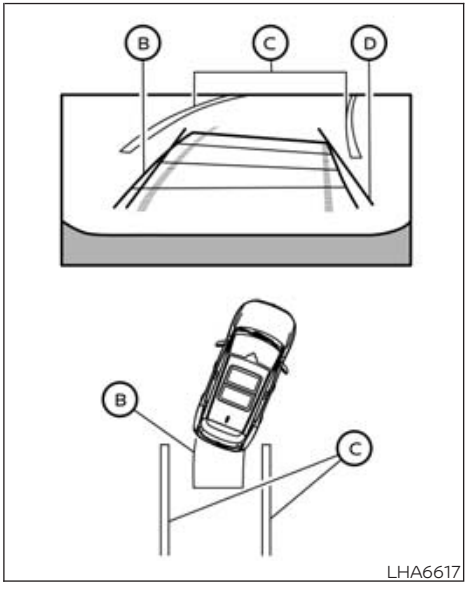
⚠ WARNING

- **If the tires are replaced with different sized tires, the predicted course lines may be displayed incorrectly.**
- **On a snow-covered or slippery road, there may be a difference between the predicted course line and the actual course line.**
- **If the battery is disconnected or becomes discharged, the predicted course lines may be displayed incorrectly. If this occurs, please perform the following procedures:**
  - **Turn the steering wheel from lock to lock while the engine is running.**
  - **Drive the vehicle on a straight road for more than 5 minutes.**
- **When the steering wheel is turned with the ignition switch in the ON position, the predicted course lines may be displayed incorrectly.**



LHA6616

1. Visually check that the parking space is safe before parking your vehicle.
2. The rear view of the vehicle is displayed on the screen Ⓐ when the shift lever is moved to the R (Reverse) position.



LHA6617

3. Slowly back up the vehicle adjusting the steering wheel so that the predicted course lines Ⓑ enter the parking space Ⓒ.
4. Maneuver the steering wheel to make the vehicle width guide lines Ⓓ parallel to the parking space Ⓒ while referring to the predicted course lines.
5. When the vehicle is parked in the space completely, move the shift lever to the P (Park) position and apply the parking brake.

HOW TO SWITCH THE DISPLAY

With the ignition switch in the ON position, press the CAMERA button or move the shift lever to the R (Reverse) position to operate the Intelligent Around View® Monitor.

The Intelligent Around View® Monitor displays different split screen views depending on the position of the shift lever. Press the CAMERA button to switch between the available views.

If the shift lever is in the R (Reverse) position, the available views are:

- Rear view/bird's-eye view split screen
- Rear view/front-side view split screen
- Rear-wide view.

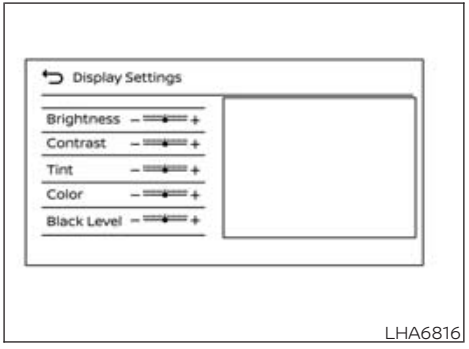
If the shift lever is in the P (Park) or D (Drive) position, the available views are:

- Front view/bird's-eye view split screen
- Front view/front-side view split screen
- Front-wide view.

The display will switch from the Intelligent Around View® Monitor screen when:

- The shift lever is in the D (Drive) position and the vehicle speed increases above approximately 6 mph (10 km/h).
- A different screen is selected.

ADJUSTING THE SCREEN



LHA6816

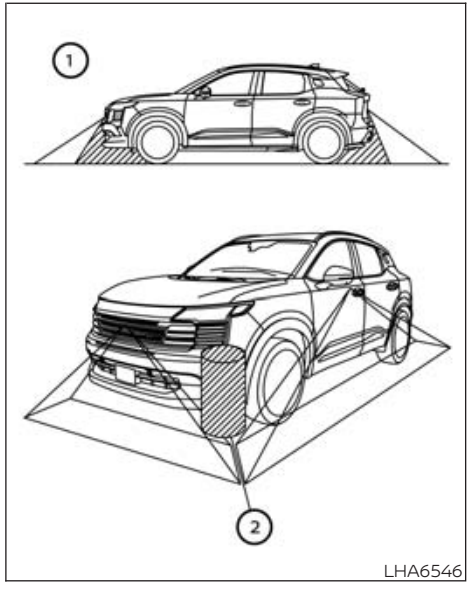
1. While on the main menu screen, touch the "Settings" key.
2. Touch the "Vehicle" key.
3. Touch the "Camera" key.
4. Touch the "Display Settings" key.
5. Touch the "Brightness", "Contrast", "Tint", "Color", or "Black Level" key.
6. Adjust the item by touching the "+" or "–" key on the touch screen display.

NOTE:

Do not adjust any of the display settings of the Intelligent Around View® Monitor while the vehicle is moving. Make sure the parking brake is firmly applied.

INTELLIGENT Around View® MONITOR SYSTEM LIMITATIONS

Basic Information



LHA6546

⚠WARNING

Listed below are the system limitations for Intelligent Around View® Monitor. Failure to operate the vehicle in accordance

with these system limitations could result in serious injury or death.

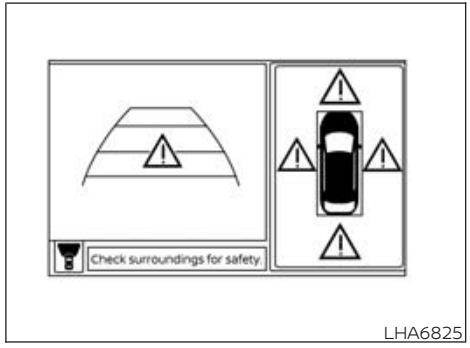
- **Do not use the Intelligent Around View® Monitor with the outside mirrors in the stored position, and make sure that the liftgate is securely closed when operating the vehicle using the Intelligent Around View® Monitor.**
- **The apparent distance between objects viewed on the Intelligent Around View® Monitor differs from the actual distance.**
- **The cameras are installed on the front grille, the outside mirrors and above the rear license plate. Do not put anything on the vehicle that covers the cameras.**
- **When washing the vehicle with high pressure water, be sure not to spray it around the cameras. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the cameras. They are precision instruments. Doing so could cause a malfunction or cause damage resulting in a fire or an electric shock.**

There are some areas where the system will not show objects and the system does not warn of moving objects. When in the front or rear view display, an object below the bumper or on the ground may not be viewed ①. When in the bird's-eye view, a tall object near the seam ② of the camera viewing areas will not appear in the monitor.

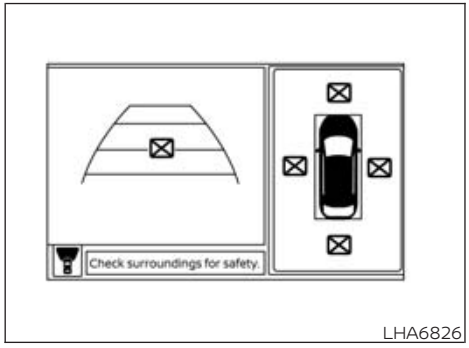
The following are operating limitations and do not represent a system malfunction:

- There may be a delay when switching between views.
- When the temperature is extremely high or low, the screen may not display objects clearly.
- When strong light directly shines on the camera, objects may not be displayed clearly.
- The screen may flicker under fluorescent light.
- The colors of objects on the Intelligent Around View® Monitor may differ somewhat from the actual color of objects.
- Objects on the Intelligent Around View® Monitor may not be clear and the color of the object may differ in a dark environment.
- There may be differences in sharpness between each camera view of the bird's-eye view.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth that has been dampened with a diluted mild cleaning agent, then wipe with a dry cloth.

System temporarily unavailable



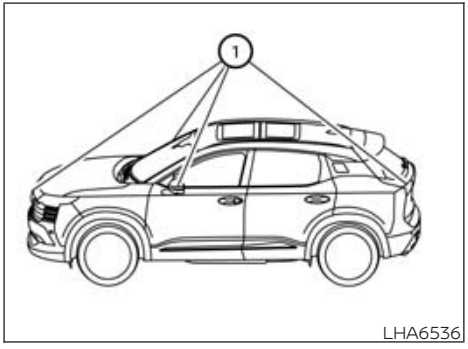
When the "!" icon is displayed on the screen, there are abnormal conditions in the Intelligent Around View® Monitor. This will not hinder normal driving operation but the system should be inspected. It is recommended that you visit a NISSAN dealer for this service.



LHA6826

When the "[X]" icon is displayed on the screen, the camera image may be receiving temporary electronic disturbances from surrounding devices. This will not hinder normal driving operation but the system should be inspected if it occurs frequently. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

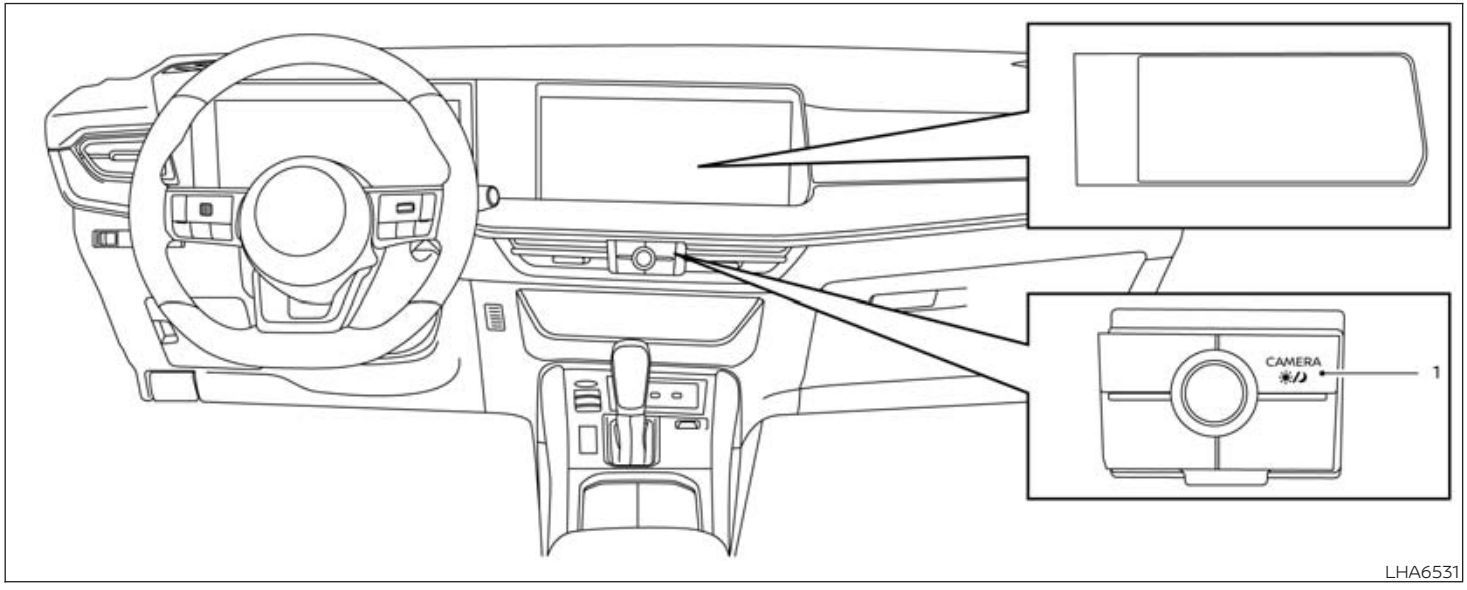


LHA6536

⚠CAUTION

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.**
- **Do not damage the cameras as the monitor screen may be adversely affected.**

If dirt, rain or snow accumulates on any of the cameras ①, the Intelligent Around View® Monitor may not display objects clearly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.



MOVING OBJECT DETECTION (MOD) (if so equipped)

BASIC INFORMATION

1. CAMERA button/ ☼/◑ button

⚠WARNING

- **Failure to follow the warnings and instructions for proper use of the Moving Object Detection (MOD) system could result in serious injury or death.**
- **The MOD system is not a substitute for proper vehicle operation and is not designed to prevent contact with objects surrounding the vehicle. When maneuvering, always use the outside mirrors and rearview mirror and turn and check the surroundings to ensure it is safe to maneuver.**
- **The system is deactivated at speeds above 5 mph (8 km/h) . It is reactivated at lower speeds.**
- **The MOD system is not designed to detect surrounding stationary objects.**

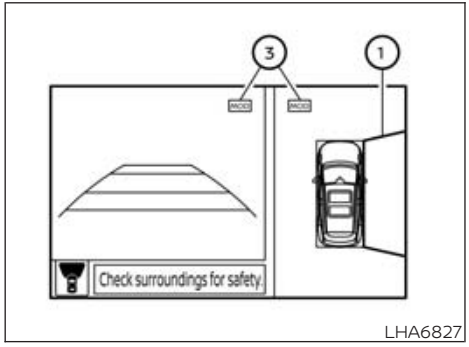
The MOD system can inform the driver of moving objects near the vehicle when backing out of garages, maneuvering in parking lots and in other such instances.

The MOD system detects moving objects by using image processing technology on the image shown in the display.

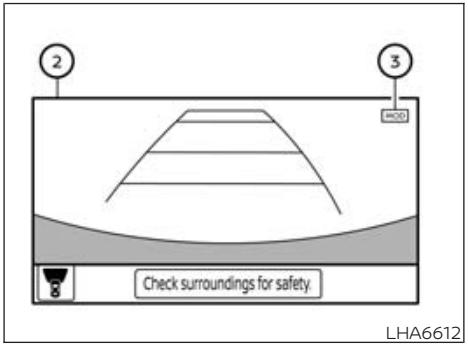
MOD SYSTEM OPERATION

The MOD system will turn on automatically under the following conditions:

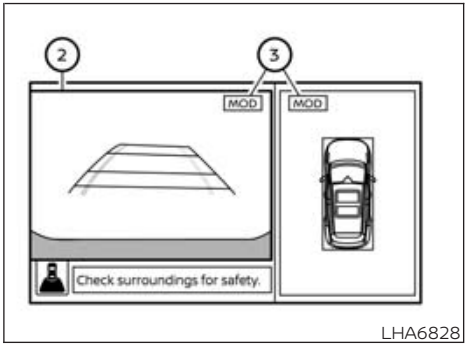
- When the shift lever is in the R (Reverse) position.
- When the CAMERA button is pressed to activate the camera view on the display.
- When vehicle speed decreases below approximately 5 mph (8 km/h) and the camera screen is displayed.



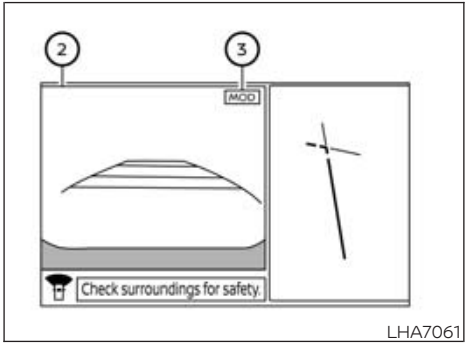
Front and bird's-eye views



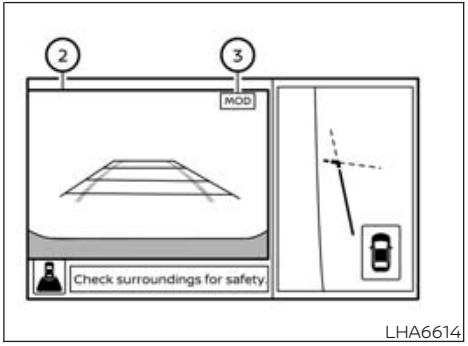
Front-wide view



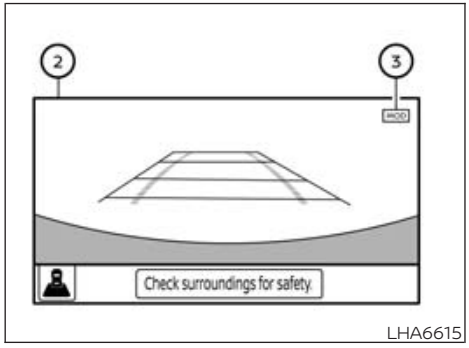
Rear and bird's-eye views



Front and front-side views



Rear and front-side views



Rear-wide view

The MOD system operates in the following conditions when the camera view is displayed:

- When the shift lever is in the P (Park) or N (Neutral) position and the vehicle is stopped, the MOD system detects moving objects in the bird's-eye view. The MOD system will not operate if either front door is opened. If outside mirrors are folded, MOD may not operate properly.
- When the shift lever is in the D (Drive) position and the vehicle speed is below approximately 5 mph (8 km/h), the MOD system detects moving objects in the front view.
- When the shift lever is in the R (Reverse) position and the vehicle speed is below approximately 5 mph (8 km/h), the MOD system detects moving objects in the rear view. The MOD system will not operate if the liftgate is open.

The MOD system does not detect moving objects in the front-side view. The MOD icon is not displayed on the screen when in this view.

When the MOD system detects moving objects near the vehicle, a chime will be heard when in front or rear view and a frame will be illuminated on the view where the objects are detected. While the MOD system continues to detect moving objects, the frame continues to be displayed.

In the bird's-eye view, the frame ① is displayed on each camera image (front, rear, right, left) depending on where moving objects are detected.

The frame ② is displayed on each view in the front view and rear view modes.

A green MOD icon ③ is displayed in the view where the MOD system is operative. A gray MOD icon is displayed in the view where the MOD system is not operative.

If the MOD system is turned off, the MOD icon ③ is not displayed.

TURNING MOD ON AND OFF (if so equipped)

Some vehicles include the option to allow the MOD system to be turned on or off in the vehicle information display.

To turn the MOD system on or off:

1. Using ◄ ► buttons on the steering wheel to select "Settings".
2. Select "Driver Assistance" and press the OK button.
3. Select "Parking Assist".
4. Toggle ON or OFF "Moving Object" using the OK button.

MOD SYSTEM LIMITATIONS

⚠WARNING

Listed below are the system limitations for MOD. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Do not use the MOD system when towing a trailer. The system may not function properly.**
- **Excessive noise (for example, audio system volume or open vehicle window) will interfere with the chime sound, and it may not be heard.**
- **The MOD system performance will be limited according to environmental conditions and surrounding objects such as:**
  - **When there is low contrast between background and the moving objects.**
  - **When there is a blinking source of light.**
  - **When strong light such as another vehicle's headlight or sunlight is present.**

- When camera orientation is not in its usual position, such as when a mirror is folded.
- When there is dirt, water drops or snow on the camera lens.
- When the position of the moving objects in the display is not changed.

· The MOD system might detect flowing water droplets on the camera lens, white smoke from the muffler, moving shadows, etc.
· The MOD system may not function properly depending on the speed, direction, distance or shape of the moving objects.
· If your vehicle sustains damage to the parts where the camera is installed, leaving it misaligned or bent, the sensing zone may be altered and the MOD system may not detect objects properly.
· When the temperature is extremely high or low, the screen may not display objects clearly. This is not a malfunction.

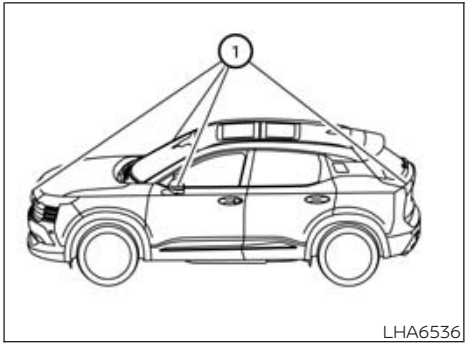
NOTE:

The green MOD icon will change to orange if one of the following has occurred

- **When the system is malfunctioning.**
- **When the component temperature reaches a high level (icon will blink).**
- **When the rearview camera has detected a blockage (icon will blink).**

If the icon light continues to illuminate orange, have the MOD system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



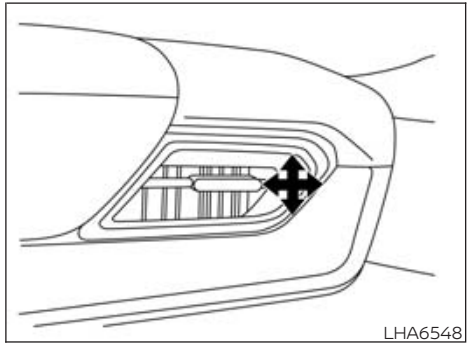
LHA6536

⚠CAUTION

· **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.**
· **Do not damage the camera as the monitor screen may be adversely affected.**

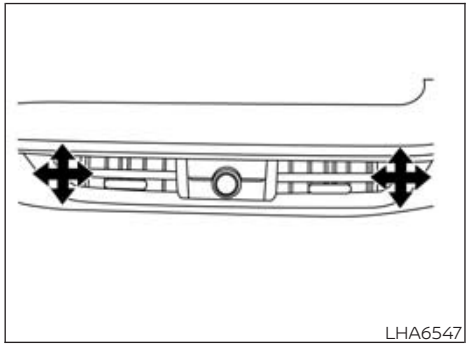
If dirt, rain or snow accumulates on any of the cameras ①, the MOD system may not operate properly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.

VENTS


LHA6548

Side vents

Adjust the air flow direction of the side vents by opening/closing (left/right) and control direction (up/down) by rotating the center knob.



Center vents

Adjust the air flow direction of the center vent by rotating the center knob (up/down, left/right) until the desired position is achieved.

HEATER AND AIR CONDITIONER (manual) (if so equipped)

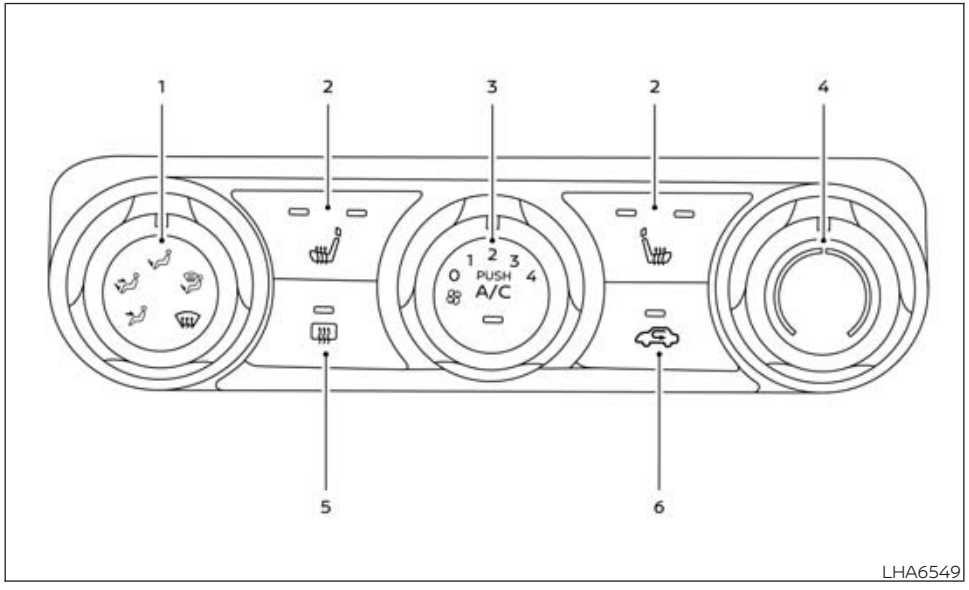
BASIC INFORMATION

⚠WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

NOTE:

- **Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.**
- **When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.**



CONTROLS

Basic Information

1. Air flow control dial
2. Heated seat switches (if so equipped)
3. Fan speed control dial /A/C (air conditioner) button
4. Temperature control dial
5. Rear window and outside mirror (if so quipped) defroster switch
6. Air recirculation button

Fan speed control dial

The fan speed control dial turns the fan on and off and controls fan speed.

Air flow control dial

The air flow control dial allows you to select the air flow outlets.

— Air flows from center and side vents.

— Air flows from center and side vents and foot outlets.

— Air flows mainly from the foot outlets.

— Air flows from defroster outlets and the foot outlets.

— Air flows mainly from defroster outlets.

Temperature control dial

The temperature control dial allows you to adjust the temperature of the outlet air. To lower the temperature, turn the dial to the left. To increase the temperature, turn the dial to the right.

Air recirculation

Press the air recirculation button to recirculate interior air inside the vehicle.

The air recirculation cannot be activated when the air conditioner is in the front defrosting mode.

A/C (air conditioner) button

Start the engine, turn the fan speed control dial to the desired position and press the A/C button to turn on the air conditioner. To turn off the air conditioner, press the A/C button again.

The air conditioner cooling function operates only when the engine is running.

Rear window and outside mirror (if so equipped) defroster switch

For additional information, see "Rear window and outside mirror (if so equipped) defroster switch" (P. 128).

Heated seat switches (if so equipped)

For additional information, see "Heated seat switches" (P. 135).

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets and the side vent outlets.

1. Press the button to the off position for normal heating.
2. Press the air flow control button.
3. Turn the fan speed control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

Ventilation

This mode directs outside air to the side and center vents.

1. Press the button to the off position.
2. Press the air flow control button.
3. Turn the fan speed control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Defrosting or defogging

This mode directs the air to the defrost outlets to defrost/defog the windows.

1. Turn the air flow control dial to the position.
2. Turn the fan speed control dial to the desired position.
3. Turn the temperature control dial to the desired position between the middle and the hot position.

- To quickly remove ice or fog from the windows, turn the fan speed control dial to the highest setting and the temperature control to the full HOT position.
- When the position is selected, the air conditioner automatically turns on if the outside temperature is more than 36°F (2°C). This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance. The recirculation mode cannot be activated in the position.

Bi-level heating

The bi-level mode directs warmed air to the side and center vents and to the front and rear floor outlets.

1. Press the button to the off position.
2. Turn the air flow control dial to the position.
3. Turn the fan speed control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Heating and defogging

This mode heats the interior and defogs the windshield.

1. Turn the air flow control dial to the position.
2. Turn the fan speed control dial to the desired position.
3. Turn the temperature control dial to the desired position between the middle and the hot position.

- When the position is selected, the air conditioner automatically turns on if the outside temperature is more than 36°F (2°C). This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be

drawn into the passenger compartment to further improve the defogging performance.

Operating tips

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

AIR CONDITIONER OPERATION

Basic Information

Start the engine, turn the fan speed control dial to the desired position, and press the A/C button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions are added to the heater operation.

The air conditioner cooling function operates only when the engine is running.

Cooling

This mode is used to cool and dehumidify the air.

1. Press the button to the off position.
2. Turn the air flow control dial to the position.
3. Turn the fan speed control dial to the desired position.
4. Press the A/C button. The indicator light comes on.
5. Turn the temperature control dial to the desired position.

- For quick cooling when the outside temperature is high, press the button to the ON position. Be sure to return the to the off position for normal cooling.

Dehumidified heating

This mode is used to heat and dehumidify the air.

1. Press the button to the off position.
2. Turn the air flow control dial to the position.
3. Turn the fan speed control dial to the desired position.
4. Press the A/C (air conditioner) button. The indicator light comes on.
5. Turn the temperature control dial to the desired position.

Dehumidified defogging

This mode is used to defog the windows and dehumidify the air.

1. Turn the air flow control dial to the position.
2. Turn the fan speed control dial to the desired position.
3. Press the A/C button. The indicator light comes on.

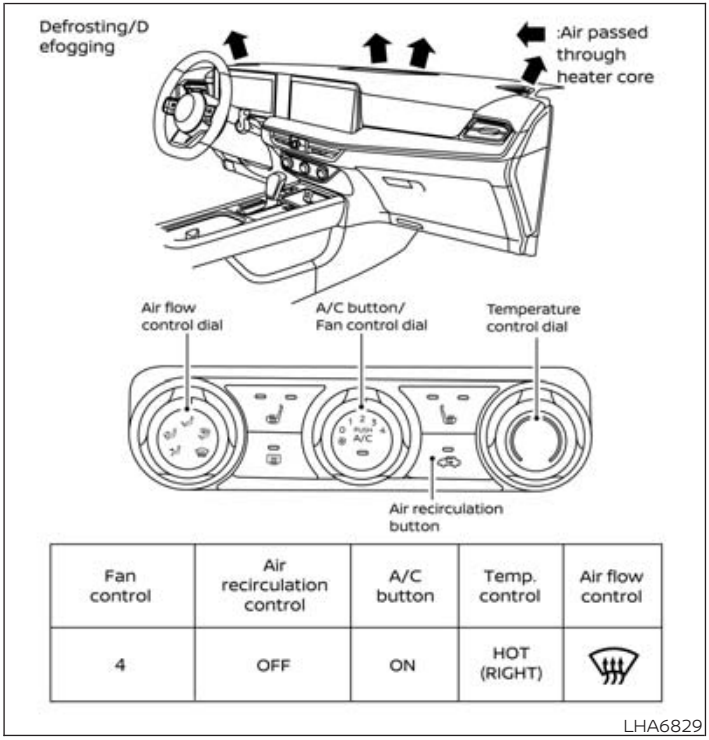
   When the , or positions in between are selected, the air conditioner automatically turns on. The air conditioning system will continue to operate until the fan speed control dial is turned to OFF or the vehicle is shut off, even if the air flow control dial is turned to a position other than the position. This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.
4. Turn the temperature control dial to the desired position.

Operating tips

- Keep the windows closed while the air conditioner is in operation.
- After parking in the sun, drive for two or three minutes with the windows open to vent hot air from the passenger compartment. Then, close the windows. This allows the air conditioner to cool the interior more quickly.
- **The air conditioning system should be operated for approximately ten minutes at least once a month. This helps prevent damage to the system due to lack of lubrication.**
- A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.
- **If the high temperature warning light illuminates in red indicating engine coolant temperature is over the normal range, turn the air conditioner off. For additional information, see "If your vehicle overheats" (P. 418).**

AIR FLOW CHARTS

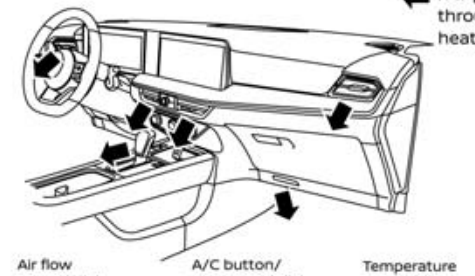
The following charts show the button and dial positions for **MAXIMUM AND QUICK** heating, cooling or defrosting. **The air recirculation button should always be in the OFF position for heating and defrosting.**



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4	OFF	ON	HOT (RIGHT)	

Bi-level Heating

: Air passed through heater core

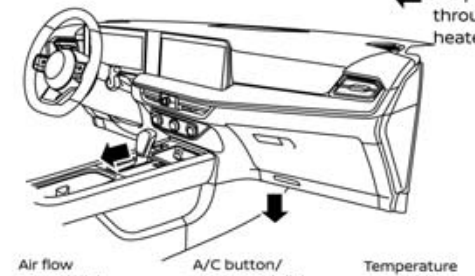


Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4	OFF	OFF	HOT (RIGHT)	

LHA6830

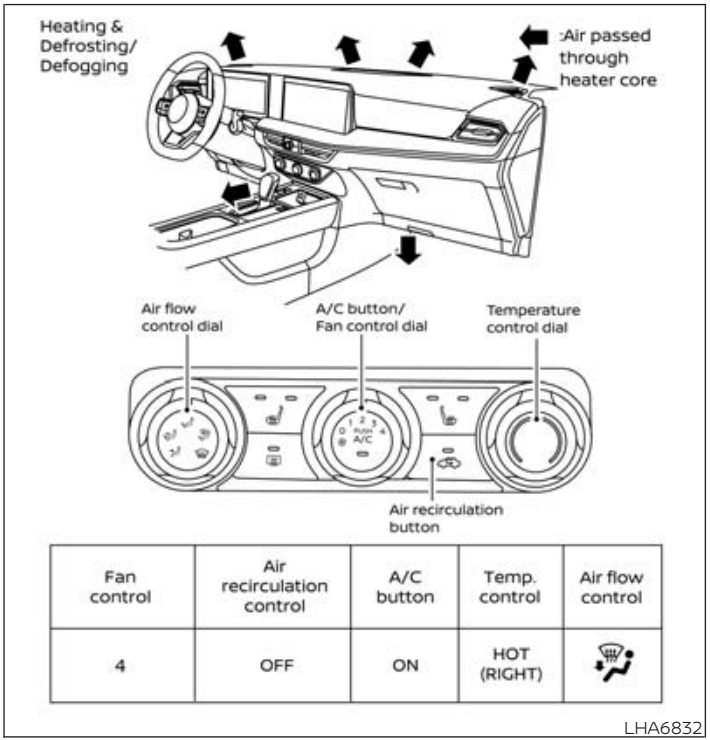
Heating

: Air passed through heater core



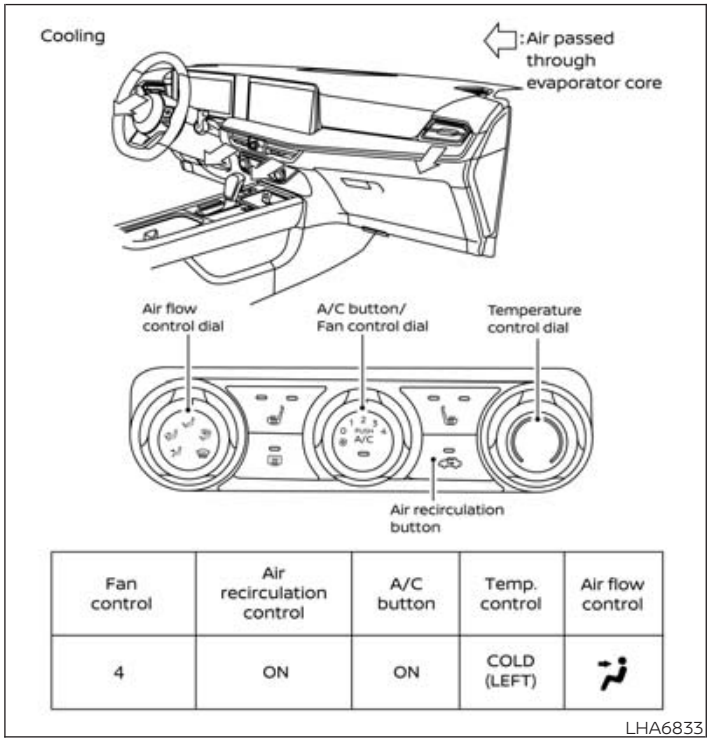
Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4	OFF	OFF	HOT (RIGHT)	

LHA6831



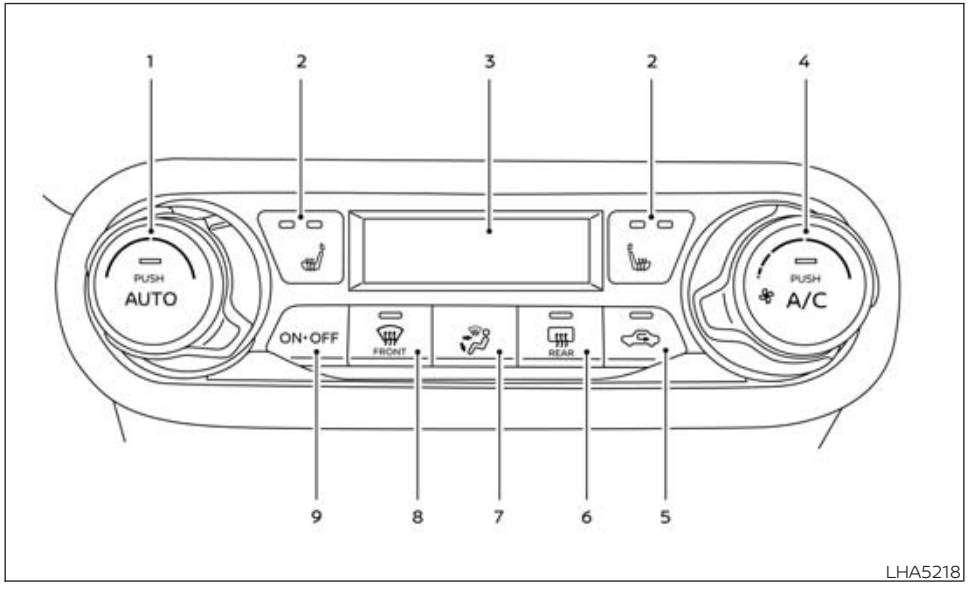
Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4	OFF	ON	HOT (RIGHT)	

LHA6832



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4	ON	ON	COLD (LEFT)	

LHA6833



LHA5218

HEATER AND AIR CONDITIONER (automatic) (Type A) (if so equipped)

BASIC INFORMATION

1. Temperature control dial /AUTO button
2. Heated seat switches (if so equipped)
3. Display Screen
4. Fan speed control dial/A/C (air conditioner) button
5. Air recirculation button
6. Rear window and outside mirror (if so equipped) defroster switch
7. (manual air flow control) button
8. Front defroster button
9. ON-OFF button

⚠ WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

NOTE:

- **Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.**
- **When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.**

AUTOMATIC OPERATION

Cooling and/or dehumidified heating (AUTO)

This mode may be used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Press the AUTO button.
2. Turn the temperature control dial to the left or right to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- A visible mist may be seen coming from the vents in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF)

The air conditioner does not activate. When you need to heat only, use this mode.

1. Press the AUTO button.
2. Turn the temperature control dial to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- Do not set the temperature lower than the outside air temperature. Otherwise, the system may not work properly.
- Not recommended if windows fog up.

Dehumidified defrosting or defogging

1. Press the front defroster button.
2. Turn the temperature control dial to set the maximum temperature to aid in defogging.

- To quickly remove ice from the outside of the windows, use the fan speed control dial to set the fan speed to maximum.
- As soon as possible after the windshield is clean, press the AUTO button to return to the automatic mode.
- When the front defroster button is pressed, the air conditioner will automatically be turned on.

Remote Engine Start with Intelligent Climate Control (if so equipped)

Vehicles equipped with automatic climate controls and Remote Engine Start function may go into automatic heating or cooling mode when Remote Engine Start is activated depending on outside and cabin temperatures. During this period, the climate control display and buttons will be inoperable until the ignition switch is placed in the ON position. In Remote Engine Start defrosting mode, the rear window defroster, heated seats (if so equipped) and heated steering wheel (if so equipped) may be activated automatically.

MANUAL OPERATION

Fan speed control

Turn the fan speed control dial to manually control the fan speed.

Press the AUTO button to return to automatic control of the fan speed.

Temperature control dial

The temperature control dial allows you to adjust the temperature of the outlet air. To lower the temperature, turn the dial to the left. To increase the temperature, turn the dial to the right.

Air recirculation

Press the air recirculation button to recirculate interior air inside the vehicle.

A/C (air conditioner) button

Start the engine, turn the fan speed control dial to the desired position and press the A/C button to turn on the air conditioner. To turn off the air conditioner, press the A/C button again.

The air conditioner cooling function operates only when the engine is running.

Air flow control

To manually control the air flow, press the button and then select the air flow mode.

— Air flows from center and side vents.

— Air flows from center and side vents and foot outlets.

— Air flows mainly from foot outlets.

— Air flows from defroster and foot outlets.

To turn system off

To turn off the heater and air conditioner, press the ON-OFF button. Press the ON-OFF button again, the system will turn on in the mode which was used immediately before the system was turned off.

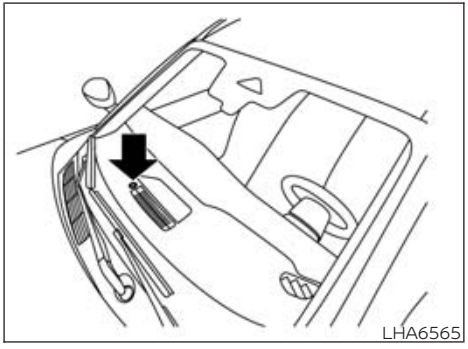
Rear window and outside mirror (if so equipped) defroster switch

For additional information, see "Rear window and outside mirror (if so equipped) defroster switch" (P. 128).

Heated seat switches (if so equipped)

For additional information, see "Heated seat switches" (P. 135).

OPERATING TIPS


LHA6565

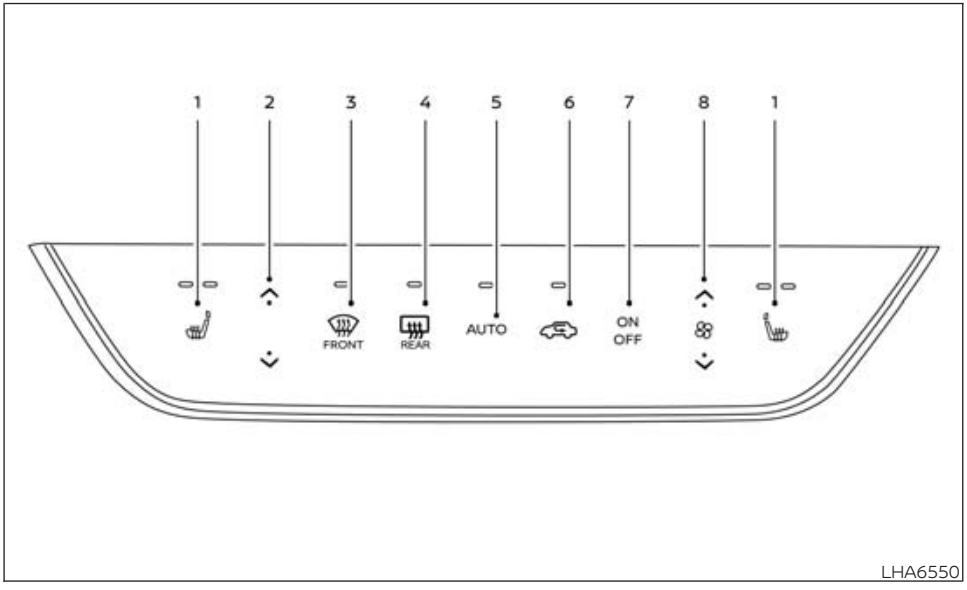
The sunload sensor, located on the instrument panel, as shown, helps the system maintain a constant temperature. Do not put anything on or around this sensor.

- When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for a maximum of 150 seconds. However, this is not a malfunction. After the coolant temperature warms up, air flow from the foot outlets will operate normally.
- If you feel that the air flow mode you have selected and the outlets the air is coming out do not match, select the mode.
- When you change the air flow mode, you may feel air flow from the foot outlets for just a moment. This is not a malfunction.

HEATER AND AIR CONDITIONER (automatic) (Type B) (if so equipped)

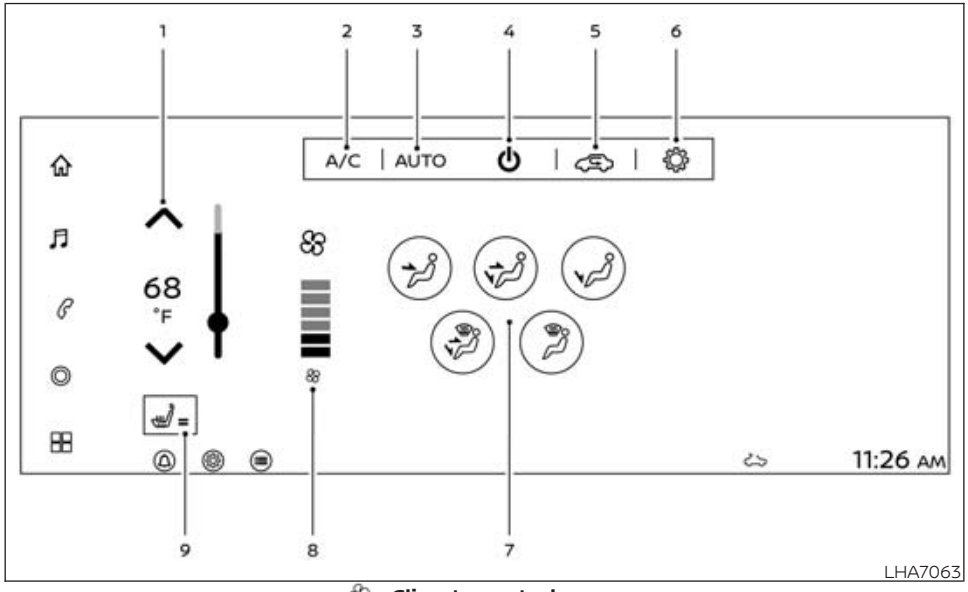
BASIC INFORMATION

Heater and air conditioner can be controlled from both the control panel and the " " Climate controls screen key on the display screen. When controlled from the control panel, a notification will pop up on the display.



Heater and air conditioner control panel

1. Heated seats (if so equipped)
2. , Temperature control
3. Front defroster
4. Rear window and outside mirror (if so equipped) defroster
5. AUTO
6. Air recirculation
7. ON-OFF
8. Fan speed control



Climate control screen

1. ^ , v Temperature control
2. A/C (air conditioner)
3. AUTO
4. ⏻ ON-OFF
5. Air recirculation
6. Settings
7. Manual air flow control
8. Fan speed control
9. Heated seats (if so equipped)

⚠WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

NOTE:

- **Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.**
- **When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.**

AUTOMATIC OPERATION

Cooling and/or dehumidified heating (AUTO)

This mode may be used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Press AUTO (the indicator will illuminate).
2. Use the ^ , v Temperature control to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- A visible mist may be seen coming from the vents in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Dehumidified defrosting or defogging

1. Press the Front defroster button on the heater and air conditioner control panel.
2. Use the ^ , v Temperature control to set the desired temperature.

- To quickly remove ice from the outside of the windows, set the fan speed to maximum.
- As soon as possible after the windshield is clean, press AUTO to return to the automatic mode.
- When the front defrost mode is activated, the air conditioner will automatically be turned on at outside temperatures more than slightly above freezing. The air recirculation mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Remote Engine Start with Intelligent Climate Control (if so equipped)

Vehicles equipped with automatic climate controls and Remote Engine Start function may go into automatic heating or cooling mode when Remote Engine Start is activated depending on outside and cabin temperatures. During this period, the climate control display and buttons will be inoperable until the ignition switch is placed in the ON position. In Remote Engine Start defrosting mode, the rear window defroster, heated seats (if so equipped) and heated steering wheel (if so equipped) may be activated automatically.

MANUAL OPERATION

Fan speed control

Use the ^ Fan speed control v to manually control the fan speed.

Press AUTO to return to automatic control of the fan speed.

Temperature control

Use the ^ , v Temperature control to set the desired temperature.

Air recirculation

Press the air recirculation (the indicator will illuminate) to recirculate interior air inside the vehicle.

Air flow control

Air flow control can be set on the Climate control screen.

To manually control the air flow use the air flow control (vents and outlets) or the Front defroster separately or use the Manual air flow control keys on the climate control screen.

— Air flows from center and side vents.

— Air flows from center and side vents and foot outlets.

— Air flows mainly from foot outlets.

— Air flows from center and side vents, defroster and foot outlets.

— Air flows mainly from defroster.

To turn system off

To turn off the heater and air conditioner, use the ON-OFF button. Repeating this operation again, the system will turn on in the mode which was used immediately before the system was turned off.

Rear window and outside mirror (if so equipped) defroster switch

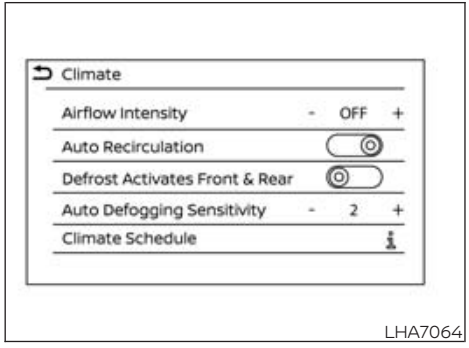
For additional information, see "Rear window and outside mirror (if so equipped) defroster switch" (P. 128).

Heated seat switches (if so equipped)

For additional information, see "Heated seat switches" (P. 135).

HEATER AND AIR CONDITIONER SETTINGS

Basic Information



LHA7064

Heater and air conditioner settings can be changed on the Climate control screen.

1. Press the Climate control.
2. Press the Settings

Available setting items may vary depending on models and specifications.

Airflow intensity

NOTE:

This setting can be used when the AUTO mode is turned on.

Touch the "+" or "-" keys to set the maximum air flow intensity as desired.

- By selecting Airflow Intensity on "3" the fan speed will be reduced at mid-high intensity.
- By selecting Airflow Intensity on "2" the fan speed will be reduced at mid intensity.
- By selecting Airflow Intensity on "1" the fan speed will be reduced at low intensity (around half speed of normal behavior).

Auto recirculation (if so equipped)

NOTE:

This setting can be used when the AUTO mode is turned on.

While this function is turned on, the system will automatically switch between recirculation of the air inside the vehicle or fresh air intake.

Defrost activates front & rear (if so equipped)

While this feature is turned on, pressing the Front defroster button on the control panel will also automatically activate the Rear window defroster.

Auto defogging sensitivity (if so equipped)

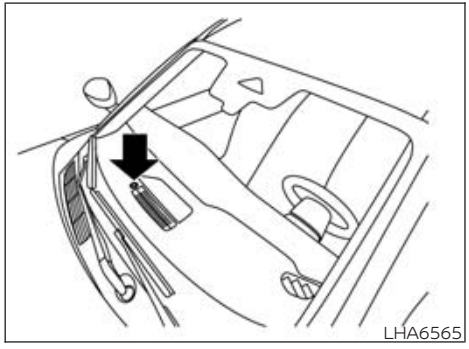
While this feature is turned on, the system will automatically activate the automatic defogging.

By selecting "1", "2" or "3" the frequency of the activation of the automatic defogging can be set as desired.

While this feature is turned off the automatic defogging function is not activated and can be manually controlled from the climate control panel.

Climate schedule

Setting a climate schedule will heat or cool the cabin to a desired temperature at the specific time that is set.


LHA6565

The sunload sensor, located on the instrument panel, as shown, helps the system maintain a constant temperature. Do not put anything on or around this sensor.

- When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for a maximum of 150 seconds. However, this is not a malfunction. After the coolant temperature warms up, air flow from the foot outlets will operate normally.
- If you feel that the air flow mode you have selected and the outlets the air is coming out do not match, select the mode.
- When you change the air flow mode, you may feel air flow from the foot outlets for just a moment. This is not a malfunction.

SERVICING AIR CONDITIONER

The air conditioner system in your NISSAN vehicle is charged with a refrigerant designed with the environment in mind.

This refrigerant does not harm the earth's ozone layer.

Special charging equipment and lubricant is required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioner system. For additional information, see "Air conditioner system refrigerant and oil recommendations" (P. 491).

It is recommended that you visit a NISSAN dealer to service your "environmentally friendly" air conditioner system.

⚠WARNING

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with proper equipment.

ANTENNA

ROOF MOUNTED ANTENNA

The antenna is located on the rear part of the vehicle roof.

⚠CAUTION

- **A build up of ice on the antenna can affect radio performance. Remove the ice to restore radio reception.**
- **When removing snow from the roof, do not apply strong force to the antenna. That might break the antenna and dent the roof panel.**
- **When using a high pressure car wash, keep the high pressure nozzle away from the antenna. The seal may be deformed or damaged.**
- **The radio performance may be affected if cargo carried on the roof blocks the radio signal. If possible, do not put cargo near the antenna.**

CAR PHONE OR CB RADIO

When installing a CB, ham radio or car phone in your vehicle, be sure to observe the following precautions; otherwise, the new equipment may adversely affect the engine control system and other electronic parts.

⚠ WARNING

- **A cellular phone should not be used for any purpose while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular phones while driving.**
- **If you must make a call while your vehicle is in motion, the hands free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

- **Keep the antenna as far away as possible from the electronic control modules.**
- **Keep the antenna wire more than 8 in (20 cm) away from the electronic control system harnesses. Do not route the antenna wire next to any harness.**
- **Adjust the antenna standing-wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the CB radio chassis to the body.**
- **For additional information, it is recommended that you visit a NISSAN dealer.**

iPod®/iPhone®

"Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance.

iPad, iPhone, iPod classic, iPod nano, iPod shuffle and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.

ACCENT LIGHT (if so equipped)

Allows user to adjust accent lighting.

On Audio screen, enter settings:

1. Select Interior Light
2. Select Accent Lighting
3. Adjust Accent Light brightness as desired

MEMO

5 Starting and driving

Precautions when starting and driving 229
- Basic Information 229
- Exhaust gas (carbon monoxide) 229
- Three-way catalyst 229
- Tire Pressure Monitoring System (TPMS) 230
- On-pavement and off-road driving precautions 233
- Avoiding collision and rollover 233
- Off-road recovery 233
- Rapid air pressure loss 234
- Drinking alcohol/drugs and driving 234
- Driving safety precautions 235

Push-button ignition switch 236
- Basic Information 236
- Operating range 237
- Push-button ignition switch positions 237
- Emergency engine shut off 238
- Automatic engine shut-off (if so equipped) 238
- NISSAN Intelligent Key® battery discharge 238
- NISSAN Anti-Theft System (NATS) 239
- NISSAN Vehicle Immobilizer System 239

Before starting the engine 240

Starting/stopping the engine 240
- Starting the engine 240
- Remote Engine Start (if so equipped) 241
- Stopping the engine 241

Driving the vehicle 241
- Continuously Variable Transmission (CVT) 241

Parking brake 245
- Basic Information 245
- Electronic parking brake (switch type) 245

Automatic brake hold 247
- Basic Information 247
- How to activate/deactivate the automatic brake hold function 248
- How to use the automatic brake hold function 248

Drive Mode Selector 249
- Basic Information 249
- STANDARD MODE 250
- SPORT mode 250
- SNOW mode (AWD models) 250
- OFF-ROAD mode (if so equipped) 250
- ECO 251

Traffic Sign Recognition (TSR) (if so equipped) 253
- Basic Information 253
- System operation 253
- System temporarily unavailable 254
- System malfunction 254
- System maintenance 254

Lane Departure Warning (LDW) 254
- Basic Information 254
- LDW system operation 255
- How to enable/disable the LDW system 257

Setting lane sensitivity 258
LDW system limitations 259
System temporarily unavailable 259
System malfunction 260
System maintenance 260
Intelligent Lane Intervention (I-LI) (if so equipped) 261
Basic Information 261
I-LI system operation 262
How to enable/disable the I-LI system 263
I-LI system limitations 264
System temporarily unavailable 265
System malfunction 265
System maintenance 265
Blind Spot Warning (BSW) 266
Basic Information 266
BSW system operation 267
How to enable/disable the BSW system 269
BSW system limitations 270
BSW driving situations 271
System temporarily unavailable 274
System maintenance 276
Intelligent Blind Spot Intervention (I-BSI) (if so equipped) 277
Basic Information 277
I-BSI system operation 278
How to enable/disable the I-BSI system 279
I-BSI system limitations 280
I-BSI driving situations 281
System temporarily unavailable 285
System malfunction 285
System maintenance 285
Rear Cross Traffic Alert (RCTA) 286
Basic Information 286
RCTA system operation 287
How to enable/disable the RCTA system 289
RCTA system limitations 291
System temporarily unavailable 293
System maintenance 295
Intelligent Cruise Control (ICC) (if so equipped) 296
Basic Information 296
How to select the cruise control mode 297
Vehicle-to-vehicle distance control mode 298
Vehicle-to-vehicle distance control mode operation 298
Vehicle-to-vehicle distance control mode switches 300
Vehicle-to-vehicle distance control mode limitations 304
System temporarily unavailable 307
System maintenance 309
Conventional (fixed speed) cruise control mode 310
ProPILOT Assist (if so equipped) 313
Basic Information 313
ProPILOT Assist system operation 314
Turning the conventional (fixed speed) cruise control mode on 317
Operating ProPILOT Assist 317
How to enable/disable the Steering Assist 321
Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist) 322

Steering Assist 331
Conventional (fixed speed) cruise control mode 336
Rear Automatic Braking (RAB) (if so equipped) . . . 339
Basic Information 339
RAB system operation 340
Turning the RAB system on/off 342
RAB system limitations 344
System temporarily unavailable 345
System malfunction 345
System maintenance 345
Automatic Emergency Braking (AEB) with Pedestrian Detection 346
Basic Information 346
AEB with Pedestrian Detection system operation 347
Turning the AEB with Pedestrian Detection system on/off 350
AEB with Pedestrian Detection system limitations 352
System temporarily unavailable 357
System malfunction 360
System maintenance 361
Intelligent Forward Collision Warning (I-FCW) 362
Basic Information 362
I-FCW system operation 363
Turning the I-FCW system on/off 366
I-FCW system limitations 367
System temporarily unavailable 370
System malfunction 372
System maintenance 373
Intelligent Driver Alertness (I-DA) 374
Basic Information 374
Intelligent Driver Alertness system operation 374
How to enable/disable the Intelligent Driver Alertness (I-DA) system 375
Intelligent Driver Alertness (I-DA) system limitations 377
Break-in schedule 378
Fuel efficient driving tips 378
Increasing fuel economy 379
Intelligent All—Wheel Drive (AWD) (if so equipped) 379
Parking/parking on hills 382
Power steering 383
Brake system 383
Basic Information 383
Brake precautions 383
Anti-lock Braking System (ABS) 384
Brake Assist 385
Vehicle Dynamic Control (VDC) system 385
Basic Information 385
Brake force distribution 386
Chassis Control 387
Basic Information 387
Intelligent Trace Control (I-TC) 387
Hill Start Assist 388
Hill descent control system (if so equipped) 389
Basic Information 389
Hill descent control switch (if so equipped) 389
Front and Rear Sonar System (if so equipped) . . . 390
Basic Information 390
System operation 391

How to enable/disable the front and rear sonar system . . . 393
Sonar limitations . . . 395
System temporarily unavailable . . . 395
System maintenance . . . 396
Idling Stop System (if so equipped) . . . 396
Basic Information . . . 396
Retrograde movement control function . . . 398
Idling Stop System display . . . 398
Idling Stop OFF switch (if so equipped) . . . 401
Cold weather driving . . . 401
Freeing a frozen door lock . . . 401
Antifreeze . . . 401
Battery . . . 401
Draining of coolant water . . . 401
Tire equipment . . . 402
Special winter equipment . . . 402
Driving on snow or ice . . . 402
Parking brake . . . 402
Engine block heater (if so equipped) . . . 402

PRECAUTIONS WHEN STARTING AND DRIVING

BASIC INFORMATION

⚠ WARNING

- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **To avoid raising the center of gravity excessively, do not exceed the rated capacity of the roof rack (if so equipped) and evenly distribute the load.**

EXHAUST GAS (carbon monoxide)

⚠ WARNING

- **Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**
- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for any extended length of time.**
- **Keep the rear vent windows, liftgates, doors and trunk lids (if so equipped) closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with one of these open, follow these precautions:**
  1. **Open all the windows.**
  2. **Set the air recirculation button to off and the fan control dial to high to circulate the air.**
- **If electrical wiring or other cable connections must pass to a trailer through the seal on the trunk lid or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  a. **The vehicle is raised for service.**
  b. **You suspect that exhaust fumes are entering into the passenger compartment.**
  c. **You notice a change in the sound of the exhaust system.**
  d. **You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.**

THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

⚠ WARNING

- **The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**

⚠CAUTION

- **Do not use leaded gasoline. Deposits from leaded gasoline will seriously reduce the three-way catalyst's ability to help reduce exhaust pollutants.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly. It is recommended that you visit a NISSAN dealer for this service.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

TIRE PRESSURE MONITORING SYSTEM (TPMS)

Basic Information

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information:

- When using a wheel without the TPMS such as a spare tire, the TPMS does not monitor the tire pressure of the spare tire.
- The TPMS will activate only when the vehicle is driven at speeds above 16 mph (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example, a flat tire while driving).

- The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 mph (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.
- The "Tire Pressure Low — Add Air" warning appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.
- The "Tire Pressure Low — Add Air" warning appears in the vehicle information display when the low tire pressure warning light is illuminated and low tire pressure is detected. The "Tire Pressure Low — Add Air" warning turns off when the low tire pressure warning light turns off.
- The "Tire Pressure Low — Add Air" warning does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.
- Tire pressure rises and falls depending on the heat caused by the vehicle's operation and the outside temperature. Do not reduce the tire pressure after driving because the tire pressure rises after driving. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates, check the tire pressure for all four tires.
- The Tire and Loading Information label is located in the driver's door opening.
- You can also check the pressure of all tires (except the spare tire) on the vehicle information display screen. The order of the tire pressure figures displayed on the screen corresponds with the actual order of the tire position.

For additional information, see "Low tire pressure warning light" (P. 79) and "Tire Pressure Monitoring System (TPMS)" (P. 453).

⚠ WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with underinflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light off. If you have a flat tire, repair it with an emergency tire puncture repair kit (if so equipped) as soon as possible or replace it with a spare tire (if so equipped) as soon as possible. (For additional information, see "Flat tire" (P. 407).)**
- **When using a wheel without the TPMS such as the spare tire, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended that you visit a NISSAN dealer for this service.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**
- **To help avoid serious personal injury or death, when checking your tire pressure, either as part of routine maintenance or because of a TPMS alert, please check the pressure in all of your tires. Driving on underinflated tires can cause tire failure and interfere with the proper operation of other vehicle systems.**

⚠CAUTION

- **The TPMS may not function properly when the wheels are equipped with tire chains or the wheels are buried in snow.**
- **Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.**

Some devices and transmitters may temporarily interfere with the operation of the TPMS and cause the low tire pressure warning light to illuminate.

Some examples are:

- Facilities or electric devices using similar radio frequencies are near the vehicle.
- If a transmitter set to similar frequencies is being used in or near the vehicle.
- If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.

The low tire pressure warning light may illuminate in the following cases:

- If the vehicle is equipped with a wheel and tire without TPMS.
- If the TPMS has been replaced and the ID has not been registered.
- If the wheel is not originally specified by NISSAN.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

TPMS with Easy-Fill Tire Alert

When adding air to an under-inflated tire, the TPMS with Easy-Fill Tire Alert provides visual and audible signals outside the vehicle to help you inflate the tires to the recommended COLD tire pressure.

Vehicle set-up

1. Park the vehicle in a safe and level place.
2. Apply the parking brake and place the shift lever in the P (Park) position.
3. Place the ignition switch in the ON position. Do not start the engine.

Operation

1. Add air to the tire.
2. After a few seconds, the hazard indicators will start flashing.
3. When the designated pressure is reached, the horn beeps once and the hazard indicators stop flashing.
4. Perform the above steps for each tire.
   - If the tire is over-inflated more than approximately 4 psi (30 kPa), the horn beeps and the hazard indicators flash three times. To correct the pressure, push the core of the valve stem on the tire briefly to release pressure. When the pressure reaches the designated pressure, the horn beeps once.
   - If the hazard indicator does not flash within approximately 15 seconds after starting to inflate the tire, it indicates that the Easy-Fill Tire Alert is not operating.

- The TPMS will not activate the Easy-Fill Tire Alert under the following conditions:
  - If there is interference from an external device or transmitter.
  - The air pressure from the inflation device is not sufficient to inflate the tire.
  - There is a malfunction in the TPMS.
  - There is a malfunction in the horn or hazard indicators.
  - The identification code of the tire pressure sensor is not registered to the system.
  - The battery of the tire pressure sensor is low.
- If the Easy-Fill Tire Alert does not operate due to TPMS interference, move the vehicle about 3 ft (1 m) backward or forward and try again.

If the Easy-Fill Tire Alert is not working, use a tire pressure gauge.

ON-PAVEMENT AND OFF-ROAD DRIVING PRECAUTIONS

Utility vehicles have a significantly higher rollover rate than other types of vehicles.

They have higher ground clearance than passenger cars to make them capable of performing in a variety of on-pavement and off-road applications. This gives them a higher center of gravity than ordinary vehicles. An advantage of higher ground clearance is a better view of the road, allowing you to anticipate problems. However, they are not designed for cornering at the same speeds as conventional 2-Wheel Drive vehicles any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. If at all possible, avoid sharp turns at high speeds. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover.

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

AVOIDING COLLISION AND ROLLOVER

⚠WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle.

As with any vehicle, loss of control could result in a collision with other vehicles or objects or cause the vehicle to roll over, particularly if the loss of control causes the vehicle to slide sideways.

Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in the "Safety – Seats, seat belts and supplemental restraint system" section of this manual, and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in collisions and rollovers.

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

OFF-ROAD RECOVERY

While driving, the right side or left side wheels may unintentionally leave the road surface. If this occurs, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

1. Remain calm and do not overreact.
2. Do not apply the brakes.
3. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
4. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
5. If there is nothing in the way, steer the vehicle to follow the road while vehicle speed is reduced. Do not attempt to drive the vehicle back onto the road surface until vehicle speed is reduced.

6. When it is safe to do so, gradually turn the steering wheel until both tires return to the road surface. When all tires are on the road surface, steer the vehicle to stay in the appropriate driving lane.
   - If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

RAPID AIR PRESSURE LOSS

Rapid air pressure loss or a "blow-out" can occur if the tire is punctured or is damaged due to hitting a curb or pothole. Rapid air pressure loss can also be caused by driving on under-inflated tires.

Rapid air pressure loss can affect the handling and stability of the vehicle, especially at highway speeds.

Help prevent rapid air pressure loss by maintaining the correct air pressure and visually inspecting the tires for wear and damage. For additional information, see "Wheels and tires" (P. 453). If a tire rapidly loses air pressure or "blows-out" while driving, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

⚠ WARNING

If there is a sudden loss of tire air pressure, the vehicle will generally move or pull in the direction of the flat tire. In this situation, losing control of the vehicle may cause a collision and result in personal injury.
To help avoid loss of control:

- **Do not rapidly apply the brakes.**
- **Do not rapidly release the accelerator pedal.**
- **Do not rapidly turn the steering wheel.**

1. Remain calm and do not overreact.
2. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
3. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
4. Gradually steer the vehicle to a safe location off the road and away from traffic if possible.
5. Lightly apply the brake pedal to gradually stop the vehicle.
6. Turn on the hazard warning flashers and contact a roadside emergency service to change the tire. For additional information, see "Changing a flat tire (models with spare tire)" (P. 408).

DRINKING ALCOHOL/DRUGS AND DRIVING

⚠ WARNING

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

NISSAN is committed to safe driving. However, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol-related collisions. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix! That is true for drugs (over-the-counter, prescription) and illegal drugs, too. Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

DRIVING SAFETY PRECAUTIONS

Your NISSAN is designed for both normal and off-road use. However, avoid driving in deep water or mud as your NISSAN is mainly designed for leisure use, unlike a conventional off-road vehicle.

Remember that 2-Wheel Drive (2WD) models are less capable than All-Wheel Drive (AWD) models for rough road driving and extrication when stuck in deep snow or mud, or the like.

Please observe the following precautions:

⚠ WARNING

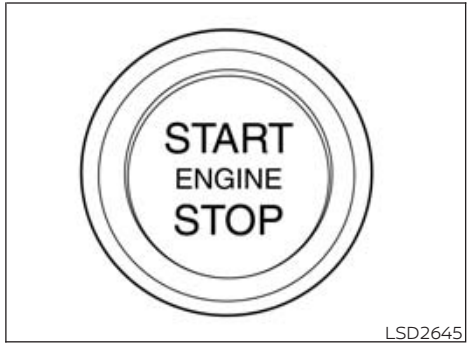
- **Spinning the front wheels on slippery surfaces may cause the AWD warning message to display and the AWD system to automatically switch from the AWD to the 2WD mode. This could reduce the traction.**
- **Drive carefully when off the road and avoid dangerous areas. Every person who drives or rides in this vehicle should be seated with their seat belt fastened. This will keep you and your passengers in position when driving over rough terrain.**
- **Do not drive across steep slopes. Instead drive either straight up or straight down the slopes. Off-road vehicles can tip over sideways much more easily than they can forward or backward.**
- **Many hills are too steep for any vehicle. If you drive up them, you may stall. If you drive down them, you may not be able to control your speed. If you drive across them, you may roll over.**
- **Do not shift gears while driving on downhill grades as this could cause loss of control of the vehicle.**
- **Stay alert when driving to the top of a hill. At the top there could be a drop-off or other hazard that could cause an accident.**
- **If your engine stalls or you cannot make it to the top of a steep hill, never attempt to turn around. Your vehicle could tip or roll over. Always back straight down in R (Reverse) gear and apply brakes to control your speed.**
- **Heavy braking going down a hill could cause your brakes to overheat and fade, resulting in loss of control and an accident. Apply brakes lightly and use a low gear to control your speed.**
- **Unsecured cargo can be thrown around when driving over rough terrain. Properly secure all cargo so it will not be thrown forward and cause injury to you or your passengers.**
- **Secure heavy loads in the cargo area as far forward and as low as possible. Do not equip the vehicle with tires larger than specified in this manual. This could cause your vehicle to roll over.**
- **Do not grip the inside or spokes of the steering wheel when driving off-road. The steering wheel could move suddenly and injure your hands. Instead drive with your fingers and thumbs on the outside of the rim.**
- **Before operating the vehicle, ensure that the driver and all passengers have their seat belts fastened.**
- **Always drive with the floor mats in place as the floor may become hot.**
- **Lower your speed when encountering strong crosswinds. With a higher center of gravity, your NISSAN is more affected by strong side winds. Slower speeds ensure better vehicle control.**
- **Do not drive beyond the performance capability of the tires, even with AWD engaged.**
- **For AWD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **Do not attempt to test an AWD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment even if the other two wheels are raised off the**

ground. Make sure you inform test facility personnel that your vehicle is equipped with AWD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

- **When a wheel is off the ground due to an unlevel surface, do not spin the wheel excessively.**
- **Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.**
- **If at all possible, avoid sharp turning maneuvers, particularly at high speeds. Your NISSAN vehicle has a higher center of gravity than a passenger car. The vehicle is not designed for cornering at the same speeds as passenger cars.**
- **Failure to operate this vehicle correctly could result in loss of control and/or a rollover accident.**
- **Always use tires of the same type, size, brand, construction (bias, bias-belted, or radial), and tread pattern on all four wheels. Install tire chains on the front wheels when driving on slippery roads and drive carefully.**
- **Be sure to check the brakes immediately after driving in mud or water. For additional information, see "Brake system" (P. 383).**
- **Avoid parking your vehicle on steep hills. If you get out of the vehicle and it rolls forward, backward or sideways, you could be injured.**
- **Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required. For additional information, see "Additional maintenance items for severe operating conditions" (P. 472).**

PUSH-BUTTON IGNITION SWITCH

BASIC INFORMATION



LSD2645

⚠ WARNING

Do not operate the push-button ignition switch while driving the vehicle except in an emergency. (The engine will stop when the ignition switch is pushed three consecutive times in less than 1.5 seconds or the ignition switch is pushed and held for more than 2 seconds.) If the engine stops while the vehicle is being driven, this could lead to a crash and serious injury.

When the ignition switch is pushed without depressing the brake pedal, the ignition switch will illuminate.

If the ignition switch is in the LOCK or OFF position, push the ignition switch center:

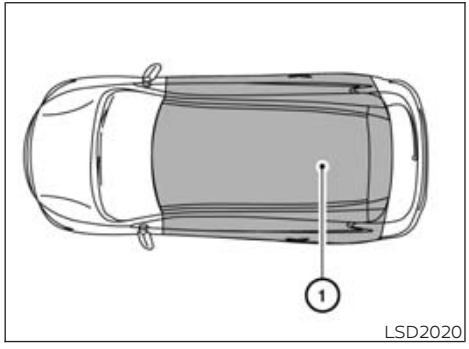
- Once to change to ON.
- Two times to change to OFF.

The shift lever can be moved from the P (Park) position if the ignition switch is in the ON position and the brake pedal is depressed.

If the battery of the vehicle is discharged, the ignition switch cannot be moved from the LOCK position.

Some indicators and warnings for operation are displayed on the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

OPERATING RANGE



LSD2020

The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range.

When the Intelligent Key battery is almost discharged or strong radio waves are present near the operating location, the Intelligent Key system's operating range becomes narrower and may not function properly.

If the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to push the ignition switch to start the engine.

The operating range of the engine start function is inside of the vehicle ①.

- The luggage area is not included in the operating range, but the Intelligent Key may function.
- If the Intelligent Key is placed on the instrument panel, inside the glove box, storage bin or door pocket, the Intelligent Key may not function.
- If the Intelligent Key is placed near the door or window outside the vehicle, the Intelligent Key may function.

PUSH-BUTTON IGNITION SWITCH POSITIONS

LOCK (Normal parking position)

The ignition switch can only be locked in this position.

The ignition switch will be unlocked when it is pushed to the ON position while carrying the Intelligent Key.

The ignition switch will lock when any door is opened or closed with the ignition switched off.

ON (Normal operating position)

The ignition system and the electrical accessory power activate at this position without the engine turned on.

ON has a battery saver feature that will place the ignition switch in the OFF position, if the vehicle is not running, after some time.

The battery saver feature will be canceled if any of the following occur:

- The ignition switch changes position.

⚠CAUTION

Do not leave the vehicle with the ignition switch in the ON or AUTO ACC position when the engine is not running for an extended period. This can discharge the battery.

OFF

The ignition switch is in the OFF position when the engine is turned off using the ignition switch.

AUTO ACC:

Ensure the vehicle is in the P (Park) position and the Intelligent Key is with you. Place the ignition switch from the ON to OFF position. The vehicle will go into AUTO ACC mode. In this mode, the audio system and other electronic accessories can still be used for a period of time under the following conditions:

- The driver's door has not been opened.
- Time period has not yet expired.

EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving, perform the following procedure:

- Rapidly push the ignition switch three consecutive times in less than 1.5 seconds, or
- Push and hold the ignition switch for more than 2 seconds.

AUTOMATIC ENGINE SHUT-OFF (if so equipped)

This system shuts off the engine automatically after an extended period of time if it has been left running while the shift lever is in the P (Park) position. This helps avoid unintentional idling, which can waste fuel.

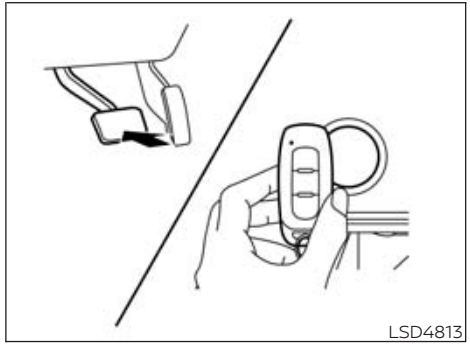
The last 30 seconds of engine run time will be indicated in the vehicle information display. At this time you can use the button on the steering wheel to select one of the following options:

- "OK" to clear the display and allow the system to shut off the engine. The engine will also shut off if nothing is selected.
- "Disable" to prevent the system from shutting off the engine for the remainder of this trip. The system cannot be cancelled permanently.

NOTE:

- **The timer that monitors idling will restart if the brake pedal or accelerator pedal is pressed, delaying the automatic engine shut-off activation.**
- **The system will automatically turn back on after the engine is restarted.**

NISSAN INTELLIGENT KEY® BATTERY DISCHARGE



If the battery of the NISSAN Intelligent Key® is discharged or environmental conditions interfere with the Intelligent Key operation, start the engine according to the following procedure:

1. Place the shift lever in the P (Park) position.
2. Firmly apply the foot brake.
3. Touch the ignition switch with the Intelligent Key as illustrated. (A chime will sound.)
   (After step 3 is performed, when the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change to ON.)
4. Push the ignition switch while depressing the brake pedal within 10 seconds after the chime sounds. The engine will start.

NOTE:

- **When the ignition switch is pushed to the ON position or the engine is started by the above procedure, the Intelligent Key battery discharge indicator appears in the vehicle information display even when the Intelligent Key is inside the vehicle. This is not a malfunction. To turn off the Intelligent Key battery discharge indicator, touch the ignition switch with the Intelligent Key again.**
- **If the Intelligent Key battery discharge indicator appears, replace the battery as soon as possible. For additional information, see "Intelligent Key battery replacement" (P. 449).**

NISSAN ANTI-THEFT SYSTEM (NATS)

The NISSAN Anti-Theft System (NATS) will not allow the engine to start without the use of the registered NATS key.

If the engine does not start by using the registered NATS key, it may be due to interference caused by:

- Another NATS key.
- An automated toll road device.
- An automated payment device.
- Other devices that transmit similar signals.

Start the engine using the following procedure:

1. Remove any items that may be causing the interference away from the NATS key.
2. Leave the ignition switch in the ON position for approximately 5 seconds.
3. Place the ignition switch in the OFF or LOCK position, and wait approximately 10 seconds.
4. Repeat steps 2 and 3.
5. Start the engine.
6. Repeat the steps above until all possible interferences are eliminated.

If this procedure allows the engine to start, NISSAN recommends placing the registered NATS key separate from other devices to avoid interference.

NISSAN VEHICLE IMMOBILIZER SYSTEM

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of the registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Place the ignition switch in the OFF or LOCK position, and wait approximately 10 seconds.
3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.

BEFORE STARTING THE ENGINE

- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake fluid, and windshield-washer fluid as frequently as possible, or at least whenever you refuel.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Lock all doors.
- Position seat and adjust headrests/head restraints.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when the ignition switch is pushed to the ON position. For additional information, see "Warning lights, indicator lights and audible reminders" (P. 73).

STARTING/STOPPING THE ENGINE

STARTING THE ENGINE

1. Check that the parking brake is applied.
2. With the shift position in P (Park) or N (Neutral), depress the brake pedal fully.
3. Push and release the ignition switch to start the engine.
   - If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and while holding, crank the engine. Release the accelerator pedal when the engine starts.
   - If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Push the ignition switch to the ON position to start cranking the engine. After 5 or 6 seconds, stop cranking by pushing the ignition switch to LOCK. After cranking the engine, release the accelerator pedal. Crank the engine with your foot off the accelerator pedal by depressing the brake pedal and pushing the ignition switch to start the engine. If the engine starts, but fails to run, repeat the above procedure.

⚠CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, push the ignition switch to the OFF position and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. **Warm-up:**

   Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at a moderate speed for a short distance first, especially in cold weather. In cold weather, keep the engine running for a minimum of 2 - 3 minutes before shutting it off. Starting and stopping the engine over a short period of time may make the vehicle more difficult to start.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (phone chargers, GPS, DVD players, etc.).**
2. **The vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

REMOTE ENGINE START (if so equipped)

Vehicles started with the Remote Engine Start require the ignition switch to be placed in the ON position before the shift lever can be moved from the P (Park) position. To place the ignition switch in the ON position, follow these steps:

1. Make sure that the Intelligent Key is on you.
2. Apply the brake.
3. Push the ignition switch once to the ON position.

For additional information, see "NISSAN Intelligent Key® system" (P. 162).

STOPPING THE ENGINE

⚠ WARNING

To avoid risk of injury or death from unwanted vehicle movement, make sure the vehicle is in the P (Park) position and parking brake is applied before exiting the vehicle.

To turn the vehicle OFF:

1. Apply the parking brake.
2. Move the shift lever to the P (Park) position.
3. Push the ignition switch.

Some electrical accessories, such as the audio system, can still be used. Once the driver's door is opened, these will turn off.

If the ignition switch is pushed with the shift lever in a position other than P (Park), the engine will shut off but the vehicle will go into AUTO ACC mode. A message may appear and an audible indicator may sound. Perform the following procedure to turn the vehicle off.

1. Check that the parking brake is applied.
2. Depress the brake pedal.
3. Move the shift lever to the P (Park) position.
4. Push the ignition switch.

DRIVING THE VEHICLE

CONTINUOUSLY VARIABLE TRANSMISSION (CVT)

Basic Information

⚠ WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or B (Brake). Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Never shift to either the P (Park) or R (Reverse) position while the vehicle is moving forward and P (Park) or D (Drive) position while the vehicle is reversing. This could cause an accident or damage the transmission.**

⚠CAUTION

- **Except in an emergency, do not shift to the N (Neutral) position while driving. Coasting with the transmission in the N (Neutral) position may cause serious damage to the transmission.**
- **To avoid possible damage to your vehicle, when stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.**

The CVT in your vehicle is electronically controlled to produce maximum power and smooth operation.

The recommended operating procedures for this transmission are shown on the following pages. Follow these procedures for maximum vehicle performance and driving enjoyment.

NOTE:

Engine power may be automatically reduced to protect the CVT if the engine speed increases quickly when driving on slippery roads or while being tested on some dynamometers.

Starting the vehicle

1. After starting the engine, fully depress the foot brake pedal before moving the shift lever out of the P (Park) position.
   This Continuously Variable Transmission is designed so that the foot brake pedal must be depressed before shifting from P (Park) to any driving position while the ignition switch is in the ON position.
   The shift lever cannot be shifted out of the P (Park) position and into any of the other positions if the ignition switch is placed in the LOCK or OFF position.
2. Keep the foot brake pedal depressed and move the shift lever to a driving position.
3. Release the parking brake and foot brake pedal, and then gradually start the vehicle in motion.

⚠WARNING

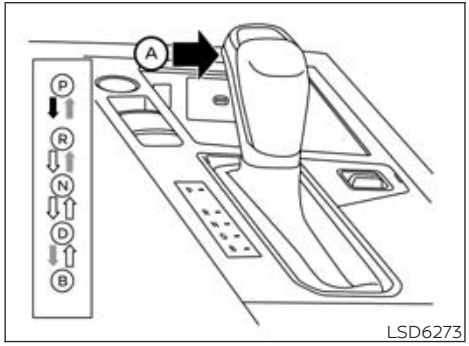
- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or B (Brake) position. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Never shift to either the P (Park) or R (Reverse) position while the vehicle is moving forward and P (Park) or D (Drive) position while the vehicle is reversing. This could cause an accident or damage the transmission.**

⚠CAUTION

- **To avoid possible damage to your vehicle, when stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.**
- **Except in an emergency, do not shift to the N (Neutral) position while driving. Coasting with the transmission in the N (Neutral) position may cause serious damage to the transmission.**

Shifting

Basic Information



LSD6273

To move the shift lever:

- ➡
  Press the button Ⓐ while depressing the brake pedal
- ⇛
  Press the button Ⓐ to shift
- ⇨
  Shift without pressing the button Ⓐ

After starting the engine, fully depress the brake pedal and move the shift lever from P (Park) to any of the desired shift positions.

⚠WARNING

Apply the parking brake if the shift lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

P (Park)

⚠CAUTION

To prevent transmission damage, use the P (Park) position only when the vehicle is completely stopped.

Use the P (Park) shift lever position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped.

The brake pedal should be depressed to move the shift lever from N (Neutral) or any drive position to P (Park).

Apply the parking brake. When parking on a hill, apply the parking brake first, then move the shift lever into the P (Park) position.

R (Reverse)

⚠CAUTION

To prevent transmission damage, use the R (Reverse) position only when the vehicle is completely stopped.

Use the R (Reverse) position to back up. Make sure the vehicle is completely stopped before selecting the R (Reverse) position. **The brake pedal must be depressed in to move the shift lever from P (Park) or the shift lever button pressed in from N (Neutral) or any drive position to R (Reverse).**

N (Neutral)

Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

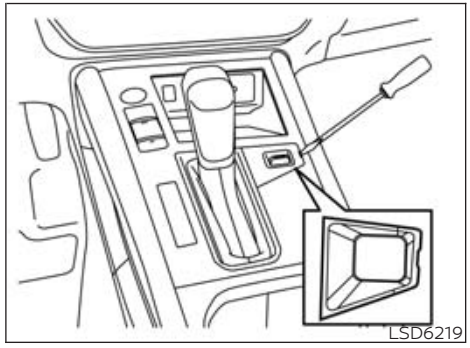
D (Drive)

Use this position for all normal forward driving.

B (Brake)

Use this position for engine braking on steep downhill gradients/climbing steep slopes and whenever approaching sharp bends. Do not use the B (Brake) position in any other circumstances.

Shift lock release


LSD6219

If the battery charge is low or discharged, the shift lever may not be moved from the P (Park)

position even with the brake pedal depressed and the shift lever button pressed.

It will be necessary to jump start or have your battery charged. For additional information, see "Jump starting" (P. 416). It is recommended that you visit a NISSAN dealer or a professional towing service.

To move the shift lever, complete the following procedure:

1. Push the ignition switch to the LOCK position.
2. Apply the parking brake.
3. Using a protective cloth on the tip of a small (1/8 inch or 3 mm) flat-head screwdriver, remove the shift lock release cover.
   - If available, a plastic trim tool can also be used.
4. Insert the rod from the spare tire tool kit into the shift lock release slot and push in at an angle (about 90°). A small screwdriver or small trim tool may also be used.
   - For additional information, see "NISSAN Intelligent Key® system" (P. 162).
5. Move the shift lever to the N (Neutral) position while holding down the shift lock release.
6. Push the ignition switch to the ON position. Now the vehicle may be moved to the desired location.

If the shift lever cannot be moved out of P (Park), have the transmission checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

⚠CAUTION

Make sure to take extra care during the removal of the shift lock cap as this part is easily damaged.

⚠WARNING

If the shift lever cannot be moved from the P (Park) position while the engine is running and the brake pedal is depressed, the stop lights may not work. Malfunctioning stop lights could cause an accident injuring yourself and others.

Accelerator downshift — in D (Drive) position —

For passing or hill climbing, depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.

High fluid temperature protection mode

This transmission has a high fluid temperature protection mode. If the fluid temperature becomes too high (for example, when climbing steep grades in high temperatures with heavy loads, such as when towing a trailer), engine power and, under some conditions, vehicle speed will be decreased automatically to reduce the chance of transmission damage. Vehicle speed can be controlled with the accelerator pedal, but the engine and vehicle speed may be limited.

Fail-safe

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. The Malfunction Indicator Light (MIL) may come on to indicate the fail-safe mode is activated. For additional information, see "Malfunction Indicator Light (MIL)" (P. 80). This will occur even if all electrical circuits are functioning properly. In this case, place the ignition switch in the OFF position and wait for 10 seconds. Then push the switch back to the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have the transmission checked and repaired, if necessary. It is recommended that you visit a NISSAN dealer for this service.

⚠WARNING

When the high fluid temperature protection mode or fail-safe operation occurs, vehicle speed may be gradually reduced. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If necessary, pull to the side of the road at a safe place and allow the transmission to return to normal operation, or have it repaired if necessary.

PARKING BRAKE

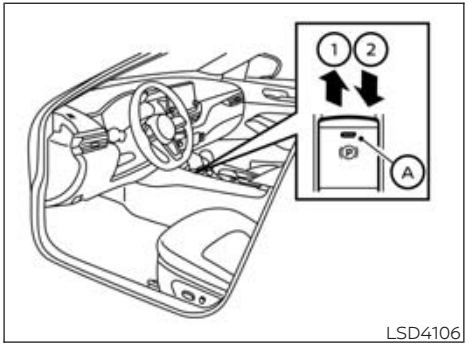
BASIC INFORMATION

⚠ WARNING

- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the shift lever in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

ELECTRONIC PARKING BRAKE (switch type)

Basic Information



LSD4106

The electronic parking brake can be applied or released automatically or by operating the parking brake switch.

Automatic operation

Under the following conditions, the electronic parking brake will automatically be applied and the brake force of the automatic brake hold function will be released:

- Automatic brake hold indicator light turns off.
- The driver's door is opened.
- The braking force is applied by the automatic brake hold function for 3 minutes or longer.
- The vehicle is in the P (Park) position.
- The driver's seat belt is unfastened.
- The ignition switch is placed in the OFF position.
- The parking brake is applied manually.
- If a malfunction occurs in the automatic brake hold function.

The electronic parking brake is automatically released as soon as the vehicle starts and the accelerator pedal is depressed with the driver's seat belt fastened.

⚠ WARNING

- **When the automatic brake hold function is activated, the electronic parking brake will not be automatically applied when the engine is stopped without using the ignition switch (for example, by engine stalling).**
- **Before leaving the vehicle, move the shift lever to the P (Park) position and check that the electronic parking brake warning light is illuminated to confirm that the electronic parking brake is applied. The electronic parking brake warning light will remain on for a period of time after the driver's door is locked.**

⚠CAUTION

When parking in an area where the outside temperature is below 32˚F (0˚C), the parking brake, if applied, may freeze in place and may be difficult to release.

For safe parking, it is recommended that you place the shift lever in the P (Park) position and securely block the wheels.

NOTE:

- **To keep the electronic parking brake released after the engine is turned off, place the ignition switch in the OFF position, depress the brake pedal and push down the parking brake switch before opening the driver's door.**
- **If a malfunction occurs in the electronic parking brake system (for example, due to battery discharge), it is recommended that you visit a NISSAN dealer.**
- **Under the following conditions, the parking brake will automatically be applied and the brake force of the automatic brake hold will be released:**
  - **The braking force is applied by the automatic brake hold function for 3 minutes or longer.**
  - **The shift lever is in the P (Park) position.**
  - **The driver's seat belt is unfastened.**
  - **The ignition switch is placed in the OFF position.**
  - **The parking brake is applied manually.**
  - **If a malfunction occurs in the automatic brake hold function.**

Manual operation

The electronic parking brake will not be automatically applied if the engine is stopped without using the ignition switch (for example, by engine stalling). In such a case, you have to apply the parking brake manually.

To apply: Pull the switch up ①. The indicator light Ⓐ will illuminate.

To release: With the ignition switch in the ON position, depress the brake pedal and push the switch down ②. The indicator light Ⓐ will turn off.

Before driving, check that the electronic parking brake indicator light ((P) or PARK) goes out. For additional information, see "Warning lights, indicator lights and audible reminders" (P. 73).

NOTE:

- **A buzzer will sound if the vehicle is driven without releasing the parking brake. For additional information, see "Warning lights, indicator lights and audible reminders" (P. 73).**
- **While the electronic parking brake is applied or released, an operating sound is heard from the lower side of the rear seat. This is normal and does not indicate a malfunction.**
- **When the electronic parking brake is frequently applied and released in a short period of time, the parking brake may not operate in order to prevent the parking brake system from overheating. If this occurs, operate the electronic parking brake switch again after waiting approximately 1 minute.**
- **If the electronic parking brake must be applied while driving in an emergency, pull up and hold the parking brake switch. When you release the parking brake switch, the parking brake will be released.**
- **While pulling up the electronic parking brake switch during driving, the parking brake is applied and a chime sounds. The electronic parking brake indicator light in the meter and in the parking brake switch illuminates. This does not indicate a malfunction. The electronic parking brake indicator light in the meter and in the parking brake switch turns off when the parking brake is released.**
- **When pulling the electronic parking brake switch up with the ignition switch in the OFF or AUTO ACC position, the parking brake switch indicator light will continue to illuminate for a short period of time.**

AUTOMATIC BRAKE HOLD

BASIC INFORMATION

The automatic brake hold function maintains the braking force without the driver having to depress the brake pedal when the vehicle is stopped at a traffic light or intersection. As soon as the driver depresses the accelerator pedal again, the automatic brake hold function is deactivated and the braking force is released. The operating status of the automatic brake hold function can be displayed. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

To use the automatic brake hold function, the following conditions need to be met:

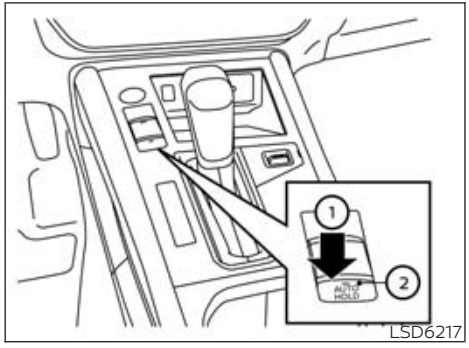
- The driver's seat belt is fastened.
- The electronic parking brake is released.
- The vehicle is not in the P (Park) position.
- The vehicle is not stopped on a steep hill.

⚠ WARNING

- **The automatic brake hold function is not designed to hold the vehicle on a steep hill or slippery road. Never use the automatic brake hold function when the vehicle is stopped on a steep hill or slippery road. Failure to do so may cause the vehicle to move.**
- **The automatic brake hold warning may appear in the vehicle information display to request that the driver retake control by depressing the brake pedal**
- **When the automatic brake hold function is activated but fails to maintain the vehicle at a standstill, depress the brake pedal to stop the vehicle. If the vehicle unexpectedly moves due to outside conditions, the chime may sound and warnings may appear.**
- **Be sure to deactivate the automatic brake hold function when using a car wash machine, towing your vehicle or overloaded.**
- **Make sure the vehicle is in the P (Park) position and apply the parking brake when parking your vehicle, riding on or off the vehicle, or loading or unloading luggage. Failure to do so could cause the vehicle to move or roll away unexpectedly and result in serious personal injury or property damage.**
- **If any of the following conditions occur, the automatic brake hold function may not function. Have the system checked promptly. It is recommended that you visit a NISSAN dealer for this service. Failure to operate the vehicle in accordance with these conditions could cause the vehicle to move or roll away unexpectedly and result in serious personal injury or property damage.**
  - **A warning message appears.**
  - **The indicator light on the automatic brake hold switch does not illuminate when the switch is pushed.**
- **The automatic brake hold function will not be activated if the slip indicator light, electronic parking brake warning light or electronic parking brake indicator light or master warning light illuminate and the chassis control system error warning message appears.**
- **To maintain the braking force to keep the vehicle to a standstill, a noise may be heard. This is not a malfunction.**
- **Automatic brake hold function is operated by applying sufficient braking force to hold the vehicle in its place, so there are cases when this hold function is maintained even if the accelerator pedal is depressed. In this situation, it is advised to depress the brake pedal first, then to turn off the Automatic brake hold switch. This will cancel the hold function.**

HOW TO ACTIVATE/DEACTIVATE THE AUTOMATIC BRAKE HOLD FUNCTION

Basic Information



For additional information on activating and deactivating the automatic brake hold function, see "Automatic brake hold" (P. 247).

How to activate the automatic brake hold function

1. With the ignition switch in the ON position, push the automatic brake hold switch ①. The indicator light on the automatic brake hold switch ② illuminates.
2. When the automatic brake hold function goes into standby, the automatic brake hold indicator light (white) illuminates.

To use the automatic brake hold function, the following conditions need to be met:

- The driver's seat belt is fastened.
- The electronic parking brake is released.
- The vehicle is not in the P (Park) position.
- The vehicle is not stopped on a steep hill.

NOTE:

The Automatic brake hold function retains the last state until the driver changes the option even if the ignition switch is turned off.

How to deactivate the automatic brake hold function

While the automatic brake hold function is activated, push the automatic brake hold switch to turn off the automatic brake hold indicator light and deactivate the automatic brake hold function. To deactivate the automatic brake hold function while the brake force has been maintained by the automatic brake hold function, depress the brake pedal and push the automatic brake hold switch.

⚠WARNING

Make sure to firmly depress and hold the brake pedal when turning off the automatic brake hold function while the brake force is applied. When the automatic brake hold function is deactivated, the brake force will be released. This could cause the vehicle to move or roll away unexpectedly. Failure to prevent the vehicle from rolling may result in serious personal injury or property damage.

HOW TO USE THE AUTOMATIC BRAKE HOLD FUNCTION

Basic Information

For additional information on using the automatic brake hold function, see "Automatic brake hold" (P. 247).

To maintain braking force automatically

With the Automatic brake hold function activated and the Automatic brake hold indicator light (white) illuminated, depress the braking pedal to stop the vehicle, and the Automatic brake hold indicator light (green) illuminates. The braking force is automatically applied without your foot depressed on the brake pedal. While the braking force is maintained, the Automatic brake hold indicator light (green) illuminates.

The Automatic brake hold indicator light (green) will not illuminate if the brake pedal is not depressed with sufficient force to hold the vehicle or is released too quickly when the vehicle is stopped. Confirm the Automatic brake hold indicator light (green) is illuminated before removing your foot from the brake pedal.

To start the vehicle from a standstill

With the vehicle not in the P (Park) or N (Neutral) position, depress the accelerator pedal while the brake force is maintained. The brake force will automatically be released to restart the vehicle.

The automatic brake hold indicator light (white) illuminates and the automatic brake hold function returns to standby.

Parking

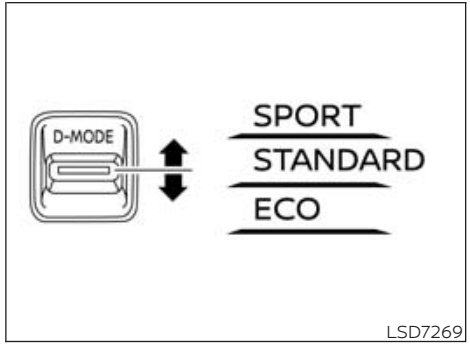
When the vehicle is in the P (Park) position with the brake force maintained by the automatic brake hold function, the parking brake will automatically be applied and the brake force of the automatic brake hold function will be released. The automatic brake hold indicator light turns off. When the electronic parking brake is applied with the brake force maintained by the automatic brake hold function, the brake force of the automatic brake hold function will be released. The automatic brake hold indicator light turns off.

NOTE:

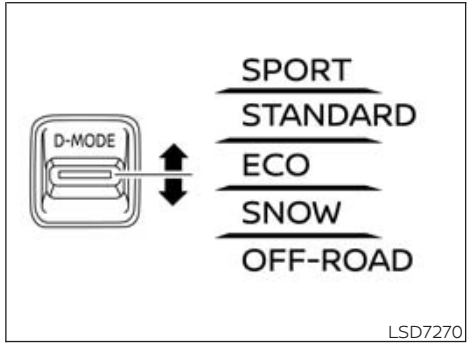
- **Under the following conditions, the electronic parking brake will automatically be applied and the brake force of the automatic brake hold function will be released:**
  - **Automatic brake hold indicator light turns off.**
  - **The driver's door is opened.**
  - **The braking force is applied by the automatic brake hold function for 3 minutes or longer.**
  - **The vehicle is in the P (Park) position.**
  - **The driver's seat belt is unfastened.**
  - **The ignition switch is placed in the OFF position.**
  - **The parking brake is applied manually.**
  - **If a malfunction occurs in the automatic brake hold function.**
- **When the vehicle stops, but the brake force is not automatically applied, depress the brake pedal firmly until the automatic brake hold indicator light (green) illuminates.**
- **When the vehicle stops on a slope, depress the brake pedal firmly until the Automatic brake hold indicator light (green) illuminates.**

DRIVE MODE SELECTOR

BASIC INFORMATION



Drive Mode Selector (2WD models)



Drive Mode Selector (AWD models)

Multiple driving modes can be selected by using the Drive Mode Selector.

2WD: SPORT, STANDARD, and ECO

To change the mode, push the Drive Mode Selector up or down.

AWD: SPORT, STANDARD, ECO, SNOW and OFF-ROAD

To change the mode, push the Drive Mode Selector up or down.

NOTE:

When the Drive Mode Selector selects a mode, the mode may not switch immediately. This is not a malfunction.

The current mode is displayed in the vehicle information display. The mode list will appear in the vehicle information display and you can select the mode.

NOTE:

The mode list will be turned off in approximately 5 seconds after the mode is selected.
You can also clear the message by pushing the scroll dial on the steering wheel mounted controls.

If the driving mode cannot be switched using the Drive Mode Selector when the ignition switch is in the ON position, have the system checked. It is recommended you visit a NISSAN dealer for this service.

NOTE:

The STANDARD MODE will be selected first each time the ignition switch is placed in the ON position.

⚠ WARNING

- **Do not stare at the Drive Mode Selector or the display while driving so that full attention may be given to vehicle operation.**
- **Avoid abrupt acceleration, steering or sudden braking especially on slippery roads. Otherwise tire slip, skid or tail-swing occurs; this may cause an accident.**

STANDARD MODE

This is the standard mode that is most suitable for normal driving.

SPORT MODE

- Adjusts the engine and transmission points for a higher response.
- The setting of the steering system is adjusted to moderately increase steering wheel effort for a sporty feel.

NOTE:

In the SPORT mode, fuel economy may be reduced.

SNOW MODE (AWD models)

This mode makes it easier to start and drive on snowy roads and frozen roads.

⚠ CAUTION

Never drive on dry, hard surface roads in the SNOW mode, as this will overload the powertrain and may cause a serious malfunction. Additionally, this will cause premature tire wear and reduced fuel economy.

When the SNOW mode is selected, small vibration in cornering may occur. This is not a malfunction.

OFF-ROAD MODE (if so equipped)

Allows for easier driving or starting on a bumpy road surface such as an uneven dirt road or a steep uphill slope or through sand.

The Idling Stop System is disabled when the vehicle is in OFF ROAD mode.

⚠ CAUTION

Never drive on dry, hard surface roads in the OFF-ROAD mode, as this will overload the powertrain and may cause a serious malfunction. Additionally, this will cause premature tire wear and reduced fuel economy. When the OFF-ROAD mode is selected, small tight-corner braking phenomenon or small vibration in cornering may occur. This is not a malfunction

ECO

Basic Information

Assists the driver's ECO-driving. The engine and transmission points are adjusted for improved fuel economy, providing such driving features as smooth starting or constant cruising.

NOTE:

- **Selecting the ECO will not necessarily improve fuel economy as many driving factors influence its effectiveness.**
- **It is recommended to select other than ECO when acceleration is required such as when:**
  - **Driving with a heavy load of passengers or cargo in the vehicle.**
  - **Driving on a steep uphill slope.**

Operation

Select the ECO using the Drive Mode Selector. The ECO indicator illuminates.

When the accelerator pedal is depressed within the range of economy drive, the ECO drive indicator illuminates in green. When the accelerator pedal is depressed above the range of economy drive, the ECO drive indicator turns off.

The ECO drive indicator will not illuminate in the following cases:

- When the shift lever is in the R (Reverse) position.
- When the vehicle speed is below 2 mph (3.2 km/h) or over 90 mph (144 km/h).
- When the Intelligent Cruise Control (ICC) system (if so equipped) or the ProPILOT Assist system (if so equipped) is operated.

ECO Customize

The ECO mode changes the air conditioning, cruise control, and idling stop settings to save fuel. You can use the ECO customize menu to adjust these settings to balance the fuel economy and performance for your preference. To activate or deactivate this function, see "ECO Setting" (P. 109).

- Cruise Control

  When the setting is set to ON, The cruise control acceleration characteristic is less aggressive to improve fuel efficiency. When the setting is OFF the cruise control uses the normal acceleration characteristics.

NOTE:

When the vehicle speed is reduced (for example, when the vehicle is driven on an uphill road from a flat road), it will take more time to return to the previously set speed than normal mode.

- Idling Stop

  When the setting is set to ON, when idling stop activates the engine remains off for a longer time than normal mode while using the air conditioner. This improves fuel efficiency by increasing engine off time when vehicle is stopped. For details about Idling Stop System, see "Idling Stop System" (P. 396)

- Air Conditioning

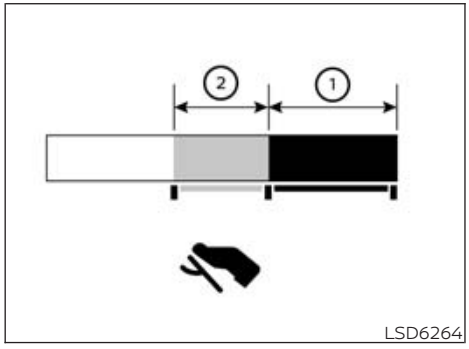
  If the eco customize air conditioning control is set to ON, the fuel efficiency will be improved by reducing the performance of the air conditioning system.

Tire Pres ECO advice

The "Tire Pres ECO advice" is a function to show ECO advice information in the vehicle information display when low tire pressure is detected. To activate or deactivate this function, see "ECO Setting" (P. 90) or "ECO Mode Setting" (P. 109).

When the setting is on, the ECO Drive Report display shows "See Tire Pressures". You can switch the display to the Tire Pressures display by selecting it in the vehicle information display.

ECO pedal guide function (if so equipped)



The ECO Pedal Guide display can be selected in the vehicle information display in the ECO. Use the ECO Pedal Guide function for improving fuel economy.

When the ECO Pedal Guide bar is in the green range ①, it indicates that the vehicle is being driven within range of the super economy drive.

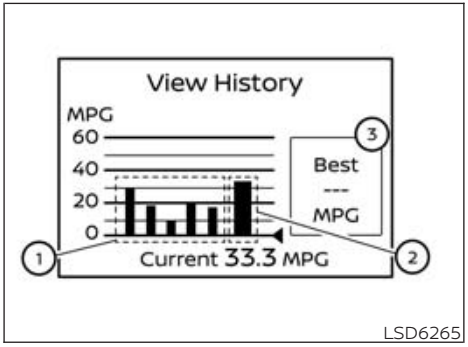
When the ECO Pedal Guide bar is in the light green range ②, it indicates that the vehicle is being driven within range of the economy drive.

If the ECO Pedal Guide bar is out of the green range (① and ②), it indicates that the accelerator pedal is depressed over the range of economy drive.

The ECO Pedal Guide bar is not displayed when:

- The vehicle speed is less than approximately 2 mph (4 km/h).
- The shift lever is in the P (Park), N (Neutral) or R (Reverse) position.

Eco Drive Report (if so equipped)



When the ignition switch is in the OFF position, the ECO management display appears.

① Previous 5 times (History)
② Current fuel economy
③ Best fuel economy

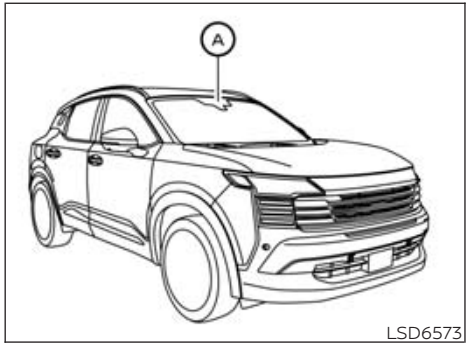
The result of ECO evaluation is displayed 30 seconds after the ignition switch is placed in the ON position and the vehicle is driven at least 1/3 miles (500 meters).

① The average fuel economy for the previous 5 times will be displayed.
② The average fuel economy since the last reset will be displayed.
③ The best fuel economy of the past history will be displayed.

The ECO Drive Report can be set to be ON or OFF.

TRAFFIC SIGN RECOGNITION (TSR) (if so equipped)

BASIC INFORMATION



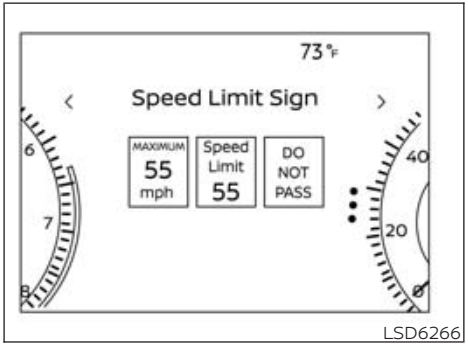
LSD6573

The TSR system provides the driver with information about the most recently detected speed limit. The system captures the road sign information with the multi-sensing front camera unit Ⓐ located on the windshield in front of the inside rearview mirror and displays the detected signs in the vehicle information display. TSR information is always displayed at the top of the vehicle information display, and optionally in the main central area of the display screen.

⚠WARNING

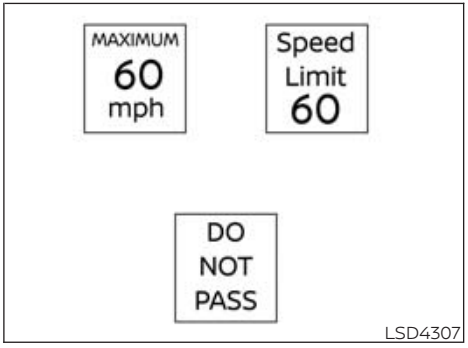
The TSR system is only intended to be a support device to help provide the driver with information. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness. It is the driver's responsibility to stay alert and drive safely at all times.

SYSTEM OPERATION



LSD6266

The Traffic Sign Recognition (TSR) system displays the following types of road signs:



LSD4307

⚠CAUTION

- **The TSR system is intended as an aid to careful driving. It is the driver's responsibility to stay alert, drive safely, and observe all road regulations that currently apply, including looking out for road signs.**
- **The TSR system may not function properly under the following conditions:**
  - **When the road sign is not clearly visible, for example, due to damage or weather conditions.**
  - **When rain, snow or dirt adheres to the windshield in front of the multi-sensing camera unit.**

- **When the headlights are not bright, for example, due to dirt on the lens or if the aiming is not adjusted properly.**
- **When strong light enters the camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)**
- **When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)**
- **If there are deviations in relation to the navigation, for example due to changes in the road routing.**
- **When overtaking buses or trucks with speed stickers.**

SYSTEM TEMPORARILY UNAVAILABLE

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F [40°C]) and then started, the TSR system may be deactivated automatically. The "Unavailable: High Cabin Temperature" warning message will appear in the vehicle information display.

Action to take:

When the interior temperature is reduced, the TSR system will resume operating automatically.

SYSTEM MALFUNCTION

If the TSR system malfunctions, it will be turned off automatically and the system "Malfunction" warning message will appear in the vehicle information display.

Action to take:

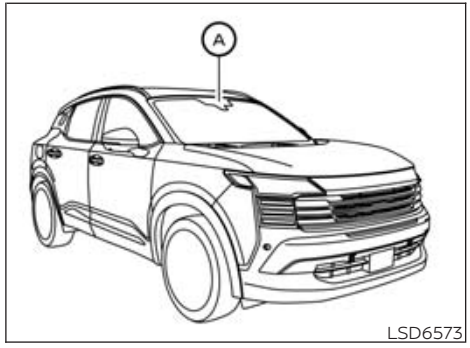
If the TSR "Malfunction: See Owner's Manual" message appears, pull off the road at a safe location and stop the vehicle. Turn the engine off and restart the engine. If the TSR "Malfunction: See Owner's Manual" message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

The TSR system uses the same multi-sensing front camera unit that is used by the Lane Departure Warning (LDW) system, located in front of the interior rearview mirror. For additional information, see "System maintenance" (P. 260).

LANE DEPARTURE WARNING (LDW)

BASIC INFORMATION



LSD6573

⚠WARNING

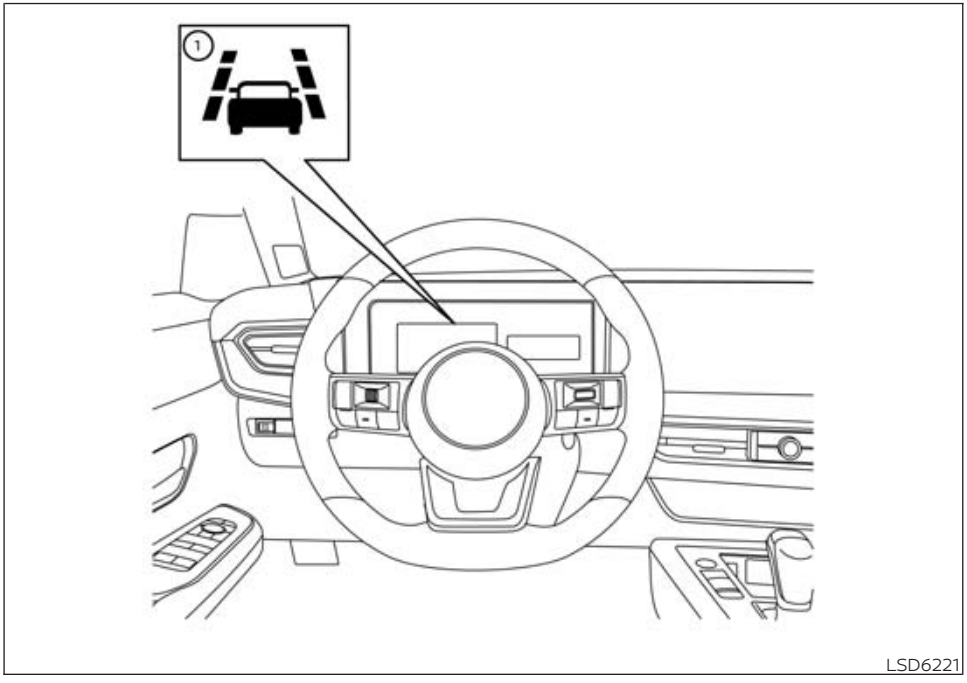
Failure to follow the warnings and instructions for proper use of the LDW system could result in serious injury or death.

- **This system is only a warning device to inform the driver of a potential unintended lane departure. It will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**

The LDW system will operate when the vehicle is driven at speeds of approximately 37 mph (60 km/h) and above, and only when the lane markings or road edge are clearly visible on the road.

The LDW system monitors the lane markers on the traveling lane using the camera unit Ⓐ located above the inside mirror.

The LDW system warns the driver that the vehicle is beginning to leave the driving lane with an indicator and a steering wheel vibration. For additional information, see "LDW system operation" (P. 255).

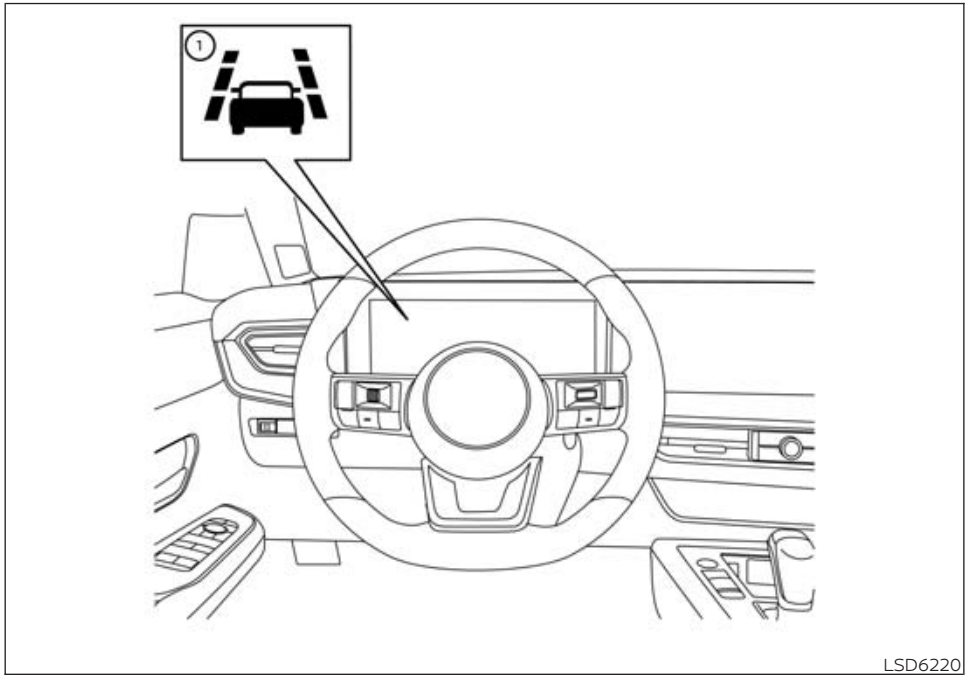


For vehicles with the 7 inch (18 cm) display

LDW SYSTEM OPERATION

① Lane Departure Warning (LDW) indicator

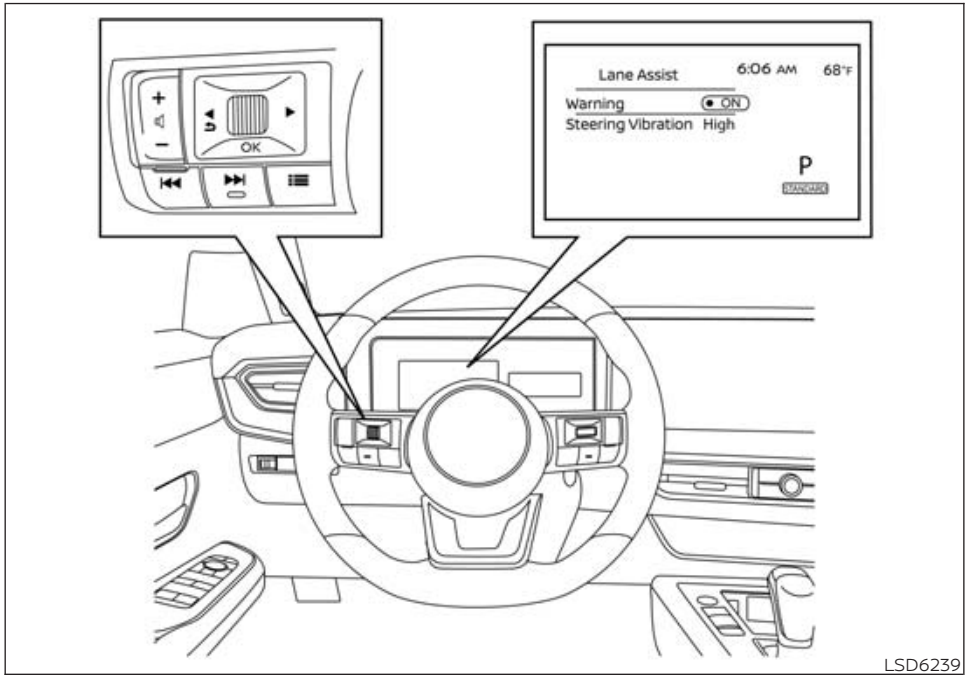
The LDW system provides a lane departure warning function when the vehicle is driven at speeds of approximately 37 mph (60 km/h) and above and the lane markings or road edge are clear. When the vehicle approaches either the left or the right side of the traveling lane, the steering wheel will vibrate and the LDW indicator on the instrument panel will blink to alert the driver.



For vehicles with the 12.3 inch (31.2 cm) display

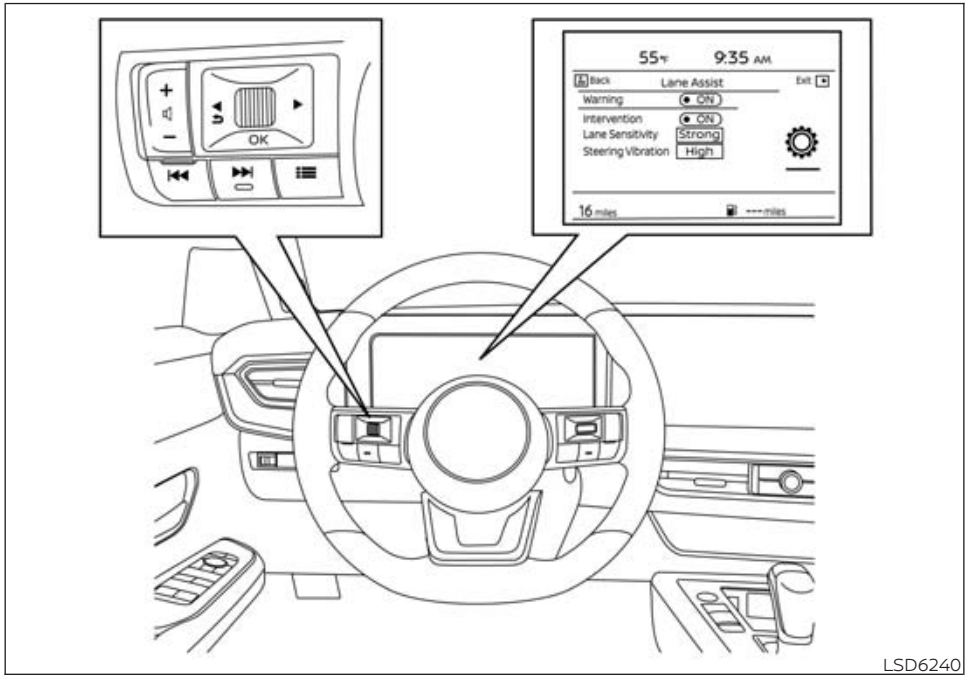
The warning function will stop when the vehicle returns inside of the lane markers.

The strength of the steering wheel vibration can be changed in the settings menu of the vehicle information display. For additional information, see "Driver Assistance" (P. 89, 108).



For vehicles with the 7 inch (18 cm) display

HOW TO ENABLE/DISABLE THE LDW SYSTEM



For vehicles with the 12.3 inch (31.2 cm) display

Perform the following steps to enable or disable the LDW system.

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Lane Assist" and press the OK button.
3. Select "Warning" and press the OK button to turn the system on or off.

NOTE:

When enabling/disabling the system, the system will retain current setting even if the engine is restarted.

SETTING LANE SENSITIVITY

You can set lane sensitivity using the "Setting" menu in the vehicle information display.

1. Press the ◀▶ button until "Settings" appears in the vehicle information display and then push the scroll dial to select "Driver Assistance". Then push the scroll dial.
2. Select "Lane Assist" and push the scroll dial.
3. Select "Lane Sensitivity".
   - Strong
   - Normal
   - Mild

NOTE:

The sensitivity setting will be retained even if the engine is restarted. This setting is also applied to the Intelligent Lane Intervention (I-LI) system (if so equipped).

LDW SYSTEM LIMITATIONS

⚠ WARNING

Listed below are the system limitations for the LDW system. Failure to follow the warnings and instructions for proper use of the LDW system could result in serious injury or death.

- **The system will not operate at speeds below approximately 37 mph (60 km/h) or if it cannot detect lane markers.**
- **Do not use the LDW system under the following conditions as it may not function properly:**
  - **During bad weather (rain, fog, snow, etc.).**
  - **When driving on slippery roads, such as on ice or snow.**
  - **When driving on winding or uneven roads.**
  - **When there is a lane closure due to road repairs.**
  - **When driving in a makeshift or temporary lane.**
  - **When driving on roads where the lane width is too narrow.**
  - **When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, tire chains, nonstandard wheels).**
  - **When the vehicle is equipped with non-original brake parts or suspension parts.**
- **The system may not function properly under the following conditions:**
  - **On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; nonstandard lane markers; or lane markers covered with water, dirt, snow, etc.**
  - **On roads where the edge of the road is not clearly visible.**
  - **On roads where the discontinued lane markers are still detectable.**
  - **On roads where there are sharp curves.**
  - **On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The LDW system could detect these items as lane markers.)**
  - **On roads where the traveling lane merges or separates.**
  - **When the vehicle's traveling direction does not align with the lane marker.**
  - **When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.**
  - **When rain, snow, dirt or an object adheres to the windshield in front of the lane camera unit.**
  - **When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.**
  - **When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)**
  - **When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)**
  - **Steering wheel vibration may not be felt depending on the road surface conditions.**

SYSTEM TEMPORARILY UNAVAILABLE

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F [40°C]) and then started, the LDW system may be deactivated automatically and the following message will appear in the vehicle information display: "Unavailable Camera Temperature High".

When the interior temperature is reduced, the LDW system will resume operating automatically.

The LDW system is not designed to warn under the following conditions:

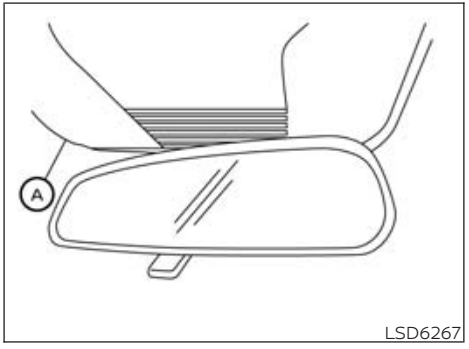
- When you operate the lane change signal and change traveling lanes in the direction of the signal. (The LDW system will become operable again approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 37 mph (60 km/h).

After the above conditions have finished and the necessary operating conditions are satisfied, the LDW functions will resume.

SYSTEM MALFUNCTION

If the LDW system malfunctions, it will cancel automatically. Pull off the road to a safe location and stop the vehicle. Turn the engine/motor off and restart the engine/motor. If the LDW indicator (orange) or LDW indicator light continues to illuminate, have the LDW system checked. It is recommended that you visit a NISSAN dealer for this service. When LDW malfunctions, a warning message appears: "Malfunction See Owner's Manual".

SYSTEM MAINTENANCE

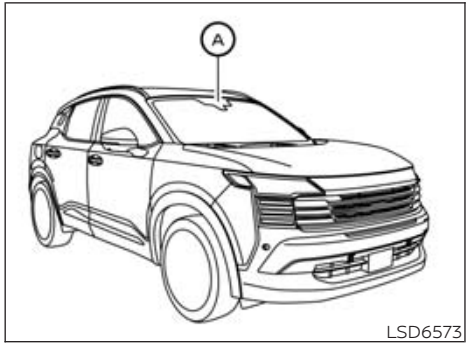


The lane camera unit Ⓐ for the LDW system is located above the inside mirror. To keep the proper operation of the LDW system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

INTELLIGENT LANE INTERVENTION (I-LI) (if so equipped)

BASIC INFORMATION



LSD6573

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the I-LI system could result in serious injury or death.

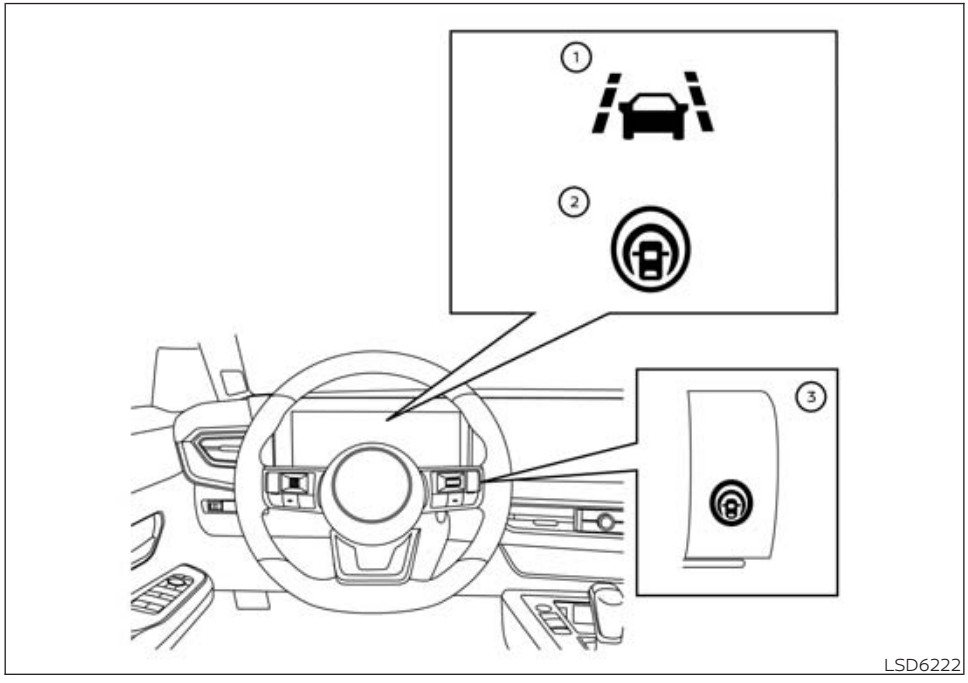
- **The I-LI system will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The I-LI system is primarily intended for use on well-developed freeways or highways. It may not detect the lane markers or road edge in certain road, weather, or driving conditions.**

The I-LI system must be turned on with the ProPILOT Assist switch on the steering wheel, every time the ignition is placed in the ON position.

The I-LI system will operate when the vehicle is driven at speeds of approximately 37 mph (60 km/h) and above, and only when the lane markings or road edge are clearly visible on the road.

The I-LI system warns the driver when the vehicle has left the center of the traveling lane with an indicator and a steering wheel vibration. The system helps assist the driver to return the vehicle to the center of the traveling lane by applying the steering to the left or right (for a short period of time).

The I-LI system monitors the lane markers or road edge on the traveling lane using the camera unit Ⓐ located above the inside mirror.



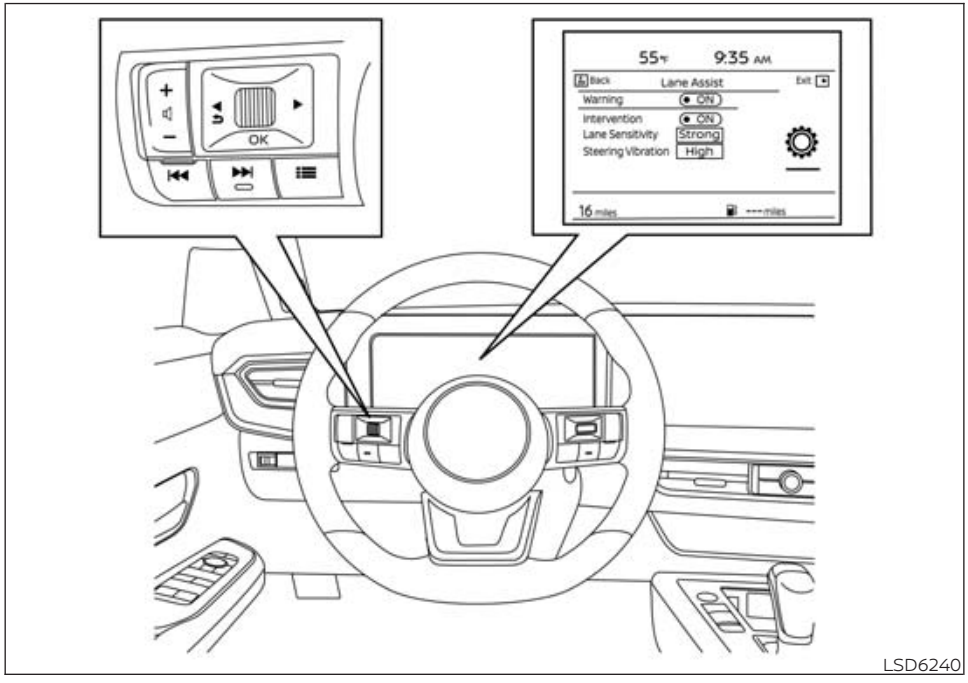
I-LI SYSTEM OPERATION

① Lane Departure Warning (LDW) indicator
② Intelligent Lane Intervention (I-LI) indicator (if so equipped)
③ ProPILOT Assist switch

The I-LI system operates above approximately 37 mph (60 km/h). When the vehicle approaches either the left or the right side of the traveling lane, the steering wheel will vibrate and the LDW indicator (orange) on the instrument panel will blink to alert the driver. Then, the I-LI system will automatically apply the steering for a short period of time to help assist the driver to return the vehicle to the center of the traveling lane.

To turn on the I-LI system, push the ProPILOT Assist switch on the steering wheel after starting the engine/motor. The I-LI indicator on the instrument panel will illuminate. Push the ProPILOT Assist switch again to turn off the I-LI system. The I-LI indicator will turn off.

The strength of the steering wheel vibration can be changed in the settings menu of the vehicle information display. For additional information, see "Driver Assistance" (P. 108).



HOW TO ENABLE/DISABLE THE I-LI SYSTEM

Basic Information

Perform the following steps to enable or disable the I-LI system.

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Lane Assist" and press the OK button.
3. Select "Intervention" and press the OK button.
4. Push the ProPILOT Assist switch to turn the system on or off.

NOTE:

- **Turning on the ProPILOT Assist system will turn on the I-LI and I-BSI (if so equipped) systems at the same time. If the I-LI system is disabled in the settings menu, the I-LI will automatically be turned on when the Steering Assist system is active. For additional information, see "ProPILOT Assist" (P. 313).**
- **When enabling/disabling the system, the system will retain current setting even if the engine is restarted.**

Setting lane sensitivity

For additional information, see "Setting lane sensitivity" (P. 258).

I-LI SYSTEM LIMITATIONS

⚠WARNING

Listed below are the system limitations for the I-LI system. Failure to follow the warnings and instructions for proper use of the I-LI system could result in serious injury or death.

- **The I-LI system may activate if you change lanes without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs you may need to apply corrective steering to complete your lane change.**
- **Because the I-LI may not activate under the road, weather, and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave its lane and you will need to apply corrective steering.**
- **When the I-LI system is operating, avoid excessive or sudden steering maneuvers. Otherwise, you could lose control of the vehicle.**
- **The I-LI system will not operate at speeds below approximately 37 mph (60 km/h) or if it cannot detect lane markers.**
- **Do not use the I-LI system under the following conditions as it may not function properly:**
  - **During bad weather (rain, fog, snow, etc.).**
  - **When driving on slippery roads, such as on ice or snow.**
  - **When driving on winding or uneven roads.**
  - **When there is a lane closure due to road repairs.**
  - **When driving in a makeshift or temporary lane.**
  - **When driving on roads where the lane width is too narrow.**
  - **When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).**
  - **When the vehicle is equipped with non-original brake parts, steering parts or suspension parts.**
  - **On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.**
  - **On roads where the edge of the road is not clearly visible.**
  - **On roads where discontinued lane markers are still detectable.**
  - **On roads where there are sharp curves.**
  - **On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The I-LI system could detect these items as lane markers.)**
  - **On roads where the traveling lane merges or separates.**
  - **When the vehicle's traveling direction does not align with the lane marker.**
  - **When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.**
  - **When rain, snow or dirt adheres to the windshield in front of the lane camera unit.**
  - **When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.**
  - **When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)**
  - **When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)**

While the I-LI system is operating, you may hear a sound of brake operation. This is normal and indicates that the I-LI system is operating properly.

- Steering wheel vibration may not be felt depending on the road surface conditions.

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

The warning and assist functions of the I-LI system are not designed to work under the following conditions:

- When you operate the lane change signal and change the traveling lanes in the direction of the signal. (The I-LI system will be deactivated for approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 37 mph (60 km/h).

After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

Condition B:

The assist function of the I-LI system is not designed to work under the following conditions (warning is still functional):

- When the brake pedal is depressed.
- When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the vehicle is accelerated during I-LI system operation.
- When the Intelligent Cruise Control (ICC) approach warning occurs.
- When the hazard warning flashers are operated.
- When driving on a curve at high speed.

After the above conditions have finished and the necessary operating conditions are satisfied, the I-LI system application of the brakes will resume.

Condition C:

If the following messages appear in the vehicle information display, the I-LI system will be turned off automatically and a chime sounds:

- "Unavailable Slippery Road"
  When the VDC system (except Traction Control System [TCS] function) or ABS operates.
- "Currently Unavailable":
  - When the VDC system is turned off.
  - When the SNOW mode (AWD models only) is selected.

Action to take:

When the above conditions no longer exist, turn off the I-LI system. Push the ProPILOT Assist switch (for vehicles with ProPILOT Assist) on the steering wheel again to turn the I-LI system back on.

Temporary disabled status at high temperature:

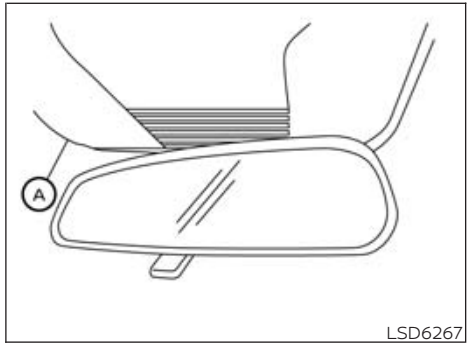
If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F [40°C]) and then the I-LI system is turned on, the I-LI system may be deactivated automatically, the following message will appear on the vehicle information display: "Unavailable Camera Temperature High" and a chime will sound.

When the interior temperature is reduced, turn off the I-LI system. Push the ProPILOT Assist switch again to turn the system back on.

SYSTEM MALFUNCTION

If the I-LI system malfunctions, it will cancel automatically. The LDW indicator (orange) and the "Malfunction See Owner's Manual" warning message will display and a chime will sound. If the LDW indicator (orange) and the warning message appear in the display, pull off the road to a safe location and stop the vehicle. Turn the engine/motor off and restart the engine/motor. If the LDW indicator (orange) and warning message continue to appear, have the I-LI system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



The lane camera unit Ⓐ for the I-LI system is located above the inside mirror. To keep the proper operation of the I-LI system and

prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers or road edge.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

BLIND SPOT WARNING (BSW)

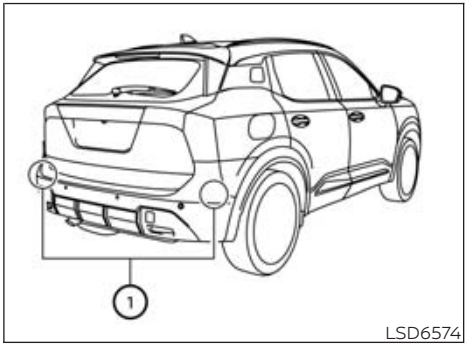
BASIC INFORMATION

⚠ WARNING

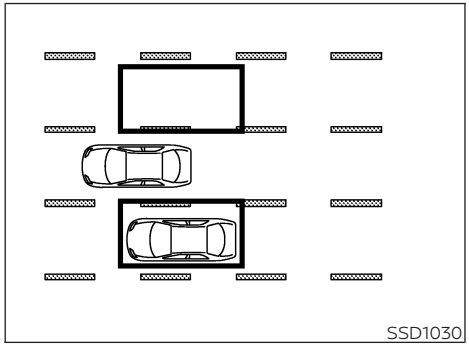
Failure to follow the warnings and instructions for proper use of the BSW system could result in serious injury or death.

- **The BSW system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction your vehicle will move to ensure it is safe to change lanes. Never rely solely on the BSW system.**

The BSW system helps alert the driver of other vehicles in adjacent lanes when changing lanes.



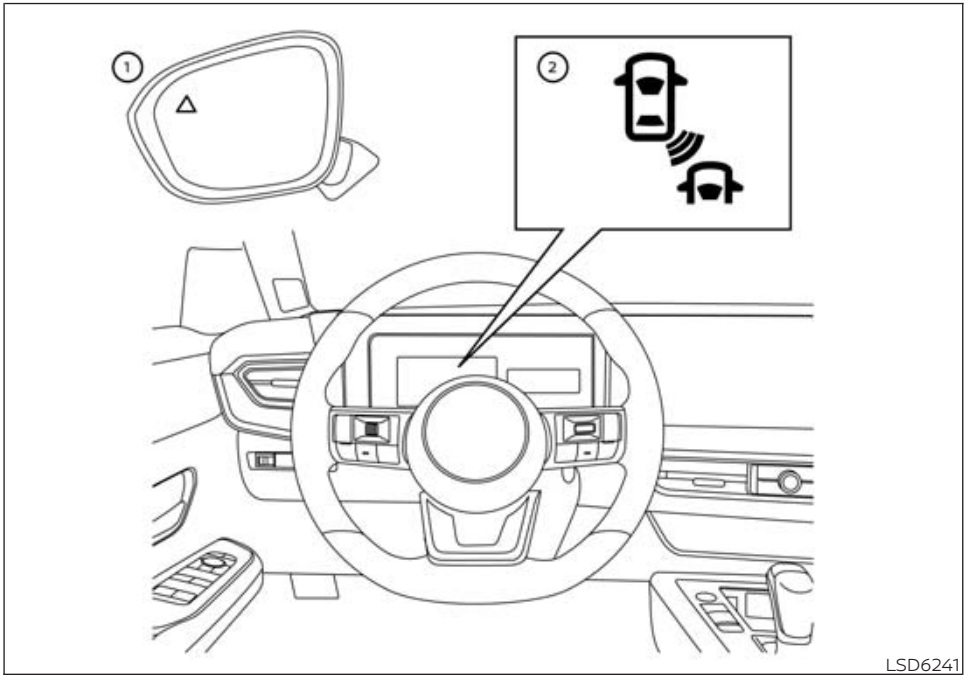
The BSW system uses radar sensors ① installed near the rear bumper to detect other vehicles in an adjacent lane.



Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated. This detection zone starts from the outside mirror of your vehicle and extends approximately 10 ft (3.0 m) behind the rear bumper, and approximately 10 ft (3.0 m) sideways.

The detection zone extends if the vehicle in an adjacent lane is approaching from behind at high speed.



For vehicles with the 7 inch (18 cm) display

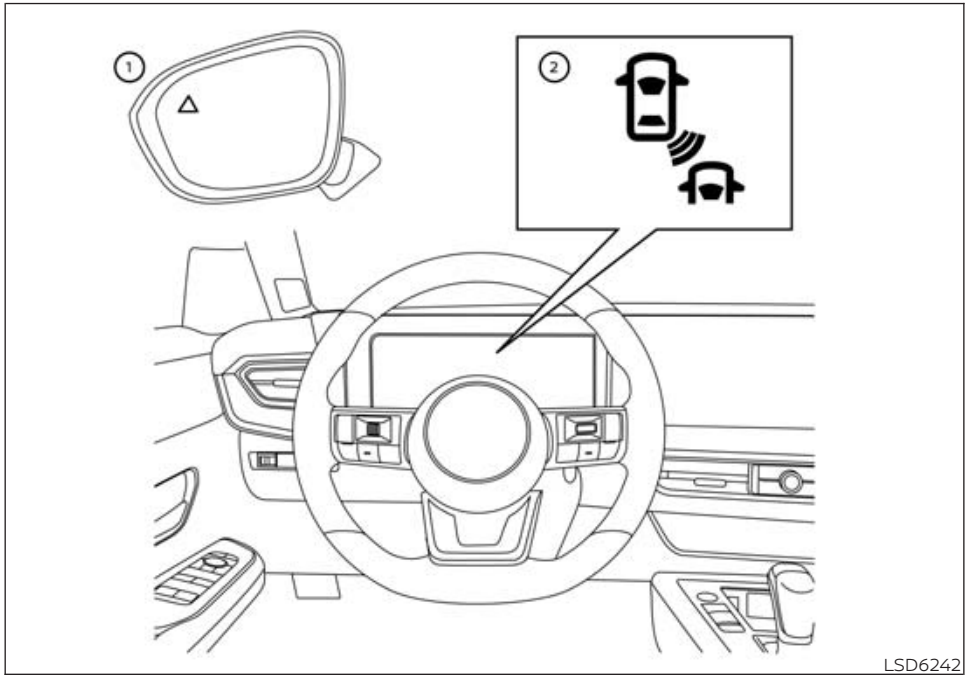
BSW SYSTEM OPERATION

① Side BSW/RCTA Indicator Light

② BSW Indicator or BSW Indicator Light

The BSW system operates above approximately 20 mph (32 km/h).

If the radar sensors detect a vehicle in the detection zone, the side BSW/RCTA indicator light ① illuminates. If the turn signal is then activated, the system chimes (twice) and the side BSW/RCTA indicator light flashes. The side BSW/RCTA indicator light continues to

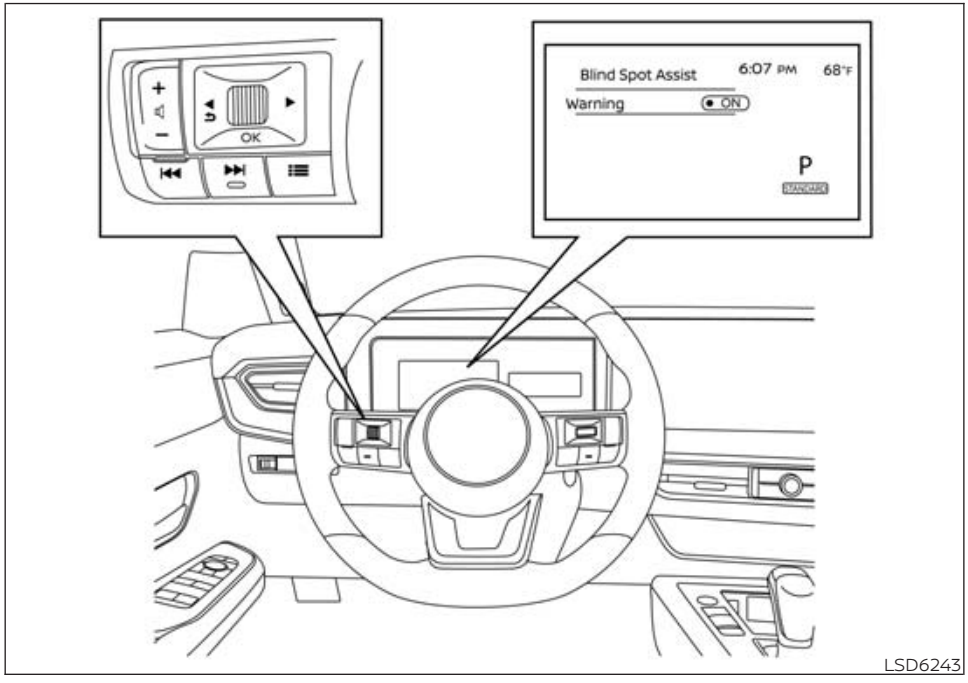


For vehicles with the 12.3 inch (31.2 cm) display

flash until the detected vehicle leaves the detection zone.

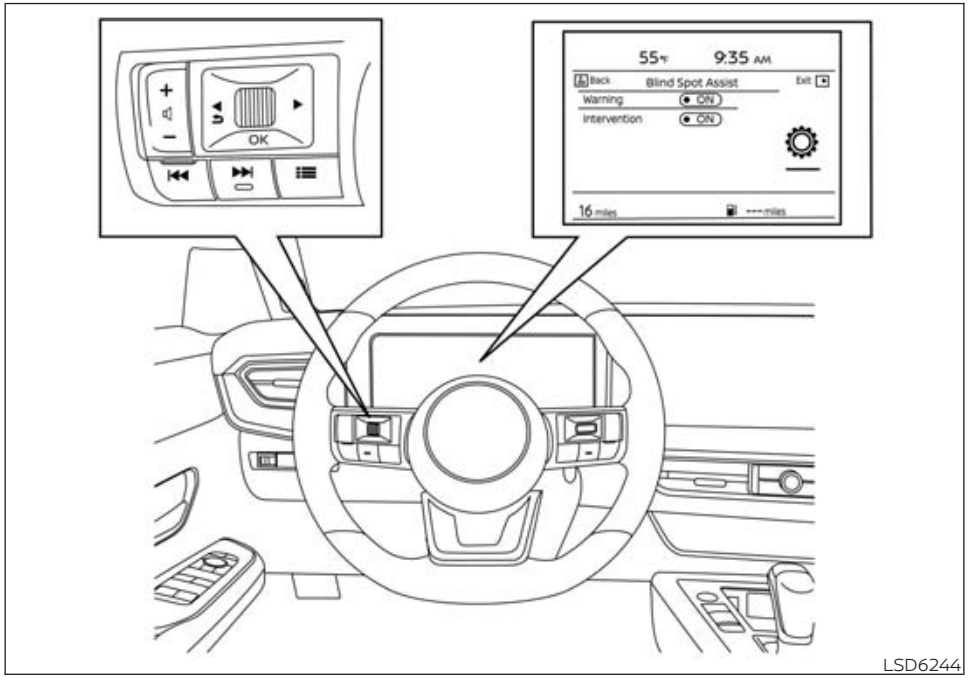
The side BSW/RCTA indicator light illuminates for a few seconds when the ignition switch is placed in the ON position.

The brightness of the side BSW/RCTA indicator light is adjusted automatically depending on the brightness of the ambient light.



For vehicles with the 7 inch (18 cm) display

HOW TO ENABLE/DISABLE THE BSW SYSTEM



For vehicles with the 12.3 inch (31.2 cm) display

Perform the following steps to enable or disable the BSW system.

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Blind Spot Assist" and press the OK button.
3. Select "Warning" and press the OK button to turn the system on or off.

NOTE:

- **When enabling/disabling the system, the system will retain current settings even if the engine is restarted.**

BSW SYSTEM LIMITATIONS

⚠WARNING

Listed below are the system limitations for the BSW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The BSW system cannot detect all vehicles under all conditions.**
- **The radar sensors may not be able to detect and activate BSW when certain objects are present such as:**
  - **Pedestrian, bicycles, animals.**
  - **Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.**
  - **Oncoming vehicles.**
  - **Vehicles remaining in the detection zone when you accelerate from a stop.**
  - **A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.**
  - **A vehicle approaching rapidly from behind.**
  - **A vehicle which your vehicle overtakes rapidly.**

- **A vehicle that passes through the detection zone quickly.**
- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**

- **The radar sensors' detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.**
- **The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.**
- **The following conditions may reduce the ability of the radar to detect other vehicles:**
  - **Severe weather**
  - **Road spray**
  - **Ice/frost/snow/dirt build-up on the vehicle**
- **Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.**
- **Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.**

BSW DRIVING SITUATIONS

Basic information

Indicator on

Indicator off

Indicator flashing

Another vehicle approaching from behind

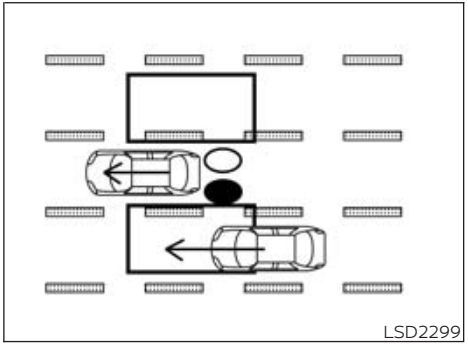


Illustration 1 – Approaching from behind

Illustration 1: The side BSW/RCTA indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

NOTE:

- **The radar sensors may not detect vehicles which are approaching rapidly from behind.**

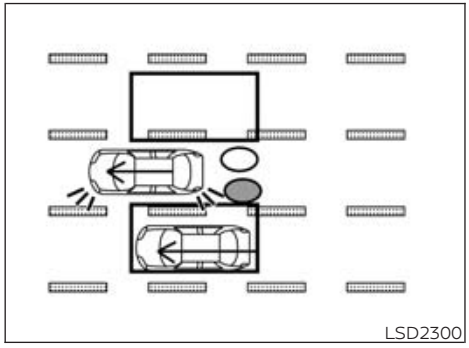


Illustration 2 – Approaching from behind

Illustration 2: If the driver activates the turn signal when another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and BSW indicator flashes.

NOTE:

- **The radar sensors may not detect vehicles which are approaching rapidly from behind.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and BSW indicator will flash but no chime will sound when the other vehicle is detected.**

Overtaking another vehicle

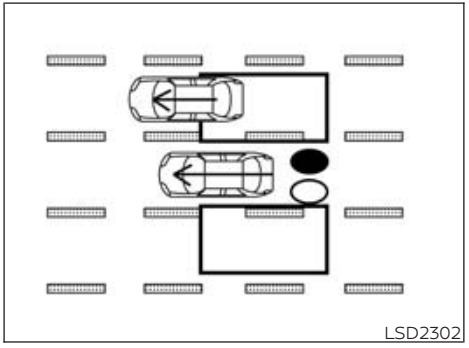


Illustration 3 – Overtaking another vehicle

Illustration 3: The side BSW/RCTA indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 2 seconds.

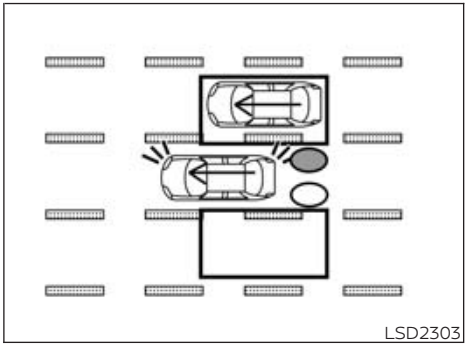


Illustration 4 – Overtaking another vehicle

Illustration 4: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and BSW indicator flashes.

NOTE:

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**
- **The radar sensors may not detect slower moving vehicles if they are passed quickly.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and BSW indicator will flash but no chime will sound when the other vehicle is detected.**

Entering from the side

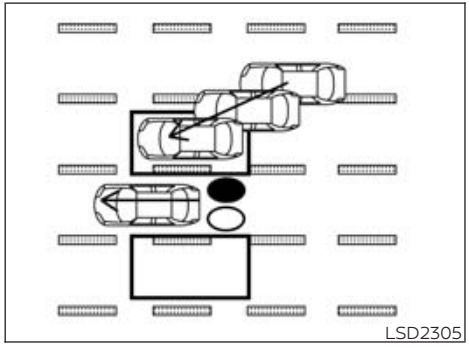


Illustration 5 – Entering from the side

Illustration 5: The side BSW/RCTA indicator light illuminates if a vehicle enters the detection zone from either side.

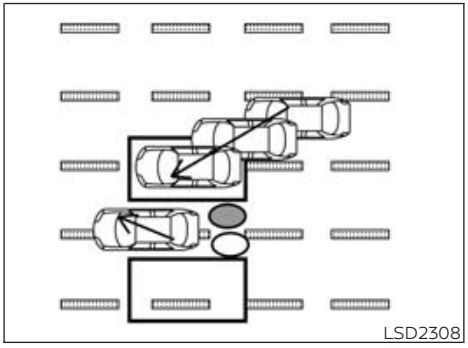
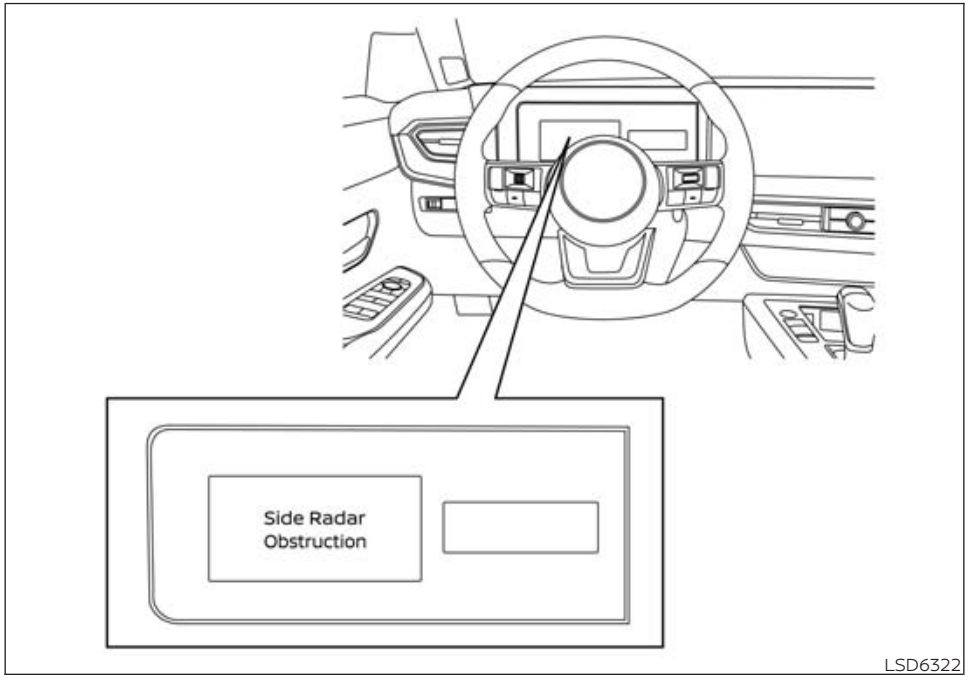


Illustration 6 – Entering from the side

Illustration 6: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and BSW indicator flashes.

NOTE:

- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and BSW indicator will flash but no chime will sound when the other vehicle is detected.**
- **The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.**



For vehicles with the 7 inch (18 cm) display

SYSTEM TEMPORARILY UNAVAILABLE

Basic Information

When radar blockage is detected, the system will be deactivated automatically. The "Side Radar Obstruction" warning message will appear in the vehicle information display.

The system is not available until the conditions no longer exist.

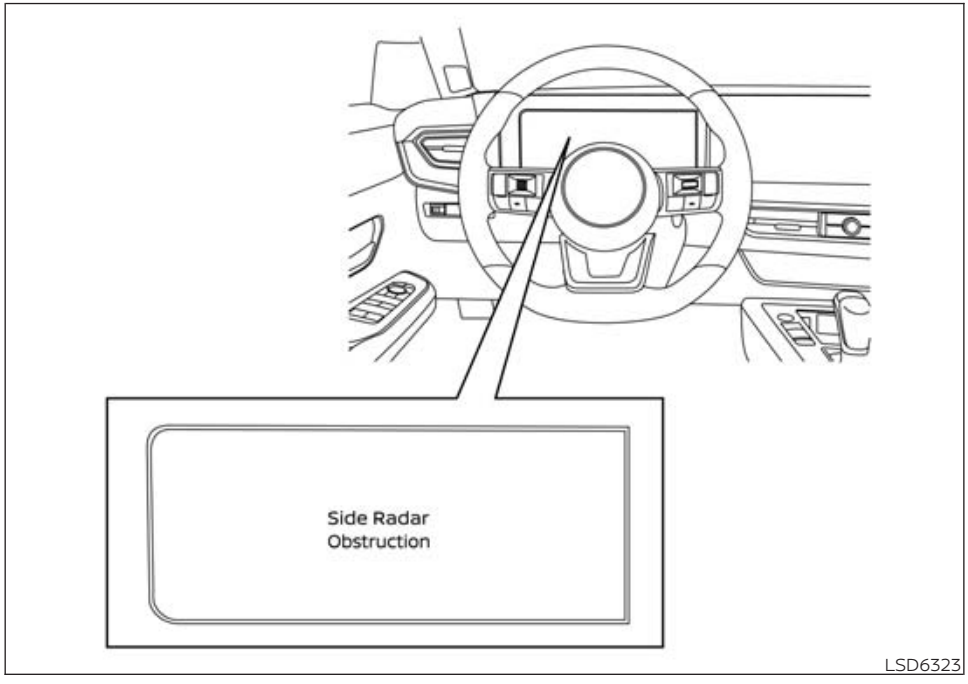
The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Action to take:

When the above conditions no longer exist, the system will resume automatically.

NOTE:

If the BSW system stops working, the Intelligent Blind Spot Intervention (I-BSI) (if so equipped) and the Rear Cross Traffic Alert (RCTA) systems will also stop working.



For vehicles with the 12.3 inch (31.2 cm) display

Malfunction

If the BSW system malfunctions, it will turn off automatically. The system malfunction warning message with the BSW indicator (orange) will appear in the vehicle information display.

Action to take:

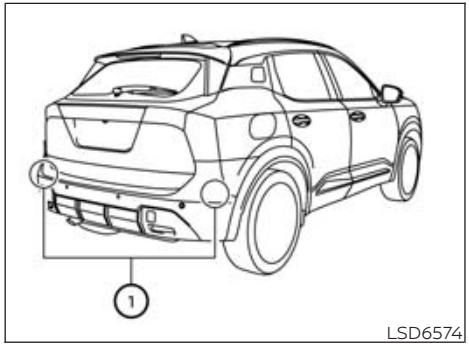
Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off and restart the engine. If the message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the BSW system stops working, the Intelligent Blind Spot Intervention (I-BSI) (if so equipped) and the Rear Cross Traffic Alert (RCTA) systems will also stop working.

SYSTEM MAINTENANCE

Basic Information



The two radar sensors ① for the BSW and RCTA systems are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors. It is recommended that you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

Radio frequency statement

For USA

FCC ID: XXX-YY234

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Class A devices (Industrial) and Class B devices please consult 784748 D01 General labeling and Notification v09r01.

For Canada

IC: 3659A-6TR

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference,
2. This device must accept any interference, including interference that may cause undesired operation of the device.

INTELLIGENT BLIND SPOT INTERVENTION (I-BSI) (if so equipped)

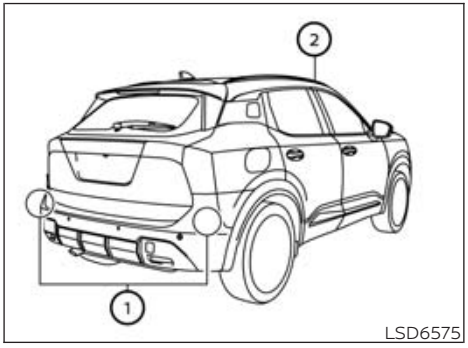
BASIC INFORMATION

⚠ WARNING

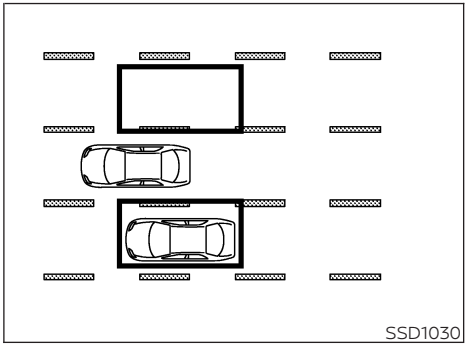
Failure to follow the warnings and instructions for proper use of the I-BSI system could result in serious injury or death.

- **The I-BSI system is not a replacement for proper driving procedure and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction you will move to ensure it is safe to change lanes. Never rely solely on the I-BSI system.**
- **There is a limitation to the detection capability of the radar or the sonar. Not every moving object or vehicle will be detected. Using the I-BSI system under some road, ground, lane marker, traffic or weather conditions could lead to improper system operation. Always rely on your own operation to avoid accidents.**

The I-BSI system helps alert the driver of other vehicles in adjacent lanes when changing lanes, and helps assist the driver to return the vehicle to the center of the traveling lane.



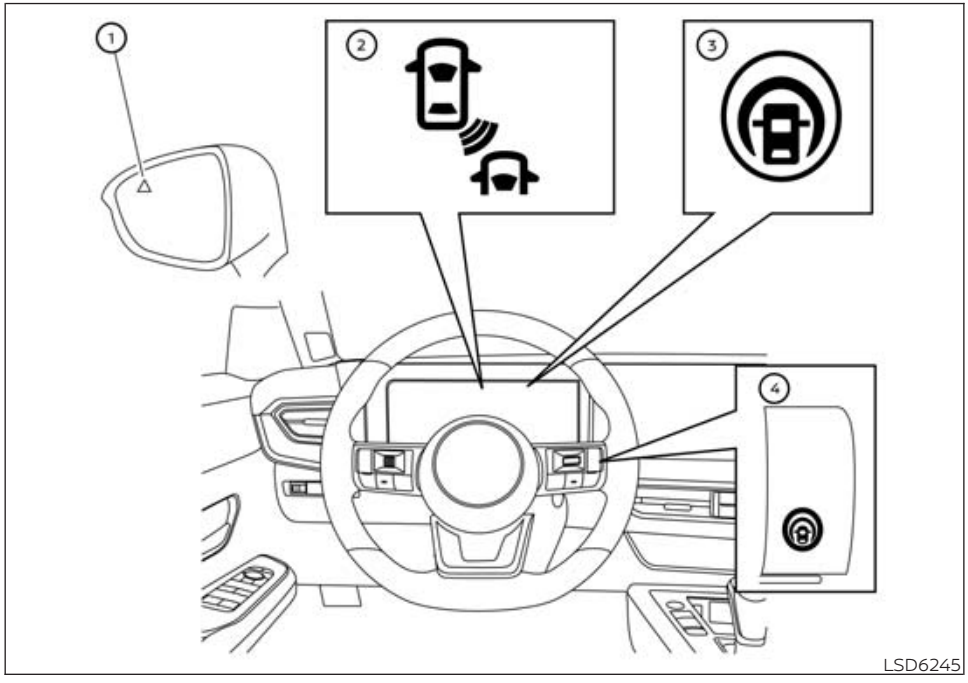
The I-BSI system uses radar sensors ① installed near the rear bumper to detect other vehicles in an adjacent lane. In addition to the radar sensors, the I-BSI system uses a camera ② installed behind the windshield to monitor the lane markers of your traveling lane.



Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated.

The detection zone starts from the outside mirror of your vehicle and extends approximately 10ft (3.0m) behind the rear bumper, and approximately 10ft (3.0 m) sideways.



I-BSI SYSTEM OPERATION

① Side indicator light
② BSW indicator
③ Intelligent Blind Spot Intervention (I-BSI) indicator
④ ProPILOT Assist switch

The I-BSI system operates above approximately 37 mph (60 km/h).

If the radar sensors detect a vehicle in the detection zone, the side indicator light ① illuminates.

If the turn signal is then activated, the system chimes (twice) and the side indicator light and the BSW indicator light ② flash. The side indicator light continues to flash until the detected vehicle leaves the detection zone. The brightness of the side indicator light is adjusted automatically depending on the brightness of the ambient light.

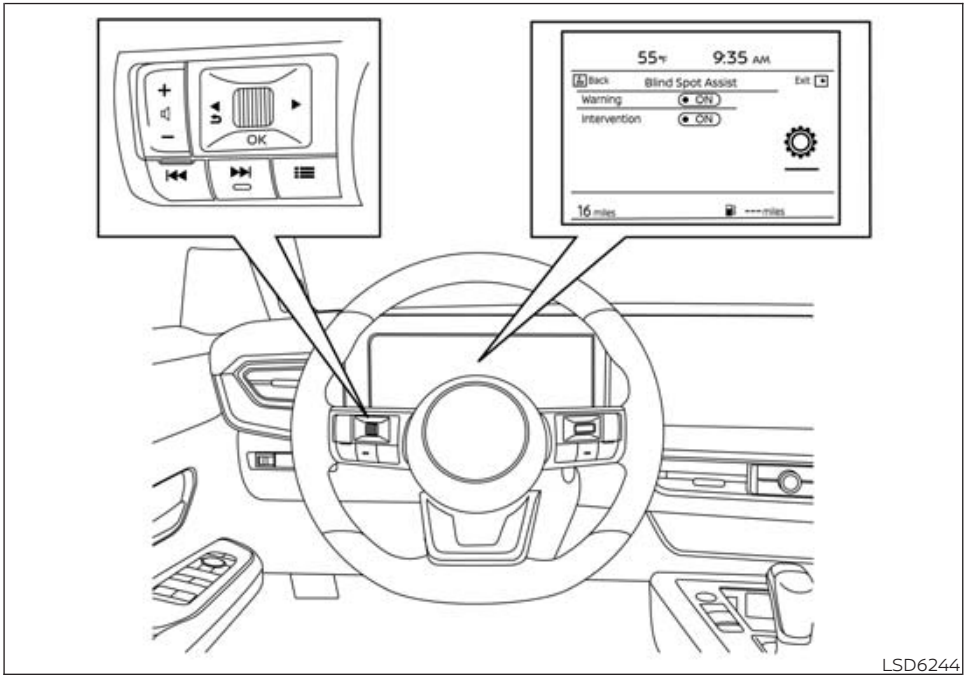
If the I-BSI system is ON and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and the BSW indicator light ② flash. The I-BSI system will automatically apply the steering for a short period of time to help assist the driver to return the vehicle back to the center of the driving lane. The I-BSI system operates regardless of turn signal usage.

NOTE:

- **I-BSI warning and system application will only be activated if the side indicator light is already illuminated when your vehicle approaches a lane marker. If another vehicle comes into the detection zone after your vehicle has crossed a lane marker, no I-BSI warning or system application will be activated. For additional information, see "I-BSI driving situations" (P. 281).**
- **The I-BSI system is typically activated prior to the Intelligent Lane Intervention (I-LI) system when your vehicle is approaching a lane marker.**

To turn on the I-BSI system, push the ProPILOT Assist switch on the steering wheel after

starting the engine. The I-BSI indicator will illuminate. Push the ProPILOT Assist switch again to turn off the I-BSI system. The I-BSI indicator will turn off.



HOW TO ENABLE/DISABLE THE I-BSI SYSTEM

Perform the following steps to enable or disable the I-BSI system:

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Blind Spot Assist" and press the OK button.
3. Select "Intervention" and use the OK button to turn the system on or off.

4. Push the ProPILOT Assist switch to turn the system on or off.

NOTE:

- **Turning on the ProPILOT Assist system will turn on the I-BSI and I-LI system at the same time. For additional information, see "Intelligent Lane Intervention (I-LI)" (P. 261).Turning the I-BSI system on will activate the BSW system at the same time.**
- **When enabling/disabling the system, the system will retain current settings even if the engine is restarted.**

I-BSI SYSTEM LIMITATIONS

⚠ WARNING

Listed below are the system limitations for the I-BSI system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The I-BSI system cannot detect all vehicles under all conditions.**
- **The radar sensors may not be able to detect and activate I-BSI when certain objects are present such as:**
  - **Pedestrians, bicycles, or animals.**
  - **Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.**
  - **Vehicles remaining in the detection zone when you accelerate from a stop. For additional information, see "I-BSI driving situations" (P. 281).**
  - **Oncoming vehicles.**
  - **A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.**
  - **A vehicle approaching rapidly from behind.**
  - **A vehicle which your vehicle overtakes rapidly.**
  - **A vehicle that passes through the detection zone quickly.**
- **The radar sensors' detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.**
- **The radar sensors are designed to ignore most stationary objects; however, objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.**
- **The following conditions may reduce the ability of the radar to detect other vehicles:**
  - **Severe weather**
  - **Road spray**
  - **Ice/frost/dirt build-up on the vehicle**
- **Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.**
- **The camera may not detect lane markers in the following situations and the I-BSI system may not operate properly.**
  - **On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; lane markers covered with water, dirt, snow, etc.**
  - **On roads where discontinued lane markers are still detectable.**
  - **On roads where there are sharp curves.**
  - **On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs.**
  - **On roads where the traveling lane merges or separates.**
  - **When the vehicle's traveling direction does not align with the lane markers.**

- **When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.**
- **When rain, snow or dirt adheres to the windshield in front of a lane camera unit.**
- **When the headlights are not bright due to dirt on the lens or if aiming is not adjusted properly.**
- **When strong light enters a lane camera unit. (For example: light directly shines on the front of the vehicle at sunrise or sunset.)**
- **When a sudden change in brightness occurs. (For example: when the vehicle enters or exits a tunnel or under a bridge.)**

· **Do not use the I-BSI system under the following conditions because the system may not function properly.**
- **During bad weather (for example: rain, fog, snow, etc.).**
- **When driving on slippery roads, such as on ice or snow, etc.**
- **When driving on winding or uneven roads.**
- **When there is a lane closure due to road repairs.**
- **When driving in a makeshift or temporary lane.**
- **When driving on roads where the lane width is too narrow.**
- **When driving with a tire that is not within normal tire conditions (e.g., tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).**
- **When the vehicle is equipped with non-original brake parts or suspension parts.**

· **Excessive noise (e.g., audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.**

I-BSI DRIVING SITUATIONS

Basic information

Indicator on



Indicator off



Indicator flashing



Another vehicle approaching from behind

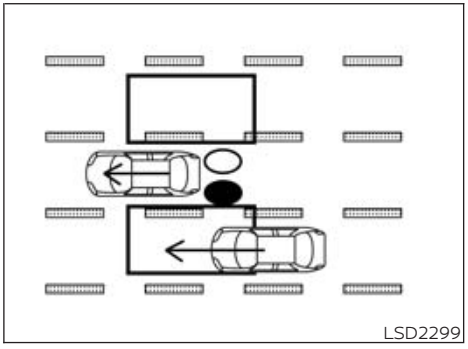


Illustration 1 – Approaching from behind

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

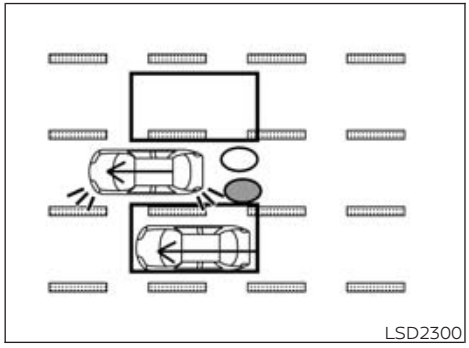


Illustration 2 – Approaching from behind

Illustration 2: If the driver activates the turn signal then the system chimes a sound (twice) and the side indicator light and the BSW indicator flash.

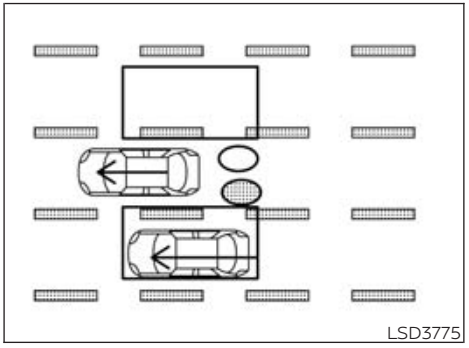


Illustration 3 – Approaching from behind

Illustration 3: If the I-BSI system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and the BSW indicator flash. Then the I-BSI system activates to help return the vehicle back to the center of the driving lane.

NOTE:

- **The radar sensors may not detect vehicles which are approaching rapidly from behind.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and the BSW indicator will flash but no chime will sound when the other vehicle is detected.**

Overtaking another vehicle

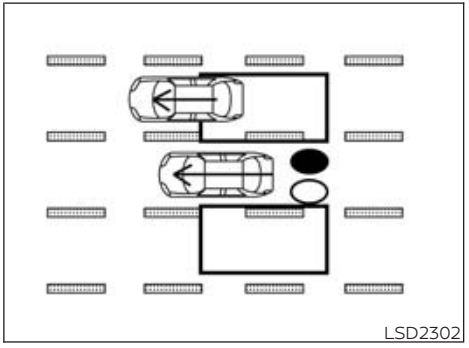


Illustration 4– Overtaking another vehicle

Illustration 4: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 3 seconds.

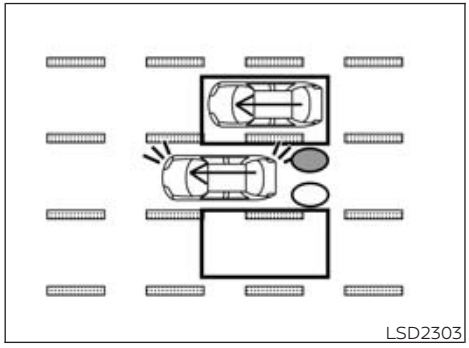


Illustration 5– Overtaking another vehicle

Illustration 5: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and the BSW indicator flash.

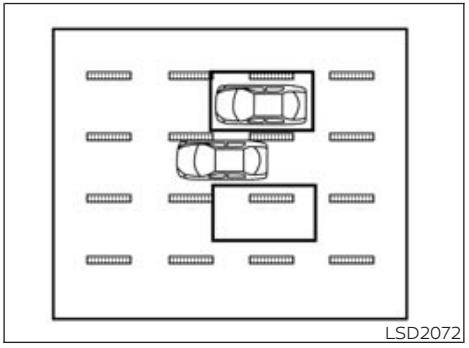


Illustration 6– Overtaking another vehicle

Illustration 6: If the I-BSI system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and the BSW indicator flash. The I-BSI system activates to help return the vehicle back to the center of the driving lane.

NOTE:

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**
- **The radar sensors may not detect slower moving vehicles if they are passed quickly.**

Entering from the side

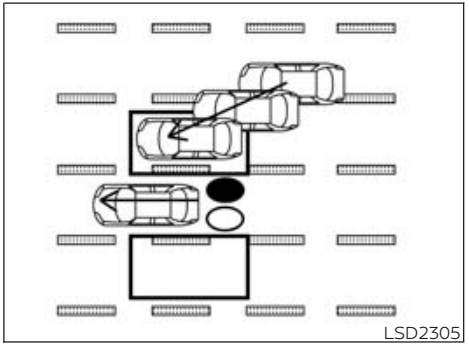


Illustration 7– Entering from the side

Illustration 7: The side indicator light illuminates if a vehicle enters the detection zone from either side.

NOTE:

The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.

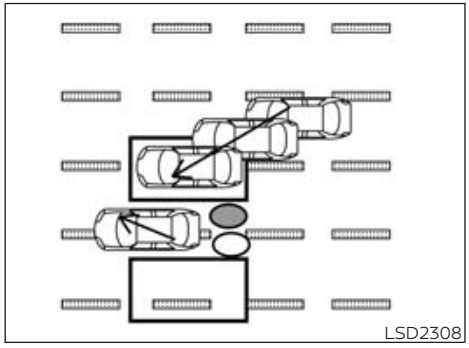


Illustration 8– Entering from the side

Illustration 8: If the driver activates the turn signal while another vehicle is in the detection zone, then the side indicator light and the BSW indicator flash and a chime will sound twice.

NOTE:

If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and BSW indicator will flash but no chime will sound when another vehicle is detected.

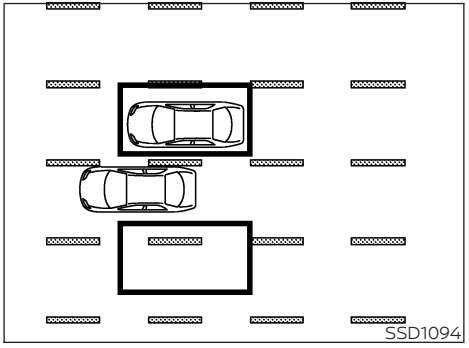


Illustration 9– Entering from the side

Illustration 9: If the I-BSI system is on and your vehicle approaches the lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and the BSW indicator flash. The I-BSI system activates to help return the vehicle back to the center of the driving lane.

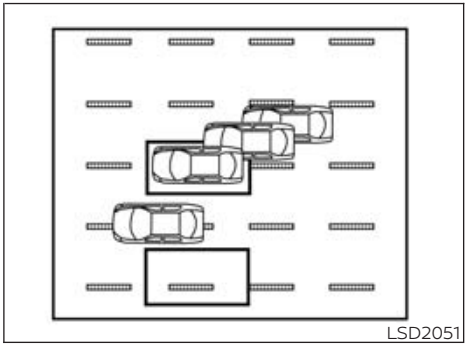


Illustration 10: – Entering from the side

Illustration 10: The I-BSI system will not operate if your vehicle is on a lane marker when another vehicle enters the detection zone. In this case only the BSW system operates.

NOTE:

- **The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.**
- **I-BSI will not operate or will stop operating and only a warning chime will sound under the following conditions:**
  - **When the brake pedal is depressed.**
  - **When the vehicle is accelerated during I-BSI system operation.**
  - **When steering quickly.**
  - **When the ICC, I-FCW or AEB with Pedestrian Detection warnings sound.**

- **When the hazard warning flashers are operated.**
- **When driving on a curve at a high speed.**
- **When the BSW system is turned off.**

SYSTEM TEMPORARILY UNAVAILABLE

Under the following conditions, a chime will sound, the following message will appear in the vehicle information display and the I-BSI system will be turned off automatically. The I-BSI system will not be available until the conditions no longer exist.

- "Unavailable Slippery Road"
  - When the VDC system (except TCS function) or ABS operates.
- "Currently Unavailable"
  - When the VDC system is turned off.
  - When the SNOW mode (AWD models only) is selected
- "Unavailable Camera Temperature High":

  If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F (40°C)).
- "Unavailable Side Radar Obstruction":

  When side radar blockage is detected.

Turn off the I-BSI system and turn it on again when the above conditions no longer exist.

SYSTEM MALFUNCTION

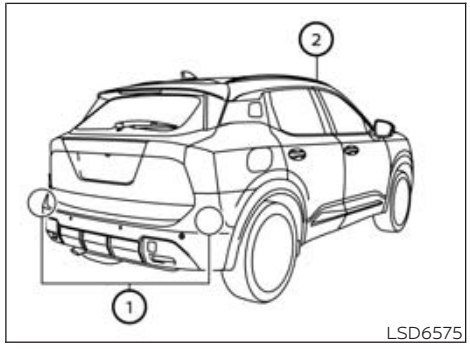
When the I-BSI system malfunctions, it will be turned off automatically, a chime will sound, and the "Malfunction See Owner's Manual" warning message with the BSW indicator (orange) will appear in the vehicle information display.

Action to take:

Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off and restart the engine. If the "Not available System Malfunction" warning message with the BSW indicator (orange) continues to be displayed, have the I-BSI system checked. It is recommended you visit a certified NISSAN dealer for this service.

SYSTEM MAINTENANCE

Basic Information



LSD6575

The two radar sensors ① for the I-BSI system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit a certified NISSAN dealer if the area around the radar sensors is damaged due to a collision.

The lane camera unit ② for I-BSI system is located above the inside mirror. To keep the proper operation of I-BSI and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. It is recommended that you contact a certified NISSAN dealer if the camera unit is damaged due to an accident.

Radio frequency statement

For USA

FCC ID: XXX-YY234

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Class A devices (Industrial) and Class B devices please consult 784748 D0I General labeling and Notification v09r01.

For Canada

IC: 3659A-6TR

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, (2) this device must accept any interference, including interference that may cause undesired operation of the device.

REAR CROSS TRAFFIC ALERT (RCTA)

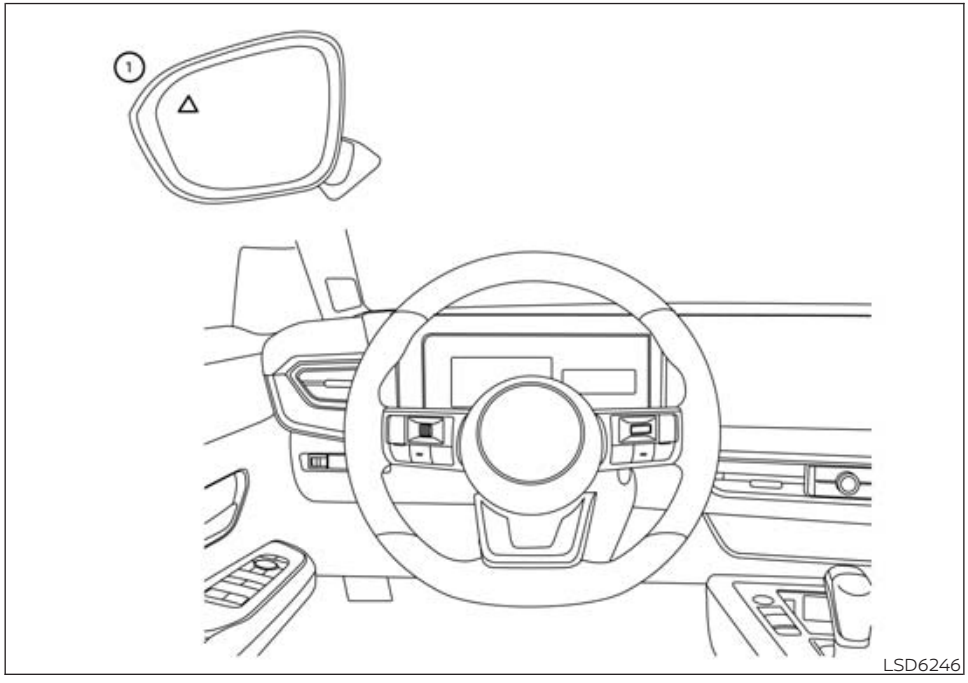
BASIC INFORMATION

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the RCTA could result in serious injury or death.

- **The RCTA system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When backing out of a parking space, always use the side and rear mirrors and turn and look in the direction your vehicle will move. Never rely solely on the RCTA system.**

The RCTA system will assist you when backing out from a parking space. When the vehicle is in reverse, the system is designed to detect other vehicles approaching from the right or left of the vehicle. If the system detects cross traffic, it will alert you.



For vehicles with the 7 inch (18 cm) display

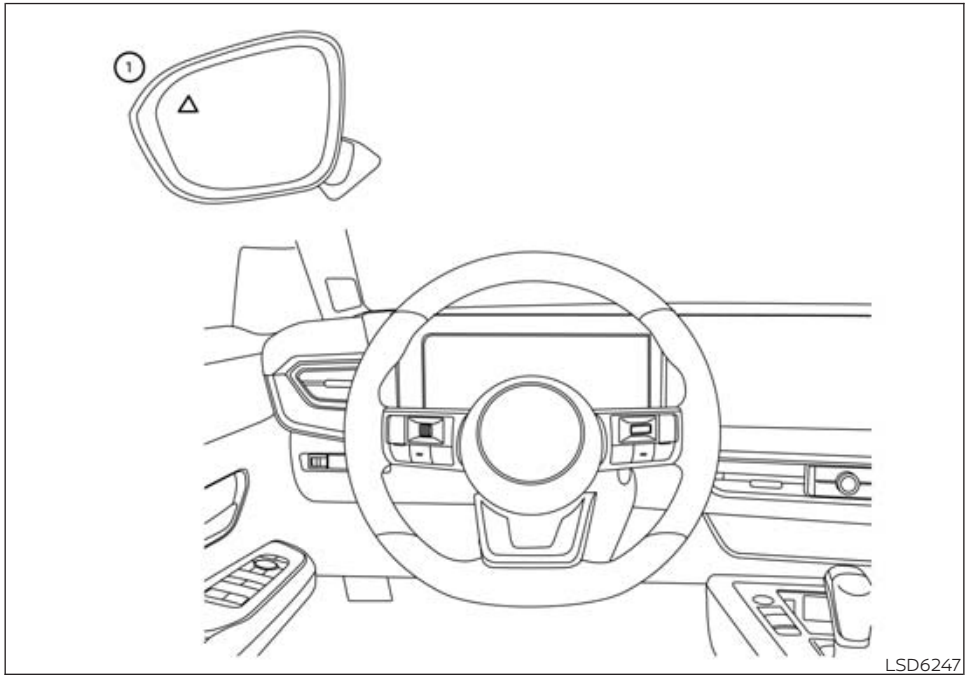
RCTA SYSTEM OPERATION

① Side BSW/RCTA Indicator Light

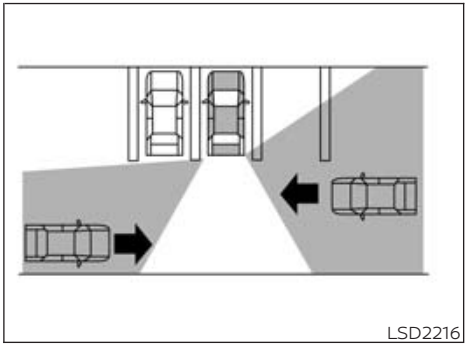
The RCTA system can help alert the driver of an approaching vehicle when the driver is backing out of a parking space.

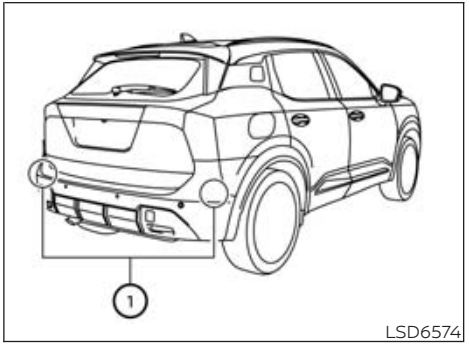
When the shift position is in R (Reverse) and the vehicle speed is less than approximately 5 mph (8 km/h), the RCTA system is operational.

If the radar detects an approaching vehicle from either side, the system chimes (once) and the side BSW/RCTA indicator light flashes on the side the vehicle is approaching from.



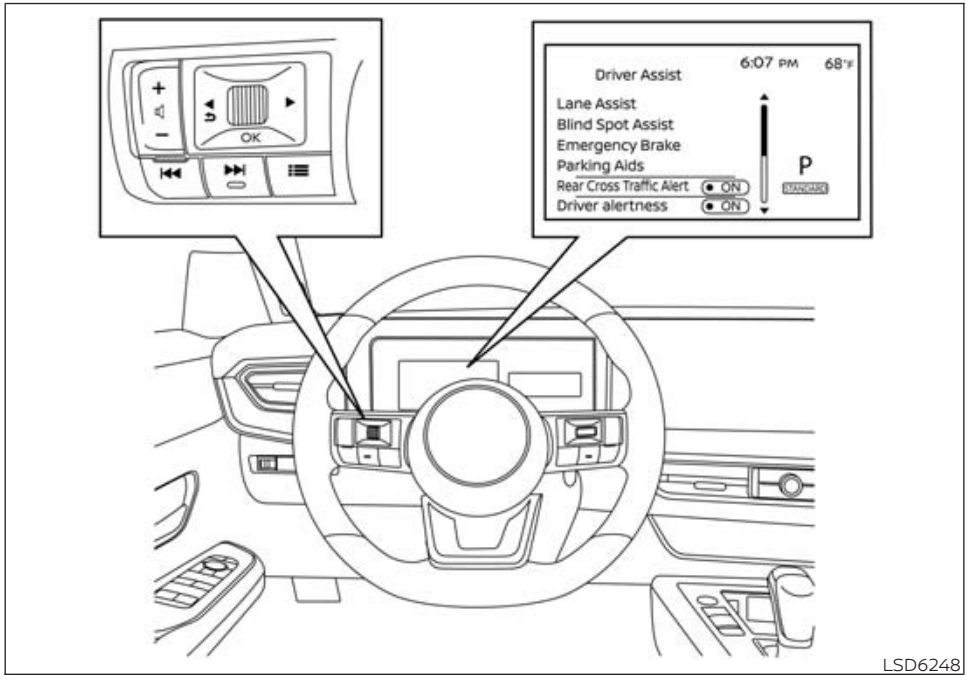
For vehicles with the 12.3 inch (31.2 cm) display





The RCTA system uses radar sensors ① installed on both sides near the rear bumper to detect an approaching vehicle.

The radar sensors ① can detect an approaching vehicle from up to approximately 66 ft. (20 m) away.



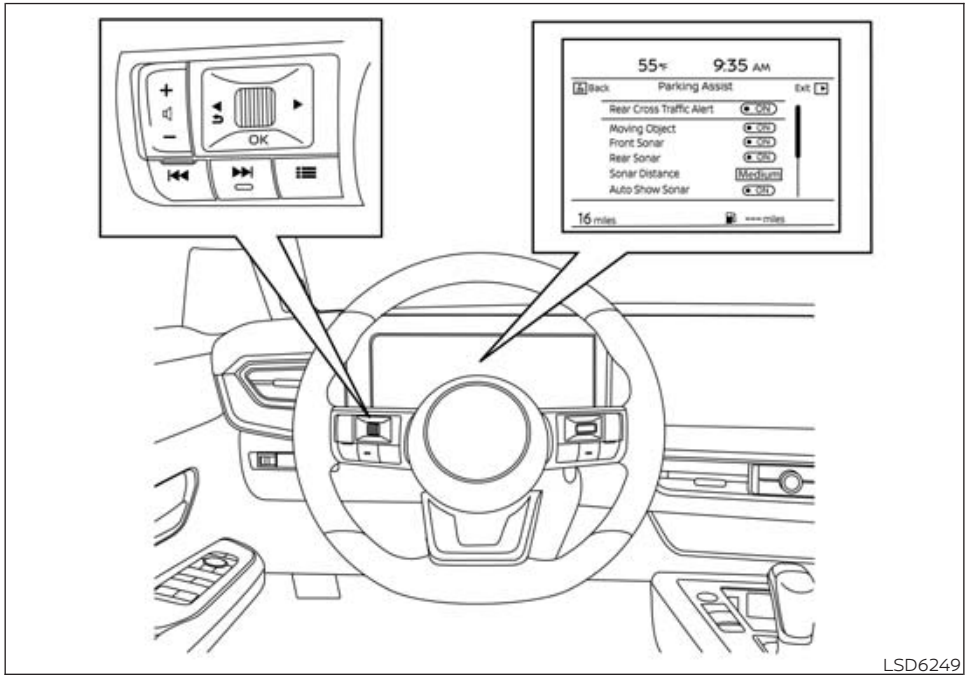
For vehicles with the 7 inch (18 cm) display

HOW TO ENABLE/DISABLE THE RCTA SYSTEM

Perform the following steps to enable or disable the RCTA system.

For vehicles with the 7 inch (18 cm) display:

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance" Then press the OK button.
2. Select "Rear Cross Traffic Alert" and press the OK button to turn the system on or off.



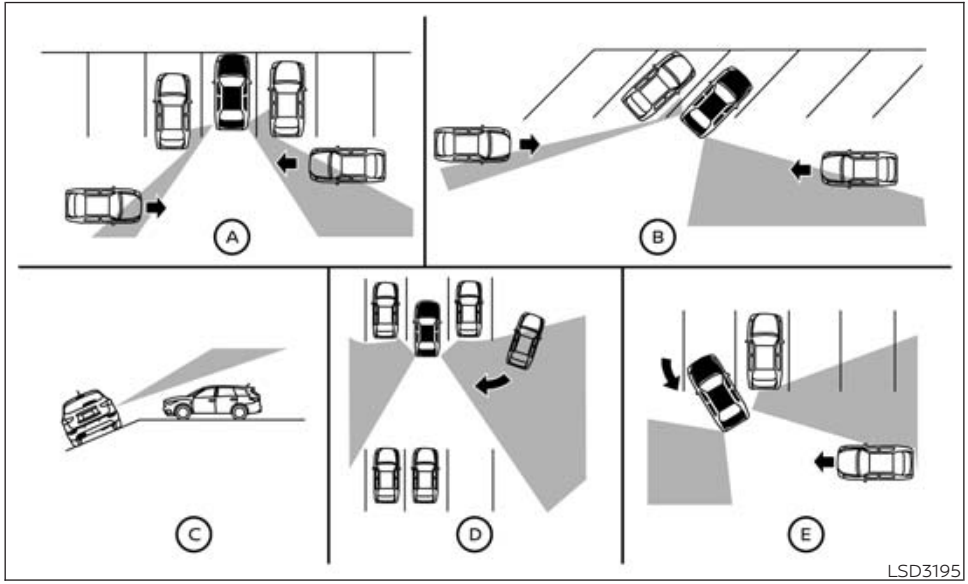
For vehicles with the 12.3 inch (31.2 cm) display

For vehicles with the 12.3 inch (31.2 cm) display:

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance" Then press the OK button.
2. Select "Parking Assist" and press the OK button.
3. Select "Rear Cross Traffic Alert" and press the OK button to turn the system on or off.

NOTE:

When enabling/disabling the system, the system setting will be retained even if the engine is restarted.



RCTA SYSTEM LIMITATIONS

⚠ WARNING

Listed below are the system limitations for the RCTA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Always check surroundings and turn to check what is behind you before backing up. The radar sensors detect approaching (moving) vehicles. The radar sensors cannot detect every object such as:**
  - **Pedestrians, bicycles, motorcycles, animals or child-operated toy vehicles**
  - **A vehicle that is passing at speeds greater than approximately 19 mph (30 km/h)**
  - **A vehicle that is passing at speeds lower than approximately 5 mph (8 km/h)**
- **The radar sensors may not detect approaching vehicles in certain situations:**
  - **Illustration Ⓐ: When a vehicle parked next to you obstructs the beam of the radar sensor.**
  - **Illustration Ⓑ: When the vehicle is parked in an angled parking space.**
  - **Illustration Ⓒ: When the vehicle is parked on inclined ground.**
  - **Illustration Ⓓ: When an approaching vehicle turns into your vehicle's parking lot aisle.**
  - **Illustration Ⓔ: When the angle formed by your vehicle and approaching vehicle is small.**
- **The following conditions may reduce the ability of the radar to detect other vehicles:**
  - **Severe weather**
  - **Road spray**
  - **Ice/frost/snow/dirt build-up on the vehicle**

- **Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.**
- **Excessive noise (e.g., audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.**

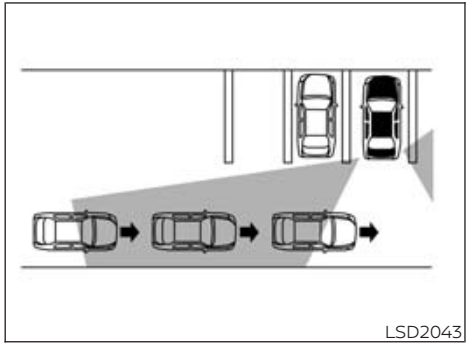


Illustration 1

NOTE:

In the case of several vehicles approaching in a row (Illustration 1) or in the opposite direction (Illustration 2), a chime may not be sounded by the RCTA system after the first vehicle passes the sensors.

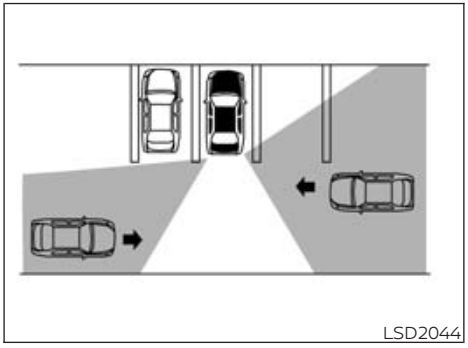
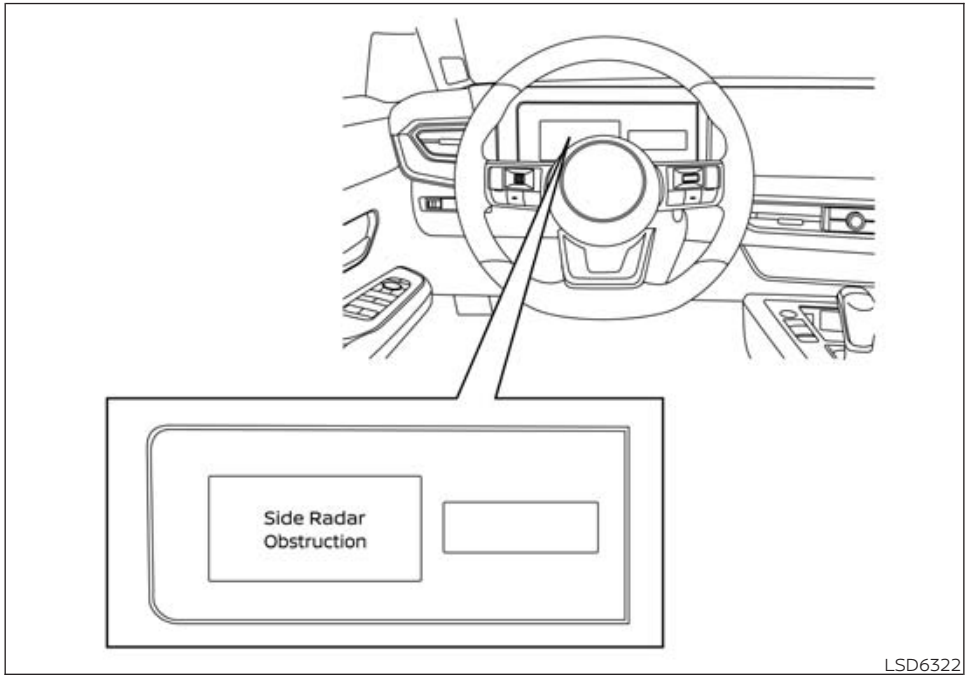


Illustration 2



For vehicles with the 7 inch (18 cm) display

SYSTEM TEMPORARILY UNAVAILABLE

Basic Information

When radar blockage is detected, the system will be deactivated automatically. The "Side Radar Obstruction" warning message will appear in the vehicle information display.

The systems are not available until the conditions no longer exist.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

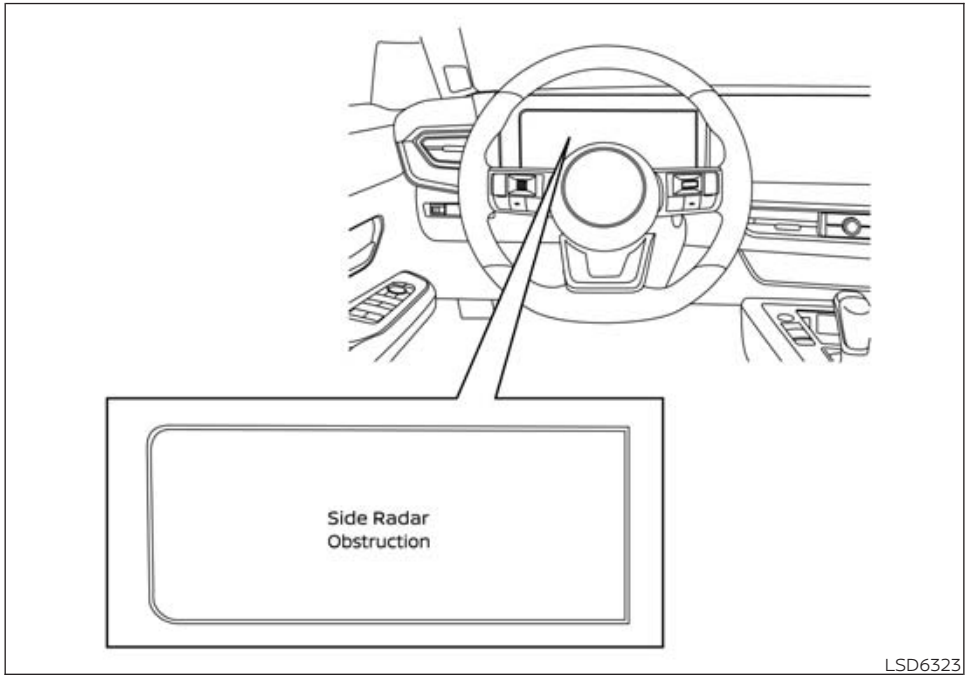
The blocked condition may also be caused by conditions such as ice, snow, frost or dirt obstructing the radar sensors.

NOTE:

If the BSW system stops working, the RCTA system will also stop working.

Action to take:

When the above conditions no longer exist, the system will resume automatically.



For vehicles with the 12.3 inch (31.2 cm) display

Malfunction

When the RCTA system malfunctions, it will turn off automatically. The system malfunction warning message will appear in the vehicle information display.

NOTE:

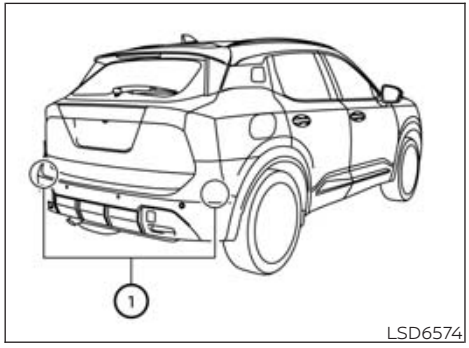
If the BSW system stops working, the RCTA system will also stop working.

Action to take:

Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off and restart the engine. If the message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

Basic Information



The two radar sensors ① for the BSW and RCTA systems are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors. It is recommended that you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

Radio frequency statement

For USA

FCC ID: XXX-YY234

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

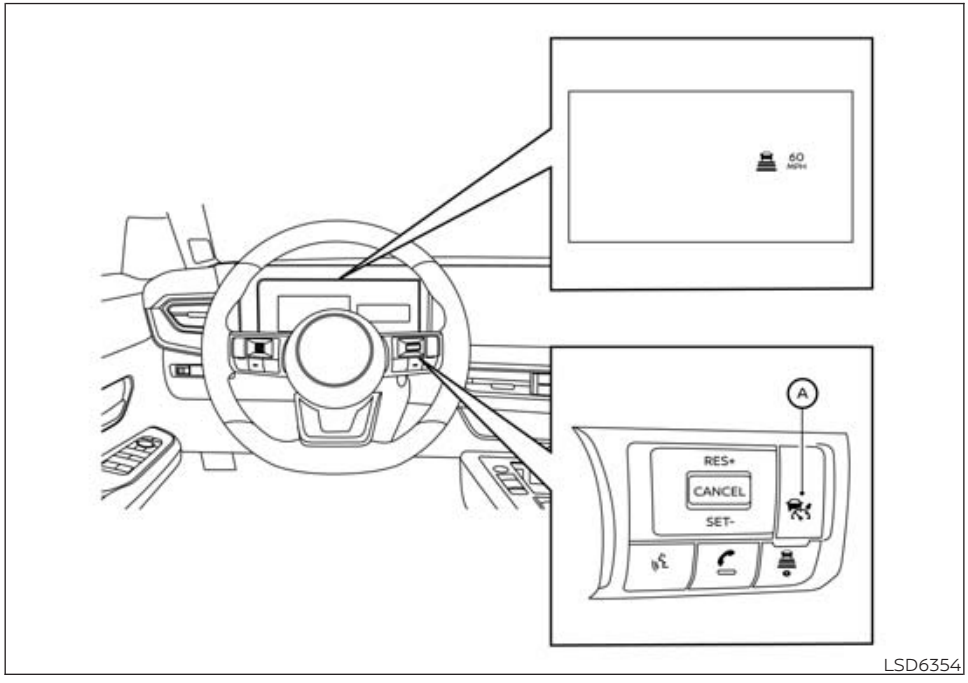
For Class A devices (Industrial) and Class B devices please consult 784748 D01 General labeling and Notification v09r01.

For Canada

IC: 3659A-6TR

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference,
2. This device must accept any interference, including interference that may cause undesired operation of the device.



LSD6354

INTELLIGENT CRUISE CONTROL (ICC) (if so equipped)

BASIC INFORMATION

Ⓐ ICC switch

⚠WARNING

Failure to follow the warnings and instructions for proper use of the ICC system could result in serious injury or death.

- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **Always observe posted speed limits and do not set the speed over them.**
- **Always drive carefully and attentively when using the ICC system. Read and understand the Owner's Manual thoroughly before using the ICC system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ICC system except in appropriate road and traffic conditions.**
- **In the conventional (fixed speed) cruise control mode, a warning chime will not sound to warn you if you are too close to the vehicle ahead. Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**

The ICC system maintains a selected distance from the vehicle in front of you within the speed range of 0 to 90 mph (0 to 144 km/h) up to the set speed. The set speed

can be selected by the driver between 20 to 90 mph (32 to 144 km/h).

The vehicle travels at a set speed when the road ahead is clear.

The ICC system can be set to one of two cruise control modes:

- **Vehicle-to-vehicle distance control mode:** For maintaining a selected distance between your vehicle and the vehicle in front of you up to the preset speed
- **Conventional (fixed speed) cruise control mode:** For cruising at a preset speed

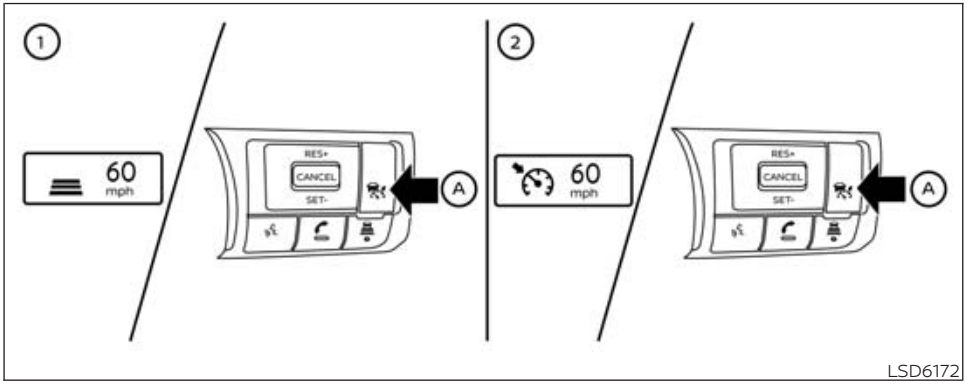
Push the ICC switch Ⓐ to choose the cruise control mode between the vehicle-to-vehicle distance control mode and the conventional (fixed speed) cruise control mode.

Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the ICC switch Ⓐ once to turn the system off. Then push the ICC switch Ⓐ again to turn the system back on and select the desired cruise control mode.

Always confirm the setting in the ICC system display.

For the vehicle-to-vehicle distance control mode, see "Vehicle-to-vehicle distance control mode" (P. 298).

For the conventional (fixed speed) cruise control mode, see "Conventional (fixed speed) cruise control mode" (P. 310).

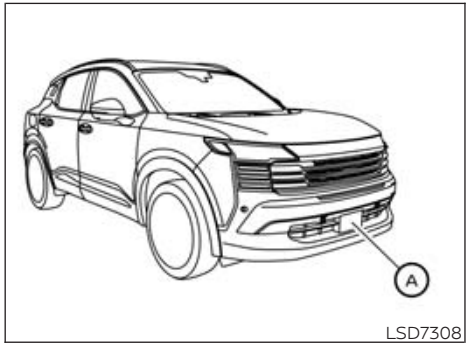


HOW TO SELECT THE CRUISE CONTROL MODE

Selecting the vehicle-to-vehicle distance control mode: To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the ICC switch Ⓐ.

Selecting the conventional (fixed speed) cruise control mode: To choose the conventional (fixed speed) cruise control mode ②, push and hold the ICC switch Ⓐ for longer than approximately 1.5 seconds. For additional information, see "Conventional (fixed speed) cruise control mode" (P. 336).

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE



LSD7308

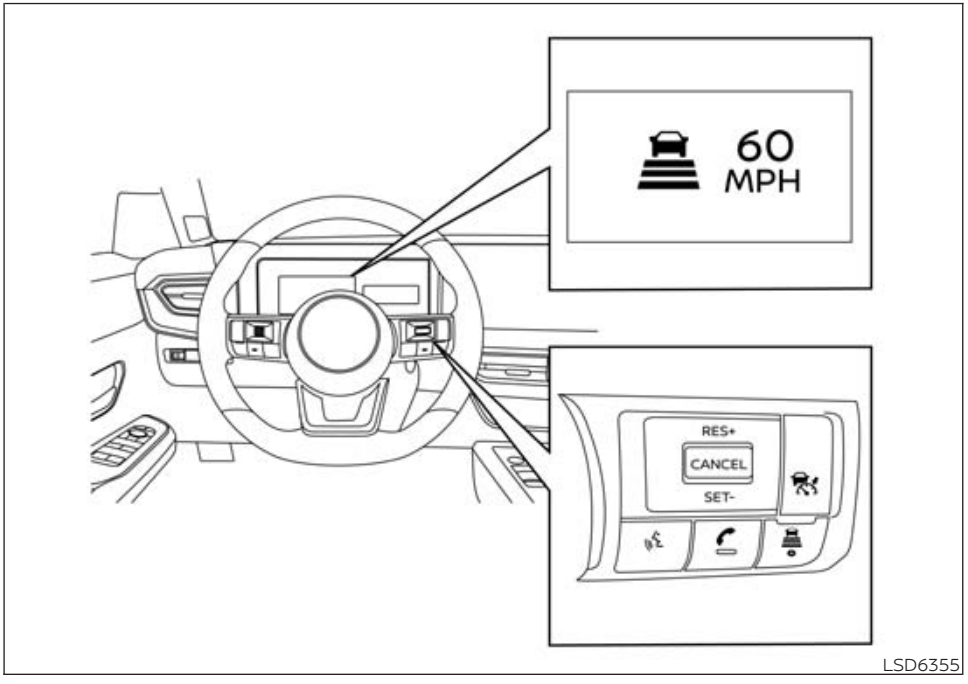
In the vehicle-to-vehicle distance control mode, the ICC system automatically maintains a selected distance from the vehicle traveling in front of you according to that vehicle's speed (up to the set speed), or at the set speed when the road ahead is clear.

The ICC system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

If the radar sensor Ⓐ detects a slower moving vehicle ahead, the system will reduce the vehicle speed so that your vehicle follows the vehicle in front at the selected distance.

The system automatically controls the throttle and applies the brakes (up to approximately 40% of vehicle braking power) if necessary.

The detection range of the sensor is approximately 650 ft (200 m) ahead.



LSD6355

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE OPERATION

The vehicle-to-vehicle distance control mode is designed to maintain a selected distance from the vehicle in front of you and can reduce the speed to match a slower vehicle ahead. The system will decelerate the vehicle as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the ICC system can only apply up to 40% of the vehicle's total braking power.

This system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or when vehicle speeds change gradually. If a vehicle moves into the

traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning chime and blink the system display to notify the driver to take necessary action.

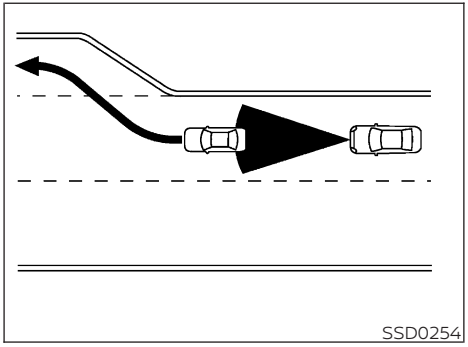
The system will cancel and a warning chime will sound if the speed is below approximately 15 mph (24 km/h) and a vehicle is not detected ahead. The system will also disengage when the vehicle goes above the maximum set speed.

For additional information, see "Approach warning" (P. 304).

The following items are controlled in the vehicle-to-vehicle distance control mode:

- When there are no vehicles traveling ahead, the vehicle-to-vehicle distance control mode maintains the speed set by the driver. The set speed range is between approximately 20 and 90 mph (32 and 144 km/h).
- When there is a vehicle traveling ahead, the vehicle-to-vehicle distance control mode adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges a standstill with a warning chime.
- When the vehicle traveling ahead has moved out from its lane of travel, the vehicle-to-vehicle distance control mode accelerates and maintains vehicle speed up to the set speed.
- When your vehicle is at a standstill for more than 3 seconds and the vehicle ahead begins to accelerate, push up the CANCEL switch to RES+ or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.

The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.


SSD0254

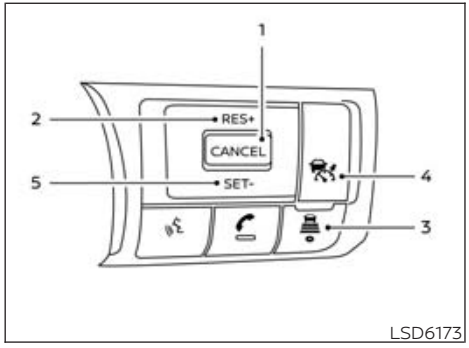
When driving on the freeway at a set speed and approaching a slower traveling vehicle ahead, the ICC system will adjust the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the freeway, the ICC system will accelerate and maintain the speed up to the set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, this system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead. Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE SWITCHES

Basic Information

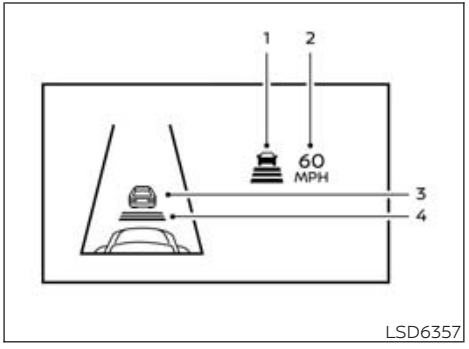


LSD6173

The system is operated by the ICC switch and four control switches, all mounted on the steering wheel.

1. **CANCEL switch:**
   Deactivates the system without erasing the set speed.
2. **RES+ switch:**
   Resumes set speed or increases speed incrementally.
3. **DISTANCE switch:**
   Changes the vehicle's following distance:
   - Long
   - Middle
   - Short
4. **ICC Switch:**
   Master switch to activate the system.
5. **SET- switch:**
   Sets desired cruise speed or reduces speed incrementally.

Vehicle-to-vehicle distance control mode display and indicators



LSD6357

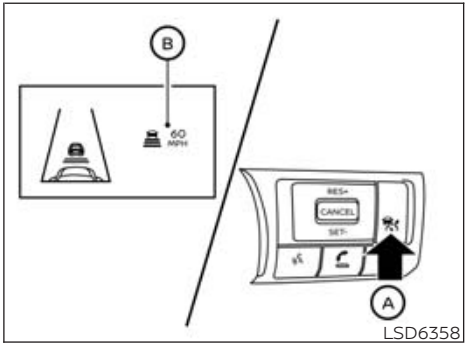
The display is located between the speedometer and tachometer.

1. This indicator indicates the ICC system status depending on a color:

- **ICC system ON indicator (gray):** Indicates that the ICC is on.
- **ICC system SET indicator (green):** Indicates that the cruising speed is set.
- **ICC system warning (yellow):** Indicates that there is a malfunction in the ICC system.

2. Set vehicle speed indicator:
   Indicates the set vehicle speed.
   For Canadian models, the speed is displayed in km/h.
3. Vehicle ahead detection indicator:
   Indicates whether it detects a vehicle in front of you.
4. Set distance indicator:
   Displays the selected distance between vehicles set with the distance switch.

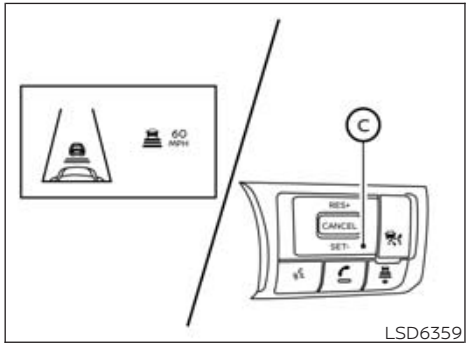
Operating vehicle-to-vehicle distance control mode



LSD6358

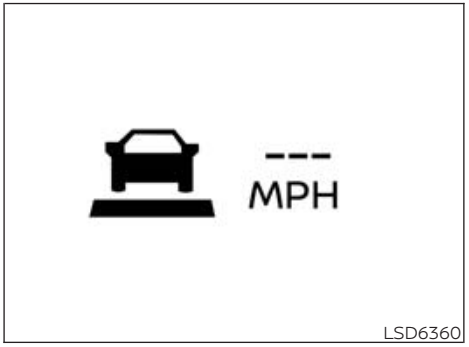
To turn on the cruise control, quickly push and release the ICC switch Ⓐ. The ICC system ON indicator (gray), set distance indicator and

set vehicle speed indicator Ⓑ come on in a standby state for setting.



LSD6359

To set cruising speed, accelerate your vehicle to the desired speed, push the SET– switch Ⓒ and release it. The ICC system set indicator (green), vehicle ahead detection indicator, set distance indicator and set vehicle speed indicator Ⓑ will come on. Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.



LSD6360

When the SET– switch is pushed under the following conditions, the system cannot be set and the set vehicle speed indicator will blink for approximately 2 seconds:

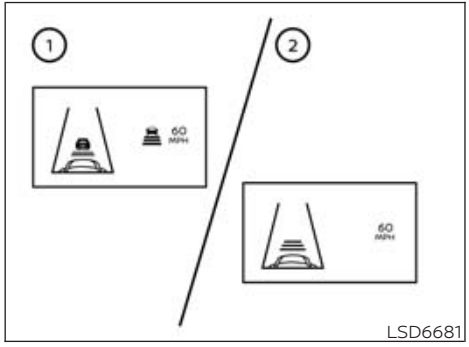
- When traveling below 20 mph (32 km/h) and a vehicle ahead is not detected
- When the shift lever is not in the D (Drive)
- When the parking brake is applied
- When the brakes are operated by the driver

When the SET– switch is pushed under the following conditions, the system cannot be set.

A warning message will pop up:

- When the VDC system is off (To use the ICC system, turn on the VDC system. Push the ICC switch to turn off the ICC system and reset the ICC switch by pushing the ICC switch again.)

  For additional information about the VDC system, see "Vehicle Dynamic Control (VDC) system" (P. 385).
- When VDC is operating
- When a wheel is slipping (To use the ICC system, make sure the wheels are no longer slipping.)



LSD6681

① System set display with vehicle ahead

② System set display without vehicle ahead

The driver sets the desired vehicle speed based on the road conditions. The ICC system maintains the set vehicle speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead. The ICC system displays the set speed.

Vehicle detected ahead

When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

NOTE:

- **The stop lights of the vehicle come on when braking is performed by the ICC system.**
- **When the brake operates, a noise may be heard. This is not a malfunction.**

When a vehicle ahead is detected, the vehicle ahead detection indicator comes on. The ICC system will also display the set speed and selected distance.

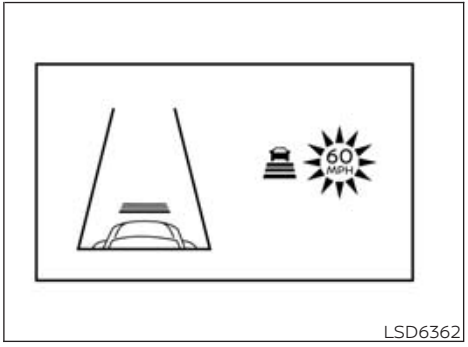
Vehicle ahead not detected

When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously set vehicle speed. The ICC system then maintains the set speed.

When a vehicle is no longer detected, the vehicle ahead detection indicator turns off.

If a vehicle ahead appears during acceleration to the set vehicle speed or any time the ICC system is in operation, the system controls the distance to that vehicle.

When a vehicle is no longer detected under approximately 15 mph (24 km/h), the system will be canceled.



LSD6362

When passing another vehicle, the set speed indicator will flash when the vehicle speed exceeds the set speed. The vehicle detect indicator will turn off when the area ahead of the vehicle is open. When the pedal is released, the vehicle will return to the previously set speed.

Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

How to change the set vehicle speed

To cancel the preset speed, use one of the following methods:

- Push the CANCEL switch. The set vehicle speed indicator and the cruise indicator will turn grey.
- Tap the brake pedal. The set vehicle speed indicator and the cruise indicator will turn grey.
- Turn the ICC switch off. The ICC indicators will go out.

To reset at a faster cruising speed, use one of the following methods:

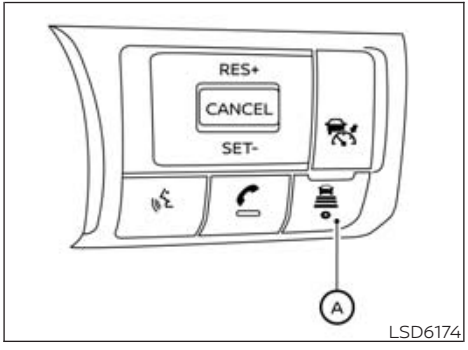
- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET– switch.
- Push and hold the RES+ switch. The set vehicle speed will increase by approximately 5 mph (5 km/h for Canada).
- Push, then quickly release the RES+ switch. Each time you do this, the set speed will increase by approximately 1 mph (1 km/h for Canada).

To reset at a slower cruising speed, use one of the following methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the SET– switch and release it.
- Push and hold the SET– switch. The set vehicle speed will decrease by approximately 5 mph (5 km/h for Canada).
- Push, then quickly release the SET– switch. Each time you do this, the set speed will decrease by approximately 1 mph (1 km/h for Canada).

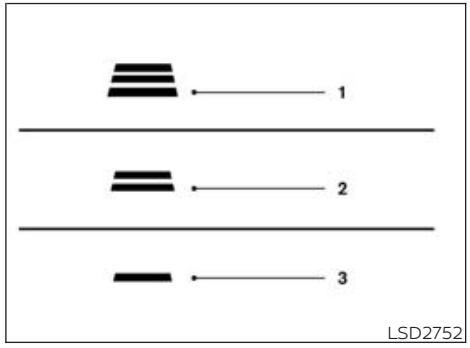
To resume the preset speed, push and release the RES+ switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 20 mph (32 km/h).

How to change the set distance to the vehicle ahead



The distance to the vehicle ahead can be selected at the time of the ICC standby or the ICC is active.

Each time the distance switch Ⓐ is pushed, the set distance will change to long, middle, short and back to long again, in that sequence.



Approximate distance at 60 mph (100 km/h) [ft (m)]

Distance: Long

200 (60)

Distance: Middle

150 (45)

Distance: Short

90 (30)

- The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- The distance setting will remain at the current setting even if the engine is restarted.

Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator blinks.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are traveling at the same speed and the distance between vehicles is not changing.
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing.
- When a vehicle cuts in near your vehicle.

The warning chime will not sound when:

- The vehicle approaches other vehicles that are parked or moving slowly.
- The accelerator pedal is depressed, overriding the system.

NOTE:

The approach warning chime may sound and the system display may blink when the ICC sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The ICC sensor may detect these objects when the vehicle is driven on winding roads, narrow roads, hilly roads, or when entering or exiting a curve. In these cases you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).

Automatic cancellation

A chime sounds under the following conditions and the control is automatically canceled:

- When the vehicle ahead is not detected and your vehicle is traveling below the speed of 15 mph (24 km/h)
- When the system judges the vehicle is at a standstill
- When the shift lever is not in the D (Drive) position or B (Brake) range.
- When the parking brake system is applied
- When the VDC system is turned off
- When VDC operates
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor
- When a wheel slips
- When the radar signal is temporarily interrupted

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE LIMITATIONS

⚠WARNING

Listed below are the system limitations for the ICC system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The ICC system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the ICC system in city traffic or congested areas.**
- **The ICC system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves, or on icy roads, in heavy rain or in fog.**
- **As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absentminded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed**

by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.

- **If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges that the vehicle has come to a standstill and sound a warning chime. To prevent the vehicle from moving, the driver must depress the brake pedal.**
- **Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The ICC system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.**
- **The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the ICC system under the following conditions:**
  - **On roads where the traffic is heavy or there are sharp curves**
  - **On slippery road surfaces such as on ice or snow, etc.**
  - **During bad weather (rain, fog, snow, etc.)**
  - **When rain, snow or dirt adhere to the bumper around the distance sensor**
  - **On steep downhill roads (the vehicle may go beyond the set vehicle speed and frequent braking may result in overheating the brakes)**
  - **On repeated uphill and downhill roads**
  - **When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration**
  - **Interference by other radar sources**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. Always stay alert and avoid using the ICC system where not recommended in this warning section.**

The radar sensor will not detect the following objects:

- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

The sensor generally detects the signals returned from the vehicle ahead. Therefore, if the sensor cannot detect the reflection from the vehicle ahead, the ICC system may not maintain the selected distance.

The following are some conditions in which the sensor cannot properly detect a vehicle ahead and the system may not operate properly:

- When snow or road spray from traveling vehicles reduces the sensor's detection.
- When excessively heavy baggage is loaded in the rear seat or cargo area of your vehicle.

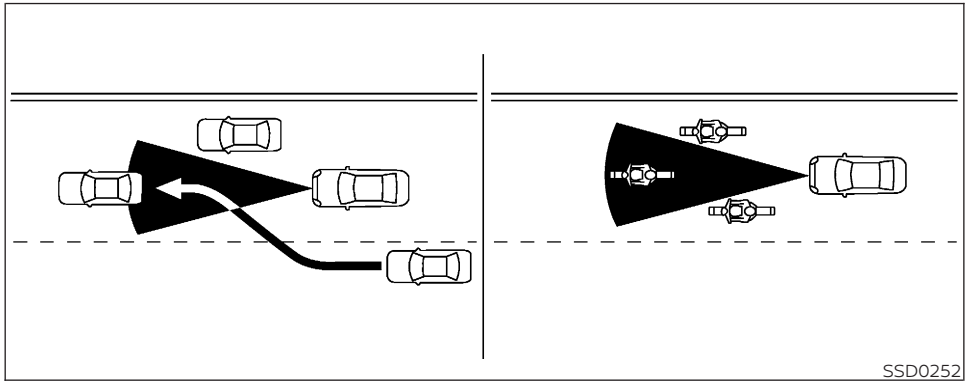
The ICC system is designed to automatically check the sensor's operation within the limitations of the system.

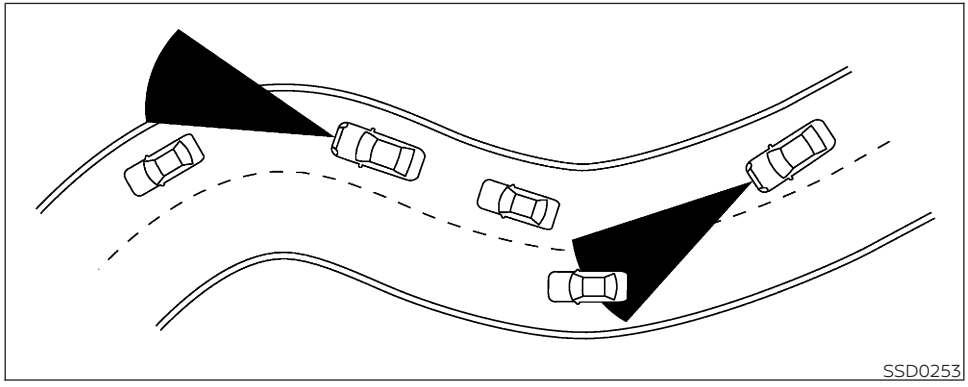
When the sensor is covered with dirt or is obstructed, the system will automatically be canceled. If the sensor is covered with ice, a transparent or translucent vinyl bag, etc., the ICC system may not detect them. In these instances, the vehicle-to-vehicle distance control mode may not cancel and may not be able to maintain the selected following distance from the vehicle ahead. Be sure to check and clean the sensor regularly.

The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the vehicle-to-vehicle distance detection mode to maintain the selected distance from the vehicle ahead.

A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the centerline of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from vehicle traveling ahead.

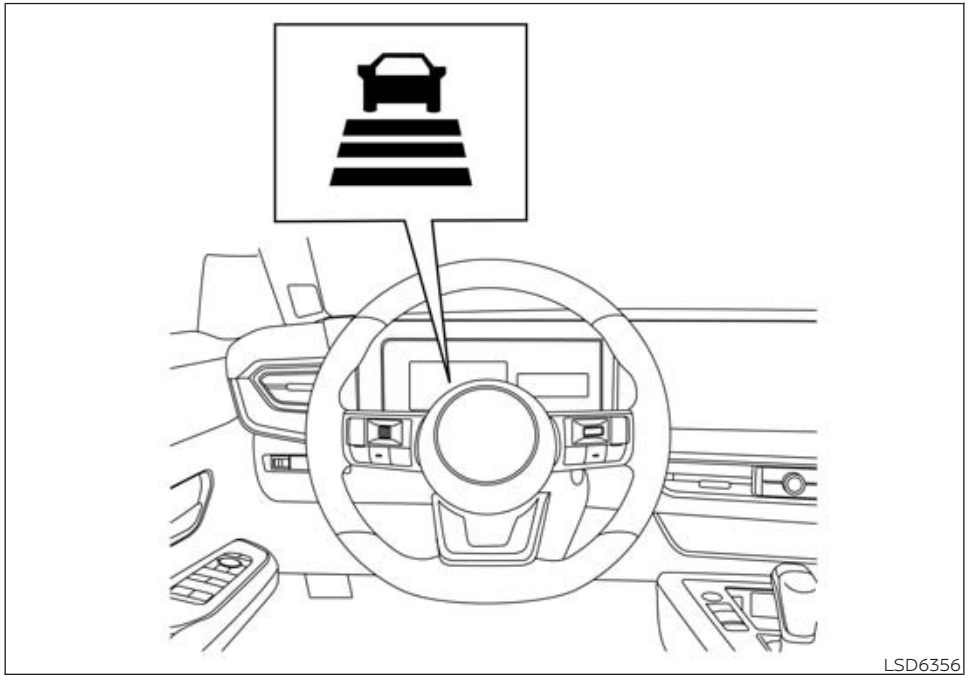

SSD0252


SSD0253

When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the radar system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.


LSD6356

SYSTEM TEMPORARILY UNAVAILABLE

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

Condition A

Under the following conditions, the ICC system is automatically canceled. A chime will sound and the system will not be able to be set:

- When the VDC system is turned off
- When the VDC operates
- When a vehicle ahead is not detected and your vehicle is traveling below the speed of 15 mph (24 km/h)
- When the system judges the vehicle is at a standstill
- When the shift lever is not in the D (Drive) or B (Brake) range
- When the parking brake is applied
- When a wheel slips
- When the radar signal is temporarily interrupted

Action to take:

When the conditions listed above are no longer present, turn the system off using the ICC switch. Turn the ICC system back on to use the system.

Condition B

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor, the ICC system will automatically be canceled, the chime will sound and the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

When the conditions listed above are no longer present, the warning message will no longer be available in the vehicle information display and the system will operate normally. If the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition C

When the radar sensor area of the front bumper is covered with dirt or is obstructed, the ICC system will automatically be canceled.

The chime will sound and the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning message appears, stop the vehicle in a safe place, place the shift lever in the P (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front bumper and restart the engine. If the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition D

When driving on roads with limited road structures (for example, long bridges, deserts, snow fields, driving next to long walls), the system may display the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message and a warning chime may sound.

Action to take:

When the above driving conditions no longer exist, turn the system back on.

Condition E

When the ICC system is not operating properly, a chime sounds, a warning message is displayed: "Malfunction See Owner's Manual" and the ICC system warning light (orange) will come on.



LSD3916

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and set the ICC system again.

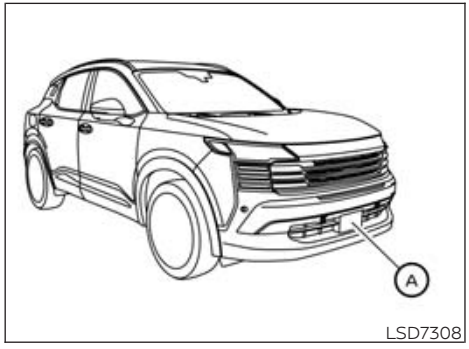
If it is not possible to set the system or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still drivable under normal conditions, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the ICC system is temporarily unavailable, the conventional cruise control mode may still be used. For additional information, please see "Conventional (fixed speed) cruise control mode" (P. 310).

SYSTEM MAINTENANCE

Basic Information



LSD7308

The sensor for the ICC system Ⓐ is located on the front of the vehicle, behind the radar cover.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area of the front radar cover/emblem clean.
- Do not strike or damage the areas around the sensor.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove, or paint the front bumper. Before customizing or restoring the front bumper, it is recommended that you visit a NISSAN dealer.

Radio frequency statement

For USA

FCC ID: NF3-F5CP32

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For Canada

IC: 3887A-F5CP32

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

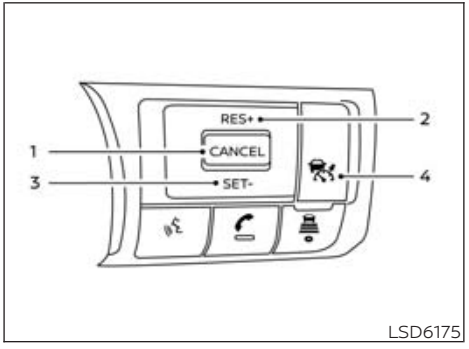
Basic Information

This mode allows driving at a speed between 20 to 90 mph (32 to 144 km/h) without keeping your foot on the accelerator pedal.

⚠ WARNING

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:**
  - **When it is not possible to keep the vehicle at a set speed**
  - **In heavy traffic or in traffic that varies in speed**
  - **On winding or hilly roads**
  - **On slippery roads (rain, snow, ice, etc.)**
  - **In very windy areas**
- **Doing so could cause a loss of vehicle control and result in an accident.**

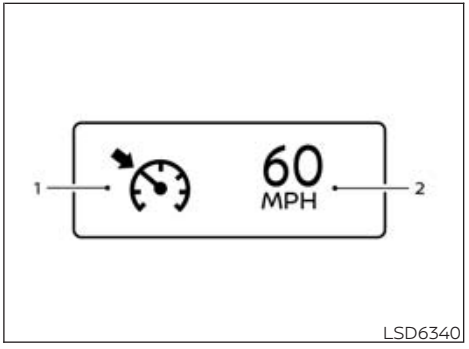
Conventional (fixed speed) cruise control switches



LSD6175

1. CANCEL switch:
   Deactivates the system without erasing the set speed
2. RES+ switch:
   Resumes set speed or increases speed incrementally
3. SET- switch:
   Sets desired cruise speed or reduces speed incrementally
4. ICC switch:
   Master switch to activate the system

Conventional (fixed speed) cruise control mode display and indicators

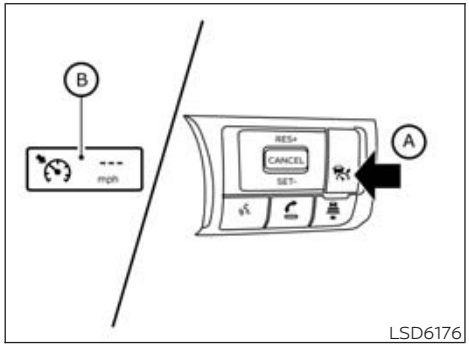


LSD6340

The display is located in the vehicle information display.

1. Cruise indicator:
   This indicator indicates the condition of the ICC system depending on a color.
   - Cruise control ON indicator (gray): Indicates that the ICC switch is on
   - Cruise control SET indicator (green): Indicates that the cruising speed is set
   - Cruise control warning (yellow): Indicates that there is a malfunction in the ICC system
2. Set vehicle speed indicator:
   This indicator indicates the set vehicle speed. For Canadian models, the speed is displayed in km/h.

Operating conventional (fixed speed) cruise control mode



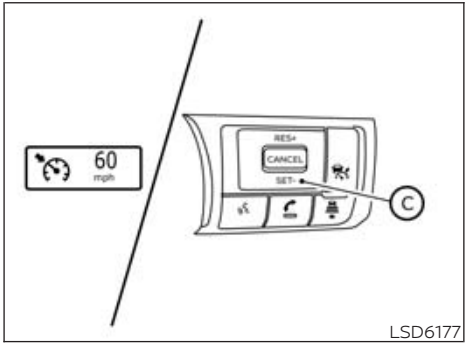
To turn on the conventional (fixed speed) cruise control mode, push and hold the ICC switch Ⓐ for longer than about 1.5 seconds.

When pushing ICC switch on, ICC system display and indicators Ⓑ are displayed in the vehicle information display. After you hold ICC switch on for longer than about 1.5 seconds, the ICC system display turns off. The cruise indicator appears. You can now set your desired cruising speed. Pushing the ICC switch again will turn the system completely off. When the ignition switch is placed in the OFF position, the system is also automatically turned off.

To use the ICC system again, quickly push and release the ICC switch (vehicle-to vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

⚠CAUTION

To avoid accidentally engaging cruise control, make sure to turn the ICC switch off when not using the ICC system.



To set cruising speed, accelerate your vehicle to the desired speed, push the SET- Ⓒ switch and release it. (The color of the cruise indicator changes to green and set vehicle speed indicator comes on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- To pass another vehicle, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset speed, use any of the following methods:

1. Push the CANCEL switch. The vehicle speed indicator (gray) will illuminate.
2. Tap the brake pedal. The vehicle speed indicator (gray) will illuminate.
3. Turn the ICC switch off. Both the cruise indicator and vehicle speed indicator will turn off.

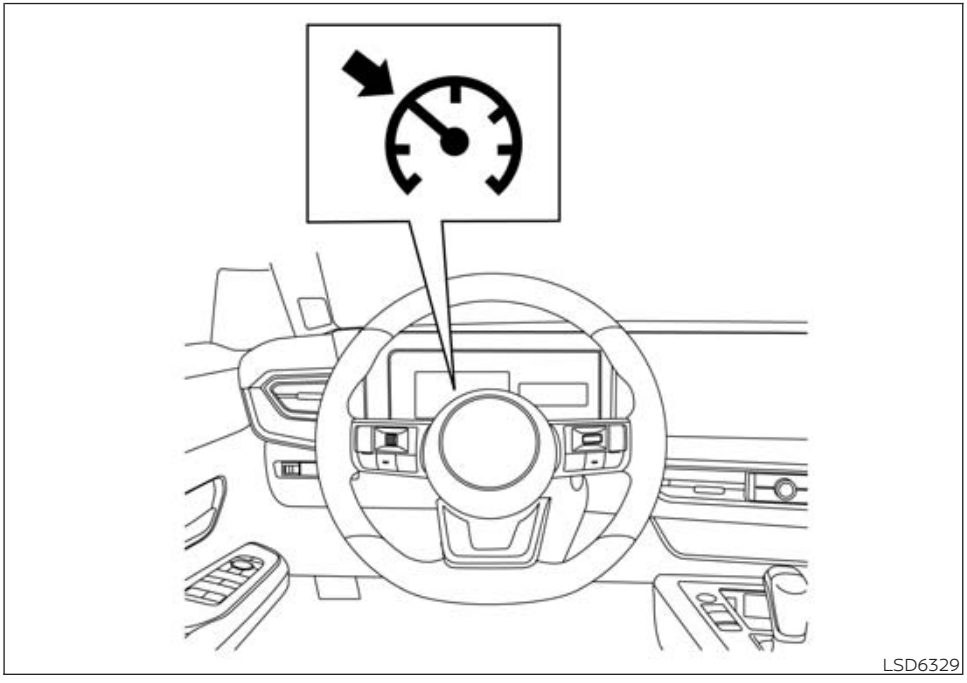
To reset at a faster cruising speed, use one of the following three methods:

1. Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET- switch.
2. Push and hold the RES+ switch. The set vehicle speed will increase by approximately 5 mph (5 km/h for Canada).
3. Push, then quickly release the RES+ switch. Each time you do this, the set speed will increase by about 1 mph (1 km/h).

To reset at a slower cruising speed, use one of the following three methods:

1. Lightly tap the brake pedal. When the vehicle attains the desired speed, push the SET- switch and release it.
2. Push and hold the SET- switch. The set vehicle speed will decrease by approximately 5 mph (5 km/h for Canada).
3. Push, then quickly release the SET- switch. Each time you do this, the set speed will decrease by about 1 mph (1 km/h).

To resume the preset speed, push and release the RES+ switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 20 mph (32 km/h).


LSD6329

System temporarily unavailable

A chime sounds under the following conditions and the control is automatically canceled:

- When the vehicle slows down more than 8 mph (13 km/h) below the set speed
- When the shift lever is not in the D (Drive) or manual shift mode
- When the parking brake is applied
- When the VDC operates (including the traction control system)
- When a wheel slips

When the system is not operating properly, the chime sounds and the color of the cruise indicator will change to orange.

Action to take

If the color of the cruise indicator changes to orange, stop the vehicle in a safe place and place the shift lever in the P (Park) position. Turn the engine off, restart the engine, resume driving, and then perform the setting again.

If it is not possible to set or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still drivable under normal conditions, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

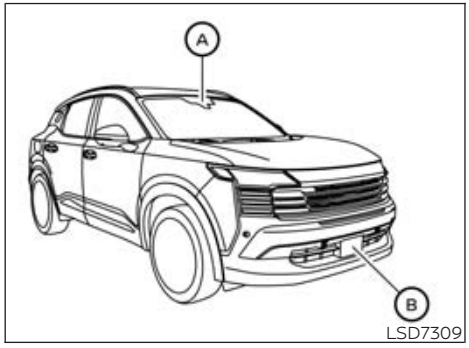
ProPILOT Assist (if so equipped)

BASIC INFORMATION

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the ProPILOT Assist system could result in serious injury or death.

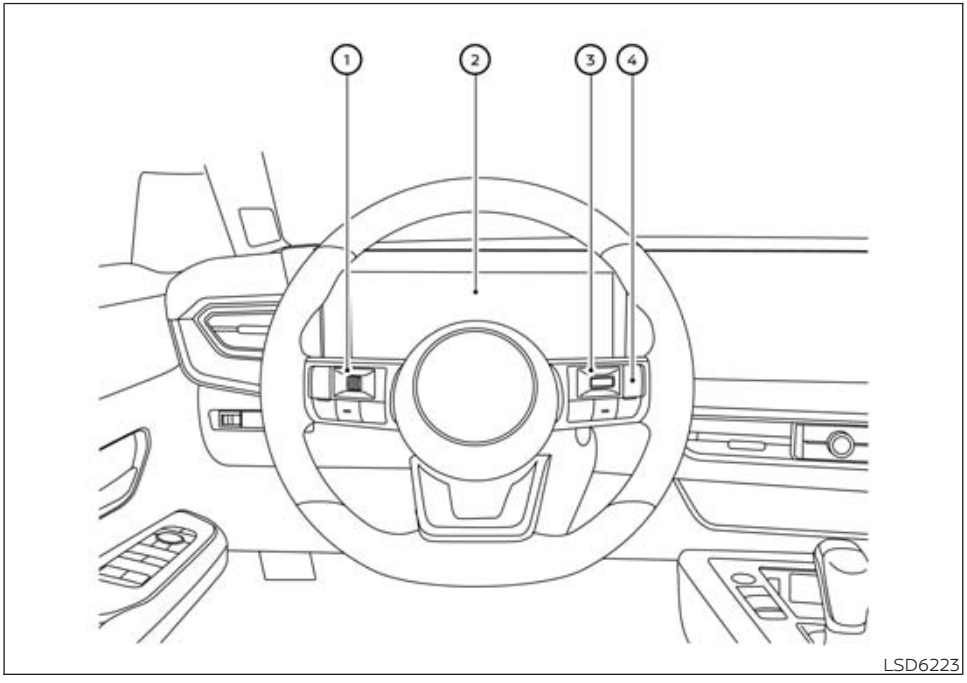
- **ProPILOT Assist is not a self-driving system. Within the limits of its capabilities, as described in this manual, it helps the driver with certain driving activities.**
- **The ProPILOT Assist system is not a replacement for proper driving procedures and is not designed to correct careless, inattentive or absent-minded driving. ProPILOT Assist will not always steer the vehicle to keep it in the lane. The ProPILOT Assist system is not designed to prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **There are limitations to the ProPILOT Assist system capability. The ProPILOT Assist system does not function in all driving, traffic, weather, and road conditions. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The ProPILOT Assist system is only an aid to assist the driver and is not a collision warning or avoidance device.**
- **The ProPILOT Assist system is for highway use only and is not intended for city driving. Failure to apply the brakes or steer the vehicle when necessary may result in a serious accident.**
- **Always observe posted speed limits and do not set the speed over them.**
- **Never take your hands off the steering wheel when driving. Always keep your hands on the steering wheel and drive your vehicle safely.**
- **Never unfasten your safety belt when using ProPILOT Assist. Doing so automatically cancels the ProPILOT Assist system.**
- **The ProPILOT Assist system does not react to stationary and slow moving vehicles.**
- **Always drive carefully and attentively when using the ProPILOT Assist system. Read and understand the Owner's Manual thoroughly before using the ProPILOT Assist system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ProPILOT Assist system except in appropriate road and traffic conditions.**



LSD7309

The ProPILOT Assist system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

The ProPILOT Assist system uses a multi-sensing front camera Ⓐ installed behind the windshield and a radar sensor located on the front of the vehicle Ⓑ to measure the distance to the vehicle ahead in the same lane and to monitor the lane markers. If the vehicle detects a slower moving vehicle ahead, the system will reduce the vehicle speed so that your vehicle follows the vehicle in front at the selected distance. The system will also help keep the vehicle centered in the traveling lane when clear lane markings are detected.



LSD6223

ProPILOT Assist SYSTEM OPERATION

Basic Information

① Steering-wheel-mounted control (left)
② Vehicle information display
③ Steering-wheel-mounted control (right)
④ ProPILOT Assist switch

The ProPILOT Assist system has the following two functions:

1. **Intelligent Cruise Control (ICC)**

   The ICC system can be set to one of two cruise control modes:

- **Conventional (fixed speed) cruise control mode:** For cruising at a preset speed

NOTE:

Steering Assist is not available in the conventional (fixed speed) cruise control mode.

- **Vehicle-to-vehicle distance control mode:** The ICC system maintains a selected distance from the vehicle in front of you within the speed range of 0 to 90 mph (0 to 144 km/h) up to the set speed. The set speed can be selected by the driver between 20 to 90 mph (32 to 144 km/h). When the vehicle ahead slows to a stop, your vehicle gradually decelerates to a standstill. When the vehicle is stopped, the ICC system maintains braking force to keep your vehicle stopped.

NOTE:

When your vehicle is stopped for less than 3 seconds and the vehicle ahead begins to move, your vehicle will start moving again automatically.

  - **When your vehicle is at a standstill for more than 3 seconds and the vehicle ahead begins to accelerate, push the RES+ switch or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead.**
  - **When no vehicle is detected ahead within the driver selected distance, the vehicle travels at the speed set by the driver. The speed must be above 20 mph (32 km/h) to use this function.**

NOTE:

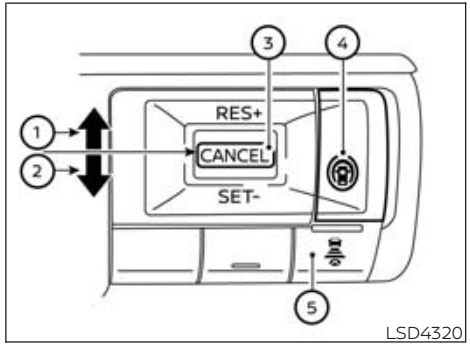
Even if the Automatic Emergency Braking (AEB) with Pedestrian Detection setting is turned off by the driver using the "Settings" menu in the vehicle information display, AEB with Pedestrian Detection will be automatically turned on when Steering Assist is active.

2. **Steering Assist**

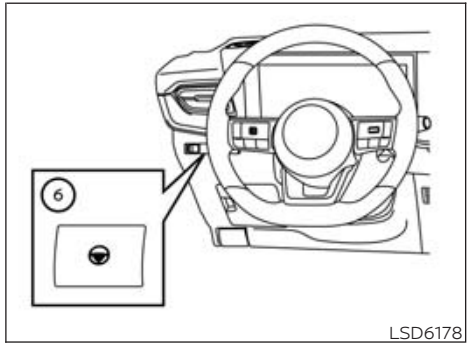
   The Steering Assist function controls the steering system to help keep your vehicle within the traveling lane.

   When there is no vehicle ahead, Steering Assist is not available at speeds under 37 mph (60 km/h).

ProPILOT Assist switches



LSD4320



LSD6178

① RES+ switch:

Resumes set speed or increases speed incrementally

② SET- switch:

Sets desired cruise speed or reduces speed incrementally

③ CANCEL switch:

Deactivates the ProPILOT Assist system without erasing the set speed

④ ProPILOT Assist switch:

Turns the ProPILOT Assist system on or off

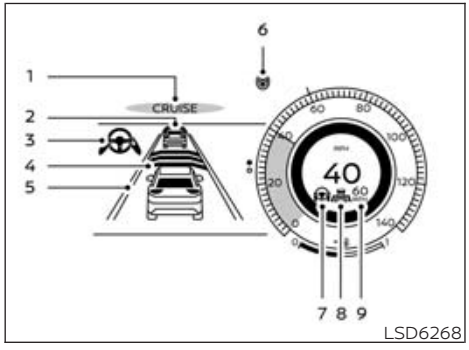
⑤ DISTANCE switch:

- Long
- Middle
- Short

⑥ Steering Assist switch:

Turns the Steering Assist function on or off

The ProPILOT Assist system display and indicators



1. **ProPILOT Assist activation**

   Displays once the ProPILOT Assist system is activated

2. **Vehicle ahead detection indicator**

   When the ICC is ON and active this indicates whether the system detects a vehicle in front of you

3. **Steering Assist indicator**

   Indicates the status of the Steering Assist function by the color of the indicator

   - Steering Assist indicator (gray): Steering Assist standby
   - Steering Assist indicator (green): Steering Assist active

4. **Set distance indicator**

   Displays the selected distance

5. **Lane marker indicator**

   Indicates whether the system detects lane markers

   - No lane markers displayed: Steering Assist is turned off
   - Lane marker indicator (gray): No lane markers detected
   - Lane marker indicator (green): Lane markers detected, Steering Assist is active
   - Lane marker indicator (orange): Lane departure is detected

6. **ProPILOT Assist status indicator**

   Indicates the status of the ProPILOT Assist system by the color of the indicator

   - ProPILOT Assist status indicator (white): ProPILOT Assist is on but in standby.
   - ProPILOT Assist status indicator (blue): ProPILOT Assist active

7. **Steering Assist status indicator/warning**

   Displays the status of the Steering Assist by the color of the indicator/warning

   - No Steering Assist status indicator displayed: Steering Assist is turned off
   - Steering Assist indicator (gray): Steering Assist standby
   - Steering Assist indicator (green): Steering Assist active
   - Steering Assist indicator (orange): Steering Assist malfunction
   - Steering Assist status indicator (red): Hands off detected

8. **Speed control status indicator/set distance indicator/lane marker indicator ( )**

   Displays the status of speed control by the color of the indicator, and displays the selected distance by the number of horizontal bars shown

   - Speed control status indicator (white): ICC standby
   - Speed control status indicator (green): ICC (distance control mode) is active
     - Green vehicle icon displayed: Vehicle detected ahead
     - No vehicle icon shown: No vehicle detected ahead (Your vehicle maintains the driver-selected set speed.)

- Speed control status indicator (orange): Indicates an ICC malfunction

For the lane marker indicator, see "Steering Assist display and indicators" (P. 332).

9. **Set vehicle speed indicator**

   Indicates the set vehicle speed

TURNING THE CONVENTIONAL (fixed speed) CRUISE CONTROL MODE ON

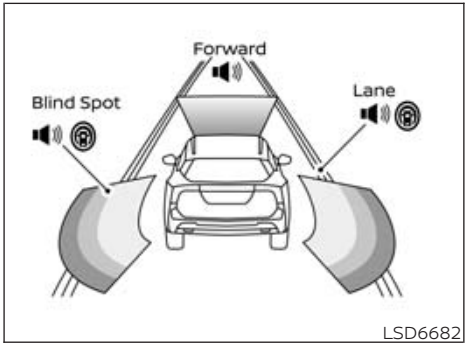
NOTE:

ProPILOT Assist provides no approach warnings, automatic braking, or steering assist in the conventional (fixed speed) cruise control mode.

To choose the conventional (fixed speed) cruise control mode, push and hold the ProPILOT Assist switch for longer than approximately 1.5 seconds. For additional information, see "Conventional (fixed speed) cruise control mode" (P. 336).

OPERATING ProPILOT Assist

Basic Information



Example

When the driving aids are enabled:

Zone: Forward

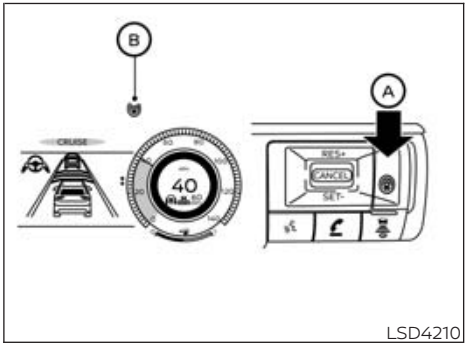
- Driving Aid: Automatic Emergency Braking (AEB) with Pedestrian Detection
- Display: Outline
- Driving Aid: Intelligent Forward Collision Warning (I-FCW)
- Display: Outline

Zone: Lane

- Driving Aid: Lane Departure Warning (LDW)
- Display: Outline
- Driving Aid: Intelligent Lane Intervention (I-LI)
- Display: Shaded

Zone: Blind Spot

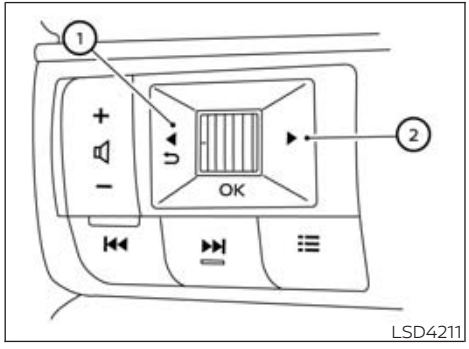
- Driving Aid: Blind Spot Warning (BSW)
- Display: Outline
- Driving Aid: Intelligent Blind Spot Intervention (I-BSI)
- Display: Shaded



1. Push the ProPILOT Assist switch Ⓐ. This turns on the ProPILOT Assist system.
   - The ProPILOT Assist status indicator Ⓑ illuminates in white.
   - A screen is displayed for a period of time that indicates the status of the Driving Aid functions (if so equipped).
2. A screen is displayed for a period of time that indicates the status of the driving aid functions.

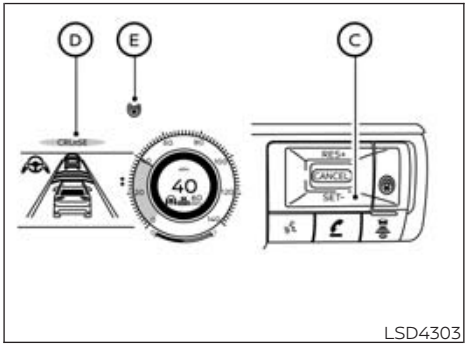
- When any of the "Warning" systems are enabled, the " " is shown in each zone.

- When any of the "Intervention" systems are enabled, the " " mark is shown in each zone.
- When no system is enabled, "OFF" is shown in each zone.



LSD4211

To change the status of the driving aids, use the ① ◄ or ② ► button to navigate the settings screen. For additional information, see "How to use the vehicle information display" (P. 103).

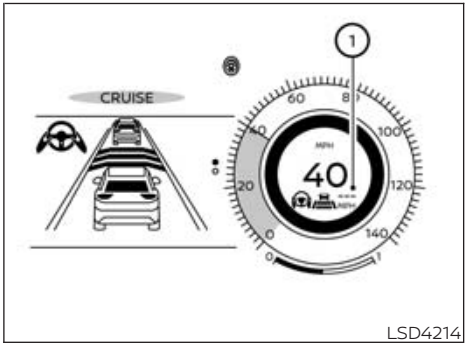


LSD4303

3. Accelerate or decelerate your vehicle to the desired speed and push down the SET- switch Ⓒ.
4. The ProPILOT Assist system begins to automatically maintain the set speed. The ProPILOT Assist activation indicator Ⓓ and ProPILOT Assist status indicator Ⓔ illuminate (blue). When a vehicle ahead is traveling at a speed of 20 mph (32 km/h) or below and the SET- switch is pushed, the set speed of your vehicle is 20 mph (32 km/h).

NOTE:

When the I-LI and I-BSI systems are enabled in the settings menu of the vehicle information display, turning the ProPILOT Assist system on will turn on the I-LI and I-BSI systems at the same time. If the I-LI system is disabled in the settings menu, the I-LI system will automatically be turned on when the Steering Assist system is active. For additional information, see "Intelligent Lane Intervention (I-LI)" (P. 261) and "Intelligent Blind Spot Intervention (I-BSI)" (P. 277).



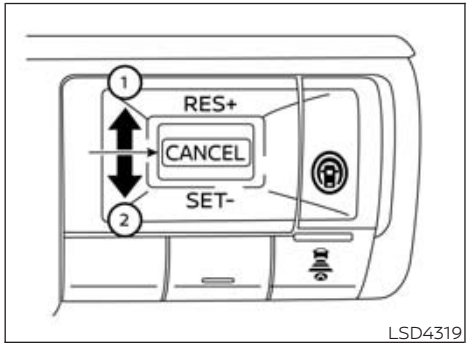
LSD4214

When the SET- switch is pushed under the following conditions, the ProPILOT Assist system cannot be set and the set vehicle speed indicator ① blinks for approximately 2 seconds:

- When traveling below 20 mph (32 km/h) and the vehicle ahead is not detected

- When the shift lever is not in the D (Drive) position or manual shift mode
- When the parking brake is applied
- When the brakes are operated by the driver
- When the VDC system is off. For additional information, see "Vehicle Dynamic Control (VDC) system" (P. 385).
- When the VDC system (including the traction control system) is operating
- When a wheel is slipping
- When any door is open
- When the driver's seat belt is not fastened
- When the SNOW mode (AWD models) is selected

How to change the set vehicle speed



The set vehicle speed can be adjusted.

To change to a faster cruising speed:

- Push up and hold the RES+ switch ①. The set vehicle speed increases by approximately 5 mph (5 km/h).
- Push up, then quickly release, the RES+ switch ①. Each time you do this, the set speed increases by approximately 1 mph (1 km/h).

To change to a slower cruising speed:

- Push down and hold the SET- switch ②. The set vehicle speed decreases by approximately 5 mph (5 km/h).
- Push down, then quickly release, the SET- switch ②. Each time you do this, the set speed decreases by approximately 1 mph (1 km/h).

How to momentarily accelerate or decelerate

- Depress the accelerator pedal when acceleration is required. Release the accelerator pedal to resume the previously set vehicle speed.
- Depress the brake pedal when deceleration is required. Control by the ProPILOT Assist system is canceled. Push the RES+ switch to resume the previously set vehicle speed.

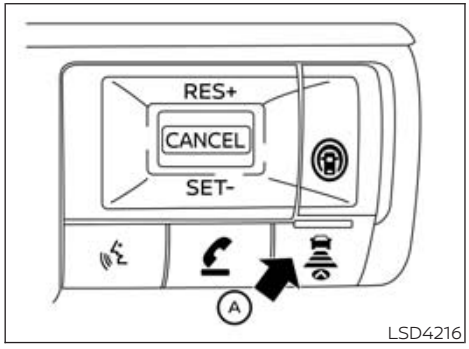
⚠WARNING

When the accelerator pedal is depressed and you are approaching the vehicle ahead, the ICC system will neither control the brake nor warn the driver with the chime and display. The driver must manually control the vehicle speed to maintain a safe distance to the vehicle ahead. Failure to do so could result in severe personal injury or death.

NOTE:

When you accelerate by depressing the accelerator pedal or decelerate by pushing the SET- switch and the vehicle travels faster than the speed set by the driver, the set speed vehicle indicator will blink.

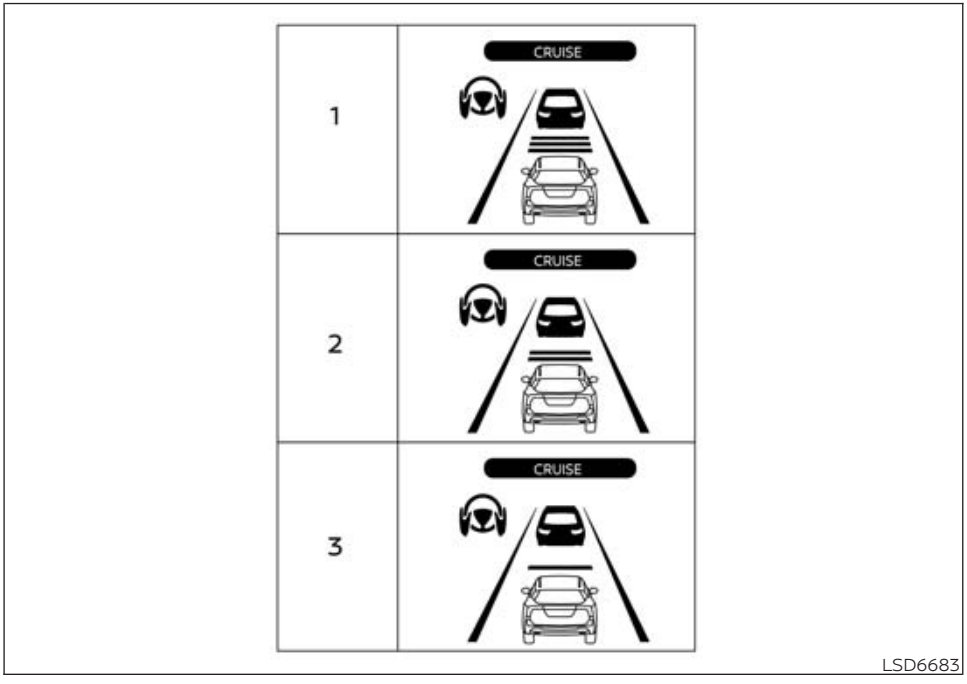
How to change the set distance to the vehicle ahead



LSD4216

The distance to the vehicle ahead can be selected at the time of the ICC standby or the ICC is active.

Each time the DISTANCE switch Ⓐ is pushed, the set distance will change to long, middle, short and back to long again in that sequence.



LSD6683

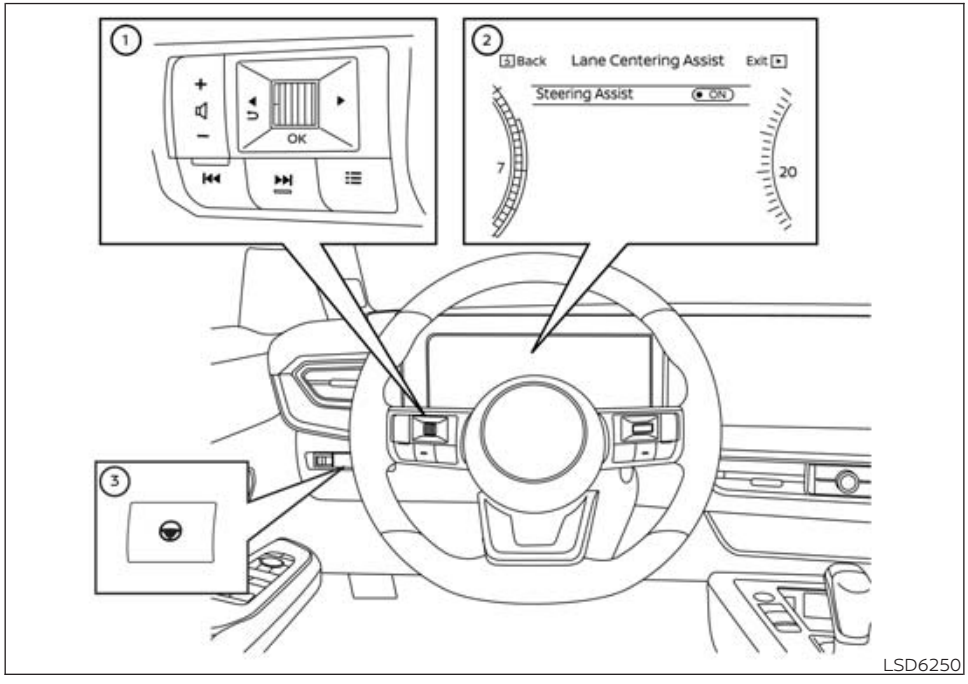
Approximate distance at 60 mph (100 km/h) [ft (m)]

Distance: Long
- 200 (60)

Distance: Middle
- 150 (45)

Distance: Short
- 90 (30)

- The distance to the vehicle ahead changes automatically according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- The distance setting will remain at the current setting even if the engine is restarted.



HOW TO ENABLE/DISABLE THE STEERING ASSIST

Basic Information

① Steering-wheel-mounted control (left)

② Vehicle information display

③ Steering Assist switch

Use the following methods to enable or disable the Steering Assist.

Steering Assist switch:

To turn the Steering Assist on or off, push the Steering Assist switch ③ on the instrument panel.

NOTE:

- **When the Steering Assist switch is used to turn the system on or off, the system remembers the setting even if the ignition switch is cycled. The switch must be pushed again to change the setting to on or off.**
- **The Steering Assist switch changes the status of the "Steering Assist" selection made in the "Settings" screen in the vehicle information display.**

Setting in the vehicle information display:

1. Press the ◀▶ button on the steering wheel ① until "Settings" displays in the vehicle information display ②.
2. Use the scroll dial ① to select "Driver Assistance." Then press the OK button ①.
3. Use the scroll dial ① to select "Lane Centering Assist" and then press the OK button ①.
4. Use the scroll dial ① to select "Steering Assist" and then press the OK button ① to turn the system on or off.

NOTE:

- **When the Cruise screen is displayed on the vehicle information display, press the OK button on the steering wheel to call up the "Driving Aids" setting display.**

- **When enabling/disabling the system through the vehicle information display or when pushing the Steering Assist switch, the system retains the current settings even if the engine is restarted.**

How to cancel the ProPILOT Assist system

To cancel the ProPILOT Assist system, use one of the following methods:

- Push the CANCEL switch.
- Tap the brake pedal (except at a standstill).
- Push the ProPILOT Assist switch to turn the system off. The ProPILOT Assist status indicator will go out.

When the ProPILOT Assist system is canceled while the vehicle is stopped, the electronic parking brake is automatically activated.

⚠ WARNING

To prevent the vehicle from moving or rolling unexpectedly, which could result in serious personal injury or property damage, before exiting the vehicle make sure to push the ProPILOT Assist switch to turn the system off, press the park button to shift to the P (Park) position, and turn the engine off.

INTELLIGENT CRUISE CONTROL (ICC) (for vehicles with ProPILOT Assist)

Basic Information

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the ICC system could result in serious injury or death.

- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is recommended for highway use only and it is not intended for city driving. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **There are limitations to the ICC system capability. The ICC system does not function in all driving, traffic, weather, and road conditions. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **Always observe posted speed limits and do not set the speed over them.**
- **The ICC system does not react to stationary and slow moving vehicles.**
- **Always drive carefully and attentively when using the ICC system. Read and understand the Owner's Manual thoroughly before using the ICC system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ICC system except in appropriate road and traffic conditions.**

ICC system operation

Basic Information

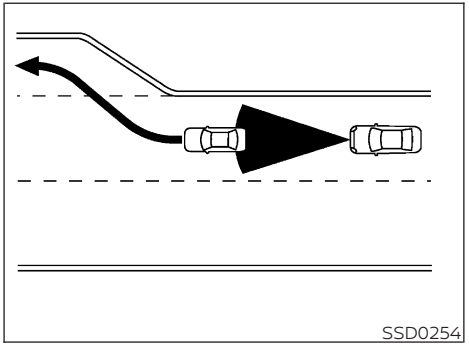
The ICC system is designed to maintain a selected distance from the vehicle in front of you and can reduce the speed to match a slower vehicle ahead. The system decelerates the vehicle as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the ICC system can only apply up to 40% of the vehicle's total braking power. This system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or when vehicle speeds change gradually. If a vehicle moves into the traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system sounds a warning chime and blinks the system display to notify the driver to take necessary action.

The ICC system cancels and a warning chime sounds if the speed is below approximately 15 mph (24 km/h) and a vehicle is not detected ahead.

The ICC system operates as follows:

- When there are no vehicles traveling ahead, the ICC system maintains the speed set by the driver. The set speed range is between approximately 20 and 90 mph (32 and 144 km/h).
- When there is a vehicle traveling ahead, the ICC system adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. Once your vehicle stops, the ICC system keeps the vehicle stopped.
- When your vehicle is stopped for less than 3 seconds and the vehicle ahead begins to move, your vehicle will start moving again automatically.
- When your vehicle is at a standstill for more than 3 seconds and the vehicle ahead begins to accelerate, push the RES+ switch or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.
- When the vehicle traveling ahead moves to a different traveling lane, the ICC system accelerates and maintains vehicle speed up to the set speed.
- When the vehicle travelling ahead moves to a different travelling lane, while the vehicle speed is below 20 mph (30 km/h), the ICC system cancels and a warning chime sounds.

The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.


SSD0254

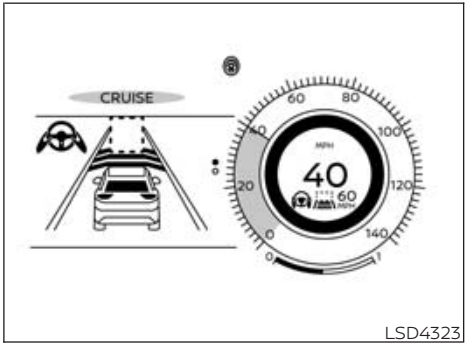
When driving on the freeway at a set speed and approaching a slower traveling vehicle ahead, the ICC system adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the freeway, the ICC system accelerates and maintains the speed up to the set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, the system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead.

Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

No vehicle detected ahead

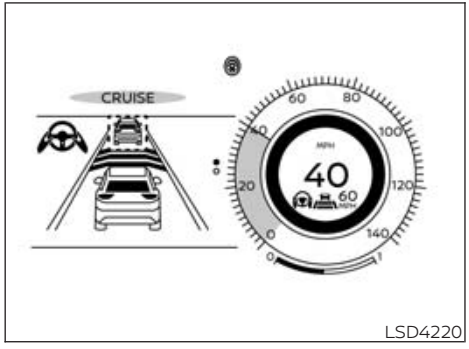


LSD4323

The driver sets the desired vehicle speed based on the road conditions. The ICC system

maintains the set vehicle speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead. The ICC system displays the set speed.

Vehicle detected ahead



LSD4220

When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The ICC system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

NOTE:

- **The stop lights of the vehicle come on when braking is performed by the ICC system.**
- **When the brake is applied by the system, a noise may be heard. This is not a malfunction.**

When the ICC system detects a vehicle ahead, the vehicle ahead detection indicator is displayed and the speed control status indicator illuminates in green.

Vehicle ahead stops

When the vehicle ahead decelerates to stop, your vehicle decelerates to a standstill. Once your vehicle stops, the ICC system automatically applies the brakes to keep the vehicle stopped. When your vehicle is at a standstill, the "(RES+) Press to start" message is displayed on the vehicle information display.

NOTE:

When your vehicle stops for less than 3 seconds, your vehicle will automatically follow the vehicle as it accelerates from a stop. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.

Vehicle ahead accelerates

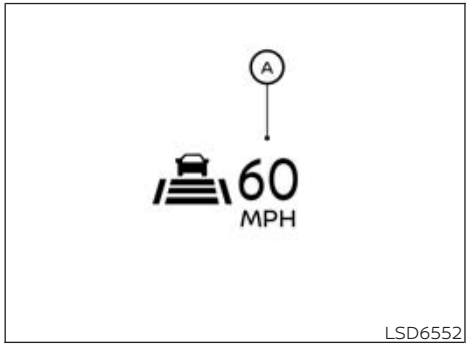
- When your vehicle is stopped for less than approximately 3 seconds and the vehicle ahead begins to move, your vehicle will start moving again automatically.
- When your vehicle is at a standstill for more than approximately 3 seconds and the vehicle ahead begins to accelerate, push up the RES+ switch or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead.
- Always check surroundings before restarting the vehicle.

Vehicle ahead not detected

When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously set vehicle speed. The ICC system then maintains the set speed.

When a vehicle is no longer detected, the vehicle ahead detection indicator and speed control status indicator (maintain speed control mode) turn off.

The ICC system gradually accelerates to the set speed, but you can depress the accelerator pedal to quickly accelerate. When a vehicle is no longer detected and your vehicle is traveling under approximately 15 mph (24 km/h), the ICC system automatically cancels.



LSD6552

When passing another vehicle, the set speed indicator Ⓐ flashes when the vehicle speed exceeds the set speed. The vehicle ahead detection indicator turns off when the area ahead of the vehicle is open. When the pedal is released, the vehicle returns to the previously set speed. Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

Cut-in detection

If a vehicle moves into your traveling lane near your vehicle, the ICC system may inform the driver by flashing the vehicle ahead detection indicator.

Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator blinks.
- You judge it necessary to maintain a safe distance.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are traveling at the same speed and the distance between vehicles is not changing.
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing.
- When a vehicle cuts in near your vehicle.

The warning chime will not sound when:

- Your vehicle approaches other vehicles that are parked or moving slowly.
- The accelerator pedal is depressed, overriding the system.

NOTE:

The approach warning chime may sound and the system display may flash when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The radar sensor may detect these objects when the vehicle is driven on winding, narrow, or hilly roads or when the vehicle is entering or exiting a curve. In these cases, you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle conditions (for example, if a vehicle is being driven with some damage).

Acceleration when passing

When the ICC system is engaged above 44 mph (70 km/h) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the left, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the left and will begin to reduce the distance to vehicle directly ahead. Only the left side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the ICC system set speed. If another vehicle is detected ahead,

then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the left lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

⚠ WARNING

In order to reduce the risk of a collision that may result in serious injury or death, please be aware of the following:

- **This function is only activated with the left turn signal and will briefly accelerate the vehicle even if a lane change is not initiated. This can include non-passing situations such as left side exits.**
- **Ensure that when passing another vehicle, the adjacent lane is clear before initiating the pass. Sudden changes in traffic may occur while passing- always manually steer or brake as needed- never solely rely on the system.**

ICC system limitations

⚠ WARNING

Listed below are the system limitations for the ICC system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death:

- **The ICC system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the ICC system in city traffic or congested areas.**
- **The ICC system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves or on icy roads, in heavy rain or in fog.**
- **As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absent-minded driving or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.**
- **When the ICC system automatically brings the car to a stop, your vehicle can automatically accelerate if the vehicle is stopped for less than approximately 3 seconds. Be prepared to stop your vehicle if necessary.**
- **Always check surroundings before restarting the vehicle.**
- **Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The ICC system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.**
- **The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the ICC system under the following conditions:**
  - **On roads with heavy, high-speed traffic or sharp curves**
  - **On slippery road surfaces such as on ice or snow, etc.**
  - **During bad weather (rain, fog, snow, etc.)**
  - **When rain, snow or dirt adhere to the bumper around the distance sensor**
  - **On steep downhill roads (the vehicle may go beyond the set vehicle speed and frequent braking may result in overheating the brakes)**

  - **On repeated uphill and downhill roads**
  - **When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration**
  - **Interference by other radar sources.**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. Always stay alert and avoid using the ICC system where not recommended in this warning section.**

The ICC system will not detect the following objects:

- Stationary or slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

The following are some conditions in which the radar sensor cannot properly detect a vehicle ahead and the system may not operate properly:

- When the sensor detection is reduced (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles)
- Driving on a steep downhill slope or roads with sharp curves
- Driving on a bumpy road surface, such as an uneven dirt road
- If dirt, ice, snow or other material is covering the radar sensor area
- A complicated-shaped vehicle such as a car carrier trailer or flatbed truck/trailer is near the vehicle ahead.
- Interference by other radar sources
- When excessively heavy baggage is loaded in the rear seat or cargo area of your vehicle.

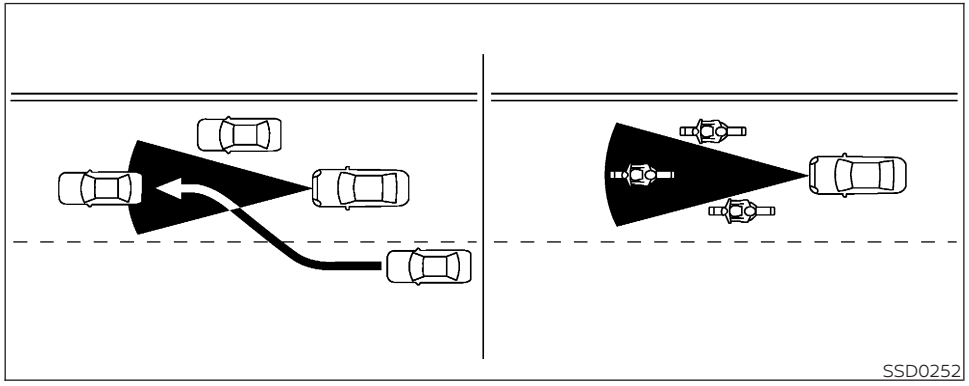
The ICC system is designed to automatically check the radar sensor's operation within the limitations of the system.

The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the ICC system to maintain the selected distance from the vehicle ahead. A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the center line of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from the vehicle traveling ahead.

The ICC system (with ProPILOT Assist) uses a multi-sensing front camera. The following are some conditions in which the camera may not properly detect a vehicle and detection of a vehicle ahead may be delayed:

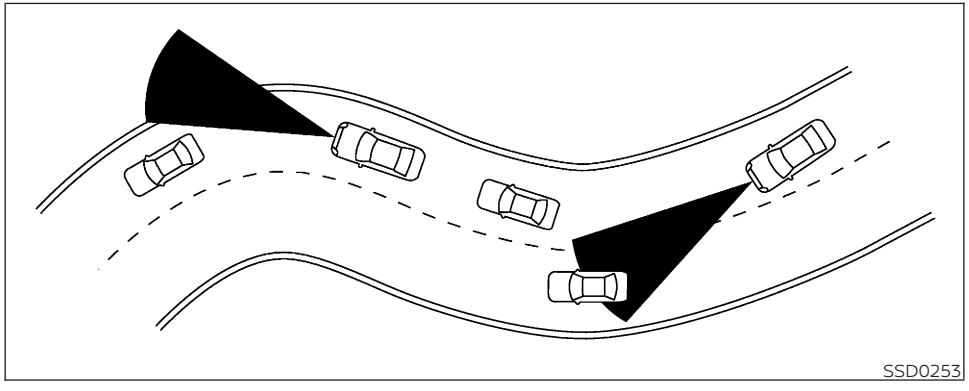
- Poor visibility (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles)
- The camera area of the windshield is fogged up or covered with dirt, water drops, ice, snow, etc.
- Strong light (for example, sunlight or high beams from oncoming vehicles) enters the front camera
- A sudden change in brightness occurs (for example, when the vehicle enters or exits a tunnel or shaded area or lightning flashes)


SSD0252

When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the radar system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.


SSD0253

System Temporarily Unavailable

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

Condition A

Under the following conditions, the ICC system is automatically canceled. A chime will sound and the system will not be able to be set:

- Any door is open.
- The driver's seat belt is not fastened.

- The vehicle ahead is not detected and your vehicle is traveling below the speed of 15 mph (24 km/h).
- Your vehicle has been stopped by the ICC system for approximately 3 minutes or longer.
- The shift lever is not in the D (Drive) position or manual shift mode.
- The electronic parking brake is applied.
- The VDC system is turned off.
- The AEB with Pedestrian Detection applies harder braking.
- VDC (including the traction control system) operates.
- The SNOW mode (AWD models) is selected.
- A wheel slips.
- When the front radar is impaired due to dirt or another obstruction blocking the radar sensor.
- When the radar signal is temporarily interrupted.

Action to take:

When the conditions listed above are no longer present, turn the system off using the ProPILOT Assist switch. Turn the ProPILOT Assist system back on to use the system.

NOTE:

When the ICC system is canceled under the following conditions at a standstill, the electronic parking brake is automatically activated:

- **Any door is open.**
- **The driver's seat belt is not fastened.**
- **Your vehicle has been stopped by the ICC system for approximately 3 minutes or longer.**
- **The shift lever is not in the D (Drive) position or manual shift mode.**
- **The VDC system is turned off.**
- **When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor.**
- **When the radar signal is temporarily interrupted.**

Condition B

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor, the ICC system will automatically be canceled, the chime will sound and the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

When the conditions listed above are no longer present, the warning message will no longer be available in the vehicle information display and the system will operate normally. If the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition C

When the radar sensor of the front bumper is covered with dirt or is obstructed, the ICC system will automatically be canceled.

The chime will sound and the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning message appears, stop the vehicle in a safe place, press the park button to engage the P (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front bumper and restart the engine. If the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition D

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls), the system may display the "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" warning message and a chime will sound.

Action to take:

When the above driving conditions no longer exist, turn the system back on.



LSD3916

ICC system malfunction

If the ICC system malfunctions, it will be turned off automatically, a chime may sound, the "Malfunction See Owner's Manual" warning message may display and the speed control status warning (orange) may illuminate.

Action to take:

If the warning light comes on, stop the vehicle in a safe place. Turn the engine off, restart the engine and set the ICC system again. If it is not possible to set the ICC system or the indicator stays on, it may be a malfunction. Although the normal driving can be continued, the ICC system should be inspected. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the ICC system is temporarily unavailable, the conventional cruise control mode may still be used. For additional information, see "Conventional (fixed speed) cruise control mode" (P. 336).

ICC sensor maintenance

The radar sensor is located on the front of the vehicle.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area of the front radar cover/emblem clean.
- Do not strike or damage the areas around the sensor.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove, or paint the front bumper.

Before customizing or restoring the front bumper, it is recommended that you visit a NISSAN dealer.

The camera sensor is located above the inside mirror.

To keep the proper operation of the systems and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit.

If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

STEERING ASSIST

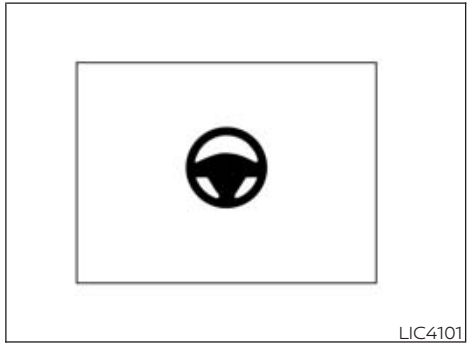
Basic Information

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the Steering Assist could result in serious injury or death.

- **The Steering Assist is not a replacement for proper driving procedures and is not designed to correct careless, inattentive or absent-minded driving. The Steering Assist will not always steer the vehicle to keep it in the lane. It is not designed to prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **As there is a performance limit to the Steering Assist's capability, never rely solely on the system. The Steering Assist does not function in all driving, traffic, weather, and road conditions. Always drive safely, pay attention to the operation of the vehicle, and manually control your vehicle appropriately.**
- **The Steering Assist is intended for use on well-developed freeways or highways with gentle (moderate) curves. To avoid risk of an accident, do not use this system on local or non-highway roads.**
- **The Steering Assist only steers the vehicle to maintain its position in the center of a lane. The vehicle will not steer to avoid objects in the road in front of the vehicle or to avoid a vehicle moving into your lane.**
- **It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times. Never take your hands off the steering wheel when driving. Always keep your hands on the steering wheel and drive your vehicle safely.**
- **Always drive carefully and attentively when using the Steering Assist. Read and understand the Owner's Manual thoroughly before using the Steering Assist. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the Steering Assist except in appropriate road and traffic conditions.**

Steering Assist switch



LIC4101

The Steering Assist switch is used to temporarily turn on and off the Steering Assist system.

You can also use the "Driver Assistance" menu in the vehicle information display to turn on and off the Steering Assist system. For additional information, see "How to enable/disable the Steering Assist" (P. 321).

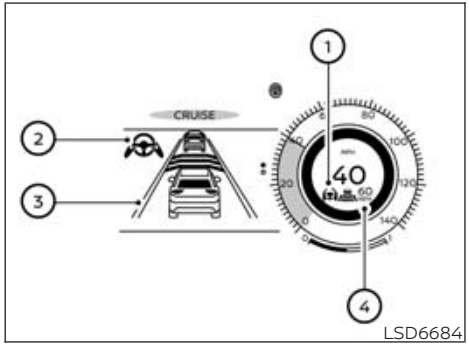
Steering Assist operation

The Steering Assist controls the steering system to help keep your vehicle near the center of the lane when driving. The Steering Assist is combined with the Intelligent Cruise Control (ICC) system. For additional information, see "Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist)" (P. 322).

The Steering Assist can be activated when the following conditions are met:

- The ICC system is activated.
- Lane markers on both sides are clearly detected.
- A vehicle ahead is detected (when the vehicle is driven at speeds under 37 mph [60 km/h]).
- The driver grips the steering wheel.
- The vehicle is driven at the center of the lane.
- The turn signals are not operated.
- The windshield wiper is not operated in the high (HI) speed operation (the Steering Assist function is disabled after the wiper operates for approximately 10 seconds).

Steering Assist display and indicators



① Steering Assist status indicator/ warning

Displays the status of the Steering Assist by the color of the indicator/warning

- Steering Assist indicator (gray): Steering Assist standby
- Steering Assist indicator (green): Steering Assist active
- Steering Assist indicator (orange): Steering Assist malfunction
- Steering Assist status indicator (red): Hands off detected

The Steering Assist status indicator illuminates or blinks when Hands Off operation is made.

② Steering Assist indicator

Indicates the status of the Steering Assist by the color of the indicator

- Steering Assist indicator (gray): Steering Assist standby
- Steering Assist indicator (green): Steering Assist active

③ Lane marker indicator

Indicates whether the system detects the lane marker

- Lane marker indicator (gray): Lane markers not detected
- Lane marker indicator (green): Lane markers detected
- Lane marker indicator (orange): Lane departure is detected

④ Lane marker indicator/speed control status indicator/set distance indicator

Displays the status of the Steering Assist by the color of the lane marker Indicator

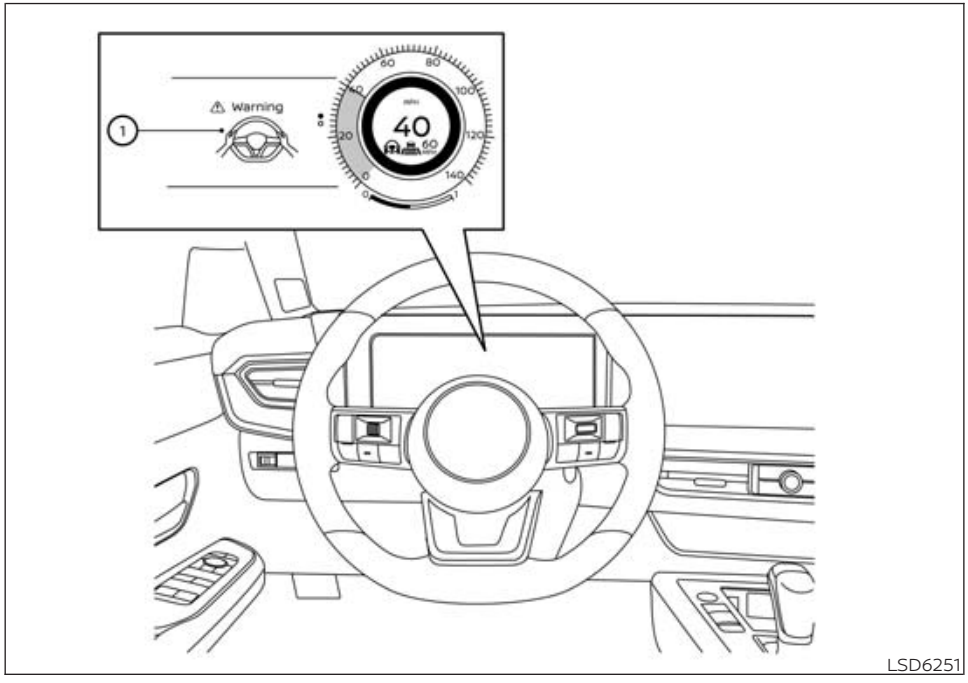
- Lane marker Indicator (no lane): Steering Assist is turned off
- Lane marker Indicator (gray): Steering Assist standby
- Lane marker Indicator (green): Steering Assist active

When the Steering Assist is in operation, the Steering Assist status indicator ①, the Steering Assist indicator ②, and the lane marker indicator ③ on the vehicle information display turn green.

When the Steering Assist deactivates, the Steering Assist status indicator ①, the Steering Assist indicator ②, and the lane marker indicator ③ on the vehicle information display turn gray and a chime sounds.

Intelligent Lane Intervention (I-LI)

When a curve or strong cross wind exceeds the capabilities of the Steering Assist and your vehicle approaches either the left or the right side of the traveling lane, a warning chime sounds, the I-LI indicator (orange) on the instrument panel flashes and a steering wheel vibration is provided to alert the driver. Then, the I-LI system automatically applies the steering for a short period of time to help assist the driver to return the vehicle to the center of the traveling lane. This action is in addition to any Steering Assist actions.



Hands on detection

When the Steering Assist is activated, it monitors the driver's steering wheel operation.

If the steering wheel is not operated or the driver takes his/her hands off the steering wheel for a period of time, the warning ① appears in the vehicle information display and the hands OFF warning light illuminates.

If the driver does not operate the steering wheel after the warning has been displayed, an audible alert sounds and both the warning and the warning light flash, followed by a quick brake application to request the driver to take control of the vehicle again.

If the driver still does not respond, the ProPILOT Assist turns on the hazard flasher and slows the vehicle to a complete stop.

The driver can cancel the deceleration at any time by steering, braking, accelerating, or operating the ProPILOT Assist switch.

After the emergency stop function is activated, the Steering Assist function will be disabled with the "Steering Assist OFF" message displayed until the ignition switch has been switched off and on again.

⚠ WARNING

Steering Assist is not a system for hands-free driving. Always keep your hands on the steering wheel and drive your vehicle safely. Failure to do so could cause a collision resulting in serious personal injury or death.

NOTE:

If the driver lightly touches (instead of firmly grips) the steering wheel, the steering torque sensor may not detect the driver's hand(s) on the wheel and a sequence of warnings may occur. When the driver holds and operates the steering wheel again, the warnings turn off.

Steering Assist limitations

⚠ WARNING

- **In the following situations, the camera may not detect lane markers correctly or may detect lane markers incorrectly and the Steering Assist may not operate properly:**
  - **When driving on roads where there are multiple parallel lane markers, lane markers that are faded or not painted clearly, nonstandard lane markers, or lane markers covered with water, dirt, snow, etc.**
  - **When driving on roads with discontinued lane markers**
  - **When driving on roads with a widening or narrowing lane width**
  - **When driving on roads where there are multiple lanes or unclear lane markers due to road construction**
  - **When driving on roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams, or lines remaining after road repairs (the Steering Assist could detect these items as lane markers)**
  - **When driving on roads where the traveling lane merges or separates**
- **Do not use the Steering Assist under the following conditions because the system may not properly detect lane markers. Doing so could cause a loss of vehicle control and result in an accident.**
  - **During bad weather (rain, fog, snow, dust, etc.)**
  - **When rain, snow, sand, etc., is thrown up by the wheels of other vehicles**
  - **When dirt, oil, ice, snow, water, or another object adheres to the camera unit**
  - **When the lens of the camera unit is foggy**
  - **When strong light (for example, sunlight or high beams from oncoming vehicles) shines on the camera**
  - **When the headlights are not bright due to dirt on the lens or the headlights are off in tunnels or darkness**
  - **When a sudden change in brightness occurs (for example, when the vehicle enters or exits a tunnel or is under a bridge)**
  - **When driving on roads where the traveling lane merges or separates or where there are temporary lane markers because of road construction**
  - **When there is a lane closure due to road repairs**
  - **When driving on a bumpy road surface, such as an uneven dirt road**
  - **When driving on sharp curves or winding roads**
  - **When driving on repeated uphill and downhill roads**
- **Do not use the Steering Assist under the following conditions because the system will not operate properly:**
  - **When driving with a tire that is not within normal tire conditions (for example, tire wear, abnormal tire pressure, installation of a spare tire, tire chains, nonstandard wheels)**
  - **When the vehicle is equipped with non-original brake or suspension parts**
  - **When an object such as a sticker or cargo obstructs the camera**
  - **When excessively heavy baggage is loaded in the rear seat or luggage area of your vehicle**
  - **When the vehicle load capacity is exceeded**
- **Excessive noise will interfere with the warning chime sound, and the beep may not be heard.**
- **For the ProPILOT Assist system to operate properly, the windshield in front of the camera must be clean. Replace worn wiper blades. The correct size wiper blades must be used to help make sure the windshield is kept clean. Only use Genuine NISSAN wiper blades, or equivalent wiper blades, that are specifically designed for use on your vehicle model and model year. It is recommended that you visit a NISSAN**

dealer for the correct parts for your vehicle.

Steering Assist temporary standby

Automatic standby due to driving operation:

When the driver activates the turn signal, the Steering Assist is temporarily placed in a standby mode. (The Steering Assist restarts automatically when the operating conditions are met again.)

Automatic standby:

In the following cases, a chime sounds and the Steering Assist is placed in a temporary standby mode. (The Steering Assist restarts automatically when the operating conditions are met again.)

- When lane markers on both sides are no longer detected
- When a vehicle ahead is no longer detected under approximately 37 mph (60 km/h)
- When strong light enters the camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
- When the temperature of the camera is too high.

Steering Assist cancel

Under the following conditions, the Steering Assist cancels, a warning message is displayed and the Steering Assist status indicator and the Steering Assist indicator turn off and a chime sounds:

- When unusual lane markers appear in the traveling lane or when the lane marker cannot be correctly detected for some time due to certain conditions (for example, a snow rut, the reflection of light on a rainy day, the presence of several unclear lane markers)
- When the windshield wiper operates in the high (HI) speed operation (the Steering Assist is disabled when the wiper operates for more than approximately 10 seconds)

Action to take:

Turn the ICC system off using the CANCEL switch. When the conditions listed above are no longer present, turn the ICC system on again.

Steering Assist malfunction

When the system malfunctions, the warning message is displayed and it turns off automatically. The Steering Assist status warning illuminates (orange). A chime may sound depending on the situation.

Action to take:

Stop the vehicle in a safe location, place the vehicle in the P (Park) position, turn the engine off, restart the engine, resume driving, and set the Intelligent Cruise Control system again. If the warning (orange) continues to illuminate, the Steering Assist is malfunctioning. Although the vehicle is still drivable under normal conditions, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Steering Assist maintenance

Basic Information

The camera sensor is located above the inside mirror.

To keep the proper operation of the system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit.

If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

Radio frequency statement

For USA

FCC ID: NF3-F5CP32

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Robert Bosch GmbH may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radiofrequency radiation exposure information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For Canada

IC: 3887A-F5CP32

Legal warning for RF equipment:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

Basic Information

NOTE:

ProPILOT Assist provides no approach warnings, automatic braking, or steering assist in the conventional (fixed speed) cruise control mode.

This mode allows driving at a speed between 20 to 90 mph (32 to 144 km/h) without keeping your foot on the accelerator pedal.

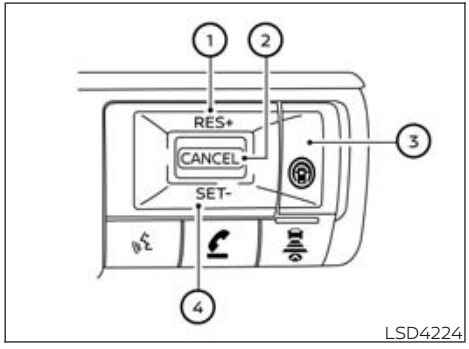
⚠WARNING

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:**
  - **When it is not possible to keep the vehicle at a set speed**

- **In heavy traffic or in traffic that varies in speed**
- **On winding or hilly roads**
- **On slippery roads (rain, snow, ice, etc.)**
- **In very windy areas**

· **Doing so could cause a loss of vehicle control and result in an accident.**

Conventional (fixed speed) cruise control switches



LSD4224

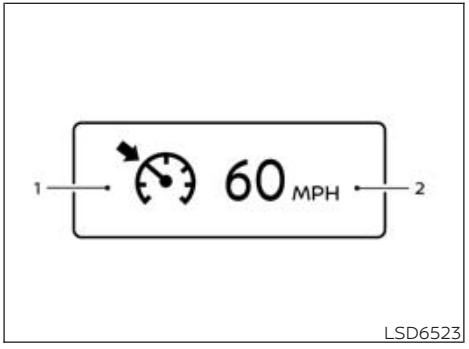
① RES+ switch:
Resumes set speed or increases speed incrementally

② CANCEL switch:
Deactivates the system without erasing the set speed

③ ProPILOT Assist switch:
Turns the ProPILOT Assist system on or off

④ SET- switch:
Sets desired cruise speed or reduces speed incrementally

Conventional (fixed speed) cruise control mode display and indicators



LSD6523

The display is located in the vehicle information display.

1. Cruise indicator:
   This indicator indicates the condition of the Cruise Control system depending on a color.

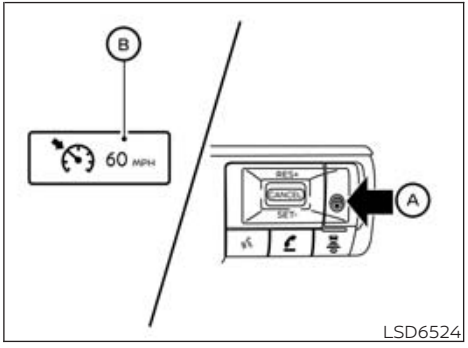
· Cruise control ON indicator (gray): Indicates that the ProPILOT Assist switch is on

· Cruise control SET indicator (green): Indicates that the cruising speed is set

· Cruise control warning (yellow): Indicates that there is a malfunction in the Cruise Control system

2. Set vehicle speed indicator:
   This indicator indicates the set vehicle speed. For Canadian models, the speed is displayed in km/h.

Operating conventional (fixed speed) cruise control mode



LSD6524

To turn on the conventional (fixed speed) cruise control mode, push and hold the ProPILOT Assist switch Ⓐ for longer than about 1.5 seconds.

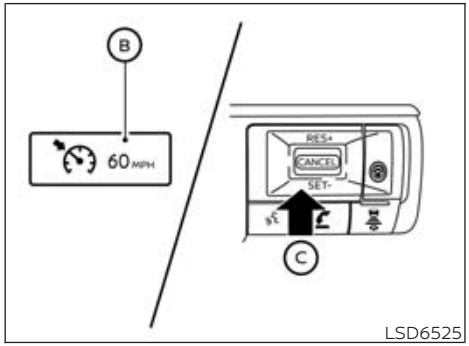
When pushing the ProPILOT Assist switch on, the ICC system display turns on. After you hold the ProPILOT Assist switch on for longer than about 1.5 seconds, the ICC system display turns off. The cruise indicator Ⓑ appears.

You can now set your desired cruising speed. Pushing the ProPILOT Assist switch again will turn the system completely off. When the ignition switch is placed in the OFF position, the system is also automatically turned off.

To use the ICC system again, quickly push and release the ProPILOT Assist switch (vehicle-to vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

⚠CAUTION

To avoid accidentally engaging cruise control, make sure to turn the ProPILOT Assist switch off when not using the ICC system.



LSD6525

To set cruising speed, accelerate your vehicle to the desired speed, push the SET- Ⓒ switch and release it. (The color of the cruise indicator changes to green and set vehicle speed indicator comes on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- To pass another vehicle, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset speed, use any of the following methods:

1. Push the CANCEL switch. The vehicle speed indicator and the cruise indicator will turn grey.
2. Tap the brake pedal. The vehicle set speed indicator and the cruise indicator will turn grey.
3. Turn the ProPILOT Assist switch off. Both the cruise indicator and vehicle speed indicator will turn off.

To reset at a faster cruising speed, use one of the following three methods:

1. Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET- switch.
2. Push and hold the RES+ switch. When the vehicle attains the desired speed, release the switch.
3. Push, then quickly release the RES+ switch. Each time you do this, the set speed will increase by about 1 mph (1 km/h).

To reset at a slower cruising speed, use one of the following three methods:

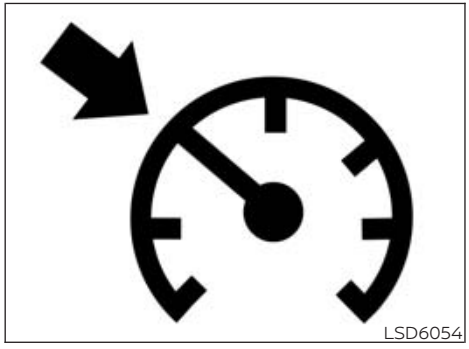
1. Lightly tap the brake pedal. When the vehicle attains the desired speed, push the SET- switch and release it.
2. Push and hold the SET- switch. Release the switch when the vehicle slows down to the desired speed.
3. Push, then quickly release the SET- switch. Each time you do this, the set speed will decrease by about 1 mph (1 km/h).

System Temporarily Unavailable

A chime sounds under the following conditions and the conventional (fixed speed) cruise control mode is automatically canceled.

- When the shift lever is not in the D (Drive) position
- When the parking brake is applied
- When the VDC system (including the traction control system) operates
- When the VDC system is turned off
- When a wheel slips
- When the vehicle speed decreases to less than 20 mph (30 km/h)

Warning


LSD6054

When the system is not operating properly, the chime sounds and the color of the cruise indicator will change in yellow.

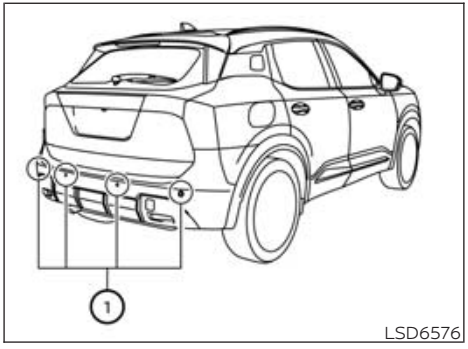
Action to take:

If the color of the cruise indicator changes to yellow (cruise control warning), park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and then perform the setting again.

If it is not possible to set or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still drivable under normal conditions, have the vehicle checked. It is recommended you visit a NISSAN dealer for this service.

REAR AUTOMATIC BRAKING (RAB) (if so equipped)

BASIC INFORMATION



LSD6576

⚠WARNING

Failure to follow the warnings and instructions for proper use of the RAB system could result in serious injury or death.

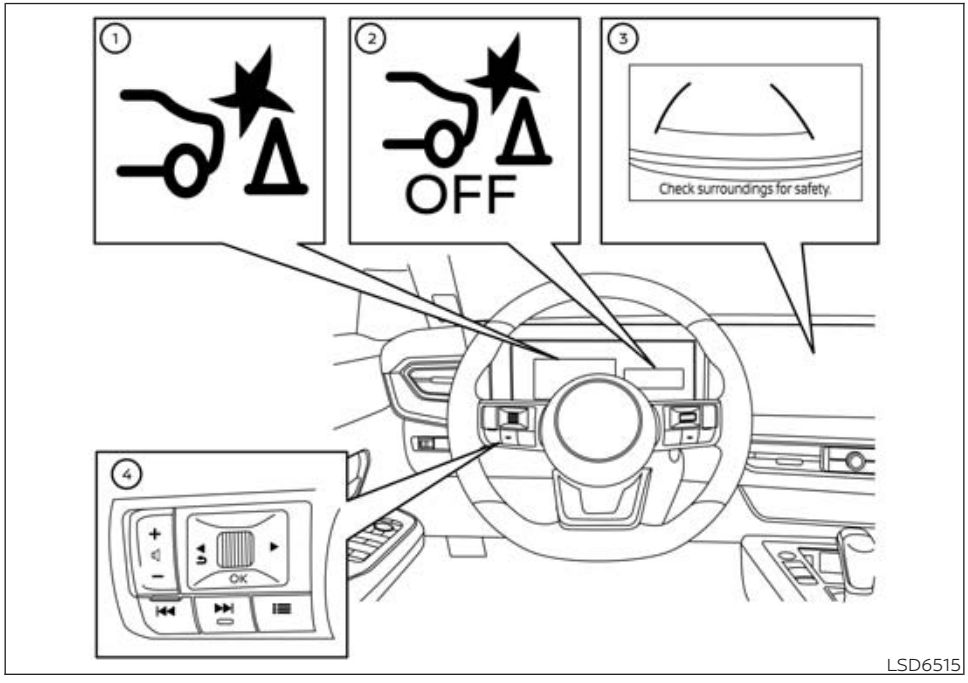
- **The RAB system is a supplemental aid to the driver. It is not a replacement for proper driving procedures. Always use the side and rear mirrors and turn and look in the direction you will move before and while backing up. Never rely solely on the RAB system. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **There is a limitation to the RAB system capability. The RAB system is not effective in all situations.**
- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed air brakes or a pneumatic drill may affect the function of the system; this may include reduced performance or a false activation.**

The RAB system can assist the driver when the vehicle is backing up and approaching objects directly behind the vehicle.

The RAB system detects obstacles behind the vehicle using the parking sensors ① located on the rear bumper.

NOTE:

You can temporarily cancel the sonar function and the RAB system in the vehicle. For additional information, see "Front and Rear Sonar System" (P. 390).



For vehicles with the 7 inch (18 cm) display

RAB SYSTEM OPERATION

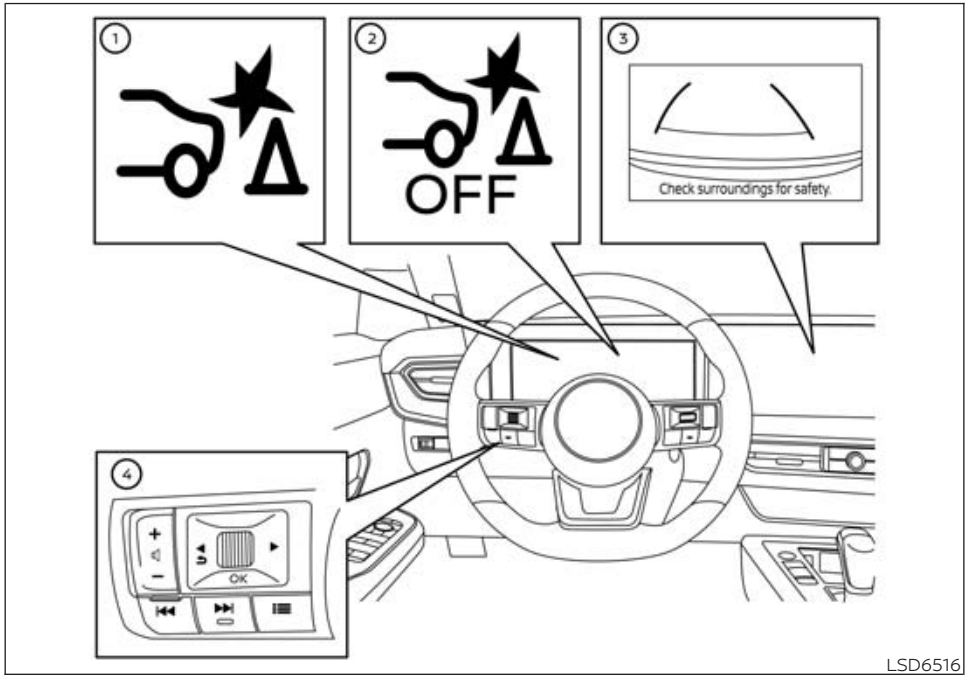
① RAB system warning indicator
② RAB system warning light
③ Center display
④ Steering-wheel-mounted controls (left side)

When the shift lever is in the R (Reverse) position and the vehicle speed is less than approximately 9 mph (15 km/h), the RAB system operates.

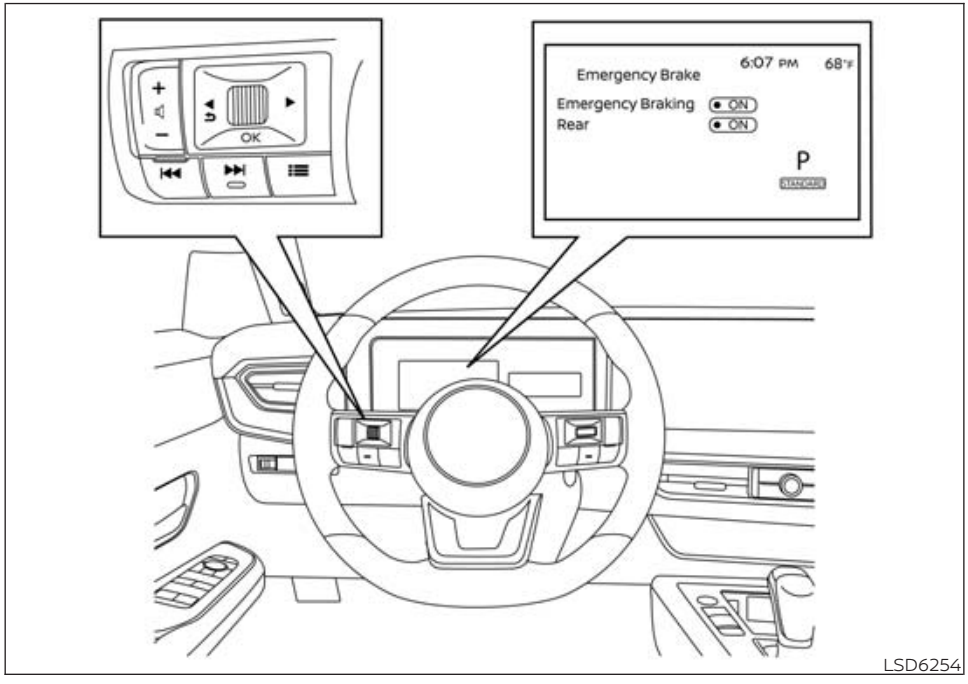
If a risk of a collision with an obstacle is detected when your vehicle is backing up, the RAB system warning indicator will flash in the vehicle information display and the system will chime three times. The system will then automatically apply the brakes. After the automatic brake application, the driver must depress the brake pedal to maintain brake pressure.

NOTE:

- **The brake lights of the vehicle come on when braking is performed by the RAB system.**
- **When the brakes operate, a noise may be heard. This is not a malfunction.**

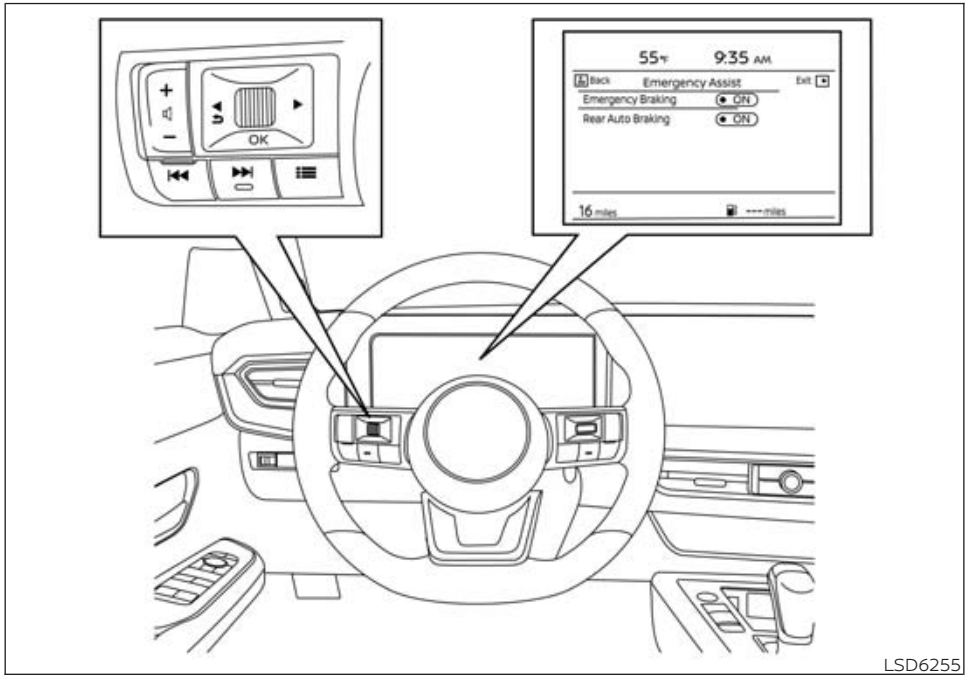


For vehicles with the 12.3 inch (31.2 cm) display



For vehicles with the 7 inch (18 cm) display

TURNING THE RAB SYSTEM ON/OFF

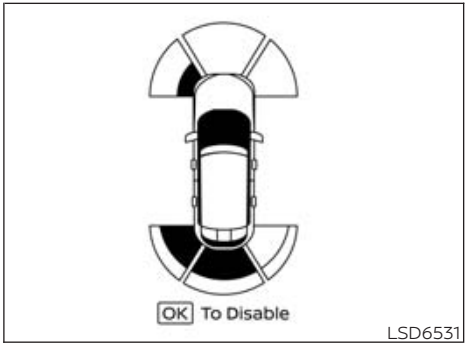


For vehicles with the 12.3 inch (31.2 cm) display

Perform the following steps to turn the RAB system on or off.

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Emergency Brake" or "Emergency Assist" and press the OK button.
3. Select "Rear" or "Rear Auto Braking" and press the OK button to turn the system on or off.

When the RAB system is turned off, the RAB system OFF warning light illuminates when the shift lever is in the R (Reverse) position.



NOTE:

- **The RAB system will be automatically turned on when the engine is restarted.**
- **When the shift lever is in the R (Reverse) position and the Parking Assist screen is displayed in the vehicle information display, the RAB system can be disabled temporarily by pushing the scroll dial on the steering wheel.**

RAB SYSTEM LIMITATIONS

⚠ WARNING

Listed below are the system limitations for the RAB system. Failure to follow the warnings and instructions for proper use of the RAB system could result in serious injury or death.

- **When the vehicle approaches an obstacle while the accelerator or brake pedal is depressed, the function may not operate or the start of operation may be delayed. The RAB system may not operate or may not perform sufficiently due to vehicle conditions, driving conditions, the traffic environment, the weather, road surface conditions, etc. Do not wait for the system to operate. Operate the brake pedal by yourself as soon as necessary.**
- **If it is necessary to override RAB operation, strongly press the accelerator pedal.**
- **Always check your surroundings and turn to check what is behind you before and while backing up. The RAB system detects stationary objects behind the vehicle. The RAB system does not detect the following objects:**
  - **Moving objects**
  - **Low objects**
  - **Narrow objects**
  - **Wedge-shaped objects**
  - **Objects close to the bumper (less than approximately 1 ft [30 cm])**
  - **Objects that suddenly appear**
  - **Thin objects such as rope, wire, chain, etc.**
- **The RAB system may not operate for the following obstacles:**
  - **Obstacles located high off the ground**
  - **Obstacles in a position offset from your vehicle**
  - **Obstacles, such as spongy materials or snow, that have soft outer surfaces and can easily absorb a sound wave**
- **The RAB system may not operate in the following conditions:**
  - **There is rain, snow, ice, dirt, etc., attached to the sonar sensors.**
  - **A loud sound is heard in the area around the vehicle.**
  - **The surface of the obstacle is diagonal to the rear of the vehicle.**
- **The RAB system may unintentionally operate in the following conditions:**
  - **There is overgrown grass in the area around the vehicle.**
  - **There is a structure (e.g., a wall, toll gate equipment, a narrow tunnel, a parking lot gate) near the side of the vehicle.**
  - **There are bumps, protrusions, or manhole covers on the road surface.**
  - **The vehicle drives through a draped flag or a curtain.**
  - **The vehicle is approaching a high curb or car stop.**
  - **There is an accumulation of snow or ice behind the vehicle.**
  - **An ultrasonic wave source, such as another vehicle's sonar, is near the vehicle.**
- **Once the automatic brake control operates, it does not operate again if the vehicle approaches the same obstacle.**
- **The automatic brake control can only operate for a short period of time. Therefore, the driver must depress the brake pedal.**
- **In the following situations, the RAB system may not operate properly or may not function sufficiently:**
  - **The vehicle is driven in bad weather (rain, fog, snow, etc.).**
  - **The vehicle is driven on a steep hill.**
  - **The vehicle's posture is changed (e.g., when driving over a bump).**
  - **The vehicle is driven on a slippery road.**
  - **The vehicle is turned sharply by turning the steering wheel fully.**
  - **Snow chains are used.**

- **Wheels or tires other than NISSAN recommended are used.**
- **The brakes are cold at low ambient temperatures or immediately after driving has started.**
- **The braking force becomes poor due to wet brakes after driving through a puddle or washing the vehicle.**

· **Turn the RAB system off in the following conditions to prevent the occurrence of an unexpected accident resulting from sudden system operation:**
- **The vehicle is towed.**
- **The vehicle is carried on a flatbed truck.**
- **The vehicle is on the chassis dynamometer.**
- **The vehicle drives on an uneven road surface.**
- **Suspension parts other than those designated as Genuine NISSAN parts are used. (If the vehicle height or the vehicle body inclination is changed, the system may not detect an obstacle correctly.)**
- **If the vehicle is using an accessory like a bike rack, or cargo carrier that blocks the sensors.**

· **Excessive noise (e.g., audio system volume, an open vehicle window) will interfere with the chime sound, and it may not be heard.**

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

When the Vehicle Dynamic Control (VDC) system is OFF, the RAB system OFF warning light will illuminate.

Action to take:

When the VDC system is ON, the RAB system will resume automatically.

SYSTEM MALFUNCTION

If the RAB system malfunctions, it will be turned off automatically, a chime may sound, the RAB system warning light may illuminate and the "Malfunction See Owner's Manual" warning message may appear.

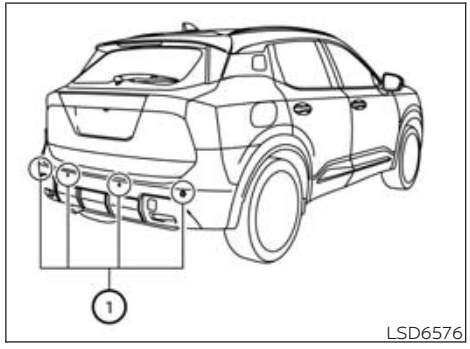
Action to take:

If the warning light illuminates, park the vehicle in a safe location, turn the engine off, and restart the engine. If the warning light continues to illuminate, have the RAB system checked. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the RAB system cannot be operated temporarily, the RAB system warning light blinks.

SYSTEM MAINTENANCE



Observe the following items to ensure proper operation of the system:

· Always keep the parking sensors ① clean.

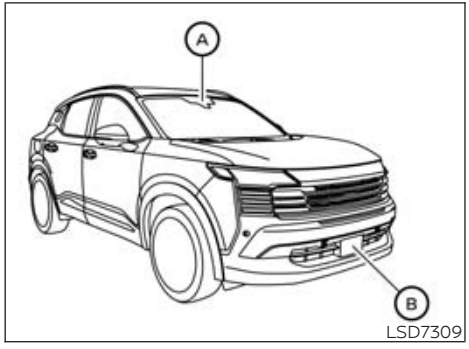
· If the parking sensors are dirty, wipe them off with a soft cloth while being careful to not damage them.

· Do not subject the area around the parking sensors ① to strong impact. Also, do not remove or disassemble the parking sensors. If the parking sensors and peripheral areas are deformed in an accident, etc., have the sensors checked. It is recommended that you visit a NISSAN dealer for this service.

· Do not install any stickers (including transparent stickers) or accessories on the parking sensors ① and their surrounding areas. This may cause a malfunction or improper operation.

AUTOMATIC EMERGENCY BRAKING (AEB) WITH PEDESTRIAN DETECTION

BASIC INFORMATION



LSD7309

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the AEB with Pedestrian Detection system could result in serious injury or death.

- **The AEB with Pedestrian Detection system is a supplemental aid to the driver. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness or dangerous driving techniques.**
- **The AEB with Pedestrian Detection system does not function in all driving, traffic, weather and road conditions.**

The AEB with Pedestrian Detection system can assist the driver when there is a risk of a forward collision with:

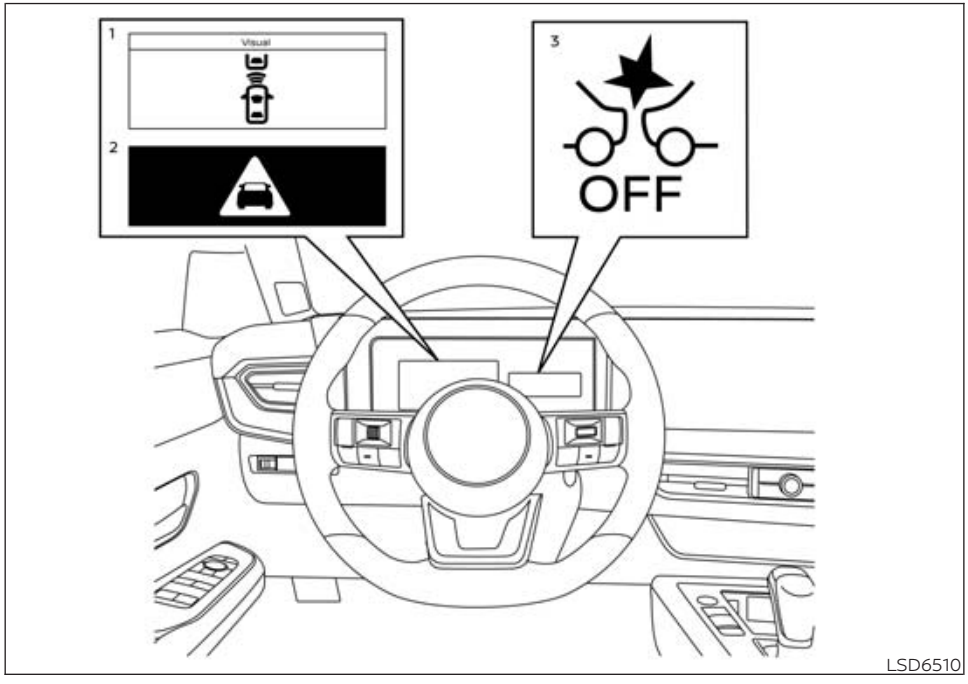
- a vehicle ahead in the travelling lane
- a pedestrian ahead in the travelling lane
- a cyclist ahead in the travelling lane

Intersection assist (if so equipped) can assist the driver when there is a risk of a forward collision:

- When you turn right or left and cross the path of an approaching vehicle.
- When you turn right or left, a pedestrian is detected in the forward direction and is expected to enter your vehicle's path.

The AEB with Pedestrian Detection system uses a radar sensor located on the front of the vehicle Ⓑ to measure the distance to the vehicle ahead in the same lane.

For pedestrians and cyclists, the AEB with Pedestrian Detection system uses a camera installed behind the windshield Ⓐ in addition to the radar sensor.



For vehicles with the 7 inch (18 cm) display

AEB WITH PEDESTRIAN DETECTION SYSTEM OPERATION

1. Vehicle ahead detection indicator
2. AEB with Pedestrian Detection emergency warning indicator
3. AEB with Pedestrian Detection system warning light or AEB with Pedestrian Detection system warning indicator

The AEB with Pedestrian Detection system will function when your vehicle is driven at speeds above approximately 3 mph (5 km/h).

For the pedestrian and cyclists detection function, the AEB with Pedestrian Detection system operates at speeds between 6 – 50 mph (10 – 80 km/h).

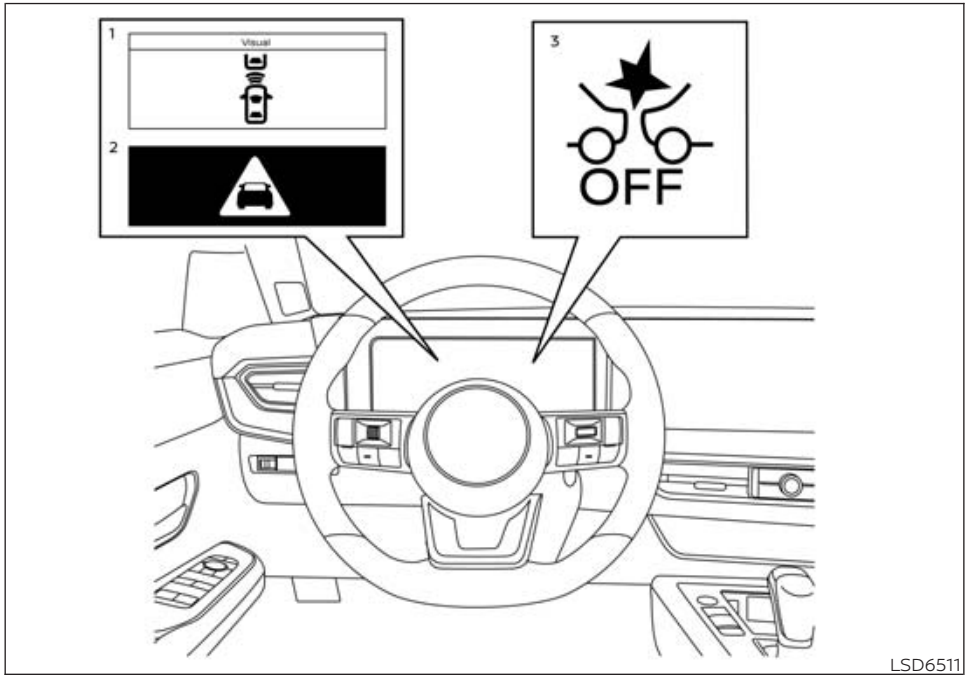
If a risk of a forward collision is detected, the AEB with Pedestrian Detection system will firstly provide the warning to the driver by flashing the vehicle ahead detection indicator (yellow) in the vehicle information display and providing an audible alert. In addition, the system applies partial braking.

If the driver applies the brakes quickly and forcefully after the warning, and the AEB with Pedestrian Detection system detects that there is still the possibility of a forward collision, the system will automatically increase the braking force.

If the driver does not take action, the AEB with Pedestrian Detection system issues the second visual (flashing) (red and white) and an audible warning. Then the system applies partial braking.

If the risk of a collision becomes imminent, the AEB with Pedestrian Detection system applies harder braking automatically.

While the AEB with Pedestrian Detection system is operating, you may hear the sound of brake operation. This is normal and indicates that the AEB with Pedestrian Detection system is operating properly.



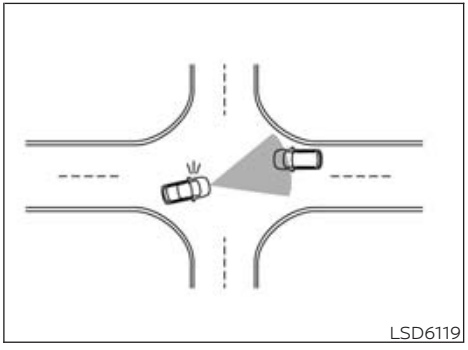
For vehicles with the 12.3 inch (31.2 cm) display

NOTE:

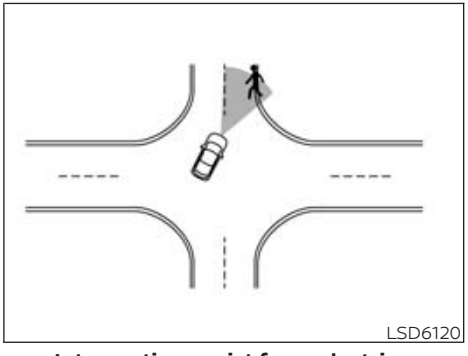
The vehicle's stop lights come on when any braking is performed by the AEB with Pedestrian Detection system.

Intersection assist (if so equipped) can operate at vehicle speeds between 6 – 16 mph (10 – 25 km/h).

The turn signal must be activated for Intersection assist to detect an approaching vehicle. However, Intersection assist may detect a pedestrian without the turn signal activated.



Intersection assist for approaching vehicle



Intersection assist for pedestrian

NOTE:

- **The vehicle's stop lights come on when braking is performed by the Intersection assist.**
- **When the AEB with Pedestrian Detection system detects an obstacle in the path of the vehicle and displays the AEB with Pedestrian Detection system warning, a noise may be heard from the front of the vehicle as the vehicle primes the brakes to improve response time.**

Depending on vehicle speed and distance to the vehicle, pedestrian or cyclists ahead, as well as driving and roadway conditions, the system may help the driver avoid a forward collision or may help mitigate the consequences if a collision should be unavoidable.

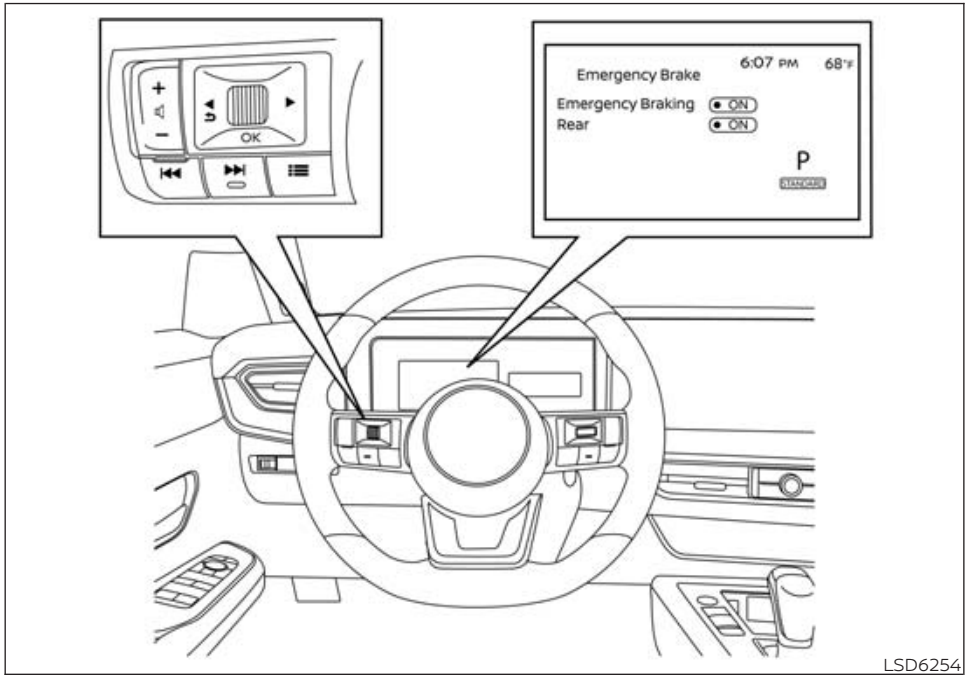
If the driver is handling the steering wheel, accelerating or braking, the AEB with Pedestrian Detection system will function later or will not function.

The automatic braking will cease under the following conditions:

- When the steering wheel is turned as far as necessary to avoid a collision.
- When the accelerator pedal is depressed.
- When there is no longer a vehicle or a pedestrian detected ahead.

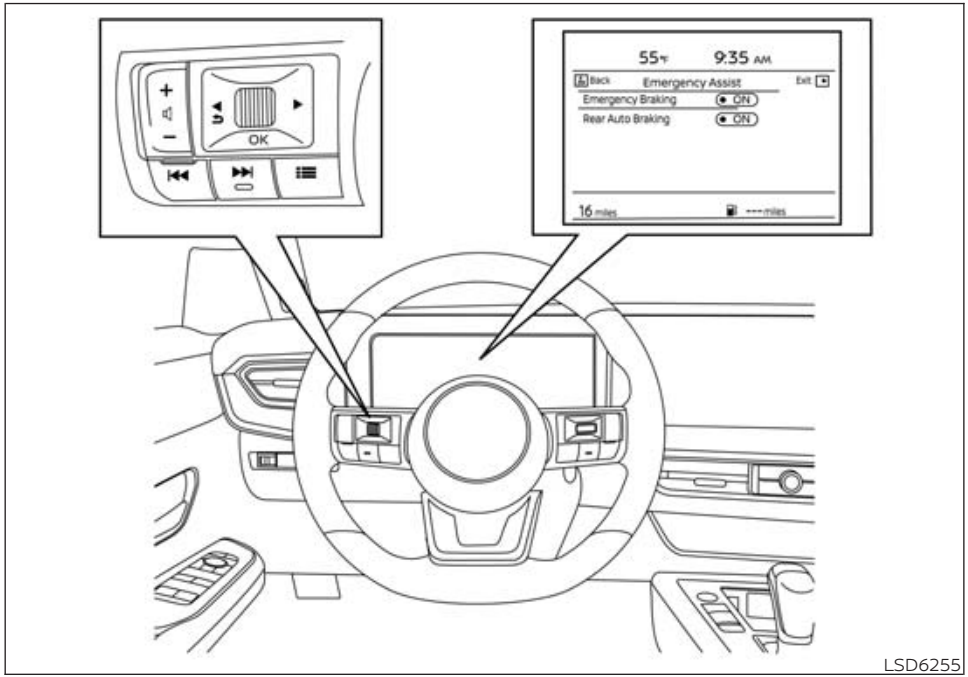
If the AEB with Pedestrian Detection system has stopped the vehicle, the vehicle will remain at a standstill for approximately 2 seconds before the brakes are released.

When the brake pedal is depressed while the brake is applied by the system, you may feel the pedal effort is changed and may hear a sound and vibration noise. This is normal and does not indicate a malfunction. In addition, the braking force can be increased by adding the pedal effort.



For vehicles with the 7 inch (18 cm) display

TURNING THE AEB WITH PEDESTRIAN DETECTION SYSTEM ON/OFF



For vehicles with the 12.3 inch (31.2 cm) display

Perform the following steps to enable or disable the AEB with Pedestrian Detection system.

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Emergency Brake" or "Emergency Assist" and press the OK button.
3. Select "Emergency Braking" and press the OK button to turn the system on or off.

When the AEB with Pedestrian Detection system is turned off, the AEB with Pedestrian Detection system warning light illuminates.

NOTE:

- **The AEB with Pedestrian Detection system will be automatically turned on when the engine is restarted.**
- **The I-FCW system is integrated into the AEB with Pedestrian Detection system. There is not a separate selection in the vehicle information display for the I-FCW system. When the AEB with Pedestrian Detection system is turned off, the I-FCW system is also turned off.**
- **The Intelligent Emergency Braking with Pedestrian Detection system cannot be turned off while driving.**

AEB WITH PEDESTRIAN DETECTION SYSTEM LIMITATIONS

⚠ WARNING

Listed below are the system limitations for the AEB with Pedestrian Detection system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The AEB with Pedestrian Detection system cannot detect all vehicles, pedestrians or cyclists under all conditions.**
- **The AEB with Pedestrian Detection system does not detect the following:**
  - **Pedestrians that are small (for example, children), in a sitting position, operating toys/skateboards, on scooters or in wheelchairs, or not in an upright standing or walking position.**
  - **Animals of any size.**
  - **Obstacles (for example, cargo or debris) on the roadway or roadside.**
  - **Crossing vehicles.**
  - **Vehicles where the tires are difficult to see or the shape of the rear of the vehicle is unclear or obstructed.**
  - **Parked vehicles.**
- **The AEB with Pedestrian Detection system has some performance limitations.**
  - **If a stationary vehicle is in the vehicle's path, the system will not function when the vehicle approaches the stationary vehicle at speeds over approximately 50 mph (80 km/h).**
  - **Pedestrian and cyclist detection will not function when the vehicle is driven at speeds over approximately 50 mph (80 km/h) or below approximately 6 mph (10 km/h).**

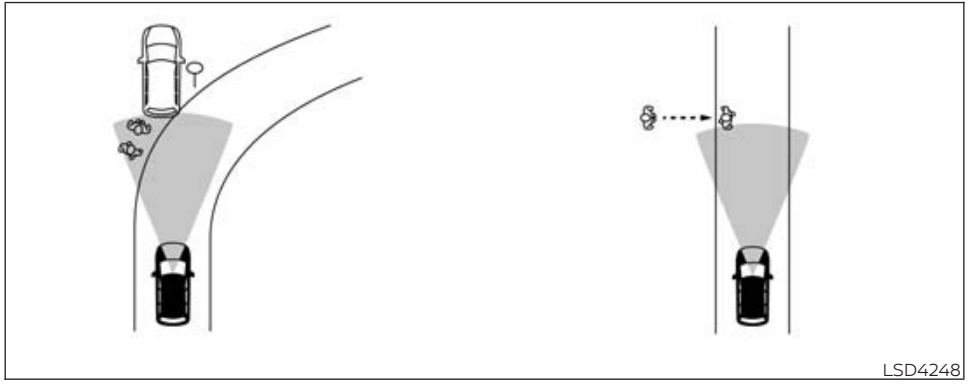
⚠ WARNING

- **The AEB with Pedestrian Detection system may not function properly or detect a vehicle, pedestrian or cyclist ahead in the following conditions:**
  - **In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke, and road spray from other vehicles).**
  - **If dirt, ice, snow, fog or other material is covering the radar sensor area or camera area of windshield.**
  - **If a strong light (for example, sunlight or high beams) enters the front camera or a sudden change in brightness occurs (for example, entering a tunnel or driving in lightning).**
  - **In dark or dimly lit conditions, such as at night or in tunnels, including cases where your vehicle's headlights are off or dim, or the tail lights of the vehicle ahead are off.**
  - **When the direction of the camera is misaligned.**
  - **When driving on a steep downhill slope, on roads with sharp curves, and/or bumpy or dirt roads.**
  - **If there is interference by other radar sources.**
  - **When your vehicle's position or movement is changed quickly or significantly (for example, lane change, turning vehicle, abrupt steering, sudden acceleration or deceleration).**
  - **When your vehicle or the vehicle, pedestrian or cyclist ahead moves quickly or significantly such that the system cannot detect and react in time (for example, pedestrian moving quickly toward the vehicle at close range, vehicle cutting in, changing lanes, making a turn, steering abruptly, sudden acceleration or deceleration).**
  - **When the vehicle, pedestrian or cyclist is offset from the vehicle's forward path.**
  - **If the speed difference between the two vehicles is small.**

- The pedestrian's profile is partially obscured or unidentifiable; for example, due to transporting luggage, pushing a stroller, wearing bulky or very loose-fitting clothing or accessories, or being in a unique posture (such as raising hands).
- When the system has never detected on obstacle since the vehicle was driven after the engine was started.
- There is poor contrast of a person to the background, such as having clothing color or pattern which is similar to the background.
- For approximately 15 seconds after starting the engine.
- If the vehicle ahead has a unique or unusual shape, extremely low or high clearance heights, or unusual cargo loading or is narrow (for example, a motorcycle).
- When the vehicle, pedestrian or cyclist is located near a traffic sign, a reflective area (for example, water on road), or is in a shadow.
- When multiple pedestrians or cyclists are grouped together.
- When the view of the pedestrian or cyclist is obscured by a vehicle or other object.

- The system performance may be degraded in the following conditions:
  - The vehicle is driven on a slippery road.
  - The vehicle is driven on a slope.
  - Excessively heavy baggage is loaded in the rear seat or the cargo area of your vehicle.
- The system is designed to automatically check the sensor's (radar and camera) functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow or stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear sensor areas regularly.
- In some road and traffic conditions, the AEB with Pedestrian Detection system may unexpectedly apply partial braking. When acceleration is necessary, depress the accelerator pedal to override the system.
- The AEB with Pedestrian Detection system may operate when a pattern, object, shadow or lights are detected that are similar to the outline of vehicles or pedestrians or cyclists or if they are the same size and position as a vehicle or motorcycle's tail lights.
- The system may keep operating when the vehicle ahead is turning right or left.

- The system may operate when your vehicle is approaching and passing a vehicle ahead.
- Depending on the road shape (curved road, entrance and exit of the curve, winding road, lane regulation, under construction, etc.), the system may operate temporarily for the oncoming vehicle in front of your vehicle.

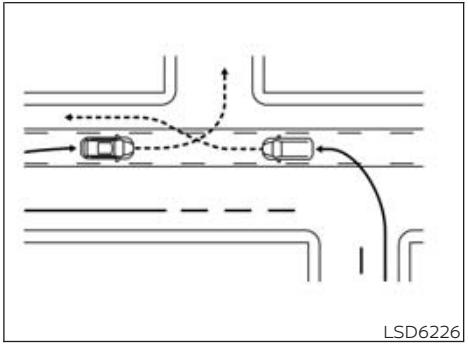


LSD4248

⚠WARNING

Listed below are the system limitations for the AEB with Pedestrian Detection system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

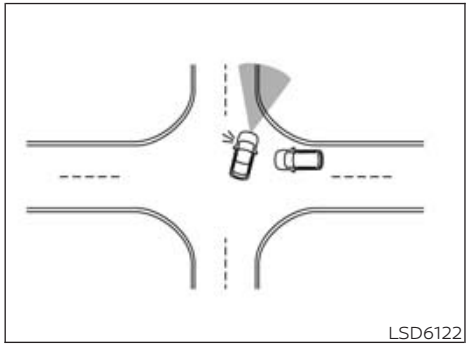
- **The AEB with Pedestrian Detection system may react to:**
  - **objects on the roadside (traffic sign, guardrail, pedestrian, cyclist, motorcycle, vehicle, etc.)**
  - **pedestrians or cyclists when driving on the narrow alleys, etc.**
  - **pedestrians or cyclists who temporarily protrude into or approaching the driving lane to avoid the obstacles on the road shoulder**
  - **objects above road (low bridge, traffic sign, etc.)**
  - **objects on the road surface (railroad track, grate, steel plate, etc.)**
  - **objects in the parking garage (beam, pillar, etc.)**
  - **pedestrians, cyclists or motorcycles approaching the travelling lane**
  - **vehicles, pedestrians, cyclist, motorcycles or objects in adjacent lanes or close to the vehicle**
  - **approaching pedestrians, cyclists**
  - **objects on the road (such as trees)**
- **Braking distances increase on slippery surfaces.**
- **Excessive noise will interfere with the warning chime sound, and the chime may not be heard.**



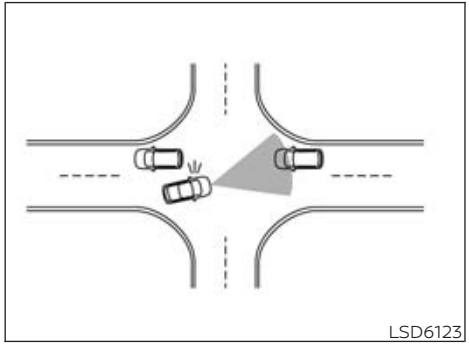
LSD6226

⚠WARNING

Intersection assist (if so equipped) does not apply braking to approaching vehicles in front of your vehicle.



(In the intersection) After turning left

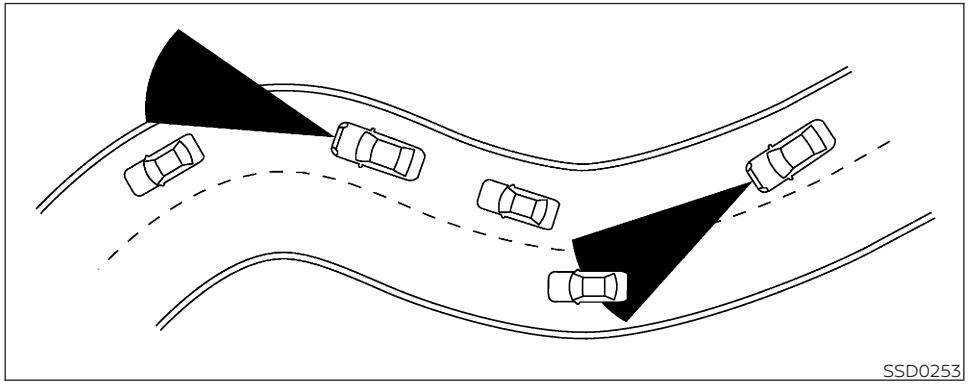


(In the intersection) Approaching vehicles in a row

⚠WARNING

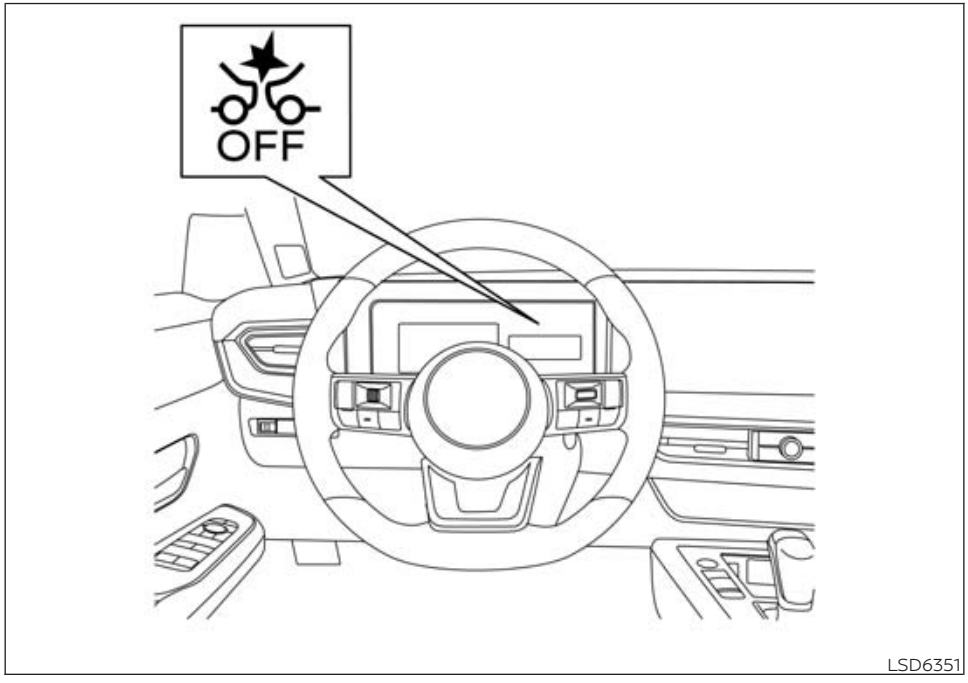
In addition to the system limitations that apply to the AEB with Pedestrian Detection system, the following system limitations apply to the AEB with Pedestrian Detection while Intersection Assist (if so equipped) is operating:

- **Intersection assist (if so equipped) may not detect an approaching vehicle or pedestrian in the following conditions:**
  - **When driving in a traffic lane separated by more than 2 lanes from approaching vehicles while making a right or left turn.**
  - **When not heading directly towards an approaching vehicle during a right or left turn.**
  - **Intersection Assist may not detect an approaching vehicle after you have already started your turn.**
  - **When turning sharply or on a very wide curve.**
  - **When the center line is not recognized by the system.**
  - **When there are a number of approaching vehicles following each other in a row.**
  - **When the lane is wider or narrower than normal.**
  - **When the center line is located close to a road marker.**
- **Intersection Assist may apply braking while making a right/left turn even if the risk of a collision is low.**
- **Intersection Assist may also apply braking when approaching vehicle movement cannot be predicted due to sudden left/right turns or deceleration of the approaching vehicles.**



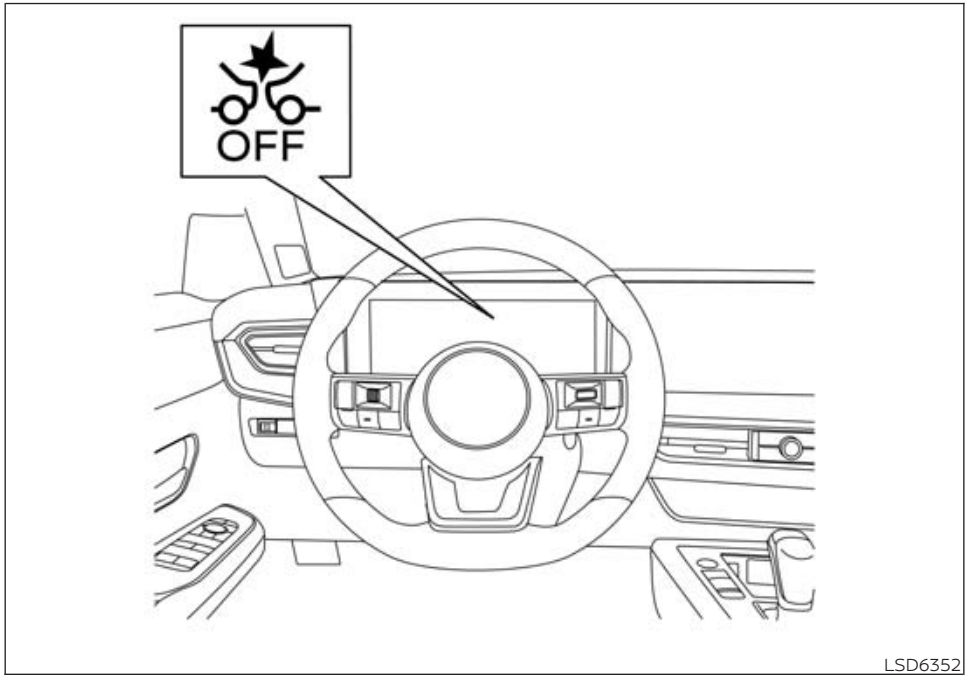
When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction or on a slope, the sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**

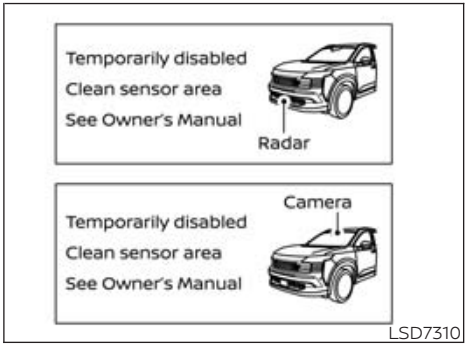


For vehicles with the 7 inch (18 cm) display

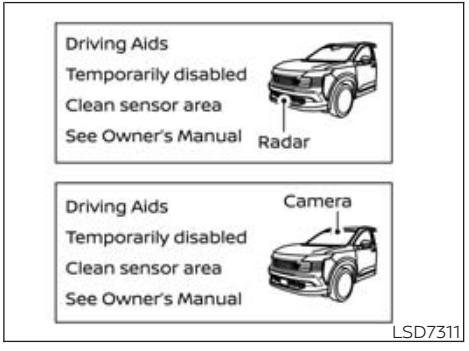
SYSTEM TEMPORARILY
UNAVAILABLE



For vehicles with the 12.3 inch (31.2 cm) display



For vehicles with the 7 inch (18 cm) display



For vehicles with the 12.3 inch (31.2 cm) display

Condition A:

In the following conditions, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message will appear in the vehicle information display. And the system will be turned off automatically.

- The camera area of the windshield is covered with moisture, snow, ice, dirt or some other object.
- The camera area of the windshield is continuously covered with dirt, etc.

Action to take:

Check that the windshield is clean and free from ice/mist in front of the camera. If necessary, operate the max defogging/defrosting function or heated windshield (if so equipped) to clear. This may take several minutes.

Condition B:

In the following conditions, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Temporarily limited Poor Visibility" or "Driving Aids Temporarily limited Poor Visibility" warning message will appear in the vehicle information display.

- Strong light is shining onto the front of the vehicle.
- The camera area of the windshield is fogged up or covered with dirt, water, drops, ice, snow, etc. temporarily.

Action to take:

When the above conditions no longer exist, the Automatic Emergency Braking (AEB) with Pedestrian Detection system will resume automatically.

Condition C:

In the following condition, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Temporarily limited Front Camera too Hot" or "Driving Aids temporarily limited Front Camera Too Hot" warning message will appear in the vehicle information display.

- The cabin temperature is over approximately 104°F (40°C) in direct sunlight.

Action to take:

When the interior temperature is reduced, the Automatic Emergency Braking (AEB) with Pedestrian Detection system will resume automatically.

Condition D:

In the following conditions, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Driving Aids temporarily limited" warning message will appear in the vehicle information display.

- When the system check for the warning function did not end normally.
- When the vehicle is towed.

Action to take:

When the above conditions no longer exist, the Automatic Emergency Braking (AEB) with Pedestrian Detection system will resume automatically.

Condition E:

In the following condition, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Temporarily limited Radar interference" or "Driving Aids Temporarily limited Radar interference" warning message will appear in the vehicle information display.

- When the radar sensor picks up Interference from another radar source.

Action to take:

When the above condition no longer exists, the Automatic Emergency Braking (AEB) with Pedestrian Detection system will resume automatically.

Condition F:

When the Vehicle Dynamic Control (VDC) system is turned OFF, the Automatic Emergency Braking (AEB) with Pedestrian Detection system braking will not operate, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Limited driver's aid VDC setting OFF" warning message will appear in the vehicle information display.

Action to take:

When the VDC system is ON, the Automatic Emergency Braking (AEB) with Pedestrian Detection system will resume automatically.

Condition G:

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor, the

AEB with Pedestrian Detection system will be canceled, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

When the conditions listed above are no longer present, the warning message will no longer be available in the vehicle information display. If the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition H:

When the radar sensor of the front radar cover/emblem is covered with mud, dirt, snow, ice, etc., or is obstructed, the AEB with Pedestrian Detection system will automatically be canceled, the Automatic Emergency Braking (AEB) with Pedestrian Detection system OFF warning light will illuminate and the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning message appears, stop the vehicle in a safe place, place the shift lever in the P (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front radar cover/emblem and restart the engine. If the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition I:

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snowfields, driving next to long walls), the system may illuminate the system warning light and display the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" message.

Action to take:

When the above driving conditions no longer exist, turn the system back on.

Condition J:

When the Vehicle Dynamic Control (VDC) system is OFF, the AEB with Pedestrian Detection brake will not operate. In this case only visible and audible warning operates. The AEB with Pedestrian Detection system OFF warning light (orange) will illuminate.

Action to take:

When the VDC system is ON, the AEB with Pedestrian Detection system will resume automatically.

NOTE:

If the AEB with Pedestrian Detection system stops working, the I-FCW system will also stop working.

SYSTEM MALFUNCTION

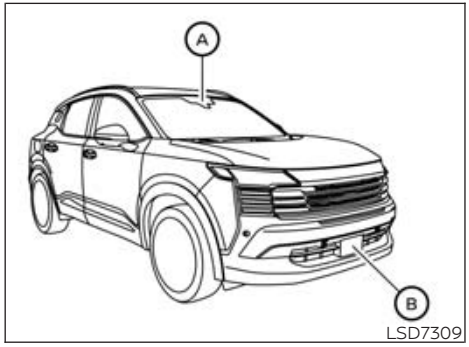
If the AEB with Pedestrian Detection system malfunctions, it will be turned off automatically, a chime may sound, the AEB with Pedestrian Detection system warning light (orange) may illuminate and the "Malfunction See Owner's manual" may appear in the vehicle information display.

Action to take:

If the warning light (orange) comes on, stop the vehicle in a safe location, turn the engine off and restart the engine. If the warning light continues to illuminate, have the AEB with Pedestrian Detection system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

Basic Information



The radar sensor is located on the front of the vehicle Ⓑ. The camera is located on the upper side of the windshield Ⓐ.

To keep the AEB with Pedestrian Detection system operating properly, be sure to observe the following:

- Always keep the sensor areas of the front radar cover/emblem and windshield clean.
- Do not strike or damage the areas around the sensors (e.g., bumper, windshield).
- Do not cover or attach stickers, or install any accessory near the sensors. This could block sensor signals and/or cause failure or malfunction.
- Do not attach metallic objects near the radar sensor (brush guard, etc.). This could cause failure or malfunction.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability.
- Do not alter, remove or paint the front bumper. Before customizing or restoring the front bumper, it is recommended that you visit a NISSAN dealer.

Radio frequency statement

For USA

FCC ID: NF3-F5CP32

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For Canada

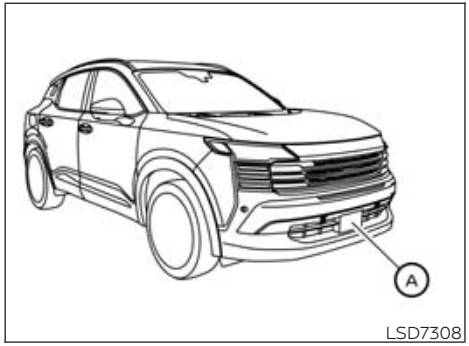
IC: 3887A-F5CP32

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference,
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

INTELLIGENT FORWARD COLLISION WARNING (I-FCW)

BASIC INFORMATION



LSD7308

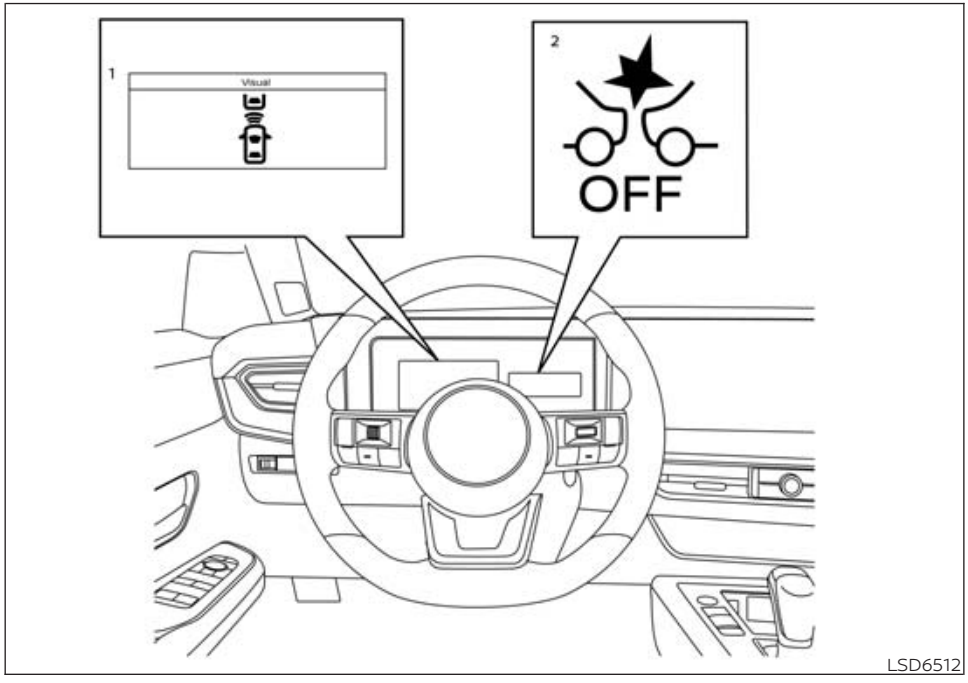
⚠ WARNING

Failure to follow the warnings and instructions for proper use of the I-FCW system could result in serious injury or death.

- **The I-FCW system can help warn the driver before a collision occurs but will not avoid a collision. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.**

The I-FCW system can help alert the driver when there is a sudden braking of a second vehicle traveling in front of the vehicle ahead in the same lane.

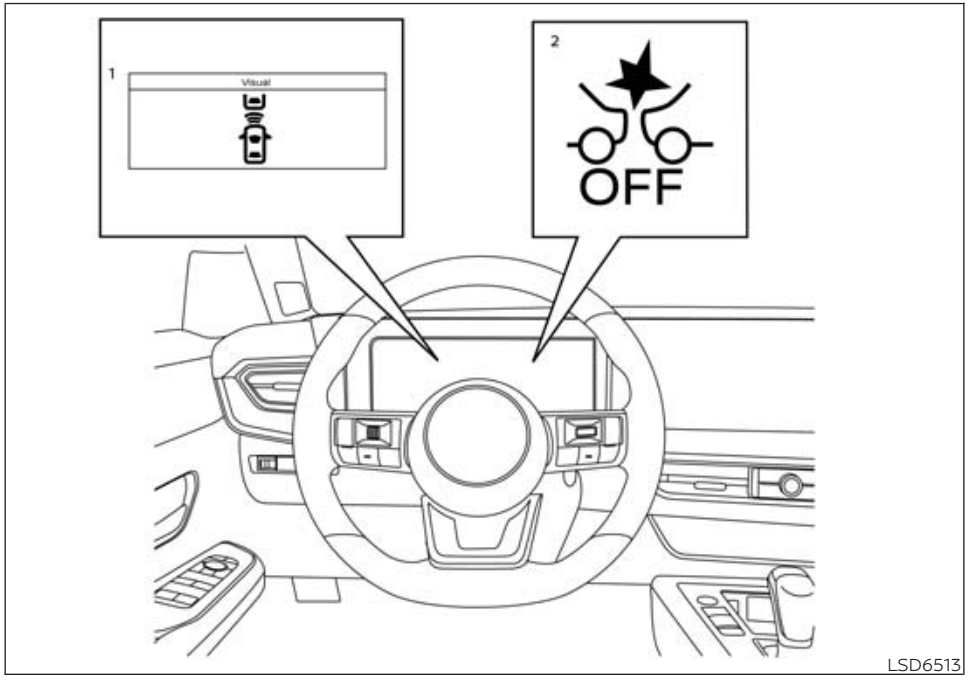
The I-FCW system uses a radar sensor Ⓐ located on the front of the vehicle to measure the distance to the vehicle ahead in the same lane.



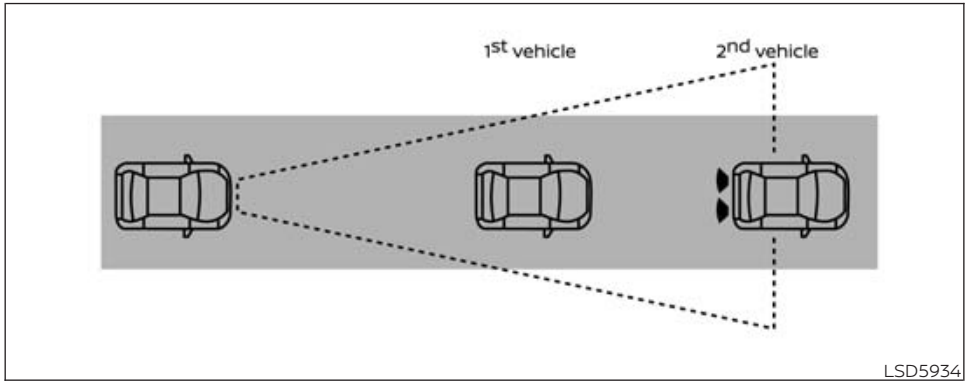
For vehicles with the 7 inch (18 cm) display

I-FCW SYSTEM OPERATION

1. Vehicle ahead detection indicator
2. AEB with Pedestrian Detection system warning indicator or AEB with Pedestrian Detection system warning light

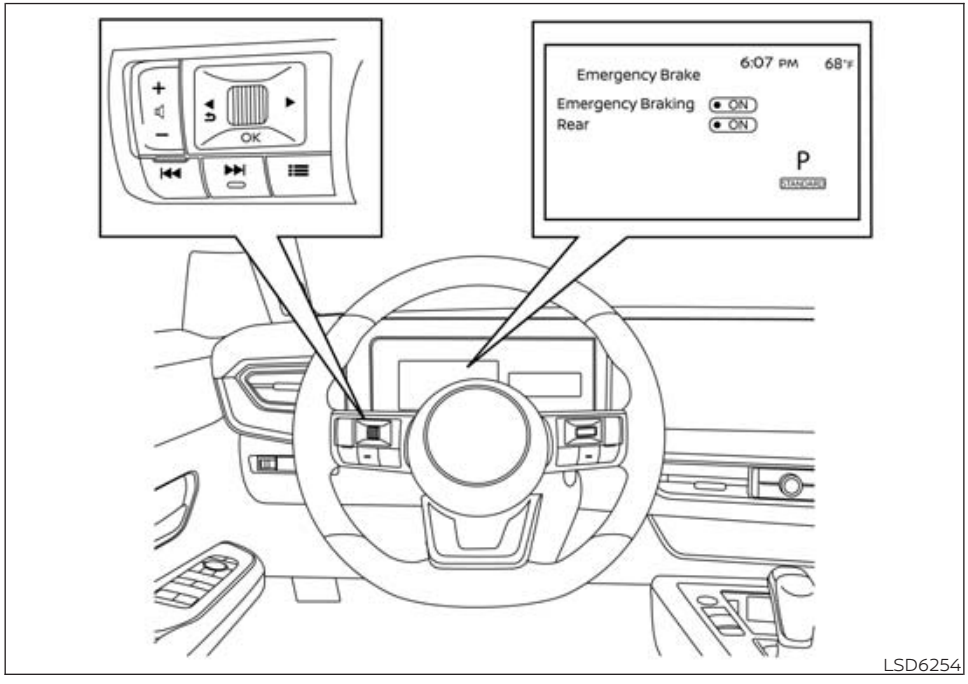


For vehicles with the 12.3 inch (31.2 cm) display



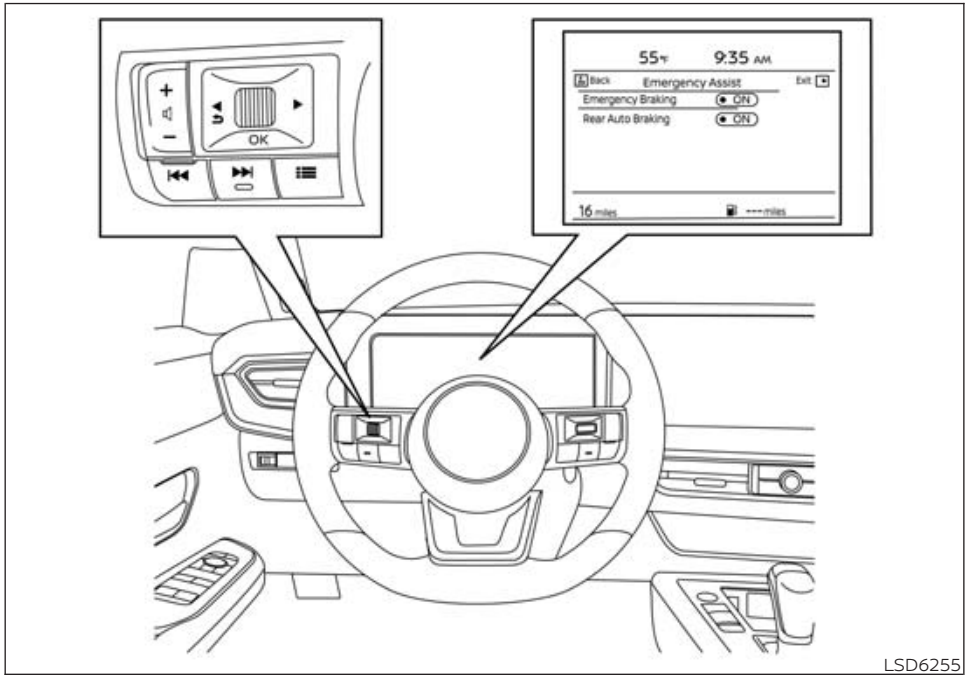
The I-FCW system operates at speeds above approximately 3 mph (5 km/h).

If there is a potential risk of a forward collision, the I-FCW system will warn the driver by blinking the vehicle ahead detection indicator in the vehicle information display, and sounding an audible alert.



For vehicles with the 7 inch (18 cm) display

TURNING THE I-FCW SYSTEM ON/OFF



For vehicles with the 12.3 inch (31.2 cm) display

Perform the following steps to turn the I-FCW system ON or OFF.

1. Press the ◀▶ button until "Settings" displays in the vehicle information display. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Emergency Brake" or "Emergency Assist" and press the OK button.
3. Select "Emergency Braking" and press the OK button to turn the system on or off.

When the I-FCW system is turned off, the AEB with Pedestrian Detection system warning light illuminates.

NOTE:

- **The I-FCW system will be automatically turned on when the engine is restarted.**
- **The I-FCW system is integrated into the AEB with Pedestrian Detection system. There is not a separate selection in the vehicle information display for the I-FCW system. When the AEB with Pedestrian Detection system is turned off, the I-FCW system is also turned off.**
- **The Intelligent Forward Collision Warning system cannot be turned off while driving.**

I-FCW SYSTEM LIMITATIONS

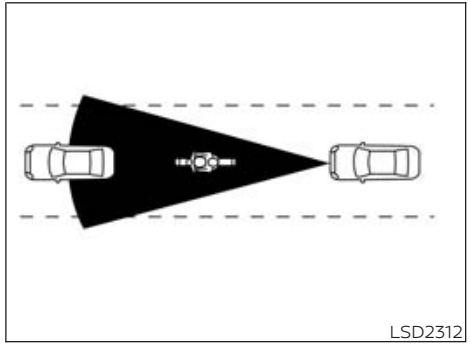


Illustration A

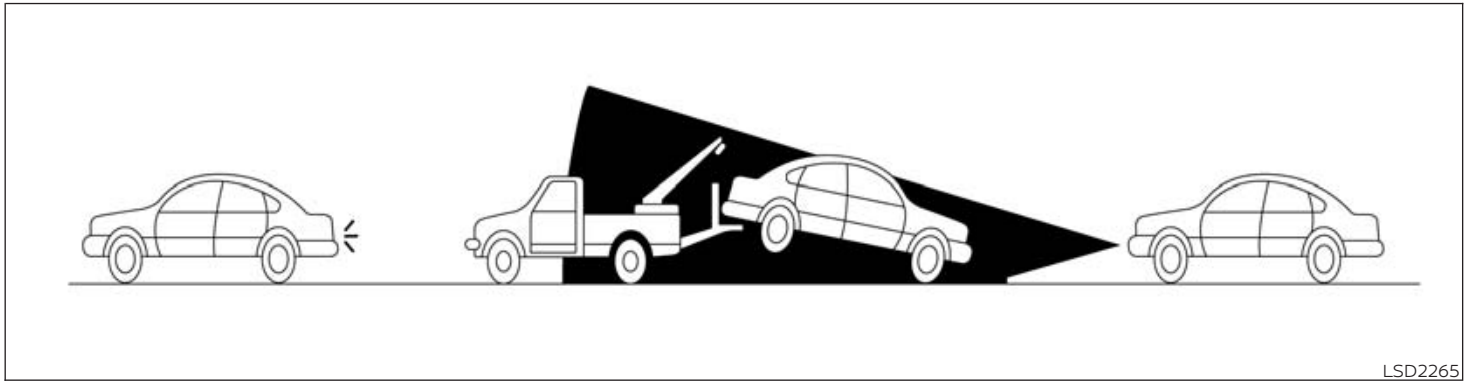


Illustration B

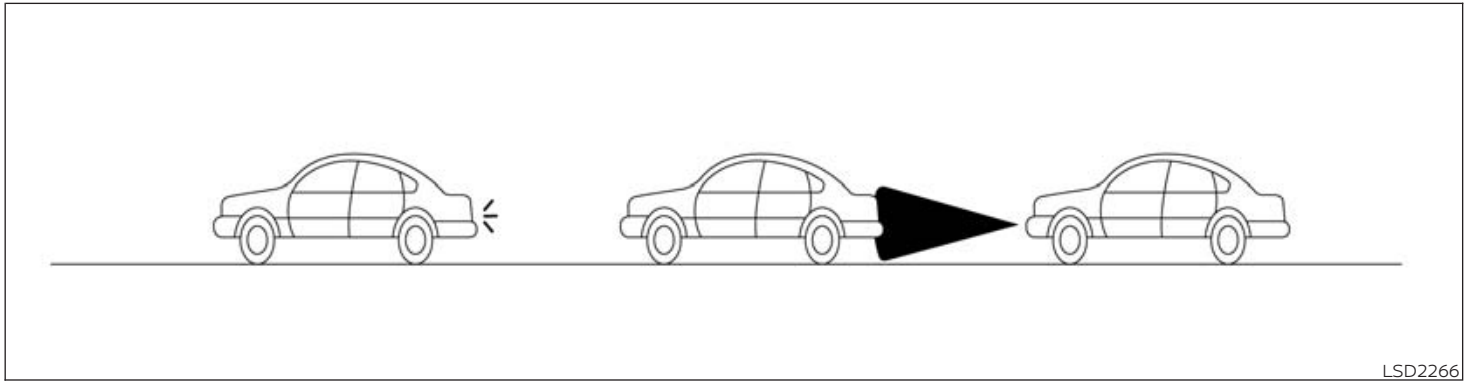


Illustration C

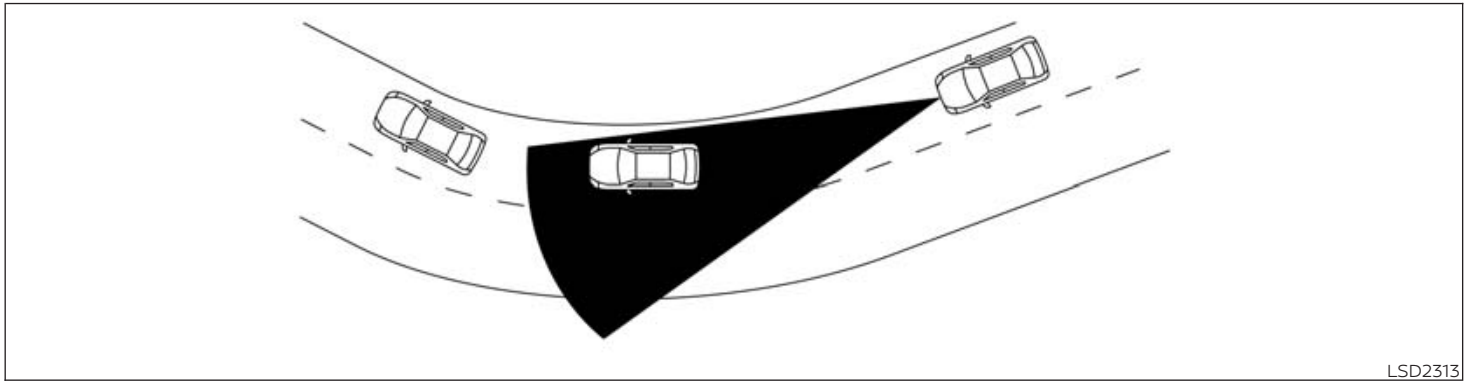
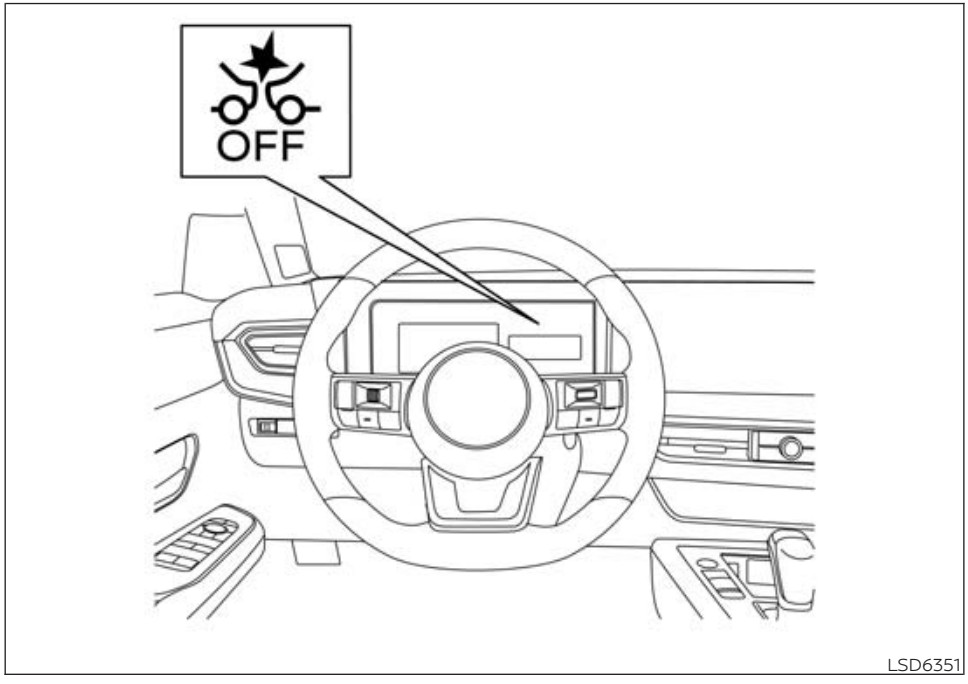


Illustration D

⚠ WARNING

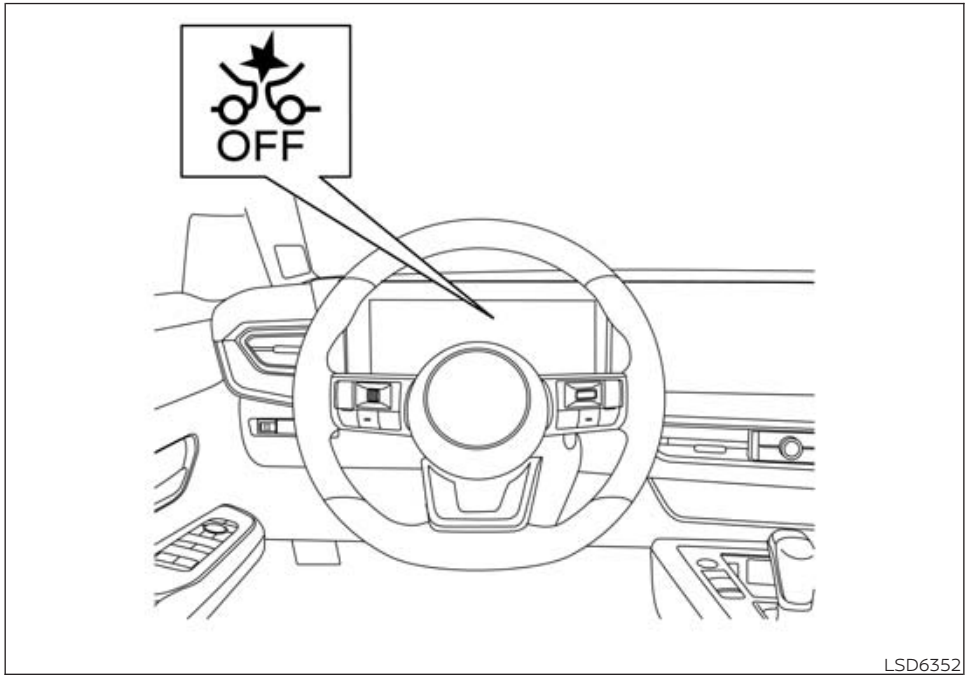
Listed below are the system limitations for the I-FCW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The I-FCW system cannot detect all vehicles under all conditions.**
- **The radar sensor does not detect the following objects:**
  - **Pedestrians, animals or obstacles in the roadway**
  - **Oncoming vehicles**
  - **Crossing vehicles**
- **(Illustration A) The I-FCW system does not function when a vehicle ahead is a narrow vehicle, such as a motorcycle.**
- **The radar sensor may not detect a vehicle ahead in the following conditions:**
  - **Snow or heavy rain**
  - **Dirt, ice, snow or other material covering the radar sensor.**
  - **Interference by other radar sources.**
  - **Snow or road spray from traveling vehicles.**
  - **Driving in a tunnel**
  - **(Illustration B) When the vehicle ahead is being towed.**
  - **(Illustration C) When the distance to the vehicle ahead is too close, the beam of the radar sensor is obstructed.**
  - **(Illustration D) When driving on a steep downhill slope or roads with sharp curves.**
- **The system is designed to automatically check the sensor's functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow, stickers, etc. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear the sensor area regularly.**
- **Excessive noise will interfere with the warning chime sound, and the chime may not be heard.**



For vehicles with the 7 inch (18 cm) display

SYSTEM TEMPORARILY
UNAVAILABLE



For vehicles with the 12.3 inch (31.2 cm) display

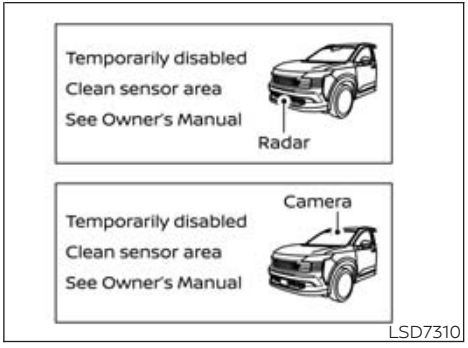
Condition A

When the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the I-FCW system is automatically turned off.

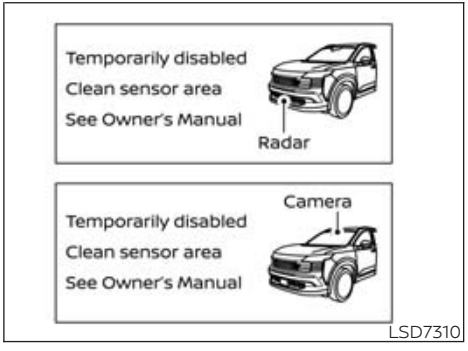
The AEB with Pedestrian Detection system warning light (orange) will illuminate and the "Temporarily limited Radar interference" or "Driving Aids Temporarily limited Radar interference" warning message may display.

Action to take:

When the above conditions no longer exist, the I-FCW system will resume automatically.



For vehicles with the 7 inch (18 cm) display



For vehicles with the 12.3 inch (31.2 cm) display

Condition B

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor or front camera, the I-FCW system will automatically be canceled, the AEB with pedestrian detection system warning light illuminates and the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

When the conditions listed above are no longer present, the warning message will no longer be available in the vehicle information display. If the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition C

When the radar sensor of the front radar cover/emblem or front camera is covered with mud, dirt, snow, ice, etc., or is obstructed, the I-FCW system will automatically be canceled. The AEB with pedestrian detection system warning light illuminates and the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning message appears, stop the vehicle in a safe place, place the shift lever in the P (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front radar cover/emblem or front camera and restart the engine. If the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition D

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls), the system may illuminate the system warning light (orange) and display the "Temporarily disabled Clean sensor area See Owner's Manual" or "Driving Aids Temporarily disabled Clean sensor area See Owner's Manual" warning message.

Action to take:

When the above driving conditions no longer exist, turn the system back on.

NOTE:

If the AEB with Pedestrian Detection system stops working, the I-FCW system will also stop working.

SYSTEM MALFUNCTION

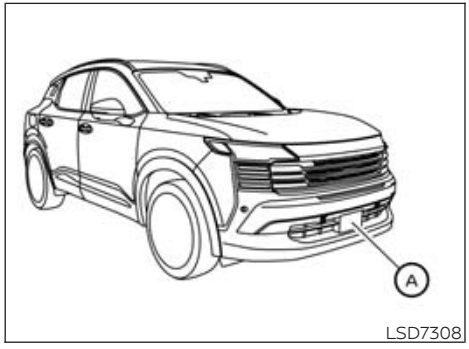
If the I-FCW system malfunctions, it will be turned off automatically, a chime will sound, the AEB with Pedestrian Detection system warning light (orange) will illuminate and the warning message: "Malfunction See Owner's Manual" will appear in the vehicle information display.

Action to take:

If the warning light (orange) comes on, stop the vehicle in a safe location, turn the engine off and restart the engine. If the warning light continues to illuminate, have the I-FCW system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

Basic Information



LSD7308

The sensor Ⓐ is located on the front of the vehicle, behind the radar cover.

To keep the system operating properly, be sure to observe the following:

- Always keep the sensor area of the front radar cover/emblem clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Before customizing or restoring the front bumper, it is recommended that you visit a NISSAN dealer.

Radio frequency statement

FCC Notice

For USA

FCC ID: NF3-F5CP32

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radio Frequency Radiation Exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For Canada

IC: 3887A-F5CP32

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device must not cause interference,
2. This device must accept any interference, including interference that may cause undesired operation of the device.

INTELLIGENT DRIVER ALERTNESS (I-DA)

BASIC INFORMATION

⚠ WARNING

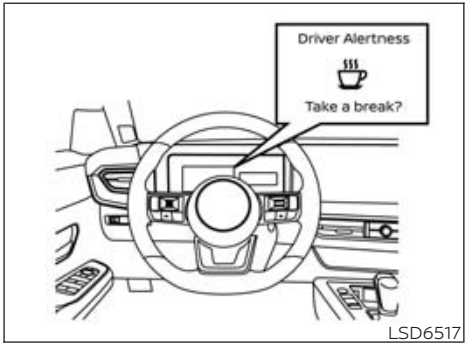
Failure to follow the warnings and instructions for proper use of the I-DA system could result in serious injury or death.

- **The I-DA system is only a warning to inform the driver of a potential lack of driver attention or drowsiness. It will not steer the vehicle or prevent loss of control.**
- **The I-DA system does not detect and provide an alert of the driver's lack of attention or fatigue in every situation.**
- **It is the driver's responsibility to:**
  - **stay alert,**
  - **drive safely,**
  - **keep the vehicle in the traveling lane,**
  - **be in control of the vehicle at all times,**
  - **avoid driving when tired,**
  - **avoid distractions (texting, etc.).**

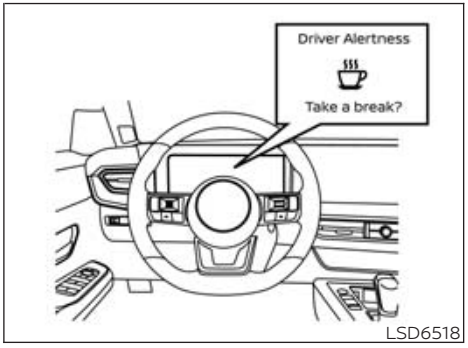
The I-DA system helps alert the driver if the system detects a lack of attention or driving fatigue.

The system monitors driving style and steering behavior over a period of time, and it detects changes from the normal pattern. If the system detects that driver attention is decreasing over a period of time, the system uses audible and visual warnings to suggest that the driver take a break.

INTELLIGENT DRIVER ALERTNESS SYSTEM OPERATION



For vehicles with the 7 inch (18 cm) display



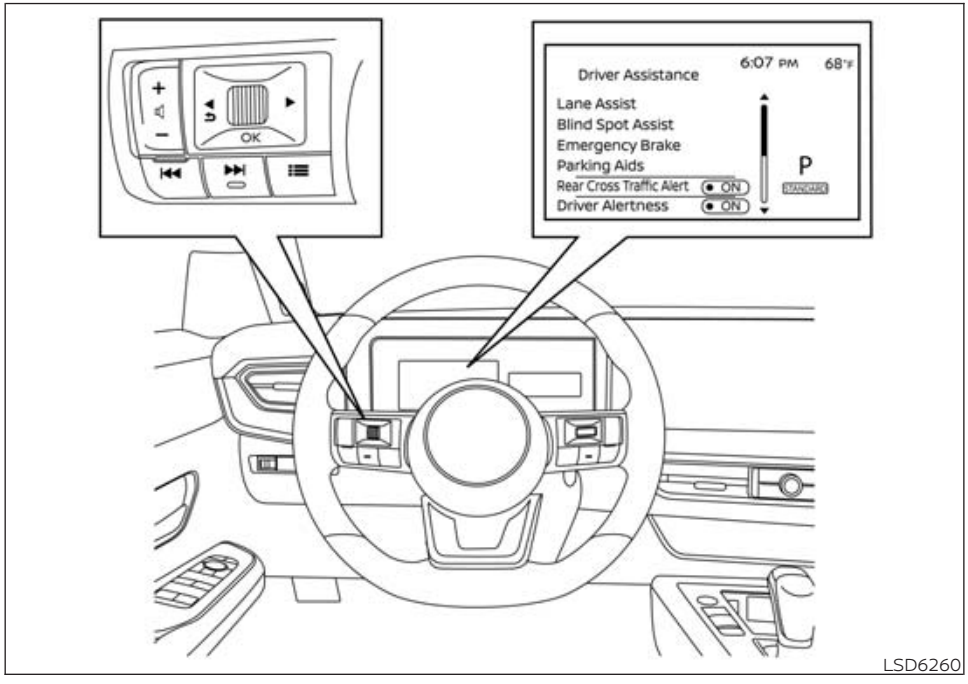
For vehicles with the 12.3 inch (31.2 cm) display

If the system detects driver fatigue or that driver attention is decreasing, the message "Take a break?" appears in the vehicle information display and a chime sounds when the vehicle is driven at speeds above 37 mph (60 km/h).

The system continuously monitors driver attention and can provide multiple warnings per trip.

The system resets and starts reassessing driving style and steering behavior when the ignition switch is cycled from ON to OFF and back on.

The system will not operate when the Steering Assist system is activated.



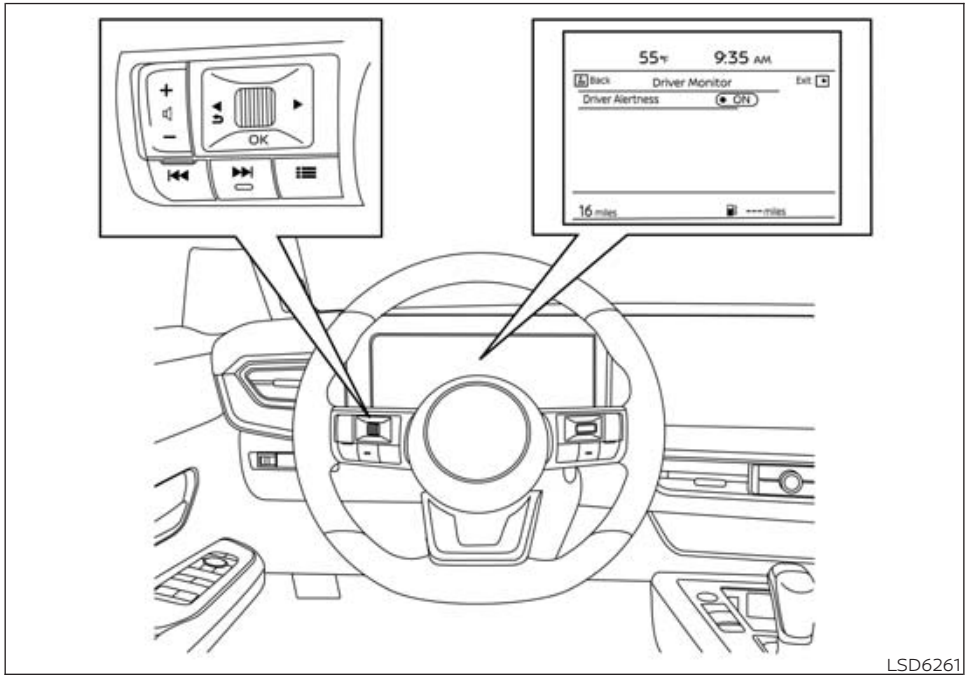
For vehicles with the 7 inch (18 cm) display

HOW TO ENABLE/DISABLE THE INTELLIGENT DRIVER ALERTNESS (I-DA) SYSTEM

Perform the following steps to enable or disable the I-DA system.

For vehicles equipped with the 7 inch (18 cm) display:

1. Press the ◀▶ button until "Settings" displays in the vehicle information display and press the OK button. Use the scroll dial to select "Driver Assistance" Then press the OK button.
2. Select "Driver Alertness" and press the OK button to turn the system on or off.



For vehicles with the 12.3 inch (31.2 cm) display

For vehicles equipped with the 12.3 inch (31.2 cm) display:

1. Press the ◀▶ button until "Settings" displays in the vehicle information display and press the OK button. Use the scroll dial to select "Driver Assistance" Then press the OK button.
2. Select "Driver Monitor" and press the OK button.
3. Select "Driver Alertness" and press the OK button to turn the system on or off.

NOTE:

- **The system will automatically be turned on when the engine is restarted.**
- **As long as the Steering Assist (if so equipped) is activated, the Intelligent Driver Alertness system will be deactivated.**

INTELLIGENT DRIVER ALERTNESS (I-DA) SYSTEM LIMITATIONS

Basic Information

⚠ WARNING

Listed below are the system limitations for the I-DA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The I-DA system may not operate properly and may not provide an alert in the following conditions:**
  - **Poor road conditions such as an uneven road surface or pot holes.**
  - **Strong side wind.**
  - **If you have adopted a sporty driving style with higher cornering speeds or higher rates of acceleration.**
  - **Frequent lane changes or changes to vehicle speed.**
- **The I-DA system will not provide an alert in the following conditions:**
  - **Vehicle speeds lower than 37 mph (60 km/h).**
  - **Short lapses of attention.**
  - **Instantaneous distractions such as dropping an object.**

System malfunction



For vehicles with the 7 inch (18 cm) display



For vehicles with the 12.3 inch (31.2 cm) display

If the Intelligent Driver Alertness system malfunctions, the system warning message will appear in the vehicle information display and the function will be stopped automatically.

Action to take

Stop the vehicle in a safe location, place the vehicle in P (Park) position, turn the engine off and restart the engine. If the system warning message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

BREAK-IN SCHEDULE

⚠ CAUTION

During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow, and do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.

FUEL EFFICIENT DRIVING TIPS

Follow these easy-to-use Fuel Efficient Driving Tips to help you achieve the most fuel economy from your vehicle.

1. **Use Smooth Accelerator and Brake Pedal Application**
   - Avoid rapid starts and stops.
   - Use smooth, gentle accelerator and brake application whenever possible.
   - Maintain constant speed while commuting and coast whenever possible.
2. **Maintain Constant Speed**
   - Look ahead to try and anticipate and minimize stops.
   - Synchronizing your speed with traffic lights allows you to reduce your number of stops.
   - Maintaining a steady speed can minimize red light stops and improve fuel efficiency.
3. **Use Air Conditioning (A/C) at Higher Vehicle Speeds**
   - Below 40 mph (64 km/h), it is more efficient to open windows to cool the vehicle due to reduced engine load.
   - Above 40 mph (64 km/h), it is more efficient to use A/C to cool the vehicle due to increased aerodynamic drag.
   - Recirculating the cool air in the cabin when the A/C is on reduces cooling load.
4. **Drive at Economical Speeds and Distances**
   - Observing the speed limit and not exceeding 60 mph (97 km/h) (where legally allowed) can improve fuel efficiency due to reduced aerodynamic drag.
   - Maintaining a safe following distance behind other vehicles reduces unnecessary braking.
   - Safely monitoring traffic to anticipate changes in speed permits reduced braking and smooth acceleration changes.
   - Select a gear range suitable to road conditions.
5. **Use Cruise Control**
   - Using cruise control during highway driving helps maintain a steady speed.
   - Cruise control is particularly effective in providing fuel savings when driving on flat terrains.
6. **Plan for the Shortest Route**
   - Utilize a map or navigation system to determine the best route to save time.
7. **Avoid Idling**
   - Shutting off your engine when safe for stops exceeding 30–60 seconds saves fuel and reduces emissions.
8. **Buy an Automated Pass for Toll Roads**
   - Automated passes permit drivers to use special lanes to maintain cruising speed through the toll and avoid stopping and starting.

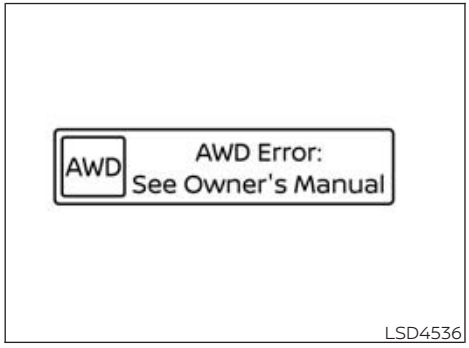
9. **Winter Warm Up**
   - Limit idling time to minimize impact to fuel economy.
   - Vehicles typically need no more than 30 seconds of idling at start-up to effectively circulate the engine oil before driving.
   - Your vehicle will reach its ideal operating temperature more quickly while driving versus idling.
10. **Keeping your Vehicle Cool**
   - Park your vehicle in a covered parking area or in the shade whenever possible.
   - When entering a hot vehicle, opening the windows will help to reduce the inside temperature faster, resulting in reduced demand on your A/C system.

INCREASING FUEL ECONOMY

- Keep your engine tuned up.
- Follow the recommended scheduled maintenance.
- Keep the tires inflated to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
- Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
- Use the recommended viscosity engine oil. For additional information, see "Engine oil and oil filter recommendations" (P. 490).

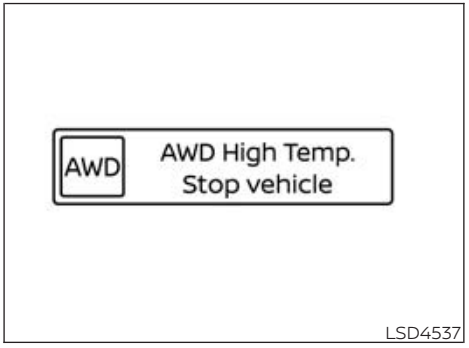
INTELLIGENT ALL—WHEEL DRIVE (AWD) (if so equipped)

If any malfunction occurs in the Intelligent AWD system while the engine is running, messages are displayed in the meter.



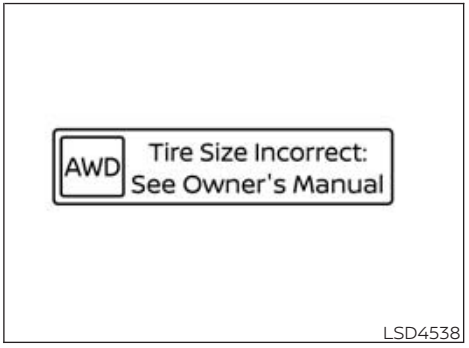
LSD4536

If the "AWD error" warning appears, there may be a malfunction in the Intelligent AWD system. Reduce vehicle speed and have your vehicle checked. It is recommended that you visit a NISSAN dealer as soon as possible.



LSD4537

The "AWD High Temp. Stop Vehicle" (high temperature) warning appears when the oil temperature of the powertrain parts will increase due to the difference in rotation between the front and rear wheels is large (wheel slip), such as when driving the vehicle on rough roads, through sand or mud, or freeing a stuck vehicle. If this warning is displayed, stop the vehicle with the engine idling, as soon as it is safe to do so. In these cases, the AWD changes to 2WD to protect the powertrain parts. Then if the warning turns off, you continue AWD driving.



LSD4538

The "Tire Size Incorrect" warning may be displayed if there is a large difference between the diameters of front and rear wheels and tires. Pull off the road in a safe area, with the engine idling. Check that all tire sizes, brand, construction and tread pattern are the same, that the tire pressure is correct and that the tires are not excessively worn. If you have any problems, please change tires or adjust the correct tire pressure. Do not select the SNOW mode with the Drive Mode Selector and do not drive fast.

If any warning message continues to be displayed, have your vehicle checked. It is recommended that you visit a NISSAN dealer as soon as possible.

⚠ WARNING

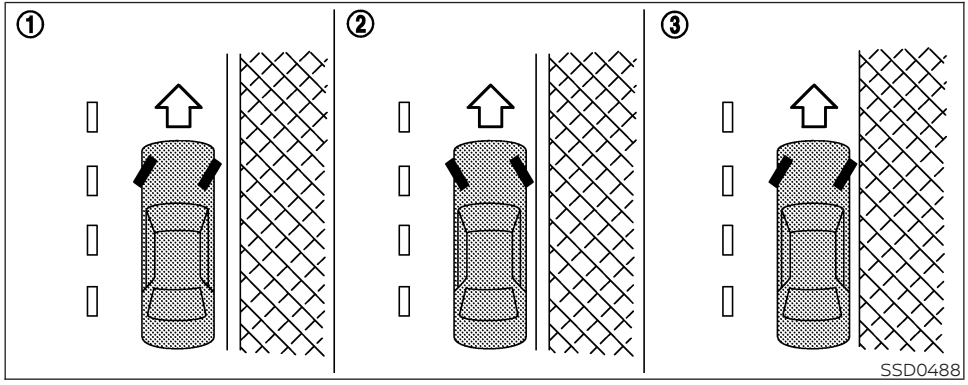
- **For AWD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **Do not attempt to test an AWD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing) or similar equipment even if the other two wheels are raised off the ground. Make sure that you inform the test facility personnel that your vehicle is equipped with AWD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**

⚠ CAUTION

- **Do not operate the engine on a free roller when any of the wheels are raised.**
- **The powertrain may be damaged if you continue driving with the "AWD Error" warning on.**
- **If the warning message remains on after the above operation, have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.**
- **If the "AWD Error" warning appears while driving, there may be a malfunction in the AWD system.**

Reduce the vehicle speed and have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

When the vehicle is in the P (Park) position, the operation noise may be heard from the lower part of the vehicle. This is not a malfunction.



PARKING/PARKING ON HILLS

⚠WARNING

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Safe parking procedures require that both the parking brake be set and the transmission placed in P (Park). Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident. Make sure the shift lever has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.**
- **Never leave the engine running while the vehicle is unattended.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls or make the vehicle move. Unattended children could become involved in serious accidents.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

1. Firmly apply the parking brake.
2. Move the shift lever into the P (Park) position.
3. To help prevent the vehicle from rolling into traffic when parked on an incline, it is a good practice to turn the wheels as illustrated.
   - HEADED DOWNHILL WITH CURB ①:

     Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
   - HEADED UPHILL WITH CURB ②:

     Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.
   - HEADED UPHILL OR DOWNHILL, NO CURB ③:

     Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.
4. Place the ignition switch in the LOCK position.

POWER STEERING

⚠ WARNING

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.**
- **When the power steering warning light illuminates with the engine running, there will be no power assist for the steering. You will still have control of the vehicle but the steering will be harder to operate. Have the power steering system checked. It is recommended that you visit a NISSAN dealer for this service.**

The power steering system is designed to provide power assist while driving to operate the steering wheel with light force.

When the steering wheel is operated repeatedly or continuously while parking or driving at a very low speed, the power assist for the steering wheel will be reduced. This is to prevent overheating of the power steering system and protect it from getting damaged. While the power assist is reduced, steering wheel operation will become heavy. When the temperature of the power steering system goes down, the power assist level will return to normal. Avoid repeating such steering wheel operations that could cause the power steering system to overheat.

You may hear a sound when the steering wheel is operated quickly. However, this is not a malfunction.

If the power steering warning light illuminates while the engine is running, it may indicate the power steering system is not functioning properly and may need servicing. Have the power steering system checked. It is recommended that you visit a NISSAN dealer for this service.

When the power steering warning light illuminates with the engine running, there will be no power assist for the steering but you will still have control of the vehicle. At this time, greater steering effort is required to operate the steering wheel, especially in sharp turns and at low speeds.

For additional information, see "Power steering warning light" (P. 81).

BRAKE SYSTEM

BASIC INFORMATION

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

BRAKE PRECAUTIONS

Vacuum assisted brakes

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and stopping distance will be longer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will overheat the brakes, wear out the brake pads faster, and reduce gas mileage.

To help reduce brake wear and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

⚠ WARNING

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry the brakes, drive the vehicle at a safe speed while lightly pressing the brake pedal to heat up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

Parking brake break-in

Break in the parking brake shoes whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drums/rotors (if so equipped) are replaced, in order to assure the best braking performance.

This procedure is described in the vehicle service manual. It is recommended that you visit a NISSAN dealer for this service.

ANTI-LOCK BRAKING SYSTEM (ABS)

Basic Information

⚠ WARNING

- **The ABS is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.**
- **Tire type and condition may also affect braking effectiveness.**
  - **When replacing tires, install the specified size of tires on all four wheels.**
  - **When installing a spare tire, make sure that it is the proper size and type as specified on the Tire and Loading Information label. For additional information, see "Tire and Loading Information label" (P. 455).**
  - **For additional information, see "Wheels and tires" (P. 453).**

The ABS controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The Anti-lock Braking System will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

⚠ WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature

The Anti-lock Braking System (ABS) includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

Normal operation

The Anti-lock Braking System (ABS) operates at speeds above 3 - 6 mph (5 - 10 km/h). The speed varies according to road conditions.

When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

BRAKE ASSIST

When the force applied to the brake pedal exceeds a certain level, the Brake Assist is activated generating greater braking force than a conventional brake booster even with light pedal force.

⚠WARNING

The Brake Assist is only an aid to assist braking operation and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

BASIC INFORMATION

The VDC system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the VDC system helps to perform the following functions:

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a non-slipping drive wheel on the same axle.
- Controls brake pressure and engine output to reduce drive wheel slip based on vehicle speed (traction control function).
- Controls brake pressure at individual wheels and engine output to help the driver maintain control of the vehicle in the following conditions:
  - Understeer (vehicle tends to not follow the steered path despite increased steering input)
  - Oversteer (vehicle tends to spin due to certain road or driving conditions)

The VDC system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC system operates, the  indicator light in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.

- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC system is working properly.
- Adjust your speed and driving to the road conditions.

For additional information, see "Slip indicator light" (P. 82) and "Vehicle Dynamic Control (VDC) OFF indicator light" (P. 82).

If a malfunction occurs in the system, the indicator light comes on in the instrument panel. The VDC system automatically turns off when these indicator lights are on.

The vehicle information display, is used to turn off the VDC system. The indicator light, the AEB with Pedestrian Detection system warning light illuminate to indicate the VDC system is off.

When the vehicle information display, is used to turn off the system, the VDC system still operates to prevent one drive wheel from slipping by transferring power to a non-slipping drive wheel. The indicator light flashes if this occurs. All other VDC functions are off and the indicator light will not flash.

The VDC system is automatically reset to on when the ignition switch is placed in the OFF position then back to the ON position.

The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a clunk noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

⚠WARNING

- **The VDC system is designed to help the driver maintain stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**
- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the indicator light may flash or illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC system may not operate properly and the indicator light may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, the indicator light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the indicator light may flash or illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the indicator light may flash or illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the NISSAN recommended ones are used, the VDC system may not operate properly and the indicator light may flash or illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**

BRAKE FORCE DISTRIBUTION

During braking while driving through turns, the system optimizes the distribution of force to each of the front and rear wheels depending on the radius of the turn.

⚠WARNING

- **The VDC system is designed to help the driver maintain stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques.**

Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.

- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the indicator light may flash or illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC system may not operate properly and the indicator light may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, the indicator light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the indicator light may flash or illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the indicator light may flash or illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the NISSAN recommended ones are used, the VDC system may not operate properly and the indicator light may flash or illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**

CHASSIS CONTROL

BASIC INFORMATION

The chassis control is an electric control module that includes the following functions:

- Intelligent Trace Control

INTELLIGENT TRACE CONTROL (I-TC)

This system senses driving based on the driver's steering and acceleration/braking patterns, and controls brake pressure at individual wheels to aid tracing at corners and help smooth vehicle response.

The Intelligent Trace Control (I-TC) can be set to ON (enabled) or OFF (disabled) using the "Driver Assistance" settings in the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

When the Vehicle Dynamic Control (VDC) system is turned off, the Intelligent Trace Control (I-TC) is also turned off.

If the chassis control warning message appears in the vehicle information display, it may indicate that the Intelligent Trace Control (I-TC) is not functioning properly. Have the system checked as soon as possible. It is recommended that you visit a NISSAN dealer for the service. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

When the Intelligent Trace Control is not functioning properly, the master warning light illuminates, and the warning message "Chassis Control System Error" will also appear in the vehicle information display.

⚠WARNING

The Intelligent Trace Control (I-TC) may not be effective depending on the driving condition. Always drive carefully and attentively.

When the Intelligent Trace Control (I-TC) is operating, you may feel a pulsation in the brake pedal and hear a noise. This is normal and indicates that the Intelligent Trace Control (I-TC) is operating properly.

You may also feel deceleration when the Intelligent Trace Control (I-TC) is operating. However, this is not a malfunction.

HILL START ASSIST

⚠WARNING

- **Never rely solely on the hill start assist system to prevent the vehicle from moving backward on a hill. Always drive carefully and attentively. Depress the brake pedal when the vehicle is stopped on a steep hill. Be especially careful when stopped on a hill on frozen or muddy roads. Failure to prevent the vehicle from rolling backwards may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill start assist system is not designed to hold the vehicle at a standstill on a hill. Depress the brake pedal when the vehicle is stopped on a steep hill. Failure to do so may cause the vehicle to roll backwards and may result in a collision or serious personal injury.**
- **The hill start assist may not prevent the vehicle from rolling backwards on a hill under all load or road conditions. Always be prepared to depress the brake pedal to prevent the vehicle from rolling backwards. Failure to do so may result in a collision or serious personal injury.**

The hill start assist system automatically keeps the brakes applied to help prevent the vehicle from rolling backwards in the time it takes the driver to release the brake pedal and apply the accelerator when the vehicle is stopped on a hill.

The hill start assist system will operate automatically under the following conditions:

- The transmission is shifted to a forward or reverse gear.
- The vehicle is stopped completely on a hill by applying the brake.

The maximum holding time is 2 seconds. After 2 seconds the vehicle will begin to roll back and the hill start assist system will stop operating completely.

The hill start assist system will not operate when the transmission is shifted to the N (Neutral) or P (Park) position or on a flat and level road.

When the Vehicle Dynamic Control (VDC) indicator light illuminates in the meter, the hill start assist system will not operate. For additional information, see "Vehicle Dynamic Control (VDC) OFF indicator light" (P. 82).

HILL DESCENT CONTROL SYSTEM (if so equipped)

BASIC INFORMATION

⚠ WARNING

- **Never rely solely on the hill descent control system to control vehicle speed when driving on steep downhill grades. Always drive carefully when using the hill descent control system and decelerate the vehicle speed by depressing the brake pedal if necessary. Be especially careful when driving on frozen, muddy or extremely steep downhill roads. Failure to control vehicle speed may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill descent control system may not control the vehicle speed on a hill under all load or road conditions. Always be prepared to depress the brake pedal to control vehicle speed. Failure to do so may result in a collision or serious personal injury.**

⚠ CAUTION

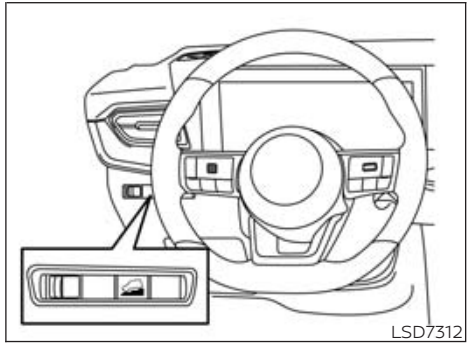
When the hill descent control system operates continuously for a long time, the temperature of the Vehicle Dynamic Control (VDC) system actuator may increase and the hill descent control system may be temporarily disabled (the hill descent control system on indicator light will blink). If the indicator light does not come on continuously after blinking, stop using the system.

When the hill descent control system is activated, it automatically applies smooth brakes to control speed on a steep and slippery descent or off the road without brake or accelerator operation.

The hill descent control system helps maintain vehicle speed when driving under 15 mph (25 km/h) on a steep descent that engine braking alone in All-Wheel Drive (AWD) mode cannot control the speed.

When driving forward on the descent, the speed can be adjusted by the brake or accelerator operation. The system maintains the speed for reverse driving on the descent.

HILL DESCENT CONTROL SWITCH (if so equipped)



When additional braking is required on steep downhill roads, activate the hill descent control system by pushing the hill descent control switch on.

When the hill descent control system is activated, the hill descent control system on indicator light on the meter will illuminate. For additional information, see "Hill descent control system ON indicator light" (P. 78). Also, the stop/tail lights illuminate while the hill descent control system is applying the brakes to control the vehicle speed.

The hill descent control system is designed to reduce driver workload when going down steep hills. The hill descent control system helps to control vehicle speed so the driver can concentrate on steering the vehicle.

To activate the hill descent control system, satisfy all of the following conditions:

- Shift the transmission to the forward or reverse gear.
- Turn the Drive Mode Selector to the OFF-ROAD or SNOW mode and drive the vehicle at a speed under 15 mph (25 km/h).
- Push the hill descent control switch to the ON position.

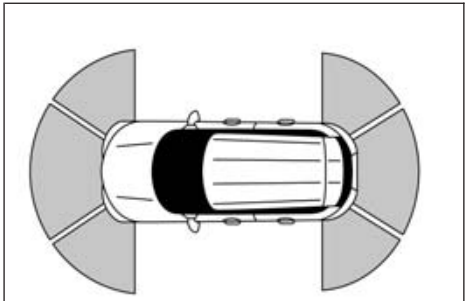
If the accelerator or brake pedal is depressed while the hill descent control system is on, the system will stop operating temporarily. As soon as the accelerator or brake pedal is released, the hill descent control system begins to function again if the hill descent control operating conditions are fulfilled.

The hill descent control system on indicator light on the meter blinks if the hill descent control switch is on and all conditions for system activation are not met, or if the system becomes disengaged for any reason.

To turn off the hill descent control system, push the hill descent control switch to the OFF position.

FRONT AND REAR SONAR SYSTEM (if so equipped)

BASIC INFORMATION



LSD4335

The sonar system sounds a tone to inform the driver of obstacles around the vehicle using the sonar sensors located in the front and rear bumpers.

When the sonar system is turned on, the sonar view will automatically appear in the vehicle information display.

⚠WARNING

- **The sonar system is a convenience but it is not a substitute for proper parking.**
- **The driver is always responsible for safety during parking and other maneuvers. Always look around and check that it is safe to do so before parking.**
- **Read and understand the limitations of the sonar system as contained in this section. The colors of the corner sonar indicator indicate different distances to the object.**
- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed-air brakes or a pneumatic drill may affect the function of the system; this may include reduced performance or a false activation.**
- **The sonar system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle.**
- **The sonar system is not designed to prevent contact with small or moving objects. Always move slowly. The system will not detect small objects below the bumper, and may not detect objects close to the bumper or on the ground.**
- **The sonar system may not detect the following objects: fluffy objects such as snow, cloth, cotton, glass-wool, etc.; thin objects such as rope, wire and chain, etc.; or wedge-shaped objects.**

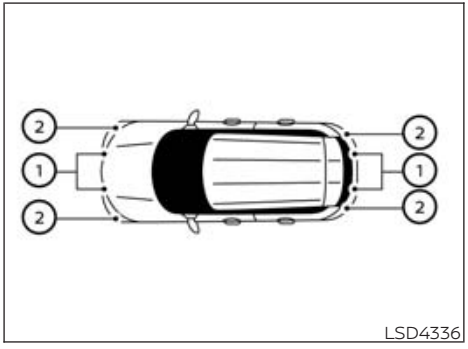
- **The front and rear sonar detect the distance between the vehicle and the obstacle by detecting the sound wave reflected from the surface of an obstacle. When there is a sound such a horn, or an ultrasonic source (such as sonar of other vehicles) around the vehicle, the sonar may not detect objects properly.**

If your vehicle sustains damage to the bumper fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.

⚠CAUTION

- **Excessive noise (such as audio system volume or an open vehicle window) will interfere with the tone and it may not be heard.**
- **Keep the sonar sensors (located on the bumper fascia) free from snow, ice and large accumulations of dirt. Do not clean the sensors with sharp objects. If the sensors are covered, the accuracy of the sonar function will be diminished.**

SYSTEM OPERATION



① Center sonar sensors
② Corner sonar sensors

The system informs with a visual and audible alert of:

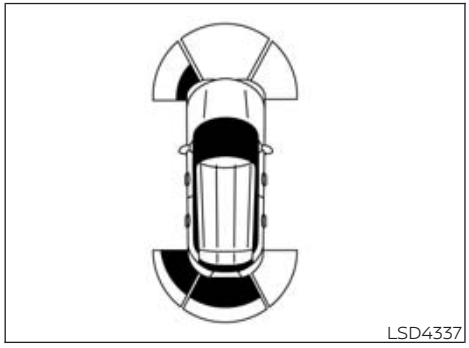
- front obstacles when the shift lever is in the D (Drive) position
- front and rear obstacles when the shift lever is in the R (Reverse) position

How the system alerts of obstacles:

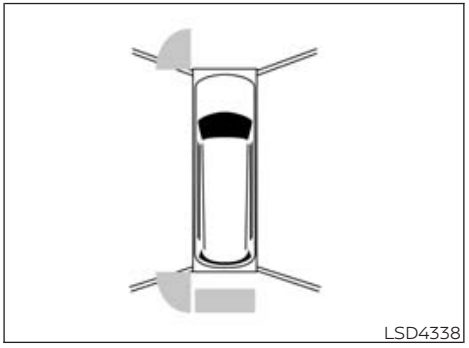
The system is deactivated at speeds above 6 mph (10 km/h). It is reactivated at lower speeds.

The intermittent tone will stop after several seconds when the obstacle is identified only with the center sensor. The tone will stop when the obstacle gets away from the vehicle.

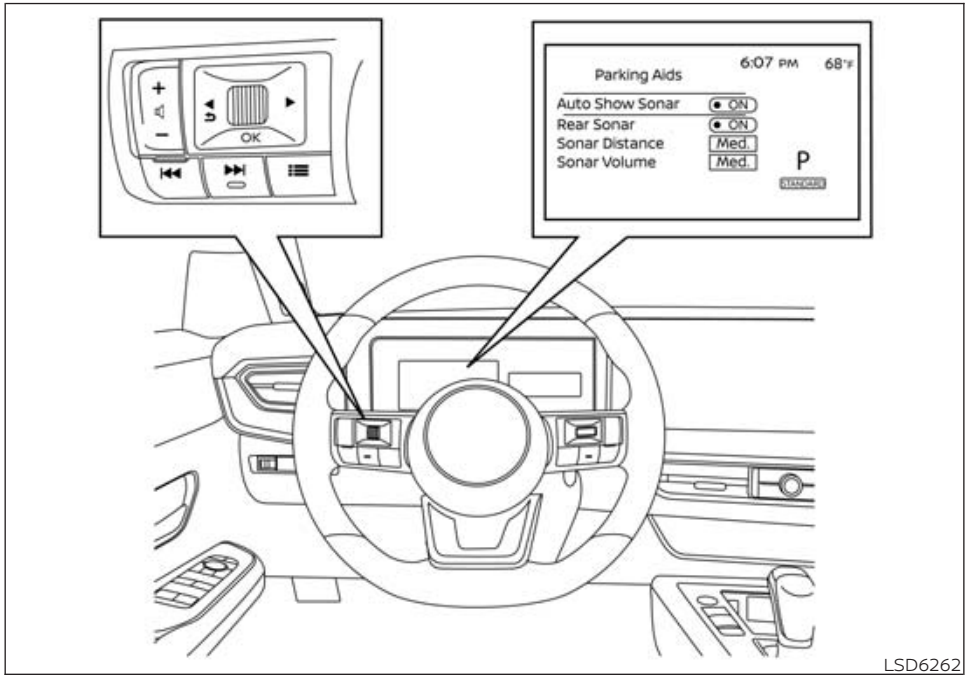
When the object is detected, the indicator (green) appears and blinks and the tone sounds intermittently. When the vehicle moves closer to the object, the color of the indicator turns yellow and the rate of the blinking increases. When the vehicle is very close to the object, the indicator stops blinking and turns red, and the tone sounds continuously.


LSD4337

When the vehicle moves closer to an obstacle, the sonar indicator (detected area) appears in the vehicle information display.


LSD4338

The sonar indicator also appears on the camera view of the center display.



For vehicles with the 7 inch (18 cm) display

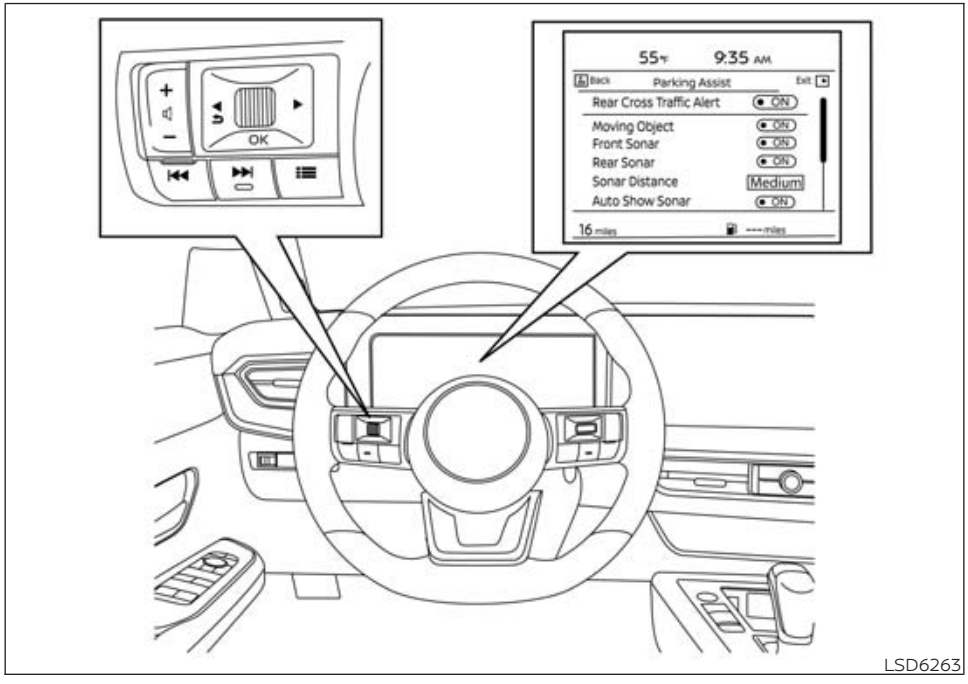
HOW TO ENABLE/DISABLE THE FRONT AND REAR SONAR SYSTEM

The system is automatically activated when the push button ignition switch is placed in the ON position and the shift lever is in the R (Reverse) position.

Perform the following steps to enable or disable the sonar system:

For vehicles equipped with 7 inch (18 cm) display:

1. Press the ◀▶ button until "Settings" appears in the vehicle information display and then press OK. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Parking Aids" and press the OK button.
   - Select "Auto Show Sonar" and press the OK button to turn on or off the option to automatically display the sonar when activated.
   - Select "Rear Sonar" and press the OK button to turn the rear sonar sensors only on or off.
   - Select "Sonar Distance" to change the sonar system distance to "Long," Medium" or "Short."
   - Select "Sonar Volume" to change the sonar system volume to "High," "Medium" or "Low."



For vehicles with the 12.3 inch (31.2 cm) display

For vehicles equipped with 12.3 inch (31.2 cm) display:

1. Press the ◀▶ button until "Settings" appears in the vehicle information display and then press OK. Use the scroll dial to select "Driver Assistance." Then press the OK button.
2. Select "Parking Assist" and press the OK button.
   - Select "Auto Show Sonar" and press the OK button to turn on or off the option to automatically display the sonar when activated.
   - Select "Front Sonar" and press the OK button to turn the front sonar sensors only on or off.
   - Select "Rear Sonar" and press the OK button to turn the rear sonar sensors only on or off.
   - Select "Sonar Distance" to change the sonar system distance to "Long," Medium" or "Short."
   - Select "Sonar Volume" to change the sonar system volume to "High," "Medium" or "Low."

NOTE:

When enabling/disabling the system, the system will retain current setting even if the engine is restarted.

SONAR LIMITATIONS

⚠ WARNING

Listed below are the system limitations for the sonar system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Read and understand the limitations of the sonar system as contained in this section. Inclement weather may affect the function of the sonar system; this may include reduced performance or a false activation.**
- **The sonar system is deactivated at speeds above 6 mph (10 km/h). It is reactivated at lower speeds.**
- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed-air brakes or a pneumatic drill may affect the function of the system; this may include reduced performance or a false activation.**
- **The sonar system is not designed to prevent contact with small or moving objects. Always move slowly. The system will not detect small objects below the bumper or on the ground.**
- **The sonar system may not detect the following objects: fluffy objects such as snow, cloth, cotton, glass-wool, etc.; thin objects such as rope, wire and chain, etc.; or wedge-shaped objects; complex-shaped objects or multiple objects in close.**
- **The sonar system may not detect objects at speeds above 3 mph (5 km/h) and may not detect certain angular or moving objects.**
- **The sonar system may not operate in the following conditions:**
  - **When rain, snow, ice, dirt, etc. adheres to the sonar.**
  - **When a loud sound is heard in the area around the vehicle.**
  - **When the surface of the obstacle is diagonal to the front or rear of the vehicle.**
  - **When a sonar or the area around the sensor is extremely hot or cold.**
- **The sonar system may unintentionally operate in the following conditions:**
  - **When there is overgrown grass in the area around the vehicle.**
  - **When there are bumps, protrusions or manhole covers on the road surface.**
  - **When the vehicle drives through a draped flag or a curtain.**
  - **When there is an accumulation of snow or ice behind the vehicle.**
  - **When driving on a steep hill.**

SYSTEM TEMPORARILY UNAVAILABLE

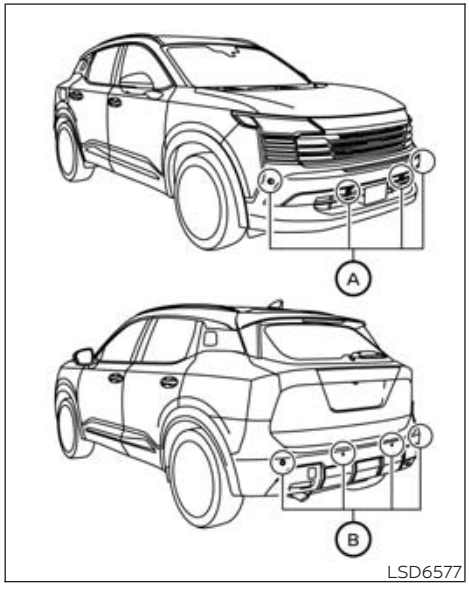
When sonar blockage is detected, the system will be deactivated automatically.

The system is not available until the conditions no longer exist.

The sonar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the sonar sensors.

Action to take:

When the above conditions no longer exist, the system will resume automatically.



The sonar sensors Ⓐ and Ⓑ are located on the front and rear bumpers.

- Always keep the area near the sonar sensors clean.
- If the sonar sensors are dirty, wipe them off with a soft cloth while being careful to not damage them.
- The sonar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the sonar sensors. Check for and remove objects obstructing the area around the sonar sensors.
- Do not subject the area around the sonar sensors to strong impact. Also, do not remove or disassemble the sonar sensors. If the sonar sensors and peripheral areas are deformed in an accident, etc., have the sonar sensors checked by a NISSAN dealer.
- Do not attach stickers (including transparent material), install accessories or apply additional paint on the sonar sensors and their surrounding areas. This may cause a malfunction or improper operation.
- When washing the vehicle using a high-pressure washer, do not apply direct washer pressure on the sonar sensors. This may cause a malfunction of the sonar sensors.

IDLING STOP SYSTEM (if so equipped)

BASIC INFORMATION

The Idling Stop System activates to prevent unnecessary fuel consumption, exhaust emissions and noise.

- When you stop the vehicle, the engine is turned off automatically.
- When you release the brake pedal to begin moving again, the engine is turned on automatically.

⚠WARNING

The engine restarts if the vehicle moves at approximately 1 mph (2 km/h) or more (on a downhill grade, etc.) while the engine is turned off by the Idling Stop System. Depress the brake pedal immediately to stop the vehicle to prevent an accident.

⚠CAUTION

At the end of the journey the engine must be stopped and ignition switch be pushed off. Lock the vehicle as normal. Pushing the ignition switch off will shut down all electrical systems. Failure to do this may result in a discharged battery.

NOTE:

The Idling Stop System will not activate under the following conditions:

- **When the engine is kept idling without the vehicle being driven after the engine is turned on.**
- **When the engine coolant temperature is low.**
- **When the battery capacity is low.**
- **When the battery temperature is low or extremely high.**
- **When the vehicle is moving.**
- **When a negative pressure booster decreases.**
- **When the engine hood is opened with the engine running.**
- **When the engine is turned on with the engine hood open.**
- **When the driver's seat belt is not fastened.**
- **When the driver's door is open.**
- **When the steering wheel is operated or when the steering wheel angle is more than 180° for both directions.**
- **When the Idling Stop System indicator blinks at a low speed.**
- **When the fan speed control is in any position other than "OFF," (0) while the air flow control is in the front defroster position.**
- **When the front defroster switch is on.**
- **When the rear window defroster switch is on.**
- **When the temperature inside the vehicle is lower than approximately 59°F (15°C), unless the ECO driving mode is on.**
- **When the temperature inside the vehicle is higher than approximately 90°F (32°C), unless the ECO driving mode is on. (When the air conditioner is off, the Idling Stop System will operate.)**
- **When the fan speed of the air conditioner is set to the maximum speed, unless the Air Conditioning ECO customize option is selected, and the ECO driving mode is on.**
- **When the Idling Stop OFF switch is turned on.**
- **When the power consumption is large.**
- **When the altitude is high.**
- **When the accelerator pedal is depressed.**
- **When the shift lever is in any range other than D (Drive).**
- **When the brake pedal is not firmly depressed.**
- **When stopping the vehicle on steep sloping roads.**

NOTE:

The Idling Stop System may not activate when the Intelligent Key is not in the vehicle and you open/close any door.

The engine will not restart even if the brake pedal is released while the Idling Stop System is activated under the following conditions: (The engine may restart under other conditions.)

- **When the automatic brake hold system is activated.**
- **When the engine hood is opened.**

NOTE:

It may take some time until the Idling Stop System activates under the following conditions:

- **When the battery is discharged.**
- **When the outside temperature is low or high.**
- **When the battery is replaced or the battery terminal is disconnected for extended periods and then reconnected.**

NOTE:

When the Idling Stop System indicator light illuminates, the engine starts running automatically under at least one of the following conditions:

- **The vacuum pressure for the brake system is not enough as the brake pedal is repeatedly depressed.**
- **The driver's seat belt is unfastened, or the driver's door is open.**
- **The battery voltage becomes low (due to electrical load from other vehicle systems like headlights, heaters, etc., or auxiliary devices connected to the 12 volt socket inside the vehicle).**
- **The vehicle speed is above about 1 mph (2 km/h).**
- **When the rear window defroster is operated.**

- **When the temperature inside the vehicle is lower than approximately 59°F (15°C), unless the ECO driving mode is on.**
- **When the temperature inside the vehicle is higher than approximately 90°F (32°C), unless the ECO driving mode is on. (When the air conditioner is off, the Idling Stop System will operate.)**
- **When the front defroster is turned on.**
- **When more than 3 minutes have elapsed since the Idling Stop System was active.**
- **When the accelerator pedal is depressed.**
- **When the steering wheel is operated. (The steering wheel operation may become heavy, but this is not a malfunction.)**
- **When the battery capacity is low.**
- **When the power consumption is high.**
- **When the shift lever is in any range other than D (Drive).**
- **When the Idling Stop OFF switch is pushed.**
- **When the negative pressure of the brake system is not sufficiently applied by depressing the brake pedal several times.**

NOTE:

The Idling Stop System may not activate when the Intelligent Key is not in the vehicle and you open/close any door.

NOTE:

The following condition will prevent the Idling Stop System from automatically restarting the engine. Starting the engine with the ignition switch operation is then necessary:

- **The hood is open.**

Use this system while waiting at a stop light, etc. When the vehicle is stopped for long periods of time, turn off the engine.

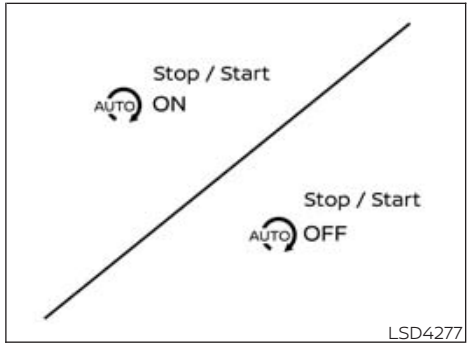
When the engine is stopped by the Idling Stop System, heating, cooling and dehumidifying functions will be deactivated. To avoid the air conditioning functions from being deactivated, turn off the Idling Stop System by pushing the Idling Stop OFF switch.

RETROGRADE MOVEMENT CONTROL FUNCTION

This system is designed to reduce the retrograde movement that occurs while the driver's foot changes from depressing the brake pedal to the accelerator pedal when moving the vehicle while the Idling Stop System is active on a hilly road.

IDLING STOP SYSTEM DISPLAY

The status of the Idling Stop System can be checked in the vehicle information display.



Idling Stop System ON or OFF

If the Idling Stop System is activated or deactivated using the Idling Stop OFF switch, the message is shown.

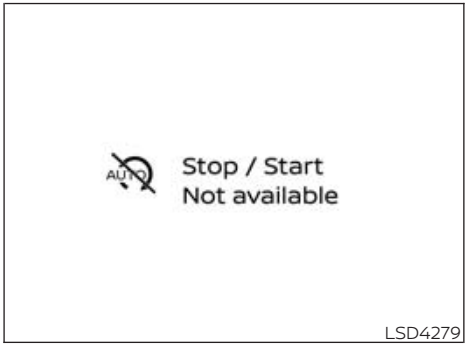


Fuel saved and engine stop time

The fuel saved and the engine stop time mode shows the following items:

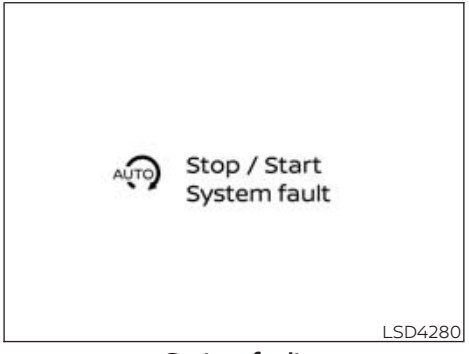
- The fuel saved shows the estimated quantity of fuel that was saved by the Idling Stop System every time the engine is automatically stopped.
- The engine stop time shows the time that the engine has been stopped for by the Idling Stop System.

The total fuel saved and the engine stop time can also be checked in the vehicle information display. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).



Auto start deactivation

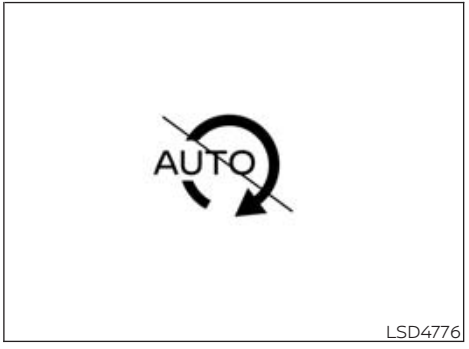
If the engine stops when the Idling Stop System is activated and will not start automatically, the message is shown.



System fault

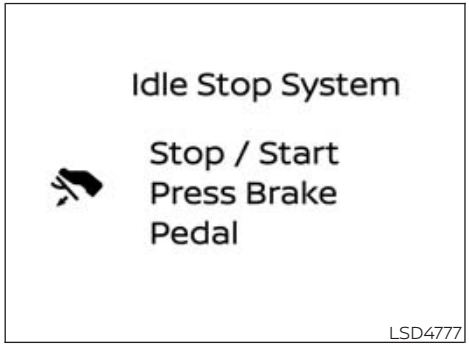
This message is displayed when the Idling Stop System is malfunctioning.

It is recommended that you have the system checked. It is recommended that you visit a NISSAN dealer for this service.



Idling Stop inhibition

This indicator is displayed when the vehicle is stopped if the engine is prevented from automatically stopping by the Idling Stop system under the inhibition conditions. For additional information, see "Idling Stop System" (P. 396).



Idling Stop guidance display (further depressing the brake pedal)

When the vehicle is stopped, and the ISS screen is shown in the vehicle information display, the guidance is displayed if the Idling Stop system is deactivated due to not fully depressing the brake pedal.

If you wish to activate the Idling Stop system, further depress the brake pedal. For additional information, see "Idling Stop System" (P. 396).

The display appears when Fuel saved and engine stop time is selected on the vehicle information display.

The display disappears under the following conditions:

- The Idling Stop system is activated.
- The vehicle starts running.



Idling Stop guidance display (detection of the steering operation)

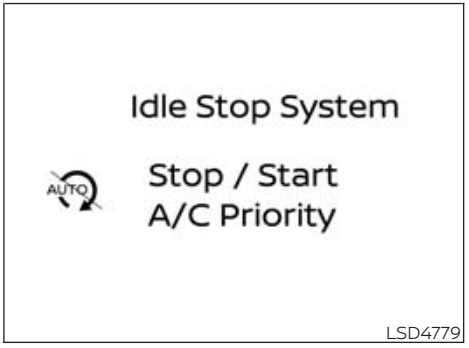
When the vehicle is stopped, and the ISS screen is shown in the vehicle information display, the guidance is displayed if the Idling Stop system is deactivated since the steering operation is detected.

The Idling Stop system is deactivated due to steering operation being detected. For additional information, see "Idling Stop System" (P. 396).

The display appears when Fuel saved and engine stop time is selected on the vehicle information display.

The display disappears under the following conditions:

- The Idling Stop system is activated.
- The vehicle starts running.



Idling Stop guidance display (placing priority on the air conditioner)

When the vehicle is stopped, and the ISS screen is shown in the vehicle information display, the guidance is displayed if the Idling Stop system is deactivated since the air conditioner (cooling, heating or dehumidifying functions) is given priority.

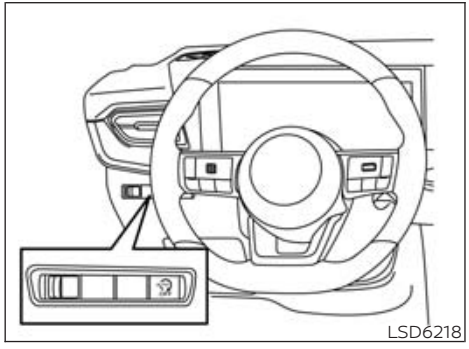
The Idling Stop system is deactivated since the air conditioner is given priority. For additional information, see "Idling Stop System" (P. 396).

The display appears when Fuel saved and engine stop time is selected on the vehicle information display.

The display disappears under the following conditions:

- The Idling Stop system is activated.
- The vehicle starts running.

IDLING STOP OFF SWITCH (if so equipped)



The system can be temporarily deactivated by pushing the Idling Stop OFF switch. Pushing the switch again or restarting the engine by using the ignition switch will reactivate the Idling Stop System.

- When the Idling Stop System is deactivated while the engine is running, the engine is prevented from automatically stopping.
- When the Idling Stop System is deactivated after the engine has been automatically stopped by the Idling Stop System, the engine will immediately restart if suitable conditions are present. The engine will then be prevented from automatically stopping during the same journey.

NOTE:

- **The Idling Stop System ON or OFF message is displayed for a few seconds in the vehicle information display when the Idling Stop System OFF switch is pushed. For additional information, see "Idling Stop System display" (P. 398).**
- **The Idling Stop System resets to ON every time the ignition switch is switched from the OFF position to the ON position.**

COLD WEATHER DRIVING

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply de-icer through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole or use the remote keyless entry function on the Intelligent Key.

ANTIFREEZE

In the winter when it is anticipated that the temperature will drop below 32°F (0°C), check the antifreeze to assure proper winter protection. For additional information, see "Engine cooling system" (P. 434).

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. This vehicle is equipped with a sealed maintenance free battery. It is recommended that you visit a NISSAN dealer for service.

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without antifreeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For additional information, see "Changing engine coolant" (P. 435).

TIRE EQUIPMENT

1. SUMMER tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, NISSAN recommends the use of MUD & SNOW or ALL SEASON TIRES on all four wheels. It is recommended that you visit a NISSAN dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, studded tires may be used. However, some states, provinces and territories prohibit their use. Check local laws before installing studded tires.

Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.
- Extra washer fluid to refill the windshield-washer fluid reservoir.

DRIVING ON SNOW OR ICE

⚠WARNING

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or "grip" under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.**
- **Do not use the cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

PARKING BRAKE

When parking in an area where the outside temperature is below 32°F (0°C), do not apply the parking brake to prevent it from freezing. For safe parking:

- Place the shift lever in the P (Park) position.
- Securely block the wheels.

ENGINE BLOCK HEATER (if so equipped)

Engine block heaters are used to assist with cold temperature starting.

The engine block heater should be used when the outside temperature is 20°F (-7°C) or lower.

⚠WARNING

- **Do not use your engine block heater with an ungrounded electrical system or a 2-pronged adapter. You can be seriously injured by an electrical shock if you use an ungrounded connection.**
- **Disconnect and properly store the engine block heater cord before starting the engine. Damage to the cord could result in an electrical shock and can cause serious injury.**
- **Use a heavy-duty 3-wire, 3-pronged extension cord rated for at least 10 A. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-VAC outlet. Failure to use the proper extension cord or a grounded outlet**

can result in a fire or electrical shock and cause serious personal injury.

To use the engine block heater:

1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3-wire, 3-pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater must be plugged in for at least 2 - 4 hours, depending on outside temperatures, to properly warm the engine coolant. Use an appropriate timer to turn the engine block heater on.
6. Before starting the engine, unplug and properly store the cord to keep it away from moving parts.

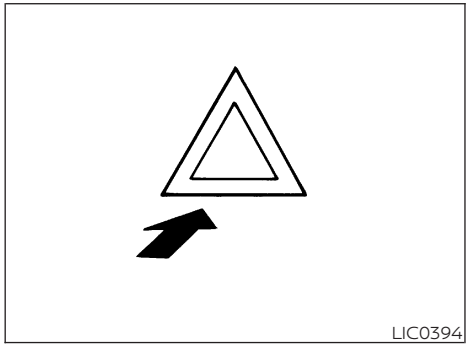
MEMO

6 In case of emergency

Hazard warning flasher switch 406
Emergency engine shut off 406
Flat tire 407
- Tire Pressure Monitoring System (TPMS) 407
- Changing a flat tire (models with spare tire) 408
- Repairing a flat tire (models with emergency tire puncture repair kit) 411

Jump starting 416
Push starting 418
If your vehicle overheats 418
Towing your vehicle 419
- Basic information 419
- Towing recommended by NISSAN 419
- Vehicle recovery (freeing a stuck vehicle) 421

HAZARD WARNING FLASHER SWITCH



Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights flash.

⚠ WARNING

- **If stopping for an emergency, be sure to move the vehicle well off the road.**
- **Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signals do not work when the hazard warning flasher lights are on.**

The flashers will operate with the ignition switch placed in any position.

Some jurisdictions may prohibit the use of the hazard warning flasher switch while driving.

NOTE:

In the event of a crash involving an air bag deployment (side, front or both), the vehicle's hazard lamps (turn indicators) will turn ON automatically.

EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving, perform the following procedure:

- Rapidly push the push-button ignition switch three consecutive times in less than 1.5 seconds, or
- Push and hold the push-button ignition switch for more than 2 seconds.

FLAT TIRE

TIRE PRESSURE MONITORING SYSTEM (TPMS)

This vehicle is equipped with the TPMS. It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit and the "CHECK TIRE PRES" (vehicles without a vehicle information display) or the "Tire Pressure Low — Add Air" (vehicles with a vehicle information display) warning appears in the vehicle information display, one or more of your tires is significantly under-inflated. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 16 mph (25 km/h). For additional information, see "Warning lights, indicator lights and audible reminders" (P. 73), and "Tire Pressure Monitoring System (TPMS)" (P. 230).

⚠ WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with underinflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat or the TPMS may be malfunctioning. If you have a flat tire, replace it with a spare tire (if so equipped) or repair it with the emergency tire puncture repair kit (if so equipped) as soon as possible. If no tire is flat and all tires are properly inflated, have the vehicle checked. it is recommended that you visit a NISSAN dealer for this service.**
- **When using a wheel without the TPMS such as the spare tire, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended that you visit a NISSAN dealer for these services.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **The Genuine NISSAN Emergency Tire Repair Sealant (if so equipped) or equivalent can be used for temporarily repairing a tire. Do not inject any other tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**
- **To help avoid serious personal injury or death, when checking your tire pressure, either as part of routine maintenance or because of a TPMS alert, please check the pressure in all of your tires. Driving on underinflated tires can cause tire failure and interfere with the proper operation of other vehicle systems.**

CHANGING A FLAT TIRE (models with spare tire)

Basic information

If you have a flat tire, follow the instructions in this section.

NOTE:

For models with the emergency tire puncture repair kit, a spare tire, jack and rod are not equipped as standard.

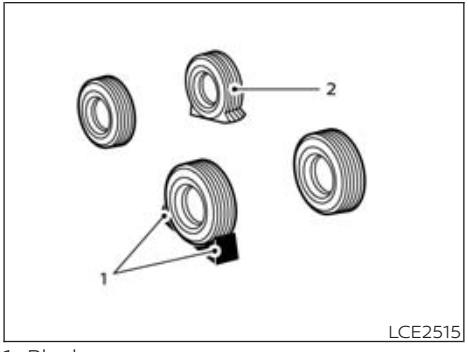
Stopping the vehicle

1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Move the shift lever to P (Park).
4. Turn off the engine.
5. Raise the hood to warn other traffic and to signal professional road assistance personnel that you need assistance.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

⚠WARNING

- **Make sure the parking brake is securely applied and the Continuously Variable Transmission (CVT) is shifted into P (Park).**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**

Blocking wheels



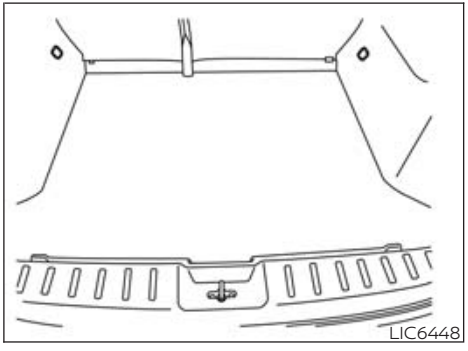
1. Blocks
2. Flat tire

Place suitable blocks at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from moving when it is jacked up.

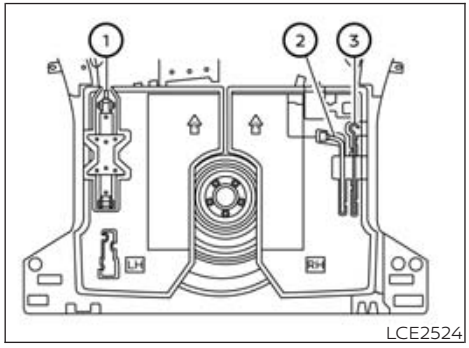
⚠WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.

Getting the spare tire and tools

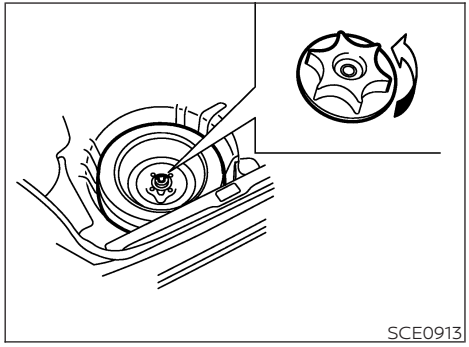


1. Open the liftgate.
2. Lift the luggage board to access the spare tire.
3. Carefully remove the wheel cover to avoid potential damage to the side trim.



LCE2524

4. Remove the jack ①, wheel nut wrench ②, and jacking rod ③ from the storage cover.
5. Remove the storage cover to access the spare tire.

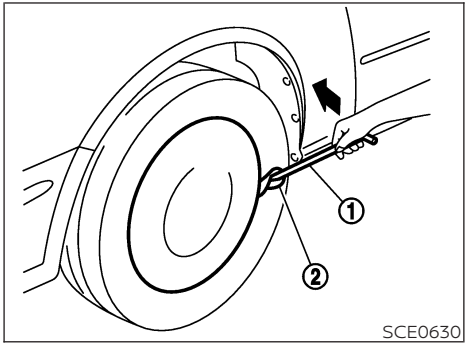

SCE0913

6. To loosen the bolt, turn counterclockwise.
7. Once loosened remove the bolt and remove the spare tire.

⚠CAUTION

Do not touch floor metal directly. Doing so could result in any burns.

Removing wheel cover (if so equipped)



SCE0630

⚠CAUTION

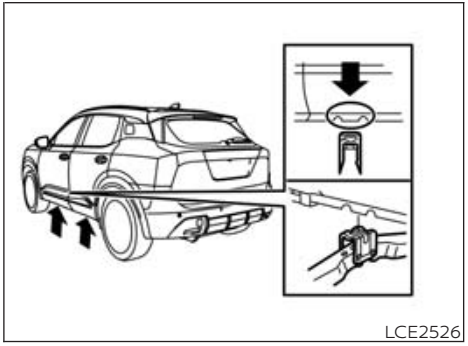
Do not use your hands to pry off wheel caps or wheel covers. Doing so could result in personal injury.

To remove the wheel cover, use the jack rod ① as illustrated.

Apply cloth ② between the wheel and jack rod to prevent damaging the wheel and wheel cover.

Use caution not to scratch the wheel cover or wheel surface.

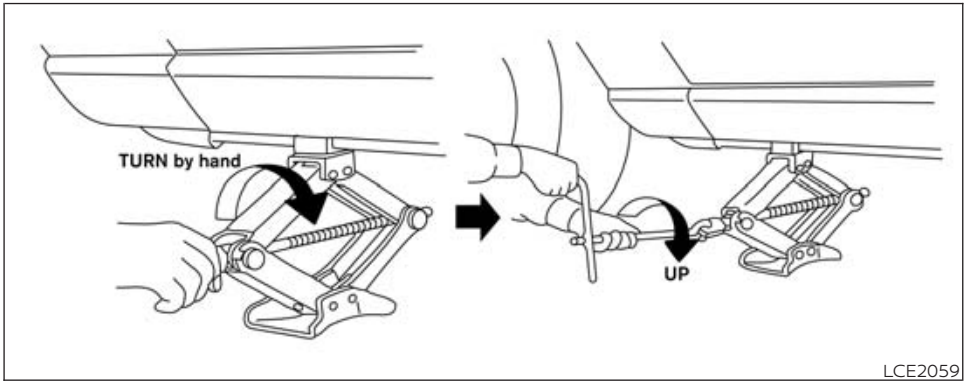
Jacking up vehicle and removing the damaged tire


LCE2526

⚠WARNING

- **Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.**

- **Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed for lifting only your vehicle during a tire change.**
- **Use the correct jack-up points. Never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run the engine while vehicle is on the jack. It may cause the vehicle to move. This is especially true for vehicles with limited slip differentials.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**
- **Never run the engine with a wheel(s) off the ground. It may cause the vehicle to move.**



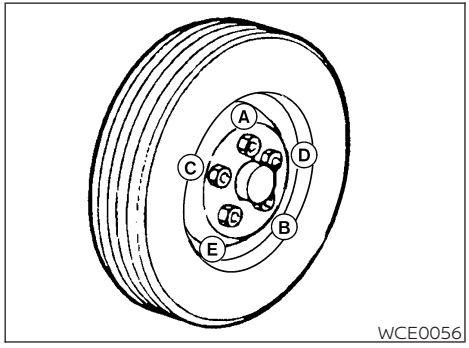
Always refer to the proper illustrations for the correct placement and jack-up points for your specific vehicle model and jack type.

Carefully read the caution label attached to the jack body and the following instructions.

1. Loosen each wheel nut 1 or 2 turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**
2. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the vehicle at the jack-up point. Align the jack head between the 2 notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

   The jack should be used on firm and level ground.
3. To lift the vehicle, securely hold the jack lever and rod with both hands. Carefully raise the vehicle until the tire clears the ground. Remove the wheel nuts, and then remove the tire.

Installing the spare tire



WCE0056

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the spare tire on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ, Ⓔ) until they are tight.
4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ, Ⓔ). Lower the vehicle completely.

⚠WARNING

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:
83 ft-lb (113 N·m)

The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to specification at each lubrication interval.

Adjust tire pressure to the COLD pressure.

COLD pressure: After vehicle has been parked for 3 hours or more or driven less than 1 mile (1.6 km).

COLD tire pressures are shown on the Tire and Loading Information label.

5. Securely store the jack and the tool kit in its storage area.
6. Place the spare tire cover and liftgate floor carpeting over the jack and tool kit.
7. Securely store the damaged tire in the vehicle.
8. Close the liftgate.

⚠WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **The spare tire is designed for emergency use. For additional information, see "Wheels and tires" (P. 453).**

REPAIRING A FLAT TIRE (models with emergency tire puncture repair kit)

Basic information

⚠WARNING

- **After using Genuine NISSAN Emergency Tire Sealant to repair a minor tire puncture, do not drive the vehicle at speeds faster than 50 mph (80 km/h).**
- **Immediately after using the Genuine NISSAN Emergency Tire Sealant to repair a minor tire puncture, it is recommended that you visit a NISSAN dealer. The Genuine NISSAN Emergency Tire Sealant cannot permanently seal a punctured tire. Continuing operation of**

the vehicle without a permanent tire repair can lead to a crash.

- **If you used the Genuine NISSAN Emergency Tire Sealant to repair a minor tire puncture, it is recommended that you visit a NISSAN dealer to replace the TPMS sensor in addition to repairing or replacing the tire.**
- **NISSAN recommends using only Genuine NISSAN Emergency Tire Sealant provided with your vehicle. Other tire sealants may damage the valve stem seal which can cause the tire to lose air pressure.**

This vehicle does not have a spare tire. The emergency tire puncture repair kit (Genuine NISSAN Emergency Tire Sealant) is supplied with the vehicle instead of a spare tire. It can be used to temporarily repair minor tire punctures.

If possible, have the vehicle towed to a facility that can repair or replace the flat tire. Using the emergency tire puncture repair kit may cause a malfunction of the tire pressure sensor and cause the low tire pressure warning light to illuminate.

⚠CAUTION

- **To avoid the emergency tire puncture kit being damaged during storage or use:**
  - **Only use the emergency tire puncture repair kit on your vehicle. Do not use it on other vehicles.**
  - **Only use the kit to inflate the tires of your vehicle and to check the vehicle's tire pressure.**
  - **Only plug the compressor into a 12-volt DC car power point.**
  - **Keep the kit free of water and dirt.**
  - **Do not disassemble or modify the kit.**
  - **Do not drop the kit or allow hard impacts to the kit.**
- **Do not use the emergency tire puncture repair kit under the following conditions. It is recommended that you visit a NISSAN dealer or professional road assistance.**
  - **when the sealant has passed its expiration date (shown on the label attached to the bottle)**
  - **when the cut or the puncture is approximately 0.25 in (6 mm) or longer**
  - **when the tire sidewall is damaged**
  - **when the vehicle has been driven with extremely low tire pressure**
  - **when the tire has come off the inside or the outside of the wheel**
  - **when the tire wheel is damaged**
  - **when two or more tires are flat**

If you have a flat tire, follow the instructions in this section.

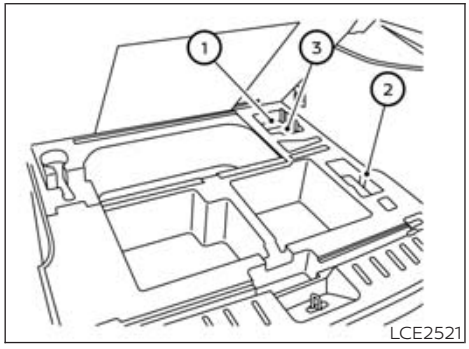
Stopping the vehicle

1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Move the shift lever to P (Park).
4. Turn off the engine.
5. Raise the hood to warn other traffic and to signal professional road assistance personnel that you need assistance.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

⚠WARNING

- **Make sure the parking brake is securely applied and the Continuously Variable Transmission (CVT) is shifted into P (Park).**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**

Getting emergency tire puncture repair kit



Take out the emergency tire puncture repair kit located in the cargo area. The repair kit consists of the following items:

① Air compressor*

② Tire sealant bottle

③ Speed restriction sticker

* The compressor shape may differ depending on the models.

NOTE:

For models with the emergency tire puncture repair kit, a spare tire, jack and rod are not equipped as standard.

Before using emergency tire puncture repair kit

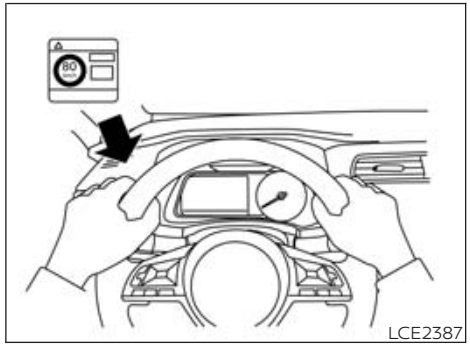
- If any foreign object (for example, a screw or nail) is embedded in the tire, do not remove it.
- Check the expiration date of the sealant (shown on the label attached to the bottle). Never use a sealant whose expiration date has passed.

Repairing tire

⚠WARNING

Observe the following precautions when using the tire repair compound.

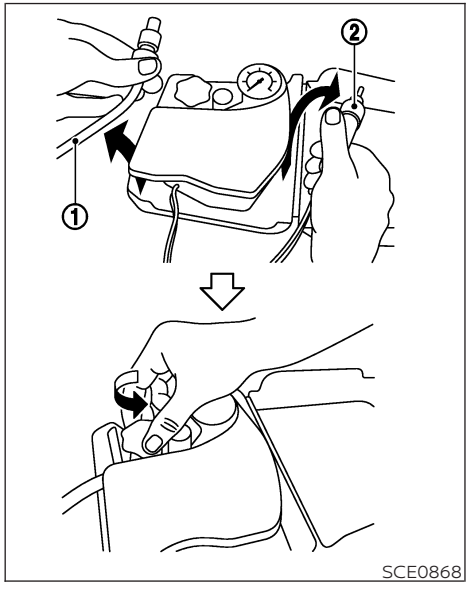
- **Swallowing the compound is dangerous. Immediately drink as much water as possible and seek prompt medical assistance.**
- **Rinse well with lots of water if the compound comes into contact with skin or eyes. If irritation persists, seek prompt medical attention.**
- **Keep the repair compound out of the reach of children.**
- **The emergency repair compound may cause a malfunction of the tire pressure sensors and cause the low tire pressure warning light to illuminate. Have the tire pressure sensor replaced as soon as possible.**



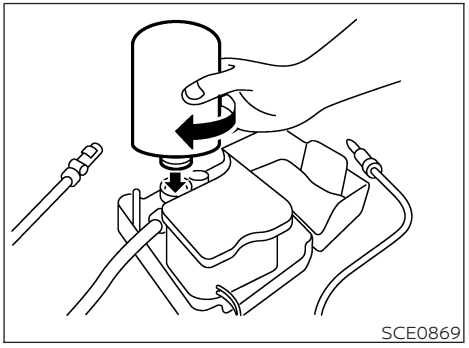
1. Take out the speed restriction sticker from the air compressor, then put it in a location where the driver can see it while driving.

⚠CAUTION

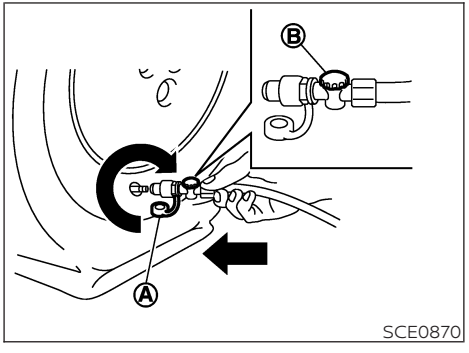
Do not put the speed restriction label on the steering wheel pad, the speedometer or the warning light locations.



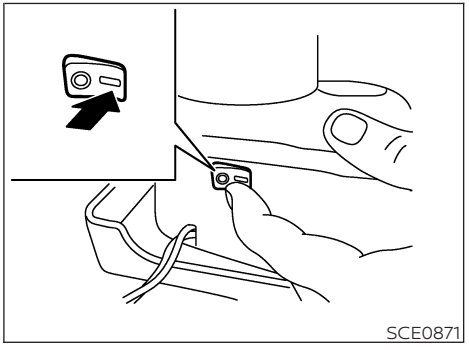
2. Take the hose ① and the power plug ② out of the air compressor. Remove the cap of the bottle holder from the air compressor.



3. Remove the cap from the tire sealant bottle. Leave the bottle seal intact. Screw the bottle clockwise into the bottle holder to pierce the seal of the bottle.
4. Remove the cap from the tire valve on the flat tire.



5. Remove the protective cap Ⓐ of the hose and screw the hose securely onto the tire valve. Make sure that the pressure release valve Ⓑ is securely tightened. Make sure that the air compressor switch is in the OFF (O) position, and then insert the power plug into the power outlet in the vehicle.



6. Push the power switch to the ACC position. Then turn the compressor switch to the ON (–) position and inflate the tire up to the pressure that is specified on the Tire and Loading Information label affixed to the driver's side center pillar if possible, or to the minimum of 26 psi (180 kPa). Turn the air compressor off briefly in order to check the tire pressure with the pressure gauge.

   If the tire is inflated to higher than the specified pressure, lower the tire pressure by releasing air with the pressure release valve.

NOTE:
The compressor tire pressure gauge may show a pressure reading of 87 psi (600 kPa) for about 30 seconds while inflating the tire. The pressure gauge is indicating the pressure inside the sealant can. When the sealant has been injected into the tire the pressure gauge will drop and indicate actual tire pressure.

⚠ WARNING

To avoid serious personal injury while using the emergency tire puncture repair kit:

- **Securely tighten the compressor hose to the tire valve. Failure to do so can cause the sealant to spray into the air and get into your eyes or on the skin.**
- **Do not stand directly beside the damaged tire while it is being inflated because of the risk of the rupture. If there are any cracks or bumps, turn the compressor off immediately.**

If the tire pressure does not increase to **26 psi (180 kPa) within 10 minutes**, the tire may be seriously damaged and **the tire cannot be repaired with this tire repair kit.** It is recommended that you visit a NISSAN dealer.

7. When the tire pressure is at the specified amount, turn the air compressor off. If the tire cannot be inflated to the specified amount, the air compressor can be turned off at the minimum of 26 psi (180 kPa). Remove the power plug from the power outlet and quickly remove the hose from the tire valve. Attach the protective cap and valve cap. Properly stow the emergency tire puncture repair kit in the cargo area.

⚠ CAUTION

To avoid serious personal injury when stowing the emergency tire puncture repair kit:

- **Keep the sealant bottle screwed into the compressor. Failure to do so can cause the sealant to spray into the air and get into your eyes or on the skin.**

8. Immediately drive the vehicle for 10 minutes or 2 miles (3 km) at a speed below 50 mph (80 km/h).
9. After driving, make sure that the air compressor switch is in the OFF position, then screw the hose securely onto the tire valve. Check the tire pressure with the pressure gauge. Temporary repair is completed if the tire pressure does not drop.

   Make sure the pressure is adjusted to the pressure that is specified on the Tire and Loading Information label before driving.
10. If the tire pressure drops, repeat the steps from 5 to 9. If the pressure drops again or under 19 psi (130 kPa), **the tire cannot be repaired with this tire repair kit**. If the tire cannot be repaired, the driver should not drive on it any further. The car should be towed to the nearest dealership.

    The sealant bottle and hose cannot be reused to repair another punctured tire. It is recommended that you visit a NISSAN dealer to purchase replacements.

After tire repair

It is recommended that you visit a NISSAN dealer for tire repair/replacement as soon as possible.

⚠ WARNING

- **After using Genuine NISSAN Emergency Tire Sealant to repair a minor tire puncture, do not drive the vehicle at speeds faster than 50 mph (80 km/h).**
- **Immediately after using Genuine NISSAN Emergency Tire Sealant to repair a minor tire puncture, it is recommended that you visit a NISSAN dealer. The Genuine NISSAN Emergency Tire Sealant cannot permanently seal a punctured tire. Continuing operation of the vehicle without a permanent tire repair can lead to a crash.**

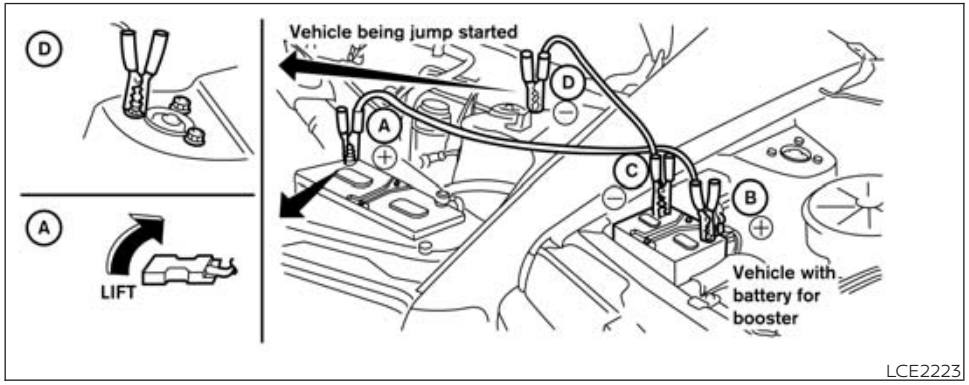
- **The Genuine NISSAN Emergency Tire Repair Sealant (if so equipped) or equivalent can be used for temporarily repairing a tire. Do not inject any other tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**
- **If you used the Genuine NISSAN Emergency Tire Sealant to repair a minor tire puncture, it is recommended that you visit a NISSAN dealer to replace the TPMS sensor in addition to repairing or replacing the tire.**
- **NISSAN recommends using only Genuine NISSAN Emergency Tire Sealant provided with your vehicle. Other tire sealants may damage the valve stem seal which can cause the tire to lose air pressure.**

JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

⚠ WARNING

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulfuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**
- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **The automatic engine cooling fan may come on at any time without warning, even if the ignition switch is in the OFF position and the engine is not running. To avoid injury, keep hands and other objects away from it.**



⚠ WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle, position the 2 vehicles to bring their batteries near each other.

   Do not allow the two vehicles to touch.
2. Apply the parking brake. Move the shift lever to P (Park). Switch off all unnecessary electrical systems (lights, heater, air conditioner, etc.).
3. Place the ignition switch to the LOCK or OFF position.
4. Connect the jumper cables in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ).

⚠ CAUTION

- **Always connect positive (+) to positive (+) and negative (–) to body ground (for example, strut mounting bolt, engine lift bracket, etc.) — not to the battery.**
- **Make sure the jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.**

5. Start the engine of the booster vehicle and let it run for a few minutes.
6. Keep the engine speed of the booster vehicle at about 2,000 rpm and start the engine of the vehicle being jump started.

⚠ CAUTION

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, place the ignition switch in the OFF position and wait 3 to 4 seconds before trying again.

7. After starting the engine, carefully disconnect the negative cable and then the positive cable.

PUSH STARTING

⚠CAUTION

- **Do not push start this vehicle. The three-way catalyst may be damaged.**
- **Continuously Variable Transmission (CVT) models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**

IF YOUR VEHICLE OVERHEATS

All NISSAN vehicles have engine protection mode, which helps reduce the chance of engine damage if the engine coolant reaches a specified temperature.

⚠WARNING

- **Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.**
- **To avoid the danger of being scalded, do not open the hood if steam is coming out.**
- **Never remove the radiator or coolant reservoir cap when the radiator is hot. If the cap is removed under these conditions, pressurized hot water/coolant may spurt out, possibly causing serious injury.**

If your vehicle is overheating (indicated by an extremely high temperature gauge reading and the Low Oil Pressure: See Owner's Manual warning message appears in the vehicle information display), or if you feel a lack of engine power, detect abnormal noise, etc. take the following steps:

1. Move the vehicle safely off the road, apply the parking brake and shift the transmission to the P (Park) position. Do not stop the engine.
2. Turn off the air conditioner. Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed. The heater core in your vehicle is just like a miniature engine radiator and will provide an extra cooling surface to help reduce engine temperature.
3. If the temperature does not drop or continues to increase stop the engine immediately.
4. Being cautious of traffic, step out of the vehicle and, from a safe distance, look and listen for steam or coolant escaping from the radiator or under the engine. If you see steam or leaking coolant stand clear to avoid being burned and shut off your engine immediately to allow it to cool. Do not open the hood until no steam or coolant can be seen.
5. Open the engine hood.

⚠WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

6. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking, the water pump belt is missing or loose, or the cooling fan does not run, stop the engine.

⚠WARNING

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time.

7. After the engine cools down, check the coolant level in the engine coolant reservoir tank with the engine running. Add coolant to the engine coolant reservoir tank if necessary. Have your vehicle repaired. It is recommended that you visit an NISSAN dealer for this service.

TOWING YOUR VEHICLE

BASIC INFORMATION

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from a NISSAN dealer. Local service operators are generally familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends having a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions:

⚠WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

⚠CAUTION

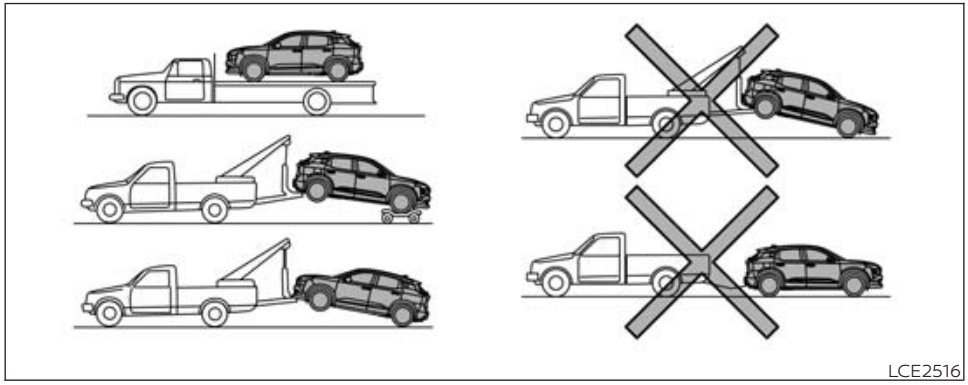
- **When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any of these conditions apply, dollies or a flatbed tow truck must be used.**
- **Always attach safety chains before towing.**

For additional information about towing your vehicle behind a Recreational Vehicle (RV), see "Flat towing your vehicle" (P. 502).

TOWING RECOMMENDED BY NISSAN

Basic information

NISSAN recommends towing your vehicle based upon the type of drivetrain. For additional information, refer to the diagrams in this section to ensure that your vehicle is properly towed.

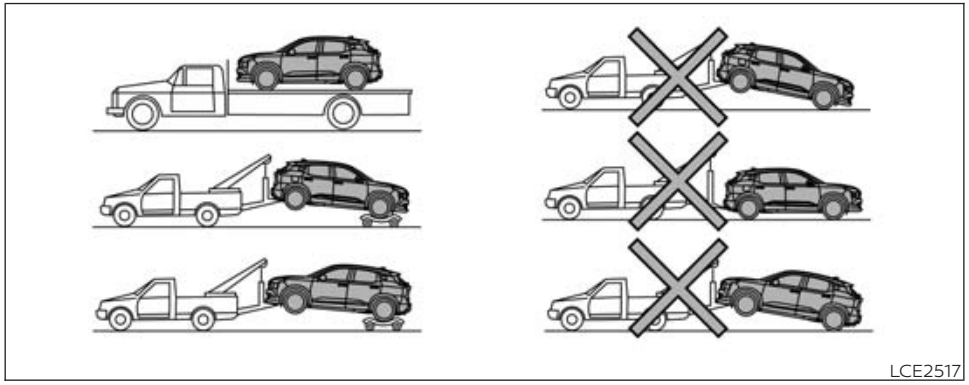

LCE2516

Two-Wheel Drive models with Continuously Variable Transmission (CVT)

NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flatbed truck as illustrated.

⚠CAUTION

- **Never tow CVT models with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the rear wheels raised always use towing dollies under the front wheels.**
- **When towing CVT models with the rear wheels on the ground or on towing dollies:**
  - **Place the ignition switch in the OFF position, and secure the steering wheel in a straight-ahead position with a rope or similar device. Never secure the steering wheel by placing the ignition switch in the LOCK position. This may damage the steering lock mechanism (for models with a steering lock mechanism).**



LCE2517

All-Wheel Drive (AWD) models with Continuously Variable Transmission (CVT)

NISSAN recommends that towing dollies be used when towing your vehicle or place the vehicle on a flatbed truck as illustrated.

⚠CAUTION

Never tow AWD models equipped with a CVT with any of the wheels on the ground as this may cause serious and expensive damage to the powertrain.

VEHICLE RECOVERY (freeing a stuck vehicle)

Basic information

⚠WARNING

To avoid vehicle damage, serious personal injury or death when recovering a stuck vehicle:

- **Contact a professional towing service to recover the vehicle if you have any questions regarding the recovery procedure.**
- **Tow chains or cables must be attached only to main structural members of the vehicle.**
- **Do not use the vehicle tie-downs to tow or free a stuck vehicle.**
- **Only use devices specifically designed for vehicle recovery and follow the manufacturer's instructions.**
- **Always pull the recovery device straight out from the front of the vehicle. Never pull at an angle.**
- **Route recovery devices so they do not touch any part of the vehicle except the attachment point.**

If your vehicle is stuck in sand, snow, mud, etc., use a tow strap or other device designed specifically for vehicle recovery. Always follow the manufacturer's instructions for the recovery device.

Rocking a stuck vehicle

⚠ WARNING

- **Stand clear of a stuck vehicle.**
- **Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.**

If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control (VDC) system.
2. Make sure the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.
   - Shift back and forth between R (Reverse) and D (Drive).
   - Apply the accelerator as little as possible to maintain the rocking motion.
   - Release the accelerator pedal before shifting between R (Reverse) and D (Drive).
   - Do not spin the tires above 34 mph (55 km/h).
5. If the vehicle cannot be freed after a few tries, contact a professional towing service to remove the vehicle.

7 Appearance and care

Cleaning exterior 424
Basic information 424
Washing 424
Waxing 424
Removing spots 425
Underbody 425
Glass 425
Aluminum alloy wheels (if so equipped) 425
Chrome parts 425
Tire dressings 425
Cleaning interior 426
Basic information 426
Air fresheners 427
Power moonroof (if so equipped) 427
Floor mats (if so equipped) 427
Seat belts 428
Corrosion protection 429
Most common factors contributing to vehicle corrosion 429
Environmental factors influence the rate of corrosion 429
Protect your vehicle from corrosion 429

CLEANING EXTERIOR

BASIC INFORMATION

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surfaces, wash your vehicle as soon as you can:

- After a rainfall to prevent possible damage from acid rain.
- After driving on coastal roads.
- When contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface.
- When dust or mud builds up on the surface.

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

⚠ CAUTION

- **Do not concentrate water spray directly on the sonar sensors (if so equipped) on the bumper as this will result in damage to the sensors. Do not use pressure washers capable of spraying water over 1,200 psi (8,274 kPa) to wash your vehicle. Use of high-pressure washers over 1,200 psi (8,274 kPa) can result in damage to or removal of paint or graphics. Avoid using a high-pressure washer closer than 12 inches (30 cm) to the vehicle. Always use a wide-angle nozzle only, keep the nozzle moving and do not concentrate the water spray on any one area.**
- **Do not use car washes that use acid in the detergent. Some car washes, especially brushless ones, use some acid for cleaning. The acid may react with some plastic vehicle components, causing them to crack. This could affect their appearance, and also could cause them not to function properly. Always check with your car wash to confirm that acid is not used.**
- **Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**
- **When using a high pressure car wash, keep the high pressure nozzle away from the shark fin antenna. The seal may be deformed or damaged.**

Rinse the vehicle thoroughly with plenty of clean water.

Inside edges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be cleaned regularly. Take care that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

A damp chamois can be used to dry the vehicle to avoid water spots.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before re-applying wax.

A NISSAN dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the exterior surface of the vehicle to avoid lasting damage or staining.

You may notice contamination on the exterior surface of the vehicle throughout the life of your vehicle, which can appear as orange or brown rust. These spots may be caused by iron-containing debris picked up by your vehicle as you drive.

Special cleaning products are available at a NISSAN dealer or any automotive accessory store. It is recommended that you visit a NISSAN dealer for these products.

UNDERBODY

In areas where road salt is used in winter, it is necessary to clean the underbody regularly in order to prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

⚠ CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

ALUMINUM ALLOY WHEELS (if so equipped)

Wash the wheels regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. If not removed, road salt can discolor the wheels.

⚠ CAUTION

Follow the directions below to avoid staining or discoloring the wheels:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

⚠ CAUTION

Follow the directions below to avoid staining or discoloring the chrome parts:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the chrome parts.**

TIRE DRESSINGS

NISSAN does not recommend the use of tire dressings. Tire manufacturers apply a coating to the tires to help reduce discoloration of the rubber. If a tire dressing is applied to the tires, it may react with the coating and form a compound. This compound may come off the tire while driving and stain the vehicle paint.

If you choose to use a tire dressing, take the following precautions:

- Use a water-based tire dressing. The coating on the tire dissolves more easily than with an oil-based tire dressing.

- Apply a light coat of tire dressing to help prevent it from entering the tire tread/grooves (where it would be difficult to remove).
- Wipe off excess tire dressing using a dry towel. Make sure the tire dressing is completely removed from the tire tread/grooves.
- Allow the tire dressing to dry as recommended by the tire dressing manufacturer.

CLEANING INTERIOR

BASIC INFORMATION

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather (if so equipped) surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry, soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather (if so equipped).

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water to clean the meter and gauge lens.

⚠WARNING

- **Do not use wax or silicone based products in the interior of the vehicle. Doing so may cause damage to interior parts, electrical devices, or electronics.**
- **Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensor. This can also affect the operation of the air bag system and result in serious personal injury.**

⚠CAUTION

- **Never use benzine, thinner or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather (if so equipped) surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the leather's natural finish.**
- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.**
- **Do not spill on or make contact with interior surfaces while handling air fresheners, aroma agents, cosmetics, sunscreen, etc. They may cause permanent discoloration, stain, crack, paint peeling, etc. depending on the ingredients. If they contact the interior surface, wipe them off immediately using a soft cloth.**

- **Do not use chlorine-based cleaning liquid such as chlorine dioxide and hypochlorous acid, which may cause the paint peeling, corrosion, etc. If it is unavoidable to clean or sterilize interior surfaces, use less than 75% ethanol. Wipe off ethanol completely. If you leave it uncleaned, it may cause paint peeling, discoloration, etc. Since ethanol is flammable, be careful of fire.**
- **Never use chloride solutions for cleaning aluminum decoratives (if so equipped), damage may occur.**

AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using the air fresheners.

POWER MOONROOF (if so equipped)

The sunshade is made from a tricot material.

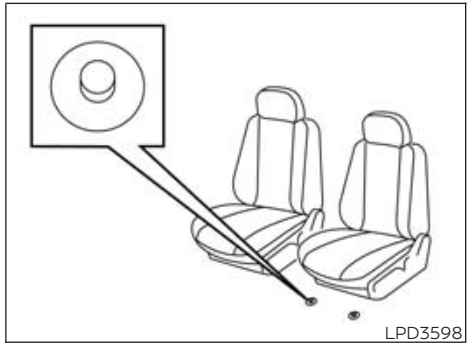
⚠CAUTION

To help prevent damaging the moonroof while cleaning:

- **Do not rub the material with a cloth. Doing so can damage the surface of the material or cause a stain to spread.**
- **Never use benzine, thinner or any similar chemical to clean the sunshade. This may discolor the moonroof and damage the surface.**
- **Clean water based stains by patting the surface with a clean soft cloth dampened in warm water. Press a clean dry cloth onto the surface to remove as much dampness as possible and then let air dry.**
- **Clean oil based stains by patting the surface with a clean soft cloth dampened in warm water. Press a clean dry cloth onto the surface to remove as much dampness as possible and then let air dry.**

FLOOR MATS (if so equipped)

Basic information


LPD3598

⚠WARNING

To avoid potential pedal interference that may result in a collision, injury or death:

- **NEVER place a floor mat on top of another floor mat in the driver front position or install them upside down or backwards.**
- **Use only Genuine NISSAN floor mats, or equivalent floor mats, that are specifically designed for use in your vehicle model and model year.**
- **Properly position the mats in the floorwell using the floor mat positioning hook. For additional information, see "Floor mat installation" (P. 428).**

- **Make sure the floor mat does not interfere with pedal operation.**
- **Periodically check the floor mats to make sure they are properly installed.**
- **After cleaning the vehicle interior, check the floor mats to make sure they are properly installed.**

The use of Genuine NISSAN floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

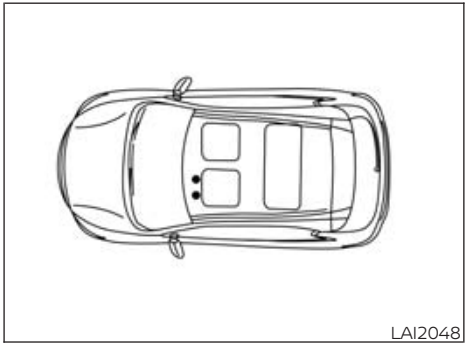
Floor mat installation

Your vehicle is equipped with floor mat positioning hook(s). The number and shape of the floor mat positioning hooks for each seating position varies depending on the vehicle.

When installing Genuine NISSAN floor mats, follow the installation instructions provided with the mat and the following:

1. With the ignition switch in the OFF position, the shift lever in P (Park) position and with the parking brake fully applied, position the floor mat in the floorwell so that the floor mat grommet holes are aligned with the hook(s).
2. Secure the grommet holes into the hook(s) and ensure that the floor mat is properly positioned.
3. Make sure the floor mat does not interfere with pedal operation. With the ignition switch still in the OFF position, the shift lever in the P (Park) position and with the parking brake applied, fully apply and release all pedals. The floor mat must not interfere with pedal operation or prevent the pedal from returning to its normal position.

It is recommended that you visit a NISSAN dealer for details about installing the floor mats in your vehicle.



Positioning hooks

The illustration shows the location of the floor mat positioning hooks.

SEAT BELTS

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely in the shade before using them. For additional information, see "Seat belt maintenance" (P. 26).

⚠WARNING

Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.

CORROSION PROTECTION

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

Most vehicle corrosion is caused by:

- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic collisions.

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION

Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle and should be removed for drying to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing and where atmospheric pollution exists and road salt is used.

Temperature

High temperatures accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use accelerates the corrosion process. Road salt also accelerates the disintegration of paint surfaces.

PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

⚠ CAUTION

- **NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface de-icing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, it is recommended that you visit a NISSAN dealer.

MEMO

8 Do-it-yourself

Maintenance precautions 432
Engine compartment check locations 433
Engine cooling system 434
- Basic information 434
- Checking engine coolant level 434
- Changing engine coolant 435

Engine oil 435
- Checking engine oil level 435
- Changing engine oil and oil filter 436

Continuously Variable Transmission (CVT) fluid 438
Brake fluid 438
Windshield-washer fluid 439
- Windshield-washer fluid reservoir 439

Battery 440
- Basic information 440
- Jump starting 441

Variable voltage control system 441
Drive belt 442
Spark plugs 442
- Replacing spark plugs 442

Air cleaner 443
- Basic information 443
- In-cabin microfilter (if so equipped) 443

Windshield wiper blades 444
- Cleaning 444
- Replacing 444

Brakes 445
- Basic information 445
- Self-adjusting brakes 445
- Brake pad wear indicators 445

Fuses 446
- Basic information 446
- Engine compartment 446
- Passenger compartment 448

Intelligent Key battery replacement 449
- Basic information 449
- NISSAN Intelligent Key® 450

Lights 451
- Basic information 451
- Headlights 452
- Exterior and interior lights 452

Wheels and tires 453
- Basic information 453
- Tire pressure 453
- Tire labeling 456
- Types of tires 460
- Tire chains 461
- Changing wheels and tires 461

MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

⚠ WARNING

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the shift lever to P (Park).**
- **Be sure the ignition switch is in the OFF or LOCK position when performing any parts replacement or repairs.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition switch is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from the fuel tank and battery.**
- **Because the fuel lines on gasoline engine models are under high pressure even when the engine is off, it is recommended that you visit a NISSAN dealer for service of the fuel filter or fuel lines.**

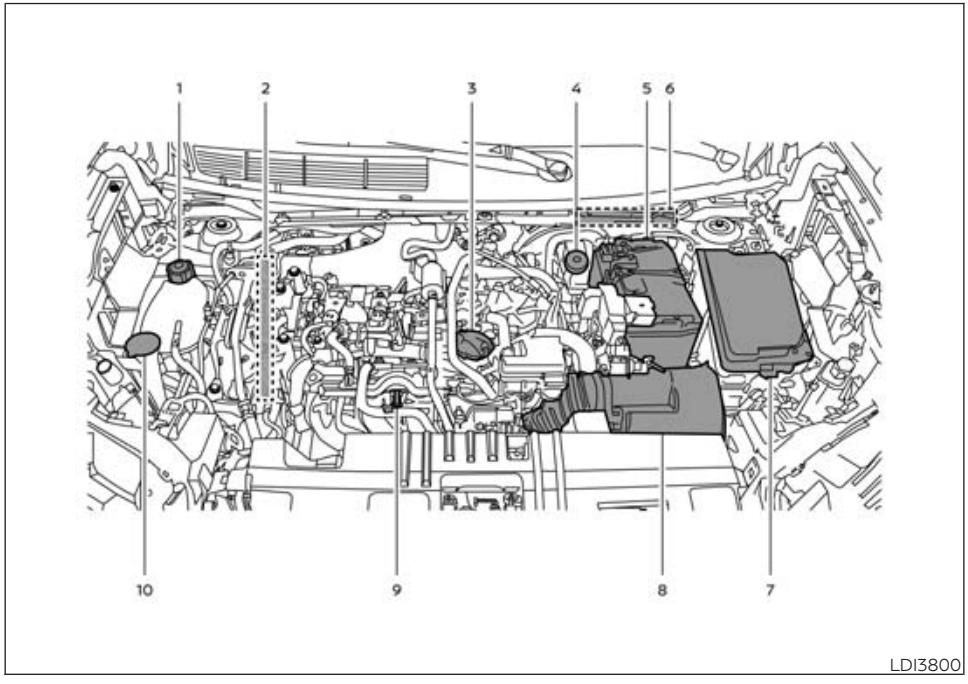
⚠ CAUTION

- **Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.**
- **Avoid contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.**
- **Never leave the engine or Continuously Variable Transmission (CVT) related component harnesses disconnected while the ignition switch is in the ON position.**
- **Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.**

This "Do-it-yourself" section gives instructions regarding only those items which are relatively easy for an owner to perform.

A Genuine NISSAN service manual is also available. For additional information, see "Owner's Manual/Service Manual order information" (P. 506).

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect warranty coverage. **If in doubt about any servicing, it is recommended that you have it done by a NISSAN dealer.**



LDI3800

ENGINE COMPARTMENT CHECK LOCATIONS

2.0L 4 cylinder (MR20DD engine model)

1. Engine coolant reservoir
2. Engine drive belt location
3. Engine oil filler cap
4. Brake fluid reservoir
5. Battery
6. Fuse/Fusible link box
7. Fuse/Fusible link box
8. Air cleaner
9. Engine oil dipstick
10. Windshield-washer fluid reservoir

NOTE:

Your vehicle may not be equipped with an engine cover.

ENGINE COOLING SYSTEM

BASIC INFORMATION

The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year-round antifreeze and coolant protection. The antifreeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

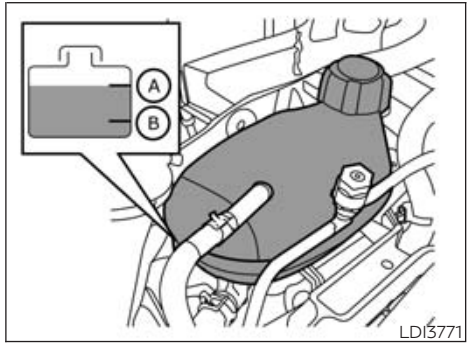
⚠ WARNING

- **Never remove the coolant reservoir cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator. For additional information on precautions, see "If your vehicle overheats" (P. 418).**
- **The coolant reservoir is equipped with a pressure type coolant reservoir cap. To prevent engine damage, use only a Genuine NISSAN coolant reservoir cap.**

⚠ CAUTION

- **Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the engine, transmission and/or cooling system.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent. Genuine NISSAN Long Life Antifreeze/Coolant (blue) is pre-diluted to provide antifreeze protection to -34° F (-37° C). If additional freeze protection is needed due to weather where you operate your vehicle, add Genuine NISSAN Long Life Antifreeze/Coolant (blue) concentrate following the directions on the container. If an equivalent coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufacturer's instructions to maintain minimum antifreeze protection to -34° F (-37° C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent may damage the engine cooling system.**
- **The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) (or equivalent coolant), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water may reduce the life expectancy of the factory-fill coolant. For additional information, refer to the "Maintenance and schedules" section of this manual.**

CHECKING ENGINE COOLANT LEVEL



Check the coolant level in the reservoir **when the engine is cold.** If the coolant level is below the MIN level Ⓑ, add coolant up to the MAX level Ⓐ.

If the cooling system frequently requires coolant, have it checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information on the location of the engine coolant reservoir, see "Engine compartment check locations" (P. 433).

CHANGING ENGINE COOLANT

A NISSAN dealer can change the engine coolant. The service procedure can be found in the NISSAN Service Manual.

Improper servicing can result in reduced heater performance and engine overheating.

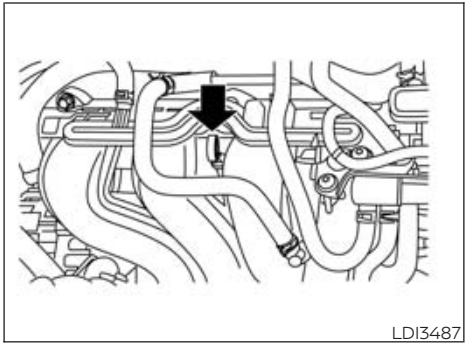
⚠ WARNING

- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the coolant reservoir cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the coolant reservoir.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of the reach of children and pets.**

Engine coolant must be disposed of properly. Check your local regulations.

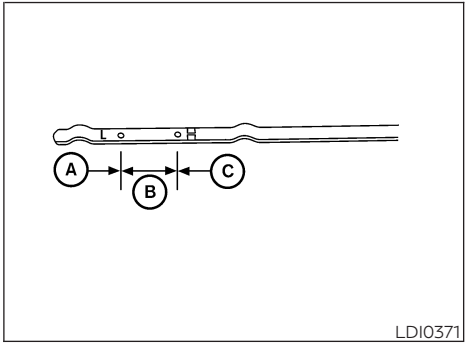
ENGINE OIL

CHECKING ENGINE OIL LEVEL



LDI3487

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and warm it up until the engine temperature reaches the normal operating temperature (approximately 5 minutes).
3. Stop the engine.
4. Wait at least 10 minutes for the engine oil to drain back to the oil pan.
5. Remove the dipstick and wipe it clean.
6. Reinsert the dipstick all the way.



LDI0371

7. Remove the dipstick and check the oil level. It should be within the range Ⓑ.
8. If the oil level is below Ⓐ, remove the oil filler cap and pour recommended oil into the opening. Do not overfill Ⓒ.

   When filling the engine oil, do not remove the dipstick.
9. Recheck the oil level with the dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions or depending on the property of the engine oil used. More engine oil is consumed by frequent acceleration/deceleration especially when engine rpm is high. Consumption is likely to be higher when the engine is new. if the rate of oil consumption, after driving for

3,000 miles (5,000 km), is more than 0.5 liter per 600 miles (1,000 km), consult a NISSAN dealer.

⚠CAUTION

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

CHANGING ENGINE OIL AND OIL FILTER

Basic information

For additional information on engine oil and oil filter change, refer to the instructions outlined in this section.

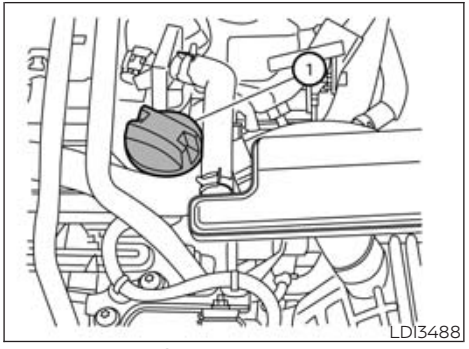
Vehicle set-up

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn the engine off and wait for 15 minutes.
4. Raise and support the vehicle using a suitable floor jack and safety jack stands.

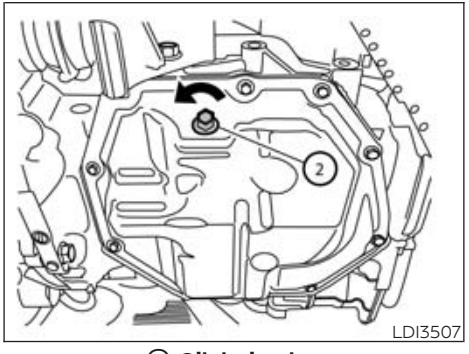
- Place the safety jack stands under the vehicle jack-up points.
- A suitable adapter should be attached to the jack stand saddle.

⚠CAUTION

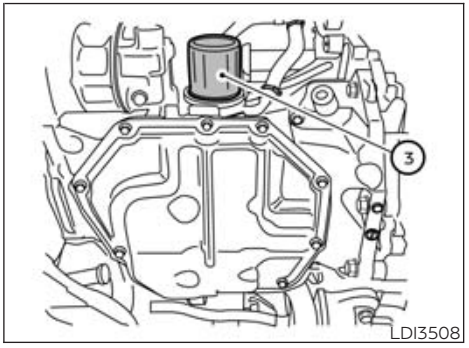
Make sure the correct lifting and support points are used to avoid vehicle damage.



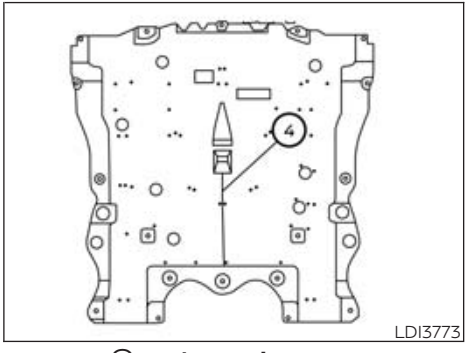
① Oil filler cap



② Oil drain plug

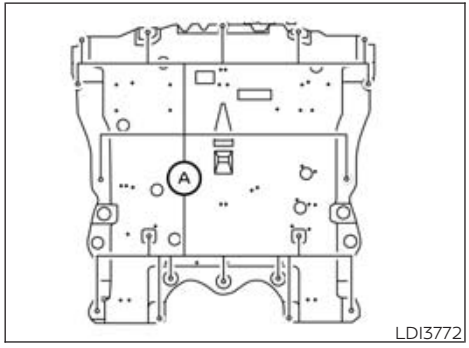


③ Oil filter



④ Under-engine cover

Removal of under-engine cover



1. Remove fasteners Ⓐ and under-engine cover.

Engine oil and filter

1. Place a large drain pan under the drain plug and oil filter.
2. Remove the oil filler cap.
3. Remove the drain plug with a wrench by turning it counterclockwise and completely drain the oil.

⚠CAUTION

Be careful not to burn yourself, as the engine oil is hot.

⚠WARNING

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**

4. Loosen the oil filter with an oil filter wrench by turning it counterclockwise. Remove the oil filter by turning it by hand.
5. Wipe the engine oil filter mounting surface with a clean rag.

⚠CAUTION

Be sure to remove any old gasket material remaining on the sealing surface of the engine. Failure to do so could lead to an oil leak and engine damage.

- **The dipstick must be inserted in place to prevent oil spillage from the dipstick hole when filling the engine with oil.**

6. Coat the gasket on the new filter with clean engine oil.
7. Screw in the oil filter clockwise until a slight resistance is felt, then tighten additionally more than 2/3 turn.
   Oil filter tightening torque:
   11 to 15 ft-lb (14.7 to 20.6 N·m)
8. Clean and re-install the drain plug with a new washer. Securely tighten the drain plug with a wrench. Do not use excessive force.
   Drain plug tightening torque:
   22 to 29 ft-lb (29.4 to 39.2 N·m)
9. Refill the engine with the recommended oil through the oil filler opening, and install the oil filler cap securely.
   For additional information about drain and refill capacity, see "Recommended fluids/lubricants and capacities" (P. 487). The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine the proper amount of oil in the engine.
10. Start the engine and check for leakage around the drain plug and the oil filter. Correct as required. Turn the engine off and wait more than 15 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

After the operation

1. Reinstall under-engine cover in reverse order.
2. Lower the vehicle carefully to the ground.
3. Reset oil and oil filter maintenance reminder and oil control system. For additional information, see "Vehicle information display 7 inch (18 cm) Type A" (P. 84) or "Vehicle information display 12.3 inch (31 cm) Type B" (P. 103).

- Dispose of waste oil and filter properly.
- Check your local regulations.

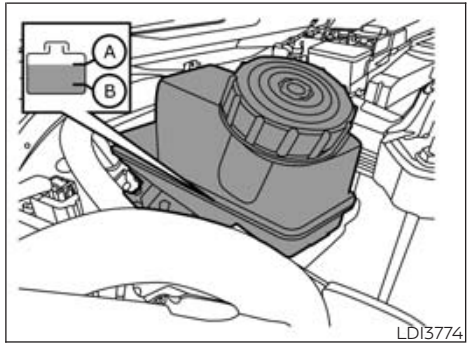
CONTINUOUSLY VARIABLE TRANSMISSION (CVT) FLUID

⚠ CAUTION

- **NISSAN recommends using Genuine NISSAN CVT Fluid NS-3 (or equivalent) ONLY in NISSAN CVTs. Do not mix with other fluids.**
- **Do not use Automatic Transmission Fluid (ATF) or manual transmission fluid in a NISSAN CVT, as it may damage the CVT. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty outlined in your Warranty Information Booklet.**
- **Using fluids that are not equivalent to Genuine NISSAN CVT Fluid NS-3 may also damage the CVT. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty outlined in your Warranty Information Booklet.**

When checking or replacement of CVT fluid is required, it is recommended that you visit a NISSAN dealer for this service.

BRAKE FLUID



For additional information on brake fluid specification, see "Recommended fluids/lubricants and capacities" (P. 487).

⚠ WARNING

- **Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.**
- **Clean the filler cap before removing.**
- **Brake fluid is poisonous and should be stored carefully in marked containers out of reach of children.**

⚠CAUTION

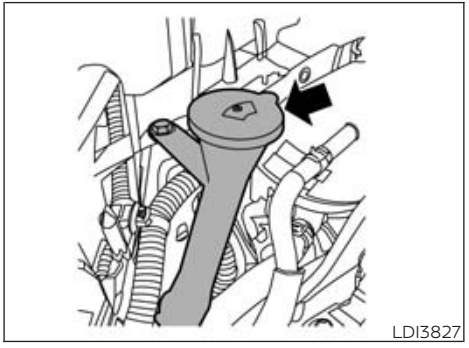
Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.

Check the fluid level in the reservoir. If the brake fluid is below the MIN line Ⓐ, the brake warning light will illuminate. Add brake fluid up to the MAX line Ⓑ. For additional information on recommended type of brake fluid, see "Recommended fluids/lubricants and capacities" (P. 487).

If the brake fluid must be added frequently, the brake system should be thoroughly checked. It is recommended that you visit a NISSAN dealer for this service.

WINDSHIELD-WASHER FLUID

WINDSHIELD-WASHER FLUID RESERVOIR


LDI3827

Fill the windshield-washer fluid reservoir periodically. Add windshield-washer fluid when the low windshield-washer fluid warning light (if so equipped) comes on.

To fill the windshield-washer fluid reservoir, lift the cap off the reservoir and pour the windshield-washer fluid into the reservoir opening.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windshield-washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Refill the reservoir more frequently when driving conditions require an increased amount of windshield-washer fluid.

Recommended fluid is Genuine NISSAN Windshield-Washer Concentrate Cleaner & Antifreeze or equivalent.

⚠CAUTION

- **Do not substitute engine antifreeze coolant for windshield-washer solution. This may result in damage to the paint.**
- **Do not fill the windshield-washer reservoir with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the windshield-washer reservoir.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the windshield-washer reservoir. Do not use the windshield-washer reservoir to mix the washer fluid concentrate and water.**

BATTERY

BASIC INFORMATION

Caution symbols for battery:

- No smoking, No exposed flames, No Sparks.



⚠WARNING

Do not expose the battery to electrical sparks, flames or smoking. Hydrogen gas generated by the battery is explosive. Explosive gases can cause blindness or injury.

- Shield eyes.



⚠WARNING

Handle the battery cautiously. Always wear eye protection glasses to protect against explosion or battery acid.

- Keep away from children.



⚠WARNING

Never allow children to handle the battery. Keep the battery out of the reach of children.

- Battery acid.



⚠WARNING

Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. Sulfuric acid can cause blindness or severe burns. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention. Battery fluid is acid. If the battery fluid gets into your eyes or onto your skin, it could cause loss of your eyesight or burns.

- Note operating instructions.



⚠WARNING

Before handling the battery, read this instruction carefully to ensure correct and safe handling.

- Explosive gas.



⚠WARNING

Hydrogen gas generated by battery fluid is explosive. Explosive gases can cause blindness or injury.

- If the battery is labeled "do not open" it is maintenance free and battery fluid should not be checked. It is recommended that you visit a NISSAN dealer or a qualified specialist workshop to confirm the battery's performance.
- Keep the battery surface clean and dry. Clean the battery with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the negative (-) battery terminal cable to prevent discharge.

NOTE:

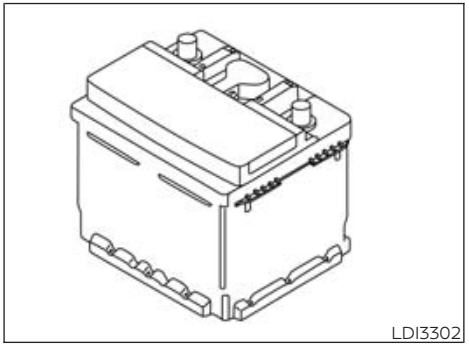
Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)**
2. **Vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

⚠ WARNING

- **Do not expose the battery to flames, an electrical spark or a cigarette. Hydrogen gas generated by the battery is explosive. Explosive gases can cause blindness or injury. Do not allow battery fluid to contact your skin, eyes, fabrics or painted surfaces. Sulfuric acid can cause blindness or injury. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.**
- **Keep battery out of the reach of children.**
- **Do not tip the battery.**


LDI3302

NOTE:

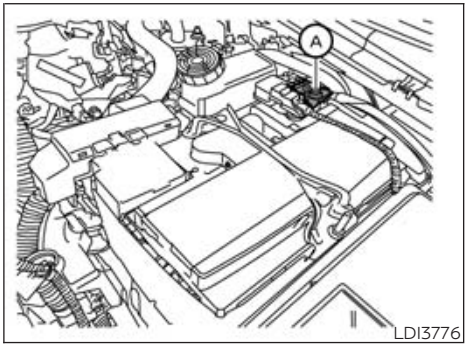
Do not try to open the top of the battery.

This battery is not equipped with removable vent caps.

JUMP STARTING

If jump starting is necessary, see "Jump starting" (P. 416). If the engine does not start by jump starting, the battery may have to be replaced. It is recommended that you visit a NISSAN dealer for this service.

VARIABLE VOLTAGE CONTROL SYSTEM



LDI3776

⚠ CAUTION

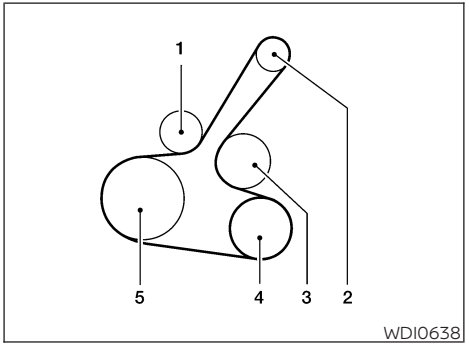
- **Do not ground accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

Your vehicle is equipped with a variable voltage control system. This system measures the amount of electrical discharge from the battery and controls voltage generated by the generator.

The current sensor Ⓐ is located near the battery along the negative battery cable. If

you add electrical accessories to your vehicle, be sure to ground them to a suitable body ground such as the frame or engine block area.

DRIVE BELT



1. Automatic tensioner pulley
2. Generator pulley
3. Water pump pulley
4. Air conditioner compressor pulley
5. Crankshaft pulley

⚠WARNING

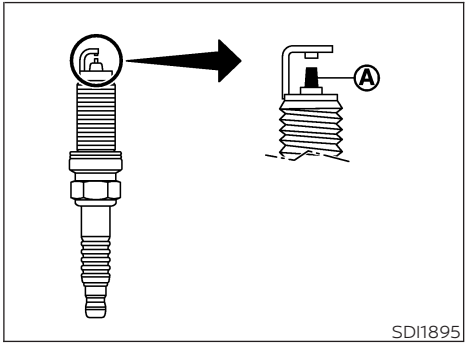
Be sure the ignition switch is in the OFF or LOCK position before servicing drive belt. The engine could rotate unexpectedly.

1. Visually inspect the belt for signs of unusual wear, cuts, or fraying. If the belt is in poor condition, have it replaced or adjusted. It is recommended that you visit a NISSAN dealer for this service.
2. Have the belt checked regularly for condition.

SPARK PLUGS

REPLACING SPARK PLUGS

Iridium-tipped spark plugs



It is not necessary to replace iridium-tipped Ⓐ spark plugs as frequently as conventional type spark plugs because they last much longer. Follow the maintenance log shown in the "Maintenance and schedules" section of this manual. Do not service iridium-tipped spark plugs by cleaning or regapping.

- **Always replace spark plugs with recommended or equivalent ones.**

⚠WARNING

Be sure the engine and ignition switch are off and that the parking brake is engaged securely.

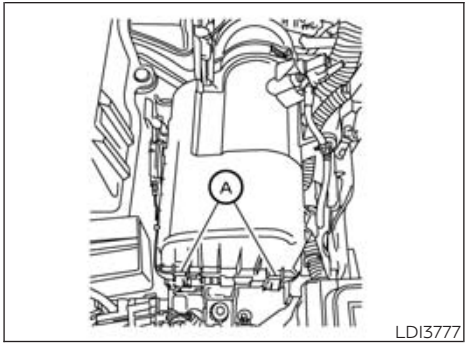
⚠CAUTION

Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.

If replacement is required, it is recommended that you visit a NISSAN dealer for this service.

AIR CLEANER

BASIC INFORMATION



LDI3777

⚠WARNING

- **Operating the engine with the air cleaner filter off can cause you or others to be burned. The air cleaner filter not only cleans the intake air, it also stops the flame if the engine backfires. If the air cleaner is not installed and the engine backfires, you could be burned. Never drive with the air cleaner filter off. Be cautious working on the engine when the air cleaner is off.**
- **Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.**

To remove the filter from the air cleaner, release the retaining clips Ⓐ, then release the holders at the back of the unit. Pull the unit upward.

The dry paper type filter element may be cleaned and reused. Replace the air filter according to the maintenance log shown in the "Maintenance and schedules" section of this manual.

When replacing the air filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

NOTE:

After installing a new air cleaner filter, make sure the air cleaner cover is seated in the housing and latch the clips Ⓐ.

IN-CABIN MICROFILTER (if so equipped)

Your vehicle may be equipped with an in-cabin microfilter which collects dirt, pollen, dust, etc. and reduces some objectionable outside odors.

The in-cabin microfilter is located within the instrument panel. Replace the filter in accordance with the specified maintenance intervals listed in the "Maintenance and schedules" section of this manual.

If replacement is required, it is recommended that you visit a NISSAN dealer for this service.

The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the heater or air conditioner.

WINDSHIELD WIPER BLADES

CLEANING

If your windshield is not clear after using the windshield–washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer fluid or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

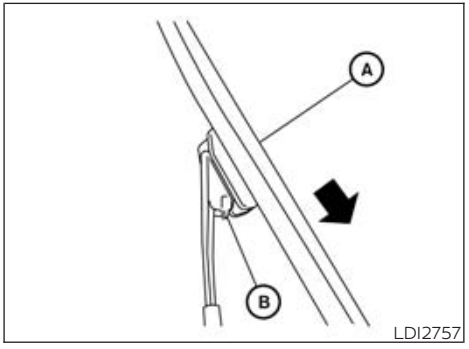
Clean each blade by wiping it with a cloth soaked in a washer fluid or a mild detergent. Then rinse the blades with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, install new windshield wiper blades.

⚠CAUTION

Worn windshield wiper blades can damage the windshield and impair driver vision.

REPLACING

Basic information



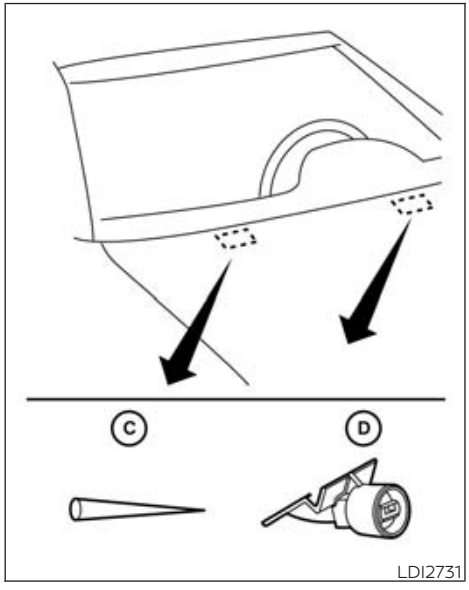
Replace the wiper blades if they are worn.

To replace the windshield wiper blades, follow the procedure below:

1. Lift the wiper arm away from the windshield.
2. Push the release tab Ⓑ.
3. Move the wiper blade Ⓐ down and remove.
4. Insert the new wiper blade onto the wiper arm until it clicks into place.
5. Push wiper on to windshield.

⚠CAUTION

- **After wiper blade replacement, return the wiper arm to its original position; otherwise it may be damaged when the hood is opened.**
- **Make sure the wiper blades contact the glass; otherwise the arms may be damaged from wind pressure.**



LDI2731

If you wax the surface of the hood, be careful not to let wax get into the washer nozzle Ⓓ. This may cause clogging or improper windshield-washer operation. If wax gets into the nozzle, remove it with a needle or small pin Ⓒ.

Rear window wiper blade

If checking or replacement is required, it is recommended that you visit a NISSAN dealer for this service.

BRAKES

BASIC INFORMATION

If the brakes do not operate properly, have the brakes checked. It is recommended that you visit a NISSAN dealer for this service.

SELF-ADJUSTING BRAKES

Your vehicle is equipped with self-adjusting brakes.

The front and rear disc-type brakes self-adjust every time the brake pedal is applied.

⚠WARNING

Have your brake system checked if the brake pedal height does not return to normal. It is recommended that you visit a NISSAN dealer for this service.

BRAKE PAD WEAR INDICATORS

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, a high pitched scraping or screeching sound will be heard when the vehicle is in motion. The noise will be heard whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator sound is heard.

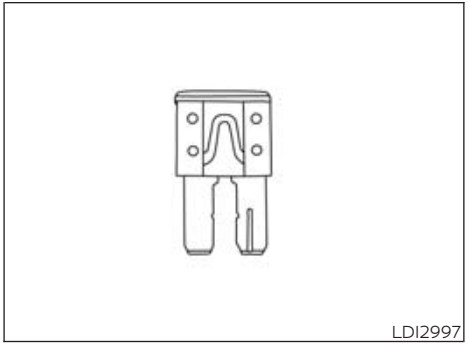
Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does

not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information regarding brake inspections, refer to the appropriate maintenance schedule information in the "Maintenance and schedules" section of this manual.

FUSES

BASIC INFORMATION


LDI2997

If any electrical equipment does not operate, check for an open fuse.

Fuses are used in the passenger compartment and engine compartment. Spare fuses are provided and can be found in the passenger compartment fuse box.

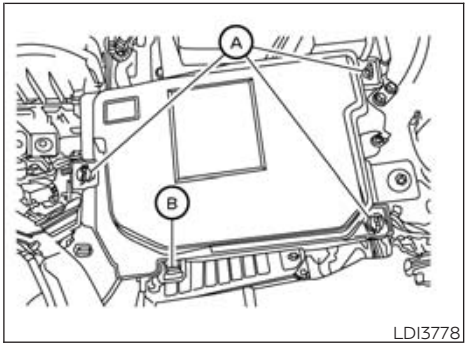
When installing a fuse make sure the fuse is installed in the fuse box securely.

NOTE:

Your vehicle may not be equipped with all fuses listed on the fuse label.

ENGINE COMPARTMENT

Basic information



LDI3778

⚠WARNING

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or electronic control units or cause a fire.

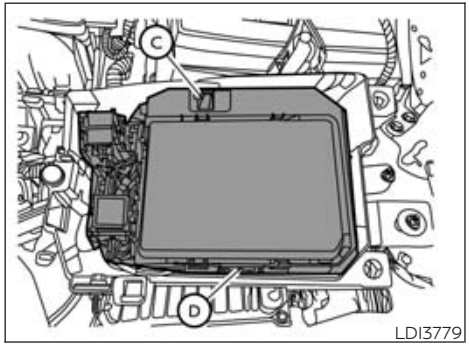
NOTE:

This section covers one engine compartment fuse box. It is recommended that you visit a NISSAN dealer if you suspect an open fuse in the other fuse box.

If any electrical equipment does not come on, check for an open fuse.

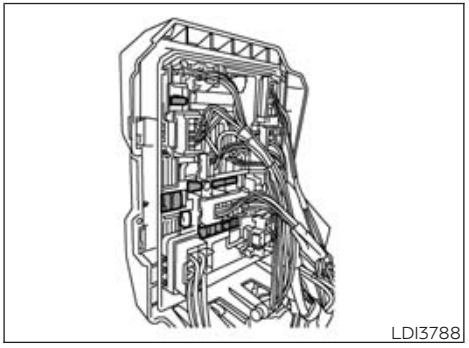
1. Be sure the ignition switch and the headlight switch are OFF.

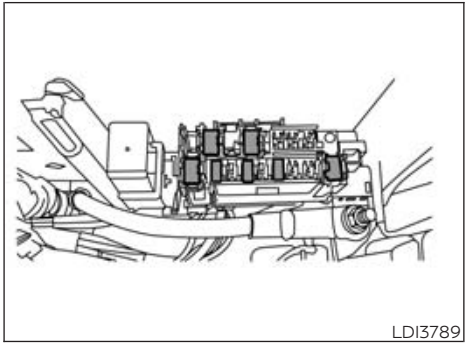
2. Open the engine hood.
3. Turn the fasteners Ⓐ counterclockwise a quarter turn.
4. Push the tab Ⓑ and lift the fuse box cover to remove.



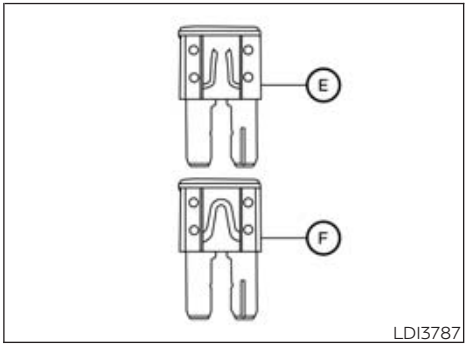
LDI3779

5. Push the tab Ⓒ, lift the fuse box assembly and release the tab Ⓓ to loosen the fuse box assembly from the vehicle.


LDI3788


LDI3789

6. Position the fuse box assembly to the side to gain access to the fuses.
7. Remove the fuse with the fuse puller. The fuse puller is located in the fuse block in the passenger compartment.



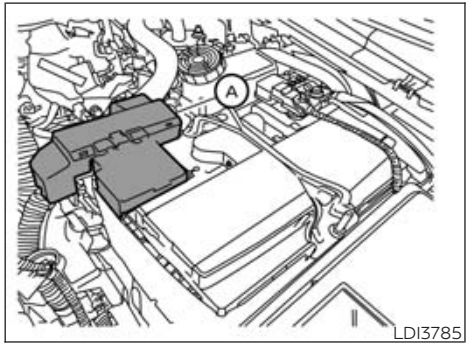
LDI3787

8. If the fuse is open Ⓔ, replace it with a new fuse Ⓕ.
9. If a new fuse also opens, have the electrical system checked and repaired. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

Your vehicle may not be equipped with all fuses listed on the fuse label.

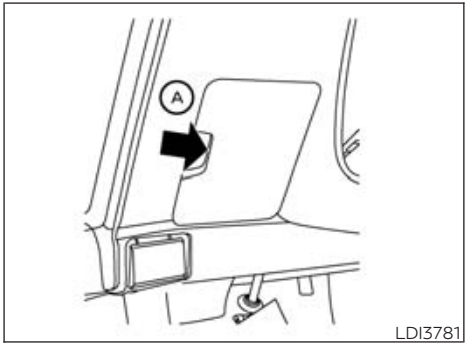
Fusible links



If any electrical equipment does not operate and the fuses are in good condition, check the fusible links Ⓐ in the holder. If any of the fusible links are melted, replace only with Genuine NISSAN parts.

For checking and replacing the fusible links, it is recommended that you visit a NISSAN dealer for this service.

PASSENGER COMPARTMENT



⚠WARNING

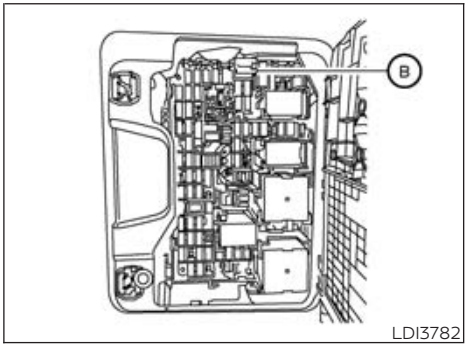
Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or electronic control units or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

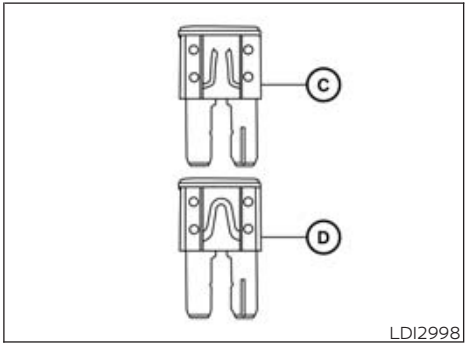
NOTE:

The fuse box is located to the left of the steering wheel and above the hood lock release lever.

1. Be sure the ignition switch and the headlight switch are OFF.
2. Pull the fuse box cover Ⓐ to open.
3. Locate the fuse that needs to be replaced.



4. Remove the fuse with the fuse puller Ⓑ.



5. If the fuse is open Ⓒ, replace it with an equivalent good fuse Ⓓ.
6. Push the fuse box cover to close.

If a new fuse also opens, have the electrical system checked and repaired. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

Your vehicle may not be equipped with all fuses listed on the fuse label.

INTELLIGENT KEY BATTERY REPLACEMENT

BASIC INFORMATION

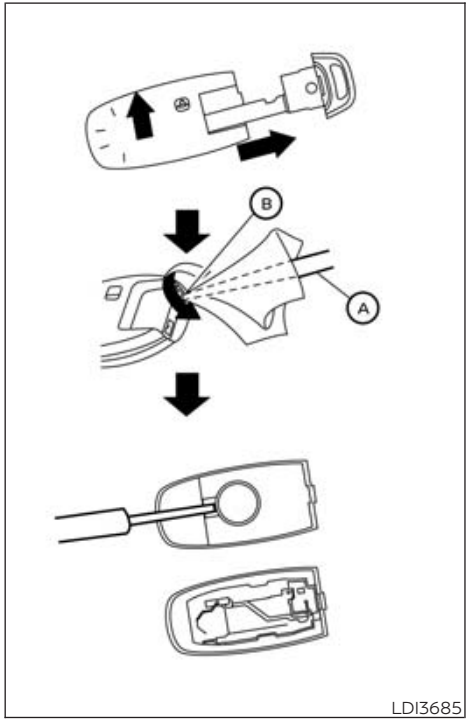
⚠WARNING

- **Ingestion hazard: Death or serious injury can occur if ingested.**
- **A swallowed button cell or coin battery can cause internal chemical burns in as little as 2 hours.**
- **Keep new and used batteries out of reach of children.**
- **Be careful not to allow children or pets to swallow removed parts.**
- **Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.**
- **For treatment information call the National battery ingestion hotline @ 1-800-498-8666.**
- **There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type of battery. Incorrectly replacing the battery can lead to injury or death.**
- **Do not crush or cut the battery.**
- **Do not subject the battery to extremely low air pressure at high altitude.**
- **Do not expose the battery to excessive heat such as sunshine, fire or similar heat sources.**

⚠CAUTION

- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **When changing batteries, do not let dust or oil get on the components.**

NISSAN INTELLIGENT KEY®



LDI3685

Replace the battery in the Intelligent Key as follows:

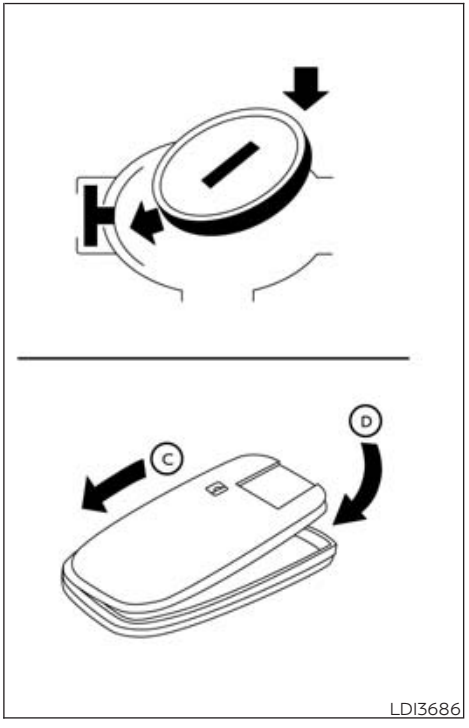
1. Remove the mechanical key from the Intelligent Key.
2. Insert a small flathead screwdriver Ⓐ into the slit Ⓑ of the corner and twist it to separate the upper part from the lower part. Place a cloth over the screwdriver to protect the casing.

⚠CAUTION

To prevent damage of the Intelligent Key, do not compress the screwdriver too hard when you insert the screwdriver into the slit.

⚠CAUTION

Be careful not to allow children to swallow the battery or removed parts.



LDI3686

3. Replace the battery with a new one. Recommended battery: CR2032 or equivalent.
   - Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.

- Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
- Make sure that the + side faces the bottom of the lower part.

4. Close the lid securely as illustrated with Ⓒ and Ⓓ.
5. Operate the buttons to check the operation.

If you need assistance for replacement, it is recommended that you visit a NISSAN dealer for this service.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

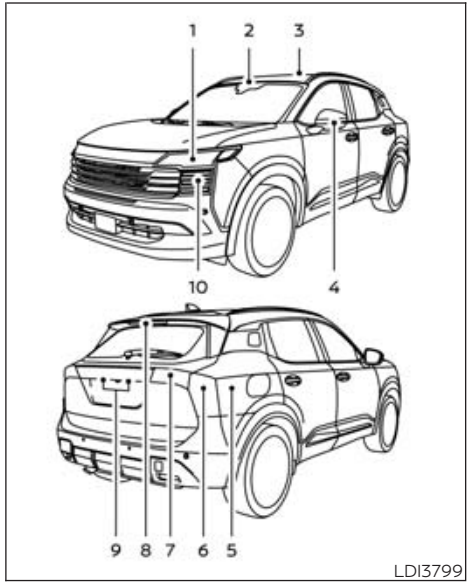
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

LIGHTS

BASIC INFORMATION



1. Headlight assembly
2. Map lights
3. Room light
4. Door mirror turn signal light (if so equipped)
5. Cargo light

6. Rear combination light
7. Backup (reversing) assembly
8. High-mounted stop light
9. License plate light
10. Front decorative lamp (if so equipped)

HEADLIGHTS

Fog may temporarily form inside the lens of the exterior lights in the rain or in a car wash. A temperature difference between the inside and the outside of the lens causes the fog. This is not a malfunction. If large drops of water collect inside the lens, it is recommended you visit a NISSAN dealer for this service.

If replacement is required, it is recommended you visit on NISSAN dealer for this service.

EXTERIOR AND INTERIOR LIGHTS

Basic information

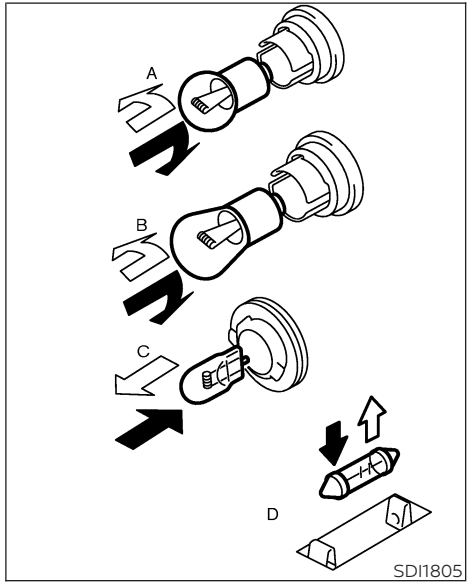
This vehicle is equipped with LED lights. Visit your NISSAN dealer for LED light replacement, replacement bulb type or any bulb changing procedure not listed in the section.

- Map lights (Type A) (if so equipped)
  - Wattage (W): 10
  - Bulb No.: W10W
- Cargo light*
  - Wattage (W): 5
  - Bulb No.: W5W

* It is recommended that you visit a NISSAN dealer for replacement.

Always check with the Parts Department at a NISSAN Dealer for the latest parts information.

Replacement procedures



All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens, lamp and/or cover.

⇧ Indicates bulb removal
⇧ Indicates bulb installation

WHEELS AND TIRES

BASIC INFORMATION

If you have a flat tire, see "Flat tire" (P. 407).

TIRE PRESSURE

Tire Pressure Monitoring System (TPMS)

⚠WARNING

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare (if so equipped). When the low tire pressure warning light is lit and the "CHECK TIRE PRES" (vehicles without a vehicle information display) also appears in the trip computer or the "Tire Pressure Low – Add Air" warning (vehicles with a vehicle information display) appears in the vehicle information display, one or more of your tires is significantly under-inflated. If equipped, the system also displays pressure of all tires (except the spare tire (if so equipped)) on the display screen by sending a signal from a sensor that is installed in each wheel.

The TPMS will activate only when the vehicle is driven at speeds above 16 mph (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

For additional information, see "Low tire pressure warning light" (P. 79), "Tire Pressure Monitoring System (TPMS)" (P. 230) and "Flat tire" (P. 407).

Tire inflation pressure

Check the tire pressures (including the spare (if so equipped)) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the F.M.V.S.S./C.M.V.S.S. certification label or the Tire and Loading Information label under the "Cold Tire Pressure" heading. The Tire and Loading Information label is affixed to the driver side center pillar. Tire pressures should be checked regularly because:

- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

The tire pressures should be checked when the tires are cold. The tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

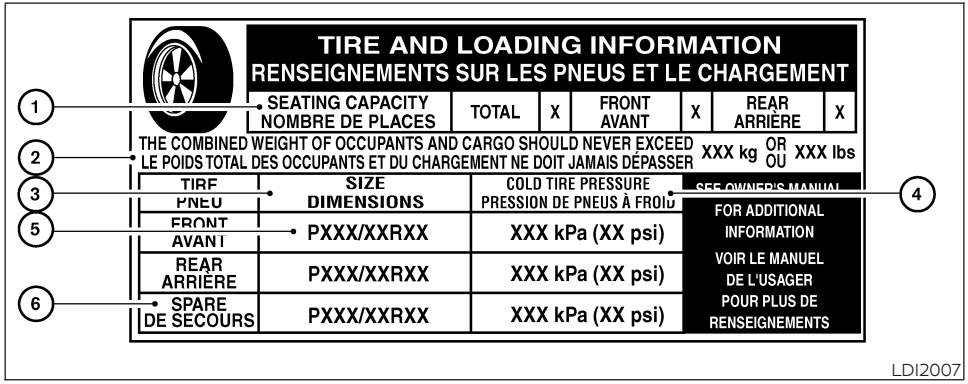
The TPMS with Easy-Fill Tire Alert provides visual and audible signals outside the vehicle for inflating tires to the recommended COLD tire pressure. For additional information, see "TPMS with Easy-Fill Tire Alert" (P. 232).

Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.

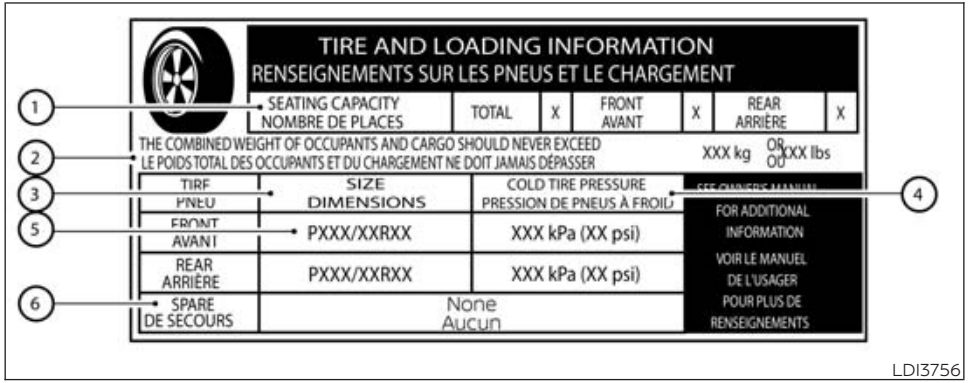
⚠WARNING

- **Improperly inflated tires can fail suddenly and cause an accident.**
- **The Gross Vehicle Weight Rating (GVWR) is located on the F.M.V.S.S./C.M.V.S.S. certification label. The vehicle weight capacity is indicated on the Tire and Loading Information label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.**
- **Before taking a long trip, or whenever you heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Tire and Loading Information label



Type A (if so equipped)



Type B (if so equipped)

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

② Vehicle load limit: For additional information, see "Vehicle loading information" (P. 497).

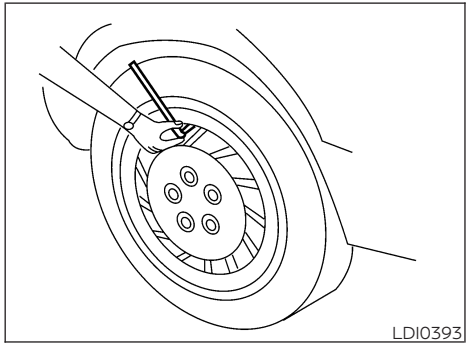
③ Original tire size: The size of the tires originally installed on the vehicle at the factory.

④ Cold tire pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best balance of tire wear, vehicle handling, driveability, tire noise, etc., up to the vehicle's GVWR.

⑤ Tire size - For additional information, see "Tire labeling" (P. 456).

⑥ Spare tire size.

Checking tire pressure



1. Remove the valve stem cap from the tire.
2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the hissing sound of air escaping from the tire is heard while checking the pressure, reposition the gauge to eliminate this leakage.
3. Remove the gauge.
4. Read the tire pressure on the gauge stem and compare to the specification shown on the Tire and Loading Information label.
5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.
6. Install the valve stem cap.
7. Check the pressure of all other tires, including the spare (if so equipped).

Size/Cold Tire Inflation Pressure:

Front and Rear Original Tire

- 215/65R16 or 215/60R17
  - 33 psi
  - 230 kPa

Front and Rear Original Tire

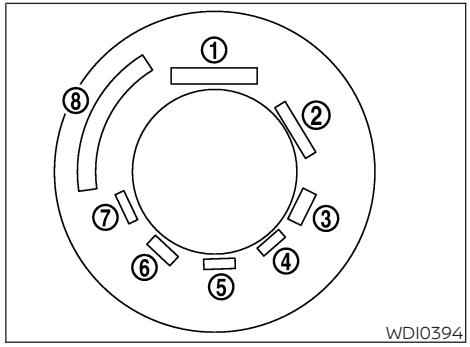
- 225/45R19
  - 35 psi
  - 240 kPa

Spare Tire (Temporary) (if so equipped)

- T145/80D17 or T155/80D17
  - 60 psi
  - 420 kPa

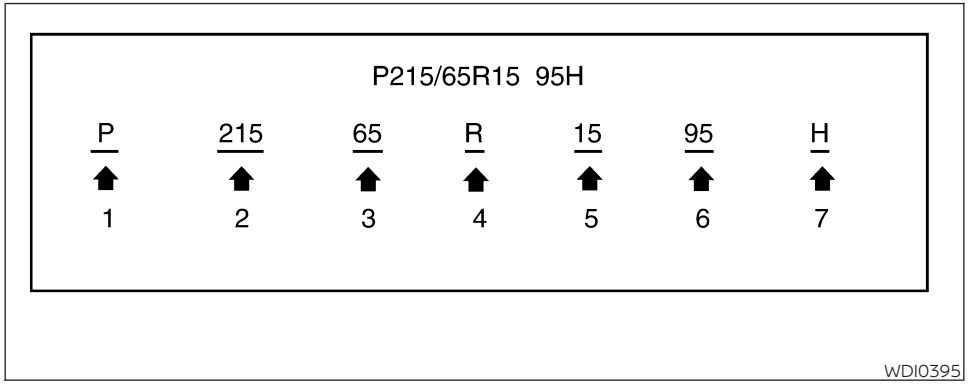
TIRE LABELING

Basic information



Example

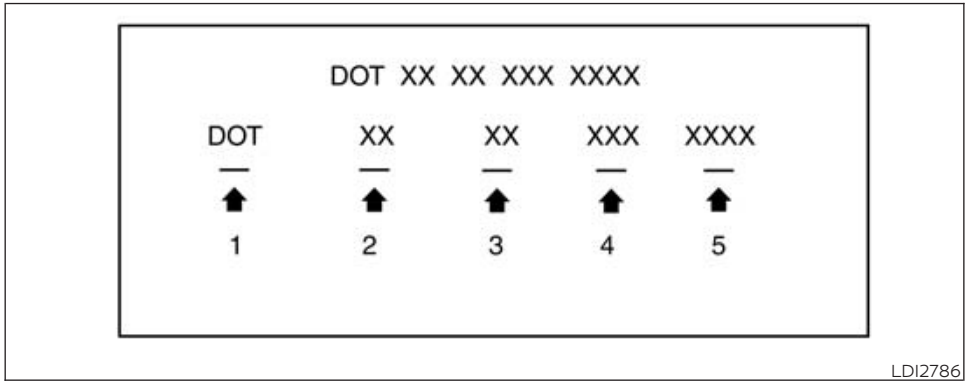
Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the Tire Identification Number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.



Example

① Tire size (example: P215/65R15 95H)

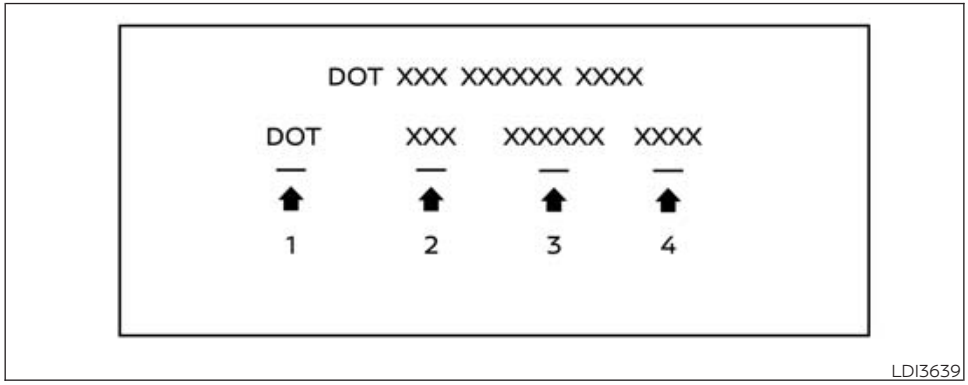
1. P: The "P" indicates the tire is designed for passenger vehicles (not all tires have this information).
2. Three-digit number (215): This number gives the width in millimeters of the tire from sidewall edge to sidewall edge.
3. Two-digit number (65): This number, known as the aspect ratio, gives the tire's ratio of height to width.
4. R: The "R" stands for radial.
5. Two-digit number (15): This number is the wheel or rim diameter in inches.
6. Two- or three-digit number (95): This number is the tire's load index. It is a measurement of how much weight each tire can support.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.



Example (Type A) (if so equipped)

② TIN (Tire Identification Number) for a new tire (example: DOT XX XX XXX XXXX)

1. DOT: Abbreviation for the "Department Of Transportation". The symbol can be placed above, below or to the left or right of the Tire Identification Number.
2. Two-digit code: Manufacturer's identification mark.
3. Two-digit code: Tire size.
4. Three-digit code: Tire type code (Optional).
5. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003. If these numbers are missing then look on the other sidewall of the tire.



Example (Type B) (if so equipped)

② TIN (Tire Identification Number) for a new tire (example: DOT XXX XXXXXX XXXX)

1. DOT: Abbreviation for the "Department Of Transportation". The symbol can be placed above, below or to the left of the Tire Identification Number.
2. Three-digit code: Manufacturer's identification mark.
3. Six-digit code: Descriptive code used to identify significant characteristics of the tire.
4. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003.

③ Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester and others.

④ Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

⑤ Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

⑥ Term of "tubeless" or "tube type"

Indicates whether the tire requires an inner tube ("tube type") or not ("tubeless").

⑦ The word "radial"

The word "radial" is shown if the tire has radial structure.

⑧ Manufacturer or brand name

Manufacturer or brand name is shown.

Other Tire-related Terminology

In addition to the many terms that are defined throughout this section, Intended Outboard Sidewall is (1) the sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (2) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

TYPES OF TIRES

Basic information

⚠ WARNING

- **When changing or replacing tires, be sure all four tires are of the same type (i.e., Summer, All Season or Snow) and construction. A NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability.**
- **Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the low tire pressure warning system.**
- **Always use tires of the same type, size, brand, construction and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which can cause the Vehicle Dynamic Control (VDC) system to malfunction resulting in personal injury or death, excessive tire wear and may damage the transmission and differential gears.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

All-Wheel Drive (AWD) models

⚠ WARNING

For AWD vehicles - the TEMPORARY USE ONLY spare tire (if so equipped) must be installed to the rear wheels only. If a front tire is punctured, install the original rear tire onto the front wheel, then install the TEMPORARY USE ONLY spare tire (if so equipped) on the rear. Failure to do so could cause overheating to the AWD system

⚠ CAUTION

- **ONLY use spare tires (if so equipped) specified for the AWD model.**

If excessive tire wear is found, it is recommended that all four tires be replaced with tires of the same size, brand, construction and tread pattern. The tire pressure and wheel alignment should also be checked and corrected as necessary. It is recommended that you visit a NISSAN dealer for this service.

All season tires

NISSAN specifies All Season tires on some models to provide good performance all year, including snowy and icy road conditions. All Season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than All Season tires and may be more appropriate in some areas.

Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating "M&S" on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of SNOW tires or ALL SEASON tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some states, provinces and territories prohibit their use. Check local laws before installing studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

TIRE CHAINS

⚠WARNING

If tire chains are used with this vehicle, they must allow sufficient clearance between the tire and the closest vehicle suspension or body component. Failure to use the correct chains, or not properly installing chains, can damage the brakes, suspension or other vehicle parts and cause a crash in which a person could be seriously injured or killed.

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE class "S" chains.** Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tires. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

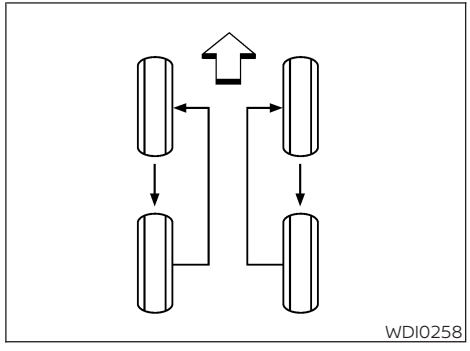
Tire chains must be installed only on the front wheels and not on the rear wheels.

Never install tire chains on a TEMPORARY USE ONLY spare tire (is so equipped).

Do not use tire chains on dry roads. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

CHANGING WHEELS AND TIRES

Tire rotation



NISSAN recommends rotating the tires every 10,000 miles (16,000 km).

For additional information on the tire replacing procedures, see "Flat tire" (P. 407).

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

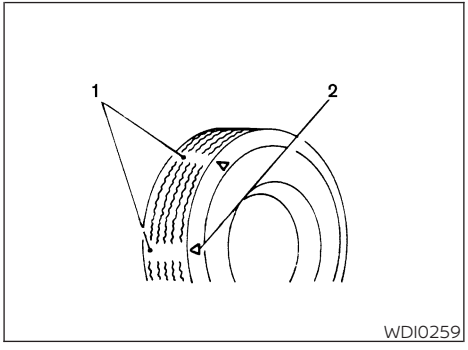
Wheel nut tightening torque:
83 ft-lb (113 N·m)

The wheel nuts must be kept tightened to specifications at all times. It is recommended that wheel nuts be tightened to specification at each tire rotation interval.

⚠WARNING

- **After rotating the tires, check and adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**
- **Do not include the spare tire (if so equipped) in the tire rotation.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Tire wear and damage



1. Wear indicator
2. Location mark

⚠WARNING

- **Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.**
- **The original tires have built-in tread wear indicators. When the wear indicators are visible, the tire(s) should be replaced.**
- **Tires degrade with age and use. Have tires, including the spare (if so equipped), over 6 years old checked by a qualified technician because some tire damage may not be obvious. Replace the tires as necessary to prevent tire failure and possible personal injury.**

- **Improper service of the spare tire (if so equipped) may result in serious personal injury. If it is necessary to repair the spare tire (if so equipped), it is recommended that you visit a NISSAN dealer for this service.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Replacing wheels and tires

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped. For additional information, see "Wheels and tires" (P. 492).

⚠WARNING

- **The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, Vehicle Dynamic Control (VDC) system, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.**
- **If your vehicle was originally equipped with four tires that were the same size and you are only replacing two of the four tires, install the new tires on the rear axle. Placing new tires on the front axle may cause loss of vehicle control in some driving conditions and cause an accident and personal injury.**
- **If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics, affect the VDC system and/or interference with the brake discs. Such interference can lead to decreased braking efficiency and/or early brake pad wear. For additional information, see "Wheels and tires" (P. 492).**
- **When using a wheel without the TPMS such as the spare tire (if so equipped), the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended that you visit a NISSAN dealer for this service.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **The TPMS sensor may be damaged if it is not handled correctly. Be careful when handling the TPMS sensor.**
- **When replacing the TPMS sensor, the ID registration may be required. It is recommended that you visit a NISSAN dealer for ID registration.**
- **Do not use a valve stem cap that is not specified by NISSAN. The valve stem cap may become stuck.**
- **Be sure that the valve stem caps are correctly fitted. Otherwise the valve may be clogged up with dirt and cause a malfunction or loss of pressure.**
- **Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tires is not recommended.**

- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

Care of wheels

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- NISSAN recommends waxing the road wheels to protect against road salt in areas where it is used during winter.

Spare tire (TEMPORARY USE ONLY spare tire) (if so equipped)

When using a wheel without the TPMS such as the spare tire, the TPMS will not function.

Observe the following precautions if the TEMPORARY USE ONLY spare tire must be used. Otherwise, your vehicle could be damaged or involved in an accident:

⚠WARNING

- **The spare tire should be used for emergency use only. It should be replaced with the standard tire at the first opportunity to avoid possible tire or differential damage.**
- **Drive carefully while the TEMPORARY USE ONLY spare tire is installed. Avoid sharp turns and abrupt braking while driving.**
- **Periodically check spare tire inflation pressure. Always keep the pressure of the TEMPORARY USE ONLY spare tire at 60 psi (420 kPa, 4.2 bar).**
- **With the TEMPORARY USE ONLY spare tire installed do not drive the vehicle at speeds faster than 50 mph (80 km/h)**
- **When driving on roads covered with snow or ice, the TEMPORARY USE ONLY spare tire should be used on the rear wheels and the original tire used on the front wheels (drive wheels).**
- **Tire tread of the TEMPORARY USE ONLY spare tire will wear at a faster rate than the standard tire. Replace the spare tire as soon as the tread wear indicators appear.**
- **Do not use the spare tire on other vehicles.**
- **Do not use more than one spare tire at the same time.**
- **Do not tow a trailer when the TEMPORARY USE ONLY spare tire is installed.**

⚠CAUTION

- **Do not use tire chains on a TEMPORARY USE ONLY spare tire. Tire chains will not fit properly and may cause damage to the vehicle.**
- **Because the TEMPORARY USE ONLY spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle, do not drive over obstacles. Also, do not drive the vehicle through an automatic car wash since it may get caught.**

Emergency tire puncture repair kit (if so equipped)

The emergency tire puncture repair kit (Emergency Tire Sealant) is supplied with the vehicle instead of a spare tire. It can be used to temporarily repair minor tire punctures.

If possible, have the vehicle towed to a facility that can repair or replace the flat tire. Using the emergency tire puncture repair kit may cause a malfunction of the tire pressure sensor and cause the low tire pressure warning light to illuminate.

For additional information, see "Flat tire" (P. 407).

NOTE:

For models with the emergency tire puncture repair kit, a spare tire, jack and rod are not equipped as standard.

MEMO

9 Maintenance and schedules

Maintenance requirements 468
Basic information 468
General maintenance 468
Scheduled maintenance 468
Where to go for service 468
General maintenance 468
Basic information 468
Explanation of general maintenance items 468
Explanation of scheduled maintenance items . . . 471
Basic information 471
Emission control system maintenance: 471
Chassis and body maintenance: 471
Maintenance schedules 472
Basic information 472
Additional Maintenance Items for severe operating conditions 472
2.0L 4 cylinder (MR20DD engine model) 472

MAINTENANCE REQUIREMENTS

BASIC INFORMATION

Some day-to-day and regular maintenance is essential to maintain your vehicle good mechanical condition, as well as its emissions and engine performance.

It is the owner's responsibility to make sure that the scheduled maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives proper maintenance. You are a vital link in the maintenance chain.

GENERAL MAINTENANCE

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. It is your responsibility to perform these procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by yourself, a qualified technician or, if you prefer, a NISSAN dealer.

SCHEDULED MAINTENANCE

The maintenance items listed in this section are required to be serviced at regular intervals. However, under severe driving conditions, additional or more frequent maintenance will be required.

WHERE TO GO FOR SERVICE

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and serviced. It is recommended that you visit a NISSAN dealer for this service.

NISSAN technicians are well-trained specialists and are kept up-to-date with the latest service information through technical bulletins, service tips and training programs. They are fully qualified to work on NISSAN vehicles **before** work begins.

If your vehicle is involved in a collision, it is recommended that you ask your NISSAN dealer where the nearest NISSAN Certified Collision Center is located, or go to http://collision.nissanusa.com.

You can be confident that a NISSAN dealer's service department can perform the service needed to meet the maintenance requirements on your vehicle.

GENERAL MAINTENANCE

BASIC INFORMATION

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smells, be sure to check for the cause or have it checked promptly. In addition, it is recommended that you visit a NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe the "Maintenance precautions" (P. 432).

EXPLANATION OF GENERAL MAINTENANCE ITEMS

Basic information

⚠WARNING

Failure to follow the procedures listed within this section may result in personal injury.

Additional information on the following items with " * " is found in the "Do-it-yourself" section of this manual.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and engine hood: Check that the doors and engine hood operate properly. Also ensure that all latches lock securely. Lubricate hinges, latches, latch pins, rollers and links if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.

When driving in areas using road salt or other corrosive materials, check lubrication frequently.

Check that the gas stays or struts properly and securely hold the hood, trunk, or rear hatch fully open. If the hood, trunk, or rear hatch is not held open, have the gas stays or struts replaced.

Lights*: Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

Road wheel nuts (lug nuts)*: When checking the tires, make sure no wheel nuts are missing, and check for any loose wheel nuts. Tighten if necessary.

Tire rotation*: Rotate tires at the specified interval shown in the maintenance schedule.

Tires*: Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

Tire Pressure Monitoring System (TPMS) tire pressure sensor: It is recommended that you replace the tire pressure sensor assembly when the tires are replaced due to wear or age.

Wheel alignment and balance: If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.

Windshield: Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility. It is recommended that you have a damaged windshield repaired by a NISSAN dealer, or a NISSAN Certified Collision Center. To locate a collision center in your area, refer to http://collision.nissanusa.com.

Windshield wiper blades*: Check for cracks or wear if they do not wipe properly.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing scheduled maintenance, cleaning the vehicle, etc.

Accelerator pedal: Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mat away from the pedal.

Brake pedal: Check the pedal for smooth operation. If the brake pedal suddenly goes down further than normal, the pedal feels spongy or the vehicle seems to take longer to stop, have your vehicle checked immediately. It is recommended that you visit a NISSAN dealer for this service. Keep the floor mat away from the pedal.

Brakes: Check that the brakes do not pull the vehicle to one side when applied.

Continuously Variable Transmission (CVT) P (Park) position mechanism: On a fairly steep hill check that the vehicle is held securely with the shift lever in the P (Park) position without applying any brakes.

Parking brake: Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs adjustment, it is recommended that you visit a NISSAN dealer for this service.

Seats: Check seat position controls such as seat adjusters, seatback recliner, etc., to ensure they operate smoothly and all latches lock securely in every position. Check that the head restraints/headrests move up and

down smoothly and the locks (if so equipped) hold securely in all latched positions.

Seat belts: Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

Steering wheel: Check for changes in the steering system, such as excessive free play, hard steering or strange noises.

Warning lights and chimes: Make sure all warning lights and chimes are operating properly.

Windshield defroster: Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.

Windshield wiper and washer*: Check that the wipers and washer operate properly and that the wipers do not streak.

Under the hood and vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Battery*:This vehicle is equipped with a sealed maintenance free battery. It is recommended that you visit a NISSAN dealer for service.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.).**
2. **Vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

Brake fluid level*: Make sure that the brake fluid level is between the MIN and MAX lines on the reservoir.

Engine coolant level*: Check the coolant level when the engine is cold.

Engine drive belts*: Make sure the drive belt is not frayed, worn, cracked or oily.

Engine oil level*: Check the level after parking the vehicle on a level surface with the engine off. Wait more than 15 minutes for the oil to drain back into the oil pan.

Engine valve clearance*: Inspect only if valve noise increases.

Exhaust system: Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately have the exhaust system inspected. It is recommended that you visit a NISSAN dealer for this service. For additional information, see "Exhaust gas (carbon monoxide)" (P. 229).

Fluid leaks: Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if fuel fumes are evident, check for the cause and have it corrected immediately.

Radiator and hoses: Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, rot or loose connections.

Underbody: The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances from the underbody, otherwise rust may form on the floor pan, frame, fuel lines and exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, in those areas where mud and dirt may have accumulated. For additional information, see "Cleaning exterior" (P. 424).

Windshield-washer fluid*: Check that there is adequate fluid in the reservoir.

EXPLANATION OF SCHEDULED MAINTENANCE ITEMS

BASIC INFORMATION

The following descriptions are provided to give you a better understanding of the scheduled maintenance items that should be regularly checked or replaced. The maintenance schedule indicates at which mileage/time intervals each item requires service.

In addition to scheduled maintenance, your vehicle requires that some items be checked during normal day-to-day operation. For additional information, see "General maintenance" (P. 468).

Items marked with **"*"** are recommended by NISSAN for reliable vehicle operation. You are not required to perform maintenance on these items in order to maintain the warranties which come with your NISSAN. Other maintenance items and intervals are required.

When applicable, additional information can be found in the "Do-it-yourself" section of this manual.

NOTE:

NISSAN does not advocate the use of non-OEM approved aftermarket flushing systems and strongly advises against performing these services on a NISSAN product. Many of the aftermarket flushing systems use non-OEM approved chemicals or solvents, the use of which has not been validated by NISSAN.

For recommended fuel, lubricants, fluids, grease, and refrigerant, see "Recommended fluids/lubricants and capacities" (P. 487).

EMISSION CONTROL SYSTEM MAINTENANCE:

Air cleaner filter: Replace at specified intervals. When driving for prolonged periods in dusty conditions, check/replace the filter more frequently.

Engine coolant*: Replace coolant at the specified interval. When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with the proper mixture. For additional information on the proper mixture for your area, see "Engine cooling system" (P. 434).

NOTE: Mixing any other type of coolant or the use of non-distilled water may reduce the recommended service interval of the coolant.

Engine drive belts*: Check engine drive belt for wear, fraying or cracking and for proper tension. Replace any damaged drive belt.

Engine oil and oil filter: Replace engine oil and oil filter at the specified intervals. For recommended oil grade and viscosity see "Recommended fluids/lubricants and capacities" (P. 487).

Engine valve clearance*: Inspect only if valve noise increases. Adjust valve clearance if necessary.

Fuel filter*: Periodic maintenance is not required (in-tank type filter).

Fuel lines/connections*: Check the fuel hoses, piping and connections for leaks, looseness, or deterioration. Tighten connections or replace parts as necessary.

Fuel tank vapor vent system*: Check vapor lines for leaks or looseness. Tighten connections or replace parts as necessary.

Spark plugs: Replace at specified intervals. Install new plugs of the type as originally equipped.

CHASSIS AND BODY MAINTENANCE:

Brake lines: Visually inspect for proper installation. Check for chafing, cracks, deterioration, and signs of leaking. Replace any deteriorated or damaged parts immediately.

Brake pads and rotors: Check for wear, deterioration and fluid leaks. Replace any deteriorated or damaged parts immediately.

Exhaust system: Visually inspect the exhaust pipes, muffler and hangers for leaks, cracks, deterioration, and damage. Tighten connections or replace parts as necessary.

In-cabin microfilter: Replace at specified intervals. When driving for prolonged periods in dusty conditions, replace the filter more frequently.

Propeller shaft(s): Check for damage, looseness, and grease leakage. (AWD)

Steering gear and linkage, axle and suspension parts, drive shaft boots: Check for damage, looseness, and leakage of oil or grease. Under severe driving conditions, inspect more frequently.

Tire rotation: Rotate tires at the specified interval shown in the maintenance schedule. When rotating tires, check for damage and uneven wear. Replace if necessary.

Transmission fluid/oil, differential gear oil, coupling oil and transfer case oil: Visually inspect for signs of leakage at specified intervals.

If using a car-top carrier, or driving on rough or muddy roads:

- Replace the differential gear oil and transfer case oil every 20,000 miles (32,000 km) or 24 months.

MAINTENANCE SCHEDULES

BASIC INFORMATION

To help ensure smooth, safe and economical driving, NISSAN provides two maintenance schedules that may be used, depending upon the conditions in which you usually drive. These schedules contain both distance and time intervals, up to 120,000 miles (192,000 km)/144 months. For most people, the odometer reading will indicate when service is needed. However, if you drive very little, your vehicle should be serviced at the regular time intervals shown in the schedule.

After 120,000 miles (192,000 km)/ 144 months, continue maintenance at the same mileage/time intervals.

ADDITIONAL MAINTENANCE ITEMS FOR SEVERE OPERATING CONDITIONS

Additional maintenance items for severe operating conditions should be performed on vehicles that are driven under especially demanding conditions. Additional maintenance items should be performed if you primarily operate your vehicle under the following conditions:

- Repeated short trips of less than 5 miles (8 km).
- Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.
- Operating in hot weather in stop-and-go "rush hour" traffic.
- Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.
- Driving in dusty conditions.
- Driving on rough, muddy or salt spread roads.
- Using a car-top carrier.

If your vehicle is mostly operated under the severe conditions, follow the severe use maintenance intervals shown in the maintenance schedule.

2.0L 4 CYLINDER (MR20DD engine model)

Basic information

The following shows the maintenance schedule.

Choose the maintenance schedule needed based on your vehicle driving conditions.

After 120,000 miles (192,000 km)/ 144 months, continue maintenance at the same mileage/time interval.

5,000 miles/(8,000 km)/6 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

10,000 miles/(16,000 km)/ 12 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Propeller shaft (AWD models)
- Drive shaft boots
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)
- Intelligent Key battery* (1)

Essentials:

- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid

(1) Performed based on the number of service months only.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

15,000 miles/(24,000 km)/ 18 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

20,000 miles/(32,000 km)/ 24 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Fuel tank vapor vent system*
- Fuel lines/connections*
- Exhaust system
- Propeller shaft (AWD models)
- Drive shaft boots
- Steering gear & linkage
- Axle & suspension parts
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace brake fluid
- Replace engine oil & filter (1)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (2)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots

Essentials:

- Replace brake fluid
- Replace transfer case oil (AWD models)
- Replace differential gear oil (AWD models)
- Replace coupling oil (AWD models)

(1) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(2) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

25,000 miles/(40,000 km)/ 30 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

30,000 miles/(48,000 km)/ 36 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Propeller shaft (AWD models)
- Drive shaft boots
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace engine oil & filter (1)
- Replace in-cabin microfilter
- Replace Intelligent Key battery* (2)
- Tire rotation
- Replace air cleaner filter (3)

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid

(1) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(2) Performed based on the number of service months only.

(3) If operating mainly in dusty conditions, more frequent maintenance may be required.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

35,000 miles/(56,000 km)/ 42 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

40,000 miles/(64,000 km)/ 48 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Fuel tank vapor vent system*
- Fuel lines/connections*
- Exhaust system
- Propeller shaft (AWD models)
- Drive shaft boots
- Steering gear & linkage
- Axle & suspension parts
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace brake fluid
- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid
- Replace transfer case oil (AWD models)
- Replace differential gear oil (AWD models)
- Replace coupling oil (AWD models)

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

45,000 miles/(72,000 km)/ 54 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

50,000 miles/(80,000 km)/ 60 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Propeller shaft (AWD models)
- Drive shaft boots
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

55,000 miles/(88,000 km)/ 66 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

60,000 miles/(96,000 km)/ 72 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- Engine drive belts* (1)
- Fuel tank vapor vent system*
- Fuel lines/connections*
- Exhaust system
- Propeller shaft (AWD models)
- Drive shaft boots
- Steering gear & linkage
- Axle & suspension parts
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace brake fluid
- Replace CVT fluid
- Replace engine oil & filter (2)
- Replace in-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation
- Replace air cleaner filter (4)

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid
- Replace transfer case oil (AWD models)
- Replace differential gear oil (AWD models)
- Replace coupling oil (AWD models)

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

(4) If operating mainly in dusty conditions, more frequent maintenance may be required.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

65,000 miles/(104,000 km)/ 78 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

70,000 miles/(112,000 km)/ 84 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Propeller shaft (AWD models)
- Drive shaft boots
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

3) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

75,000 miles/(120,000 km)/ 90 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

80,000 miles/(128,000 km)/ 96 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Fuel tank vapor vent system*
- Fuel lines/connections*
- Exhaust system
- Propeller shaft (AWD models)
- Drive shaft boots
- Steering gear & linkage
- Axle & suspension parts
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace brake fluid
- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid
- Replace transfer case oil (AWD models)
- Replace differential gear oil (AWD models)
- Replace coupling oil (AWD models)

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

85,000 miles/(136,000 km)/ 102 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

90,000 miles/(144,000 km)/ 108 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Propeller shaft (AWD models)
- Drive shaft boots
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace engine oil & filter (2)
- Replace in-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation
- Replace air cleaner filter (4)

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

(4) If operating mainly in dusty conditions, more frequent maintenance may be required.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

95,000 miles/(152,000 km)/ 114 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

100,000 miles/(160,000 km)/ 120 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Fuel tank vapor vent system*
- Fuel lines/connections*
- Exhaust system
- Propeller shaft (AWD models)
- Drive shaft boots
- Steering gear & linkage
- Axle & suspension parts
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace brake fluid
- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid
- Replace transfer case oil (AWD models)
- Replace differential gear oil (AWD models)
- Replace coupling oil (AWD models)

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

105,000 miles/(168,000 km)/ 126 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Essentials:

- Replace spark plugs
- Replace engine coolant* (1)

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

(1) First replacement interval is 105,000 miles (168,000 km) or 84 months. After first replacement, replace every 75,000 miles (120,000 km) or 60 months.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

110,000 miles/(176,000 km)/ 132 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- CVT fluid
- Engine drive belts* (1)
- Propeller shaft (AWD models)
- Drive shaft boots
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace engine oil & filter (2)
- Replace In-cabin microfilter
- Replace Intelligent Key battery* (3)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid

(1) Replace the drive belts if found damaged.

(2) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(3) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

115,000 miles/(184,000 km)/ 138 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Not applicable. Proceed to the next interval.

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Tire rotation

120,000 miles/(192,000 km)/ 144 months

Perform at number of miles, kilometers or months, whichever comes first.

Standard maintenance:

Inspections:

- Brake lines
- Brake pads & rotors
- Engine drive belts* (1)
- Fuel tank vapor vent system*
- Fuel lines/connections*
- Exhaust system
- Propeller shaft (AWD models)
- Drive shaft boots
- Steering gear & linkage
- Axle & suspension parts
- Transfer case oil (AWD models)
- Differential gear oil (AWD models)
- Coupling oil (AWD models)

Essentials:

- Replace air cleaner filter (2)
- Replace brake fluid
- Replace CVT fluid
- Replace engine oil & filter (3)
- Replace in-cabin microfilter
- Replace Intelligent Key battery* (4)
- Tire rotation

Severe use maintenance:

Inspections:

- Brake pads & rotors
- Steering gear & linkage
- Axle & suspension parts
- Propeller shaft (AWD models)
- Drive shaft boots
- Exhaust system

Essentials:

- Replace brake fluid
- Replace transfer case oil (AWD models)
- Replace differential gear oil (AWD models)
- Replace coupling oil (AWD models)

(1) Replace the drive belts if found damaged.

(2) If operating mainly in dusty conditions, more frequent maintenance may be required.

(3) If the oil replacement indicator is displayed, please change the engine oil and filter within two weeks or less than 500 miles (800 km). After replacing the engine oil, reset the display.

(4) Performed based on the number of service months only.

* Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

10 Technical and consumer information

Recommended fluids/lubricants and capacities 487
- Basic information 487
- Fuel 487
- Engine oil drain and refill 487
- Engine coolant with reservoir 487
- Continuously Variable Transmission (CVT) fluid 487
- Differential gear oil 487
- Transfer case oil (AWD models) 487
- Coupling oil 487
- Brake fluid 487
- Multi-purpose grease 488
- Air conditioning system refrigerant 488
- Air conditioning system oil 488
- Windshield-washer fluid 488
- Fuel recommendation 488
- Engine oil and oil filter recommendations 490
- Air conditioner system refrigerant and oil recommendations 491

Specifications 492
- Engine 492
- Wheels and tires 492
- Dimensions and weights 492

When traveling or registering in another country 493
Vehicle identification 494
- Vehicle Identification Number (VIN) plate 494
- Vehicle identification number (chassis number) 494
- Engine serial number 494
- F.M.V.S.S./C.M.V.S.S. certification label 495
- Emission control information label 495
- Tire and Loading Information label 495
- Air conditioner specification label 496

Installing front license plate 496
Vehicle loading information 497
- Basic information 497
- Terms 498
- Vehicle load capacity 498
- Securing the load 500
- Loading tips 501
- Measurement of weights 501

Towing a trailer 502
Flat towing your vehicle 502
- Flat towing for all-wheel drive vehicle (if so equipped) 502
- Flat towing for front-wheel drive vehicle (if so equipped) 502
- Continuously Variable Transmission 502

Uniform tire quality grading 503
Reporting safety defects 503
Readiness for Inspection/Maintenance (I/M) test 504

Emission control system warranty 505
Event Data Recorders (EDR) 505
Basic information 505
Additional data recording (on vehicles equipped with optional ProPILOT Assist) 505
Owner's Manual/Service Manual order information 506
Intelligent key system 506

RECOMMENDED FLUIDS/ LUBRICANTS AND CAPACITIES

BASIC INFORMATION

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure described in the "Do-it-yourself" section to determine the proper refill capacity.

FUEL

For additional information, see "Fuel recommendation" (P. 488).

Two-Wheel Drive (2WD) models

- Capacity (approximate)
  - Metric Measure: 45 L
  - US Measure: 11-7/8 gal
  - Imperial Measure: 9-7/8 gal

All-Wheel Drive (AWD) models

- Capacity (approximate)
  - Metric Measure: 47 L
  - US Measure: 12-3/8 gal
  - Imperial Measure: 10-3/8 gal

ENGINE OIL DRAIN AND REFILL

For additional information, see "Engine oil" (P. 435).

- Genuine "NISSAN Motor Oil 0W-20 SP" (or equivalent) is recommended.
- If the above motor oil (or engine oil) is not available, a synthetic 0W-20 GF-6A SP motor oil (or engine oil) may be used. Damage caused by the use of motor oil (or engine oil) other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty. For additional information, see "Engine oil and oil filter recommendations" (P. 490).

With oil filter change

- Capacity (approximate)
  - Metric Measure: 4.1 L
  - US Measure: 4-3/8 qt
  - Imperial Measure: 3-5/8 qt

Without oil filter change

- Capacity (approximate)
  - Metric Measure: 3.8 L
  - US Measure: 4 qt
  - Imperial Measure: 3-3/8 qt

ENGINE COOLANT WITH RESERVOIR

Pre-diluted Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent

- Capacity (approximate)
  - Metric Measure: 7.4 L
  - US Measure: 2 gal
  - Imperial Measure: 1-5/8 gal

CONTINUOUSLY VARIABLE TRANSMISSION (CVT) FLUID

For additional information, see "Continuously Variable Transmission (CVT) fluid" (P. 438).

- Genuine NISSAN CVT Fluid NS-3
- NISSAN recommends using Genuine NISSAN CVT Fluid NS-3 (or equivalent) ONLY in NISSAN CVTs. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN CVT Fluid NS-3 may damage the CVT. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty outlined in your Warranty Information Booklet.

DIFFERENTIAL GEAR OIL

- Genuine NISSAN HYPOID FLUID·S1 GL-5 75W-80 or equivalent
- NISSAN recommends using Genuine NISSAN HYPOID FLUID·S1 GL-5 75W-80 ONLY in NISSAN final drive. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN HYPOID FLUID·S1 GL-5 75W-80 may damage the final drive. Damage caused by the use of fluids other than as recommended is not covered under the warranty.

TRANSFER CASE OIL (AWD models)

- Genuine NISSAN Differential oil Hypoid Super-S GL-5 synthetic 75W-90 or equivalent

COUPLING OIL

- Genuine NISSAN LSC Coupling Transmission Fluid 12–301 or equivalent

BRAKE FLUID

Refill to the proper level according to the instructions, see "Brake fluid" (P. 438).

- Genuine NISSAN Super Heavy Duty Brake Fluid, available in mainland U.S.A. through a NISSAN dealer, or equivalent DOT 3 or DOT 4.

MULTI-PURPOSE GREASE

- NLGI No. 2 (Lithium soap base)

AIR CONDITIONING SYSTEM REFRIGERANT

- HFO-1234yf (R-1234yf)
- For additional information, see "Air conditioner system refrigerant and oil recommendations" (P. 491).

AIR CONDITIONING SYSTEM OIL

- Genuine NISSAN A/C System Oil Type PAG (YR20 oil) or equivalent
- For additional information, see "Air conditioner system refrigerant and oil recommendations" (P. 491).

WINDSHIELD-WASHER FLUID

- Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent
- Capacity (approximate)
  - Metric Measure: 4.2 L
  - US Measure: 1-1/8 gal
  - Imperial Measure: 7/8 gal

FUEL RECOMMENDATION

Basic information

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠ CAUTION

- **Only vehicles with the E-85 filler door label can operate on E-85. Fuel system or other damage can occur if E-85 is used in vehicles that are not designed to run on E-85.**
- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the NISSAN New Vehicle Limited Warranty.**
- **Do not use fuel that contains the octane booster methylcyclopentadienyl manganese tricarbonyl (MMT). Using fuel containing MMT may adversely affect vehicle performance and vehicle emissions. Not all fuel dispensers are labeled to indicate MMT content, so you may have to consult your gasoline retailer for more details. Note that Federal and California laws prohibit the use of MMT in reformulated gasoline.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**
- **No fuel additive is permitted for this vehicle.**
- **Never use fuels containing metallic additives (such as manganese) which will damage the engine.**

Gasoline specifications

NISSAN recommends using gasoline that meets the World-Wide Fuel Charter (WWFC) specifications where it is available. Many of the automobile manufacturers developed this specification to improve emission control system and vehicle performance. Ask your service station manager if the gasoline meets the WWFC specifications.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. NISSAN supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, Methyl Tert-butyl Ether (MTBE) and methanol with or without advertising their presence. NISSAN does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your NISSAN cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- **The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.**
- **If an oxygenate-blend other than methanol blend is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%)**
- **E-15 fuel contains more than 10% oxygenate. E-15 fuel will adversely affect the emission control devices and systems of the vehicle and should not be used. Damage caused by such fuel is not covered by the NISSAN New Vehicle Limited Warranty.**
- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in NISSAN vehicles.**

If any driveability problems such as engine stalling and difficult hot-starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

E–15 fuel

E-15 fuel is a mixture of approximately 15% fuel ethanol and 85% unleaded gasoline. E-15 can only be used in vehicles designed to run on E-15 fuel. Do not use E-15 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified with small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

E–85 fuel

E-85 fuel is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline. E-85 can only be used in a Flexible Fuel Vehicle (FFV). Do not use E-85 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

Fuel containing MMT

MMT, or methylcyclopentadienyl manganese tricarbonyl, is an octane boosting additive. NISSAN does not recommend the use of fuel containing MMT. Such fuel may adversely affect vehicle performance, including the emissions control system. Note that while some fuel pumps label MMT content, not all do, so you may have to consult your gasoline retailer for more details.

Aftermarket fuel additives

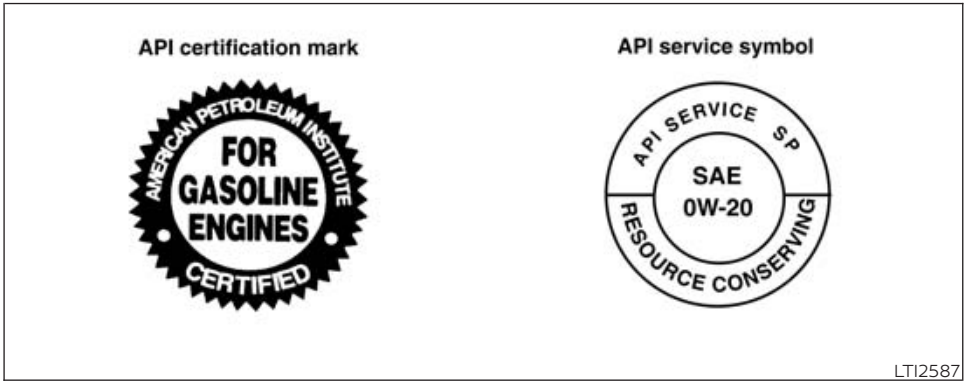
NISSAN does not recommend the use of any aftermarket fuel additives (for example, fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvents or similar ingredients that can be harmful to the fuel system and engine.

Octane rating tips

Using unleaded gasoline with an octane rating lower than recommended can cause persistent, heavy "spark knock." ("Spark knock" is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, it is recommended that you have a NISSAN dealer correct the condition. Failure to correct the condition is misuse of the vehicle, for which NISSAN is not responsible.

Incorrect ignition timing may result in spark knock, after-run and/or overheating, which may cause excessive fuel consumption or engine damage. If any of the above symptoms are encountered, have your vehicle checked. It is recommended that you visit a NISSAN dealer for servicing.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is not a cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.



ENGINE OIL AND OIL FILTER RECOMMENDATIONS

Selecting the correct oil

It is essential to choose the correct grade, quality and viscosity engine oil to ensure satisfactory engine life and performance. For additional information, see "Recommended fluids/lubricants and capacities" (P. 487). NISSAN recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important to select the engine oil viscosity based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new NISSAN vehicle is equipped with a high-quality Genuine NISSAN oil filter. When replacing, use a Genuine NISSAN oil filter or its equivalent for the reason described in "Change intervals."

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Using engine oil and filters that are not of the specified quality, or exceeding recommended oil and filter change intervals could reduce engine life. Damage to the engine caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the NISSAN New Vehicle Limited Warranty.

Your engine was filled with a high-quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle.

Operation under the following conditions may require more frequent oil and filter changes:

- repeated short distance driving at cold outside temperatures
- driving in dusty conditions
- extensive idling
- stop and go commuting

For additional information on maintenance schedules, refer to the "Maintenance and schedules" section of this manual.

AIR CONDITIONER SYSTEM REFRIGERANT AND OIL RECOMMENDATIONS

The air conditioner system in your NISSAN vehicle must be charged with the refrigerant HFO-1234yf (R-1234yf) and NISSAN A/C system oil Type PAG (YR20 oil) or the exact equivalents.

⚠CAUTION

The use of any other refrigerant or oil will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFO-1234yf (R-1234yf) in your NISSAN vehicle does not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain government regulations require the recovery and recycling of any refrigerant during automotive air conditioner system service. Air conditioner system should only be serviced by trained and certified technicians to ensure proper and safe operation (SAE J2845). A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioner system refrigerant. Only new and SAEJ2842 certified evaporator(s) shall be used as replacement parts.

A damaged or leaking air conditioning evaporator shall never be repaired or replaced with one removed from a used or salvaged vehicle. To replace a damaged or leaking evaporator, use only new and SAE J2842 certified evaporator(s). It is recommended that you visit a NISSAN dealer when servicing your air conditioner system.

SPECIFICATIONS

ENGINE

- Model
  - 2.0L 4 cylinder (MR20DD engine model)
- Type
  - Gasoline, 4-cycle, DOHC
- Cylinder arrangement
  - 4-cylinder, inline
- Bore x Stroke
  - Metric measure: 84.0 mm x 90.1 mm
  - US measure: 3.307 in x 3.547 in
- Displacement
  - Metric measure: 1,997 cm^3
  - US measure: 121.86 cu in
- Firing order: 1–3–4–2
- Idle speed
  - No adjustment necessary
- CVT in N (Neutral) position
  - No adjustment necessary
- Ignition timing (degree B.T.D.C. at idle speed)
  - No adjustment necessary
- CO % at idle
  - No adjustment necessary
- Spark plug
  - SXE22H11C
- Spark plug gap (Nominal)
  - Metric measure: 1.1 mm
  - US measure: 0.043 in
- Camshaft operation
  - Timing chain

This spark ignition system complies with the Canadian standard ICES-002.

WHEELS AND TIRES

Wheels

- Steel wheel
  - Offset – Metric Measure: 32 mm
  - Offset – US Measure: 1.26 in
  - Size: 16 x 6.5J
- Steel wheel
  - Offset – Metric Measure: 35 mm
  - Offset – US Measure: 1.38 in
  - Size: 17 x 7J
- Alloy wheel
  - Offset – Metric Measure: 35 mm
  - Offset – US Measure: 1.38 in
  - Size: 17 x 7J
- Alloy wheel
  - Offset – Metric Measure: 35 mm
  - Offset – US Measure: 1.38 in
  - Size: 19 x 7.5J
- T-type (steel spare)
  - Offset – Metric Measure: 30 mm
  - Offset – US Measure: 1.18 in
  - Size: 17 x 4T

Tire size

- 215/65R16
- 215/60R17
- 225/45R19

Spare tire (if so equipped)

- Temporary
  - T145/80D17
  - T155/80D17

With emergency tire puncture repair kit (if so equipped)

For additional information, refer to the Tire and Loading Information label.

DIMENSIONS AND WEIGHTS

Overall length

- Metric Measure: 4,365 mm
- US Measure: 171.9 in

Overall width

- Metric Measure: 1,800 mm
- US Measure: 70.9 in

Overall height

- Includes roof rails
  - FWD – Metric Measure: 1,630 mm
  - FWD – US Measure: 64.2 in
  - AWD – Metric Measure: 1,625 mm
  - AWD – US Measure: 64 in
- Rock Creek model
  - AWD – Metric Measure: 1,677 mm
  - AWD – US Measure: 66.0 in

Front track

- S model
  - Metric Measure: 1,563 mm
  - US Measure: 61.5 in
- SV model
  - Metric Measure: 1,557 mm
  - US Measure: 61.3 in
- SR model
  - Metric Measure: 1,559 mm
  - US Measure: 61.4 in

- Rock Creek model
  - AWD – Metric Measure: 1,557 mm
  - AWD – US Measure: 61.3 in

Rear track

- S model
  - FWD – Metric Measure: 1,562 mm
  - FWD – US Measure: 61.5 in
  - AWD – Metric Measure: 1,567 mm
  - AWD – US Measure: 61.7 in
- SV model
  - FWD – Metric Measure: 1,556 mm
  - FWD – US Measure: 61.3 in
  - AWD – Metric Measure: 1,561 mm
  - AWD – US Measure: 61.5 in
- SR model
  - FWD – Metric Measure: 1,558 mm
  - FWD – US Measure: 61.3 in
  - AWD – Metric Measure: 1,563 mm
  - AWD – US Measure: 61.5 in
- Rock Creek model
  - AWD – Metric Measure: 1,567 mm
  - AWD – US Measure: 61.7 in

Wheelbase

- FWD – Metric Measure: 2,655 mm
- FWD – US Measure: 104.5 in
- AWD – Metric Measure: 2,665 mm
- AWD – US Measure: 104.9 in

Gross vehicle weight rating

- For additional information, refer to the "F.M.V.S.S./C.M.V.S.S. certification label" on the center pillar between the driver's side front and rear doors.

Gross axle weight rating

- Front or rear
  - For additional information, refer to the "F.M.V.S.S./C.M.V.S.S. certification label" on the center pillar between the driver's side front and rear doors.

WHEN TRAVELING OR REGISTERING IN ANOTHER COUNTRY

When planning to drive your NISSAN vehicle in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

Using fuel with an octane rating that is too low may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

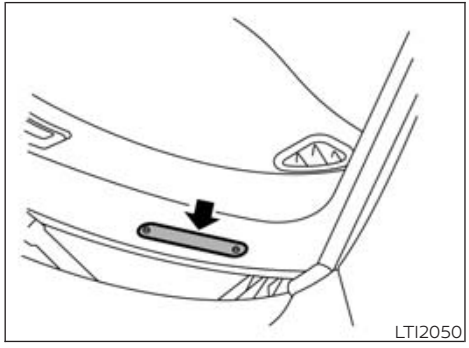
When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

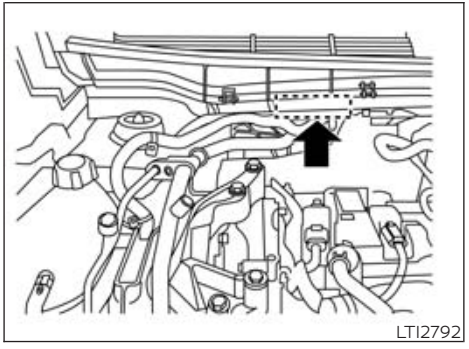
VEHICLE IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER (VIN) PLATE



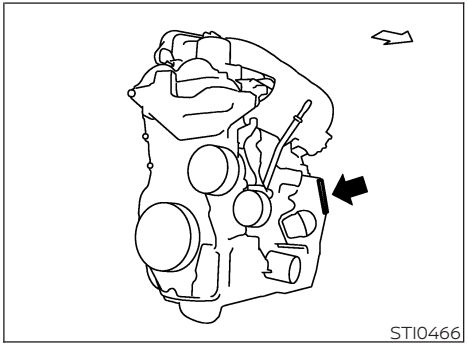
The Vehicle Identification Number (VIN) plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.

VEHICLE IDENTIFICATION NUMBER (chassis number)



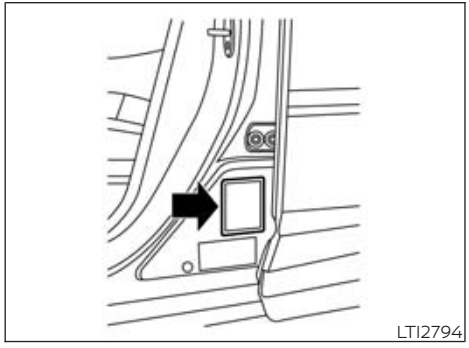
The vehicle identification number is located as shown.

ENGINE SERIAL NUMBER



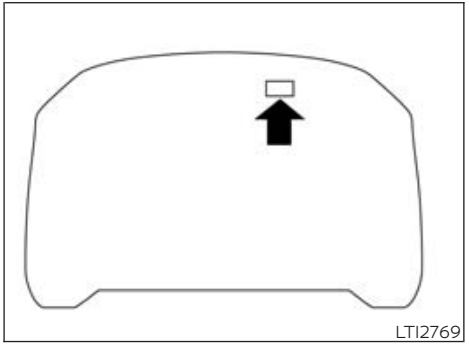
The number is stamped on the engine as shown.

F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL



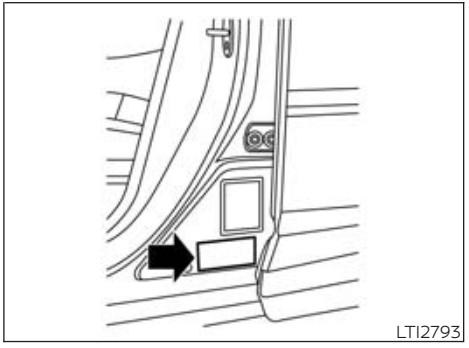
The Federal/Canadian Motor Vehicle Safety Standard (F.M.V.S.S./C.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number (VIN), etc. Review it carefully.

EMISSION CONTROL INFORMATION LABEL



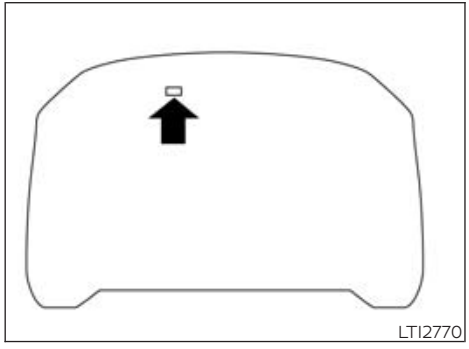
The emission control information label is attached to the underside of the hood as shown.

TIRE AND LOADING INFORMATION LABEL



The cold tire pressure is shown on the Tire and Loading Information label. The label is located as shown.

AIR CONDITIONER SPECIFICATION LABEL



The air conditioner specification label is affixed to the underside of the hood as shown.

Air Conditioner Specification Label Symbols

Caution symbol

- Reference
  - ISO 7000 0434

Air Conditioning System symbol (MAC)

- Reference
  - ISO 2575 D01

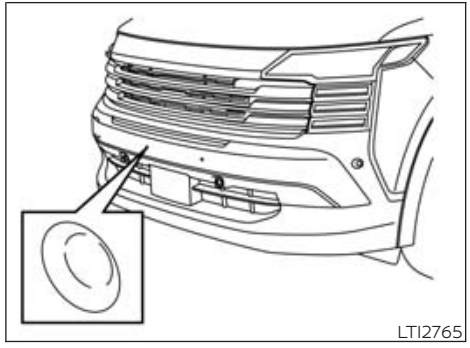
MAC System Lubricant Type symbol (PAG–POE)

Requires Registered Technician to Service MAC System symbol

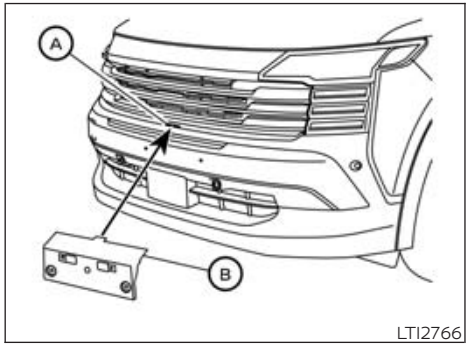
Flammable Refrigerant symbol

INSTALLING FRONT LICENSE PLATE

To install the front license plate bracket:

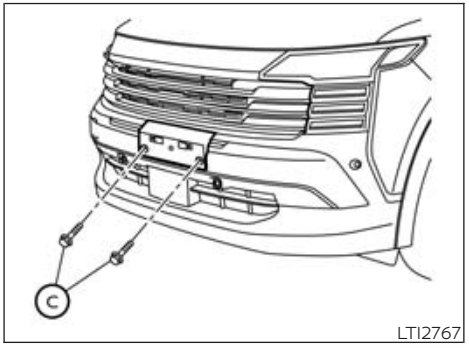


1. For alignment purposes, there are two marks on the fascia to indicate the correct position for each screw.



LTI2766

2. Locate the alignment gap Ⓐ within the radiator grille and place the license plate bracket Ⓑ against the fascia. The bracket will align with the gap and two marks from step 1.



LTI2767

3. Use two 6 mm screws Ⓒ to attach front license plate bracket to the fascia.

NOTE:

Mounting screws are not supplied with vehicle.

VEHICLE LOADING INFORMATION

BASIC INFORMATION

⚠WARNING

- **It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **To minimize the risk of severe injury or death in the event of crash be sure everyone in your vehicle is in a seat and using a seat belt properly.**

- **Never allow passengers to ride inside a trailer while it is being towed because there are no passenger restraints in a trailer. Not only is this unlawful in most areas, passengers could be seriously injured or killed during sudden trailer movement or in an accident. In addition, trailers may allow fumes from the tow vehicle to leak inside. This could result in carbon monoxide poisoning from the engine exhaust.**

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total combined weight of the unloaded vehicle, passengers, cargo, hitch, trailer tongue load and any other optional equipment. This information is located on the F.M.V.S.S. certification label.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle. This information is located on the F.M.V.S.S./C.M.V.S.S. certification label.
- GCWR (Gross Combined Weight Rating) - The maximum total weight rating of the vehicle, passengers, cargo, and trailer.
- Vehicle Capacity Weight, Load limit, Total load capacity - maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
- Cargo capacity - permissible weight of cargo, the subtracted weight of occupants from the load limit.

VEHICLE LOAD CAPACITY

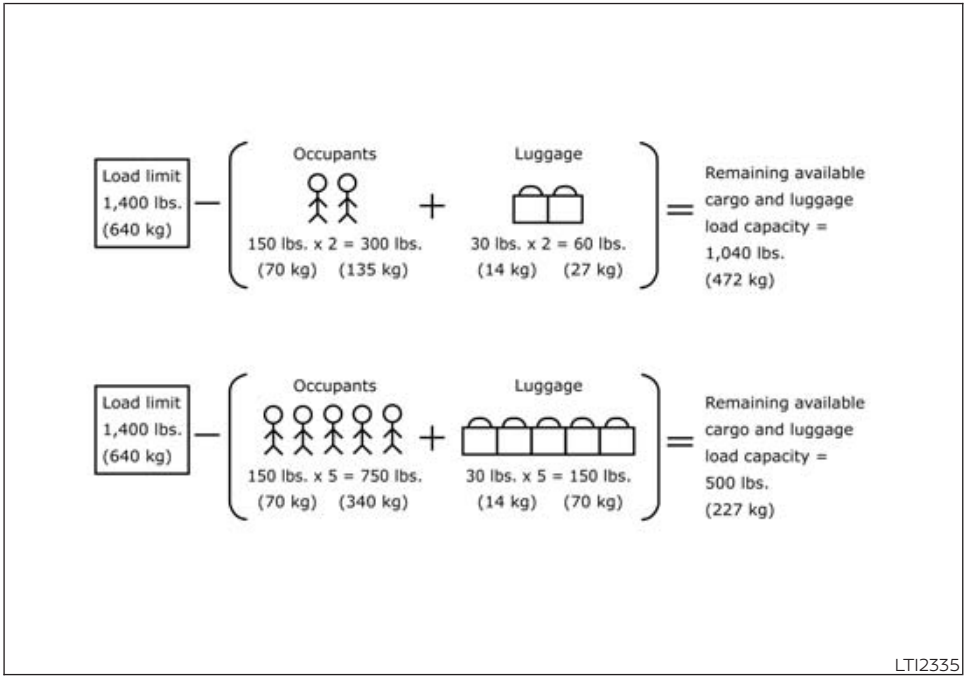
Basic information

Before driving a loaded vehicle, confirm that you do not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR) for your vehicle. Both the GVWR and GAWR are located on the F.M.V.S.S./C.M.V.S.S. certification label.

For additional information, see "Measurement of weights" (P. 501).

Do not exceed the load limit of your vehicle shown as "The combined weight of occupants and cargo" on the Tire and Loading Information label. Do not exceed the number of occupants shown as "Seating Capacity" on the Tire and Loading Information label.

To get "the combined weight of occupants and cargo", add the weight of all occupants, then add the total cargo weight. Examples are shown in the following illustration.



Example

Steps For Determining Correct Load Limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.

2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400-750 (5 X 150) = 650 lbs.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Towing a trailer with a vehicle that is not intended for towing may result in an accident involving injury or death.

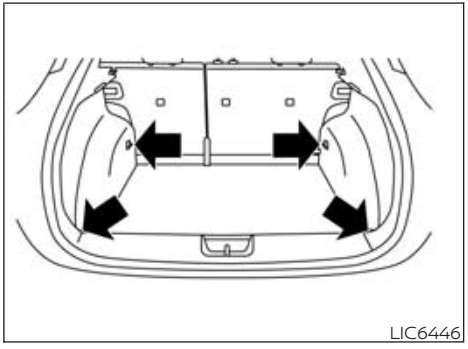
⚠WARNING

Do not tow a trailer with your vehicle. Towing a trailer may result in an accident involving injury or death.

Before driving a loaded vehicle, confirm that you do not exceed the (GVWR) or the (GAWR) for your vehicle. For additional information, see "Measurement of weights" (P. 501).

Also check tires for proper inflation pressures. For additional information, see "Tire and Loading Information label" (P. 455).

SECURING THE LOAD



Cargo area luggage hooks

There are luggage hooks located in the cargo area as shown. The hooks can be used to secure cargo with ropes or other types of straps.

When securing items using luggage hooks, do not apply a load over more than 110 lbs. (490 N) to a single hook.

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

- **The child restraint top tether strap may be damaged by contact with items in the cargo area. Secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**

LOADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S./ C.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**
- **Overloading and improper loading not only can shorten the life of your vehicle and the tire, but can also cause unsafe vehicle handling and longer braking distances. This may cause a premature tire failure which could result in a serious accident and personal injury.**

Failures caused by overloading are not covered by the vehicle's warranty.

MEASUREMENT OF WEIGHTS

Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the vehicle is loaded, drive to a scale and weigh the front and the rear wheels separately to determine axle loads. Individual axle loads should not exceed either of the Gross Axle Weight Ratings (GAWR). The total of the axle loads should not exceed the Gross Vehicle Weight Rating (GVWR). These ratings are given on the vehicle certification label. If weight ratings are exceeded, move or remove items to bring all weights below the ratings.

TOWING A TRAILER

Do not tow a trailer with your vehicle.

FLAT TOWING YOUR VEHICLE

FLAT TOWING FOR ALL–WHEEL DRIVE VEHICLE (if so equipped)

Towing your vehicle with all four wheels on the ground is sometimes called flat towing, dinghy towing or 4 down towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

⚠ CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Never flat tow your All-wheel drive (AWD) vehicle.**
- **DO NOT tow your All-wheel drive (AWD) vehicle with any wheels on the ground. Doing so may cause serious and expensive damage to the powertrain.**
- **For emergency towing procedures see "Towing recommended by NISSAN" (P. 419).**

FLAT TOWING FOR FRONT–WHEEL DRIVE VEHICLE (if so equipped)

Towing your vehicle with all four wheels on the ground is sometimes called flat towing, dinghy towing or 4 down towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

⚠ CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Whenever flat towing your vehicle, always tow forward, never backward.**
- **Never tow your front-wheel drive vehicle with the front tires on the ground. Doing so may cause serious and expensive damage to the powertrain.**
- **DO NOT tow your front-wheel drive continuously variable transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL DAMAGE internal transmission parts due to lack of transmission lubrication.**
- **For emergency towing procedures see "Towing recommended by NISSAN" (P. 419).**

CONTINUOUSLY VARIABLE TRANSMISSION

To tow a vehicle equipped with a continuously variable transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacturer's recommendations when using their product.

UNIFORM TIRE QUALITY GRADING

DOT (Department of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B and C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

⚠WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B and C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat, and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

⚠WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

REPORTING SAFETY DEFECTS

For USA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying NISSAN.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or NISSAN.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-888-275-9171); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

You may notify NISSAN by contacting our Consumer Affairs Department, toll-free, at 1-800-NISSAN-1.

For Canada

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada in addition to notifying NISSAN.

If Transport Canada receives complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may request that NISSAN conduct a recall campaign. However, Transport Canada cannot become involved in individual problems between you, your dealer, or NISSAN.

You may contact Transport Canada's Defect Investigations and Recalls Division toll free at 1-800-333-0510. You may also report safety defects online at:
http://www.tc.gc.ca/eng/motorvehiclesafety/menu.htm (English speakers) or
http://www.tc.gc.ca/fra/securiteautomobile/menu.htm (French speakers)

Or contact Transport Canada by mail at:
Transport Canada Motor Vehicle Safety Investigations Laboratory
80 Noel Street Gatineau, QC J8Z0A1

Additional information concerning motor vehicle safety may be obtained from Transport Canada's Road Safety Information Centre at 1-800-333-0371 or online at www.tc.gc.ca/roadsafety (English speakers) or
www.tc.gc.ca/securiteroutiere (French speakers).

To notify NISSAN of any safety concerns please contact our Consumer Information Centre toll free at 1-800-387-0122.

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST

Due to legal requirements in some states and Canadian Provinces, your vehicle may be required to be in what is called the "ready condition" for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the "ready condition" when it is driven through certain driving patterns. Usually, the ready condition can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a "not ready" condition. Before taking the I/M test, check the vehicle's inspection/maintenance test readiness condition. Place the ignition switch in the ON position without starting the engine. If the Malfunction Indicator Light (MIL) comes on steady for 20 seconds and then blinks for 10 seconds , the I/M test condition is "not ready". If the MIL does not blink after 20 seconds, the I/M test condition is "ready". It is recommended that you visit a NISSAN dealer to set the "ready condition" or to prepare the vehicle for testing.

EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN vehicle is covered by the following emission warranties:

For USA

1. Emission Defects Warranty
2. Emissions Performance Warranty

Details of this warranty may be found with other vehicle warranties in your Electronic Warranty Information Booklet which can be accessed at https://www.nissanusa.com/owners/manuals-guides.html. A printed copy of the Warranty Information Booklet may be obtained by writing to:

- Nissan North America, Inc.
  Consumer Affairs Department
  P.O. Box 685003
  Franklin, TN 37068-5003
  1–800–NISSAN-1

For Canada

Emission Control System Warranty

Details of this warranty may be found with other vehicle warranties in your Warranty Information Booklet. The Warranty Information Booklet can be found at https://www.nissan.ca/owners/warranties-and-coverage/limited-warranty.html.

EVENT DATA RECORDERS (EDR)

BASIC INFORMATION

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.
- Sounds are not recorded.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer and NISSAN dealer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

EDR data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

ADDITIONAL DATA RECORDING (on vehicles equipped with optional ProPILOT Assist)

If your vehicle is equipped with the optional ProPILOT Assist, it will also be equipped with a supplemental vehicle data recording function.

The data recording function is designed to record such data as:

- Driver operational status of accelerator, brakes, steering, etc.
- Detection status of a vehicle ahead and lane markers
- Vehicle information including distance to vehicle ahead and lateral position
- Information on the operation of the ProPILOT Assist and other crash avoidance features
- ProPILOT Assist malfunction diagnosis information

- External images from multi-sensing front camera (Available only when SRS air bag or AEB with Pedestrian Detection system is activated)

ProPILOT Assist does not record conversations, sounds or images of the inside of the vehicle.

To read this vehicle data, special equipment is required and access to the vehicle or the recording unit is needed. This vehicle data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

If downloaded, NISSAN and third parties entrusted by NISSAN may use the data recorded for the purpose of improving NISSAN's vehicle safety performance.

NISSAN and third parties entrusted by NISSAN will not disclose/provide the recorded data to a third party except:

- With the consent of the vehicle owner or with the consent of the lessee
- In response to an official request from law enforcement, a court order, governmental agency, or other legally enforceable requests
- For use as part of NISSAN's defense of litigation
- For research purposes after the data is modified such that it is no longer tied to a specific vehicle or vehicle owner

If you have any questions regarding the data NISSAN may collect about you, please visit our Privacy Policy: https://www.nissanusa.com.

OWNER'S MANUAL/SERVICE MANUAL ORDER INFORMATION

Genuine NISSAN Service Manuals for this model year and prior can be purchased. A Genuine NISSAN Service Manual is the best source of service and repair information for your vehicle. This manual is the same one used by the factory-trained technicians working at NISSAN dealerships. Genuine NISSAN Owner's Manuals can also be purchased.

For USA

For current pricing and availability of Genuine **NISSAN Service Manuals,** contact:

www.nissan-techinfo.com

For current pricing and availability of Genuine **NISSAN Owner's Manuals,** visit

https://www.nissanusa.com

For Canada

To purchase a copy of a Genuine NISSAN Service Manual or Owner's Manual, for this model year and prior, please contact your nearest NISSAN dealer. For the phone number and location of a NISSAN dealer in your area, call the NISSAN Information Center at 1-800-387-0122 and a bilingual NISSAN representative will assist you.

INTELLIGENT KEY SYSTEM

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

11 Index

A

Accent light 223
Air bag (See supplemental restraint system) 45
Air bag system
  Front (See supplemental front impact air bag system) 50
Air bag warning labels 63
Air bag warning light 63, 77
Air bag warning light, supplemental . .63, 77
Air cleaner housing filter 443
Air conditioner
  Air conditioner operation . . .210, 215, 218
  Air conditioner specification label . . .496
  Air conditioner system refrigerant and oil recommendations 491
  Air conditioner system refrigerant recommendations 491
  Heater and air conditioner 214, 217
  Heater and air conditioner controls 215, 218
  Servicing air conditioner 221
Air flow charts 211
Alarm system (See vehicle security system) 124
All-Wheel Drive 421
Anchor point locations 32
Antenna 221
Anti-lock Braking System (ABS) 384
Antifreeze 401
Approach unlock function 170
Armrests 15
Autolight switch 130
Automatic
  Automatic power window switch 152
Automatic anti-glare inside mirror 181
Automatic brake hold 247
Automatic door locks 161
Automatic Emergency Braking (AEB) with Pedestrian Detection 346
Avoiding collision and rollover 233
AWD 421

B

Battery 401, 440
  Charge warning light 74
Battery replacement
  NISSAN Intelligent Key® 449, 450
Before starting the engine 240
Belt (See drive belt) 442
Blind Spot Warning (BSW) 266
Booster seats 42
Brake
  Anti-lock Braking System (ABS) 384
  Brake fluid 438
  Brake light (See stop light) 452
  Brake system 383
  Brake warning light 73
  Brake wear indicators 83, 445
  Parking brake operation 245
  Self-adjusting brakes 445
Brake Assist 385
Brake fluid 438
Brake precautions 383
Brake system 383
Brakes 445
Break-in schedule 378
Brightness control
  Instrument panel 133
Bulb check/instrument panel 73
Bulb replacement 452

C

Capacities and recommended fuel/lubricants 487
Car phone or CB radio 222
Cargo (See vehicle loading information) 497
Cargo area storage bin 146
Cargo cover 148
Chassis control 387
Check tire pressure 99, 118
Child restraint with top tether strap 32
Child restraints 26, 27, 28, 30
  LATCH (Lower Anchors and Tethers for CHildren) System 30
  Precautions on child restraints 34, 39, 42

Top tether strap anchor point locations 32
Child safety rear door lock 161
Cleaning aluminum alloy wheels 425
Cleaning exterior and interior 424, 426
Climate schedule 220
Cold weather driving 401
Console box 145
Continuously Variable Transmission (CVT) 241
Continuously Variable Transmission (CVT) fluid 438
Driving with Continuously Variable Transmission (CVT) 241
Transmission shift selector lock release 243
Controls
Heater and air conditioner controls 215, 218
Heater and air conditioner controls (automatic) 214, 217
Heater and air conditioner controls (manual) 207
Coolant
Capacities and recommended fuel/lubricants 487
Changing engine coolant 435
Checking engine coolant level 434
Engine coolant temperature gauge 71
Corrosion protection 429
Cup holders 145

D

Daytime Running Light System 133
Defroster switch
Rear window and outside mirror defroster switch 128, 209, 216, 220
Rear window defroster switch 128
Dimensions and weights 492
Dimmer switch for instrument panel 133
Display
Information display 84, 103
Door locks 160
Door open warning light 74
Doors 160
Drive belt 442
Drive Mode Selector 249
Driving
Cold weather driving 401
Driving with Continuously Variable Transmission (CVT) 241
Precautions when starting and driving 229
Driving the vehicle 241
Dual panel moonroof 153

E

Eco Drive Report 252
Economy - fuel 379
Emergency call (SOS) button 138
Emergency engine shutoff 238, 406
Emission control information label 495
Emission control system warranty 505
Engine
Before starting the engine 240
Capacities and recommended fuel/lubricants 487
Changing engine coolant 435
Changing engine oil 436
Changing engine oil filter 436
Checking engine coolant level 434
Checking engine oil level 435
Engine compartment check locations 433
Engine coolant temperature gauge 71
Engine cooling system 434
Engine oil 435
Engine oil and oil filter recommendation 490
Engine oil pressure warning light 75
Engine oil viscosity 491
Engine serial number 494
Engine specifications 492
Starting the engine 240
Engine Block Heater 402
Engine coolant temperature gauge 71
Event Data recorders 505
Exhaust gas (Carbon monoxide) 229
Explanation of maintenance items 468
Explanation of scheduled maintenance items 471
Extended storage switch 143

F

F.M.V.S.S. certification label 495

Flashers (See hazard warning flasher switch) 406
Flat tire 407, 408
Flat towing your vehicle 502
Floor mat positioning aid 428
Fluid
Brake fluid 438
Capacities and recommended fuel/lubricants 487
Continuously Variable Transmission (CVT) fluid 438
Engine coolant 434
Engine oil 435
Windshield-washer fluid 439
Forward Driving Aids
System Temporarily Unavailable . . .100, 119, 120, 307, 345, 357, 370
Front air bag system (See supplemental restraint system) 50
Front and rear sonar system 390
Front seats 12
Front-door pocket 144
Fuel
Capacities and recommended fuel/lubricants 487
Fuel economy 379
Fuel gauge 71
Fuel octane rating 490
Fuel recommendation 488
Fuel efficient driving tips 378
Fuel gauge 71
Fuel-filler door 176
Fuses 446
Fusible links 448

G

Gauge
Engine coolant temperature gauge 71
Fuel gauge 71
Speedometer 69
Tachometer 70
Trip odometer 69
General maintenance 468
Glove box 145
Grocery hooks 147

H

Hazard warning flasher switch 406
Head restraints 15
Headlight and turn signal switch 129
Headlight control switch 129
Headlights 452
Heated mirrors 182
Heated seat switches 135
Heated steering wheel switch 136
Heater
Heater and air conditioner 214, 217
Heater and air conditioner controls 215, 218
Heater operation 209, 215, 219
Heater and air conditioner settings 220
Hill descent control switch 137, 389
Hill descent control system 389
Hill start assist system 388
Hood 174
Hook
Luggage hook 147
Horn 134

I

Idling Stop System 396
Ignition switch
Push-button ignition switch 236
Immobilizer system 125, 239
Important vehicle information label 495
In-cabin microfilter 443
Increasing fuel economy 379
Indicator
NISSAN Intelligent Key® battery discharge indicator 238
Inside automatic anti-glare mirror 181
Instrument brightness control 133
Instrument panel 6, 67
Instrument panel dimmer switch 133
Intelligent All-Wheel Drive (AWD) 379
Intelligent Around View® Monitor 193
Intelligent Blind Spot Intervention (I-BSI) . . .277
Intelligent Cruise Control 296
Intelligent Cruise Control (ICC) (for vehicles with ProPILOT Assist) 322
Intelligent Driver Alertness (I-DA) 374
Intelligent Forward Collision Warning (I-FCW) 362
Intelligent Key battery 449
Intelligent Key system
Key operating range 163
Key operation 164

Mechanical key 159
Remote keyless entry operation 167
Troubleshooting guide 170
Warning signals 170
Intelligent Lane Intervention (I-LI) 261
Intelligent Trace Control (I-TC) 387
Interior light 155
iPod®/iPhone® 222
ISOFIX child restraints 30

J

Jump starting 416, 441

K

Key 158
Keyless entry
With Intelligent Key system (See Intelligent Key system) 167
Keys
NISSAN Vehicle Immobilizer System keys 159

L

Labels
Air conditioner specification label 496
Emission control information label . . .495
Engine serial number 494
F.M.V.S.S. certification label 495
Tire and Loading Information label . . .495
Vehicle identification number (VIN) plate 494
Warning labels (for SRS) 63
Lane Departure Warning (LDW) 254
LATCH (Lower Anchors and Tethers for CHildren) System 30
License plate
Installing the license plate 496
Liftgate 174
Light
Air bag warning light 63, 77
Brake light (See stop light) 452
Bulb check/instrument panel 73
Bulb replacement 452
Charge warning light 74
Exterior and Interior lights 452
Headlight and turn signal switch 129
Headlight control switch 129
Headlights 452
Interior light 155
Light bulbs 451
Low tire pressure warning light 79
Low windshield-washer fluid warning light 80
Luggage compartment lights 156
Personal lights 156
Lights 451
Map lights 155
Lock
Child safety rear door lock 161
Door locks 160
Power door locks 161
Low fuel warning light 78, 95, 114
Low tire pressure warning light 79
Low windshield-washer fluid warning light 80
Luggage (See vehicle loading information) 497
Luggage compartment lights 156
Luggage hook 147
Luggage rack (see roof rack) 148, 149

M

Maintenance
General maintenance 468
Inside the vehicle 469
Maintenance precautions 432
Outside the vehicle 469
Seat belt maintenance 26
Under the hood and vehicle 470
Maintenance requirements 468
Maintenance schedules 472
Malfunction indicator light 80
Manual front seat adjustment 13
Map lights 155
Map pocket 144
Master warning light 76, 80
Meters and gauges 68
Instrument brightness control 133
Mirror
Automatic anti-glare inside mirror 181
Heated mirrors 182
Outside mirrors 181
Rearview 180
Vanity mirror 180
Mirror defroster 128

Mirrors 180
Moonroof 153, 427
Moving Object Detection (MOD) 203

N

NISSAN Anti-Theft System 125, 239
NISSAN Intelligent Key® 158
NISSAN Intelligent Key® battery discharge indicator 238
NISSAN Intelligent Key® system 162
NISSAN Intelligent Key® System 506
NISSAN Vehicle Immobilizer System 125, 239
NissanConnect® Owner's Manual 185

O

Octane rating (See fuel octane rating) . . .490
Off-road recovery 233
Oil
  Capacities and recommended fuel/lubricants 487
  Changing engine oil 436
  Changing engine oil filter 436
  Checking engine oil level 435
  Engine oil 435
  Engine oil and oil filter recommendation 490
  Engine oil viscosity 491
Outside mirrors 181
Overheat
  If your vehicle overheats 418
Owner's manual order form 506
Owner's manual/service manual order information 506

P

Parking
  Parking brake operation 245
  Parking/parking on hills 382
Parking brake 75, 78, 82
Personal lights 156
Power
  Power door locks 161
  Power outlet 142
  Power rear windows 151
  Power steering system 383
  Power windows 150
  Rear power windows 151
Power outlet 142
Power steering 383
Precautions
  Brake precautions 383
  Maintenance precautions 432
  On-pavement and off-road driving precautions 233
  Precautions on booster seats . . .34, 39, 42
  Precautions on child restraints . .34, 39, 42
  Precautions on seat belt usage 19
  Precautions on supplemental restraint system 45
  Precautions when starting and driving 229
ProPILOT Assist 313
Push starting 418

R

Radio
  Car phone or CB radio 222
Rapid air pressure loss 234
Readiness for inspection maintenance (I/M) test 504
Rear Automatic Braking (RAB) 339
Rear Cross Traffic Alert (RCTA) 286
Rear Door Alert 95, 114, 141
Rear power windows 151
Rear seat 13
Rear window and outside mirror defroster switch 128, 209, 216, 220
Rear window defroster switch 128
Rear window wiper and washer switches 127
Rearview mirror 180
RearView Monitor 187
  Adjusting the screen 200
Recommended Fluids 487
Recorders
  Event Data 505
Refrigerant recommendation 491
Registering a vehicle in another country 493
Remote Engine Start 172, 241
Repairing flat tire 411
Repairing tire 413
Reporting safety defects (US only) 503
Roof rack 148, 149

S

Safety
- Child safety rear door lock 161
- Child seat belts 28, 34, 39, 42
- Reporting safety defects (US only). . . .503

Seat adjustment
- Front manual seat adjustment 13
- Rear seat adjustment 13

Seat belt
- Child safety 26
- Infants and small children 27
- Injured person. 22
- Larger children 27
- Precautions on seat belt usage 19
- Pregnant women. 22
- Seat belt extenders 26
- Seat belt maintenance 26
- Seat belts. 19, 428
- Shoulder belt height adjustment 25
- Three-point type with retractor 22

Seat belt extenders 26
Seat belt warning light 21, 76
Seatback pockets 144
Seats
- Adjustment. 12
- Armrests 15
- Front seats 12
- Manual front seat adjustment 13
- Rear seat 13

Security system (NISSAN Anti-Theft System), engine start 125, 239
Security system (NISSAN Vehicle Immobilizer System), engine start 125, 239
Security systems
- Vehicle security system 124

Self-adjusting brakes 445
Service manual order form 506
Servicing air conditioner 221
Shifting
- Continuously Variable Transmission (CVT) 243

Shoulder belt height adjustment. 25
Spark plug replacement 442
Spark plugs 442
Specifications. 492
Speedometer. 69
SRS warning label 63
Stability control 385
Standard maintenance 472
Starting
- Before starting the engine 240
- Jump starting 416, 441
- Precautions when starting and driving. 229
- Push starting. 418
- Starting the engine. 240

Starting the engine 240
Starting/Stopping the engine 240
Steering
- Power steering system 383

Steering Assist switch (for vehicles with ProPILOT Assist). 136
Steering wheel 179
Stop light. 452
Storage 144
Storage tray 144
Sun visors 179
Sunroof 153
Supplemental air bag warning labels 63
Supplemental air bag warning light . . .63, 77
Supplemental front impact air bag system. 50
Supplemental restraint system
- Information and warning labels. 63
- Precautions on supplemental restraint system 45

Supplemental restraint system (Supplemental air bag system) 45
Switch
- Autolight switch 130
- Automatic power window switch 152
- Hazard warning flasher switch 406
- Headlight and turn signal switch. 129
- Headlight control switch. 129
- Hill descent control switch. 137, 389
- Instrument brightness control 133
- Power door lock switch. 161
- Rear window and outside mirror defroster switch 128, 209, 216, 220
- Rear window defroster switch 128
- Rear window wiper and washer switches. 127
- Turn signal switch. 134

T

Tachometer. 70
Temperature gauge
- Engine coolant temperature gauge. . . .71

Theft (NISSAN Anti-Theft System), engine start 125, 239
Theft (NISSAN Vehicle Immobilizer System), engine start 125, 239
Three-way catalyst 229
Tire
Flat tire 407, 408
Spare tire 408, 464
Tire and Loading Information label . . .495
Tire chains 461
Tire dressing 425
Tire pressure 453
Tire rotation 461
Types of tires 460
Uniform tire quality grading 503
Wheel/tire size 492
Wheels and tires 453
Tire pressure
Low tire pressure warning light 79
Tire Pressure Monitoring System (TPMS) 230, 453
Top tether strap child restraint 32
Towing
2-wheel drive models 420
Flat towing 502
Trailer towing 502
Towing a trailer 502
Towing your vehicle 419
Traffic Sign Recognition (TSR) 253
Transmission
Continuously Variable Transmission (CVT) fluid 438
Driving with Continuously Variable Transmission (CVT) 241
Travel (See registering a vehicle in another country) 493
Trip odometer 69
Turn signal switch 134

U

Underbody cleaning 425
Uniform tire quality grading 503
USB/iPod® Charging Ports 139

V

Vanity mirror 180
Variable voltage control system 441
Vehicle dimensions and weights 492
Vehicle Dynamic Control (VDC) system . .385
Vehicle identification 494
Vehicle identification number (VIN) (Chassis number) 494
Vehicle identification number (VIN) plate 494
Vehicle immobilizer system 125, 239
Vehicle information display 84, 103
Vehicle loading information 497
Vehicle recovery 421
Vehicle security system 124
Vehicle security system (NISSAN Anti-Theft System), engine start 125, 239
Vehicle security system (NISSAN Vehicle Immobilizer System), engine start . . .125, 239
Vents 206
Visors 179

W

Walk away lock function 170
Warning
Air bag warning light 63, 77
Battery charge warning light 74
Brake warning light 73
Door open warning light 74
Engine oil pressure warning light 75
Hazard warning flasher switch 406
Low fuel warning light 78, 95, 114
Low tire pressure warning light 79
Low windshield-washer fluid warning light 80
Master warning light 76, 80
Seat belt warning light 21, 76
Supplemental air bag warning light 63, 77
Vehicle security system 124
Warning labels (for SRS) 63
Warning lights, indicator lights and audible reminders 9, 73
Washer switch
Rear window wiper and washer switches 127
Waxing 424
Weights (See dimensions and weights) . .492
Wheel/tire size 492
Wheels and tires 453
Cleaning aluminum alloy wheels 425
When traveling or registering in another country 493
Window(s)
Cleaning 425

Windows 150
Locking passengers' windows 151
Power rear windows 151
Power windows 150
Rear power windows 151
Windshield wiper blades 444
Windshield-washer fluid 439
Wiper
Rear window wiper and washer switches 127
Rear window wiper blade 445
Wiper blades 444
Wiper and washer switch 126
Wireless Charger 140

MEMO

MEMO

MEMO

MEMO

MEMO

MEMO

QR code (U.S. only) **QR code (Canada only)**

To view the digital manuals and other useful guides related to your vehicle, go to **www.nissanquickguide.com** for US or **www.nissan.ca** for Canada or snap this QR code with an appropriate QR code reader.

QR code (U.S. only) **QR code (Canada only)**

For vehicles equipped with remote connectivity, including an SOS button, scan to download the smartphone app.

Printing : October 2026
Publication No.: OM27EM 0P16U1
Printed in the U.S.A.