

2017 MICRA

OWNER'S MANUAL

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

FOREWORD

Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

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

A separate Warranty Information Booklet explains details about the warranties covering your vehicle. The "Maintenance and schedules" section of this manual explains details about maintaining and servicing your vehicle.

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.

In addition to factory-installed options, our vehicle may also be equipped with additional accessories installed prior to delivery. It is recommended that you visit a NISSAN dealer for details concerning the particular accessories with which your vehicle is equipped. 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.

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. Preteen 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.**

MODIFICATION OF YOUR VEHICLE

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

⚠ 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.

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://owners.nissanusa.com/nowners/navigation/manualsGuide**. 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

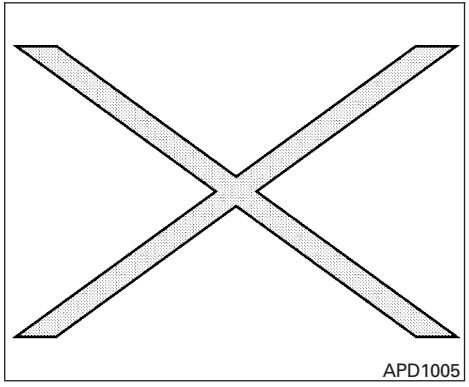
You will see various symbols in this manual. They are used in the following ways:

⚠ 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.



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.

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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:

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:

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.nissan.ca**

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

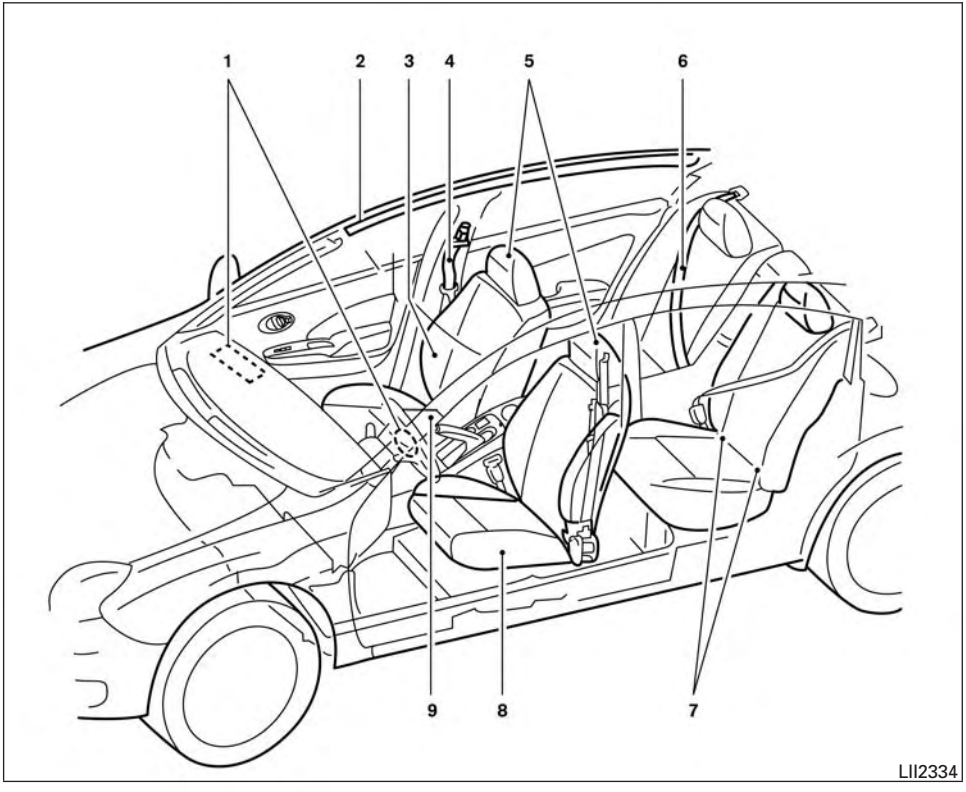
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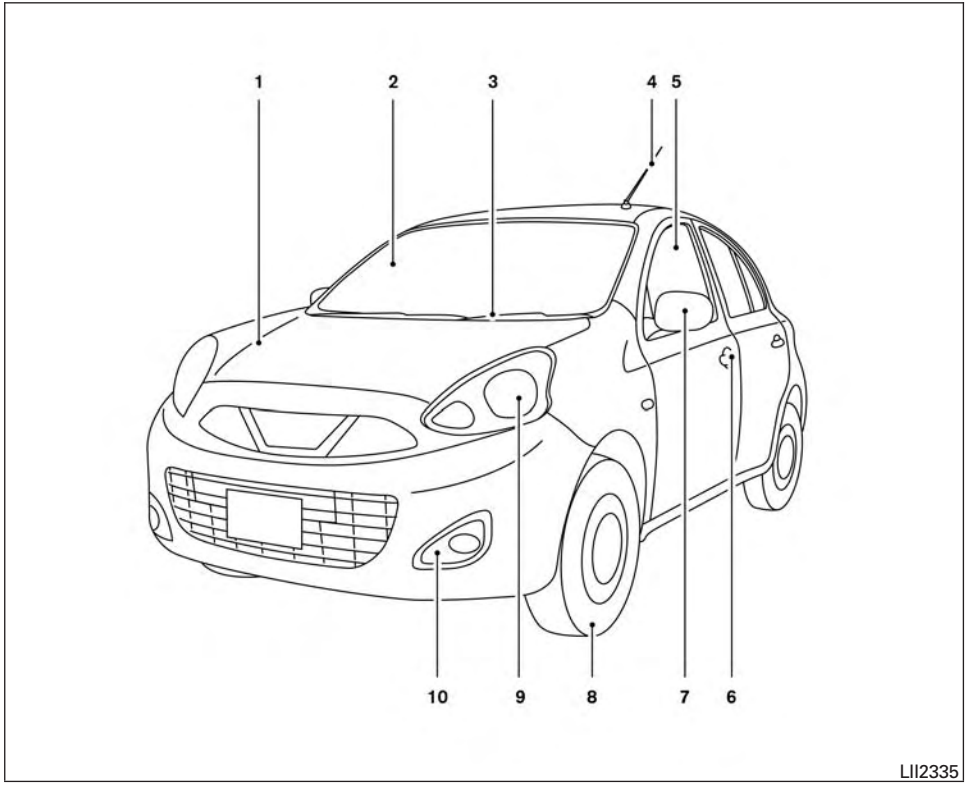
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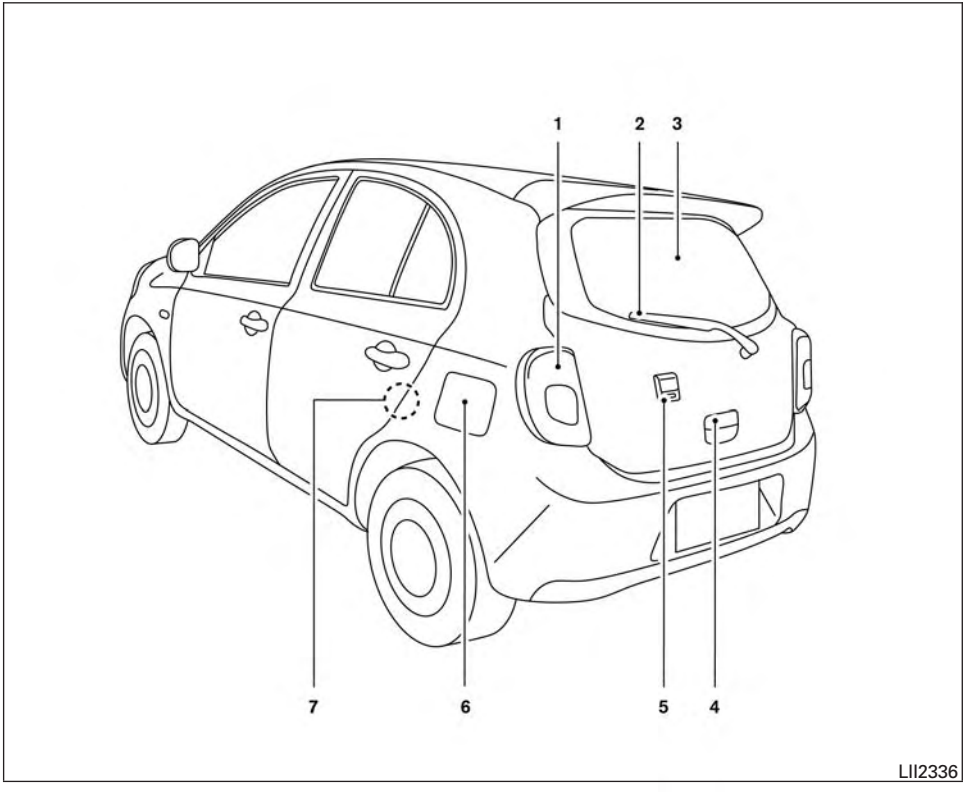
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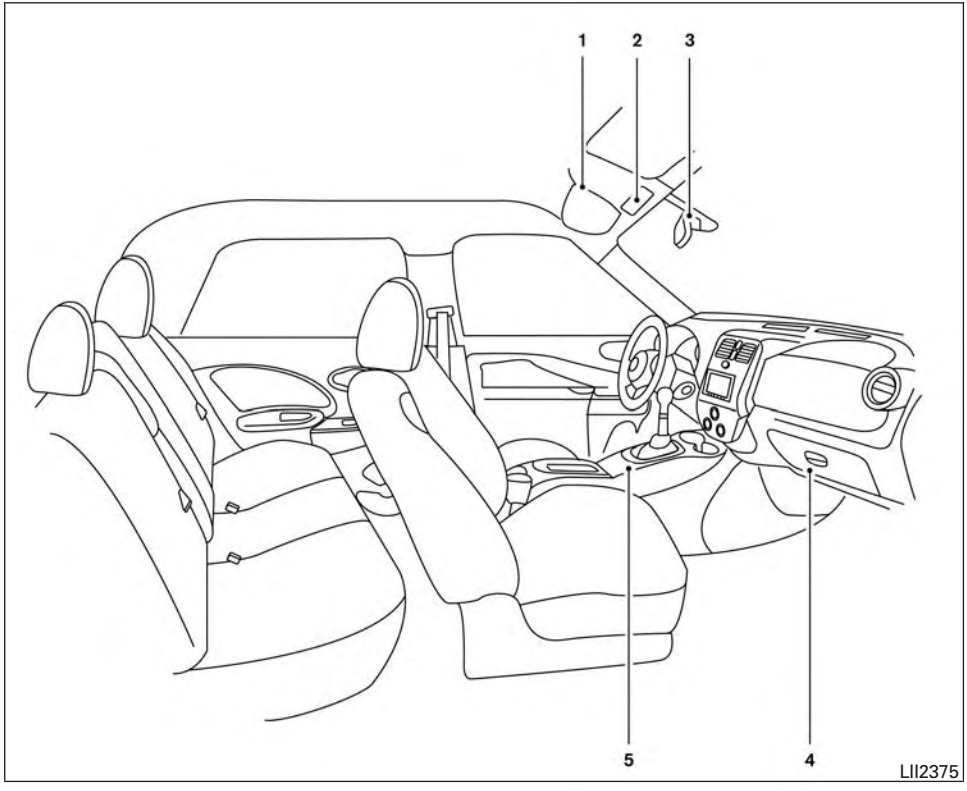
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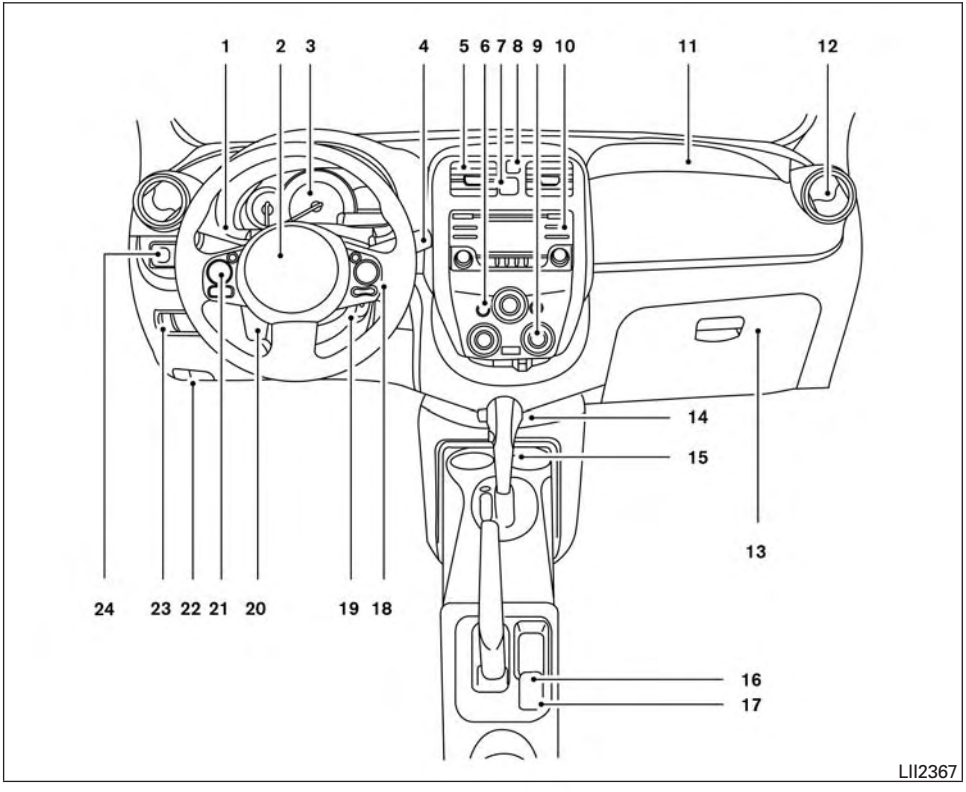
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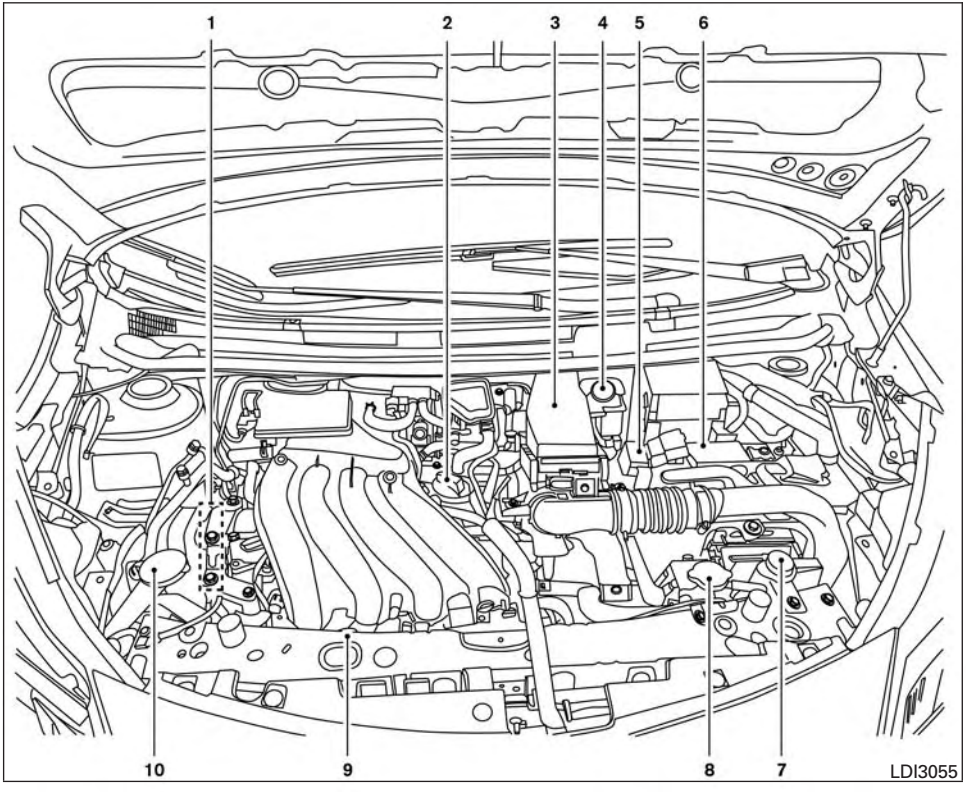


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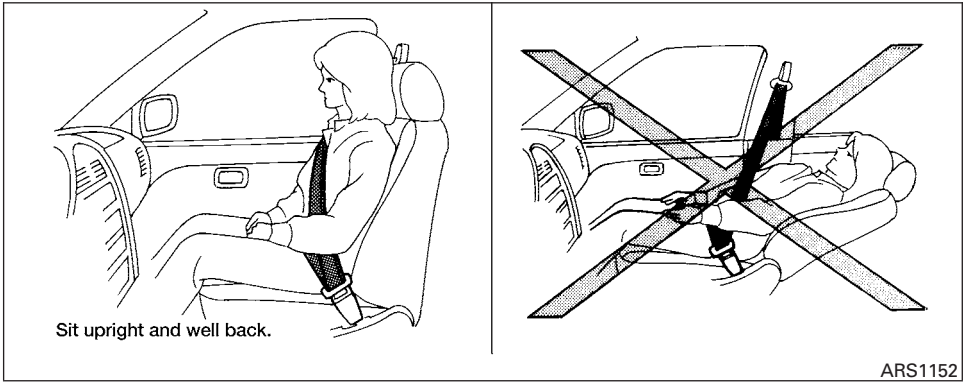
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⚠WARNING

- **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 properly. For additional information, refer to "Precautions on seat belt usage" in this section.**
- **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.**
- **The seatback should not be reclined any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat. If the seatback is reclined, the risk of sliding under the lap belt and being injured is increased.**

⚠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

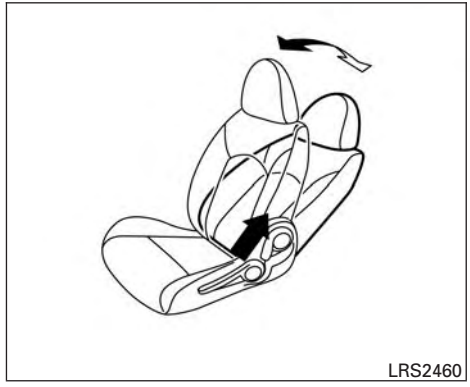
Your vehicle seats can be adjusted manually. For additional information about adjusting the seats, refer to the steps outlined in this section.



LRS2459

Forward and backward

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.



LRS2460

Reclining

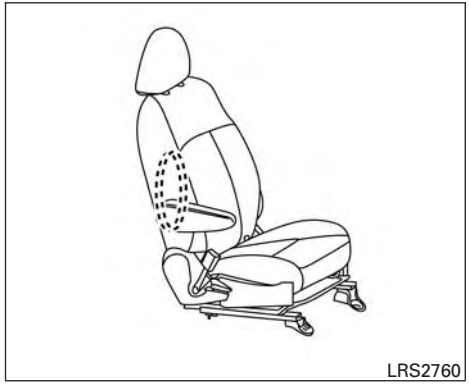
To recline the seatback, pull the lever up and lean back. To bring the seatback forward, pull the lever up and lean your body forward. Release the lever to lock the seatback in position.

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, refer to “Precautions on seat belt usage” in this section. Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped and the shift lever is in P (Park) or N (Neutral) position with the parking brake fully applied.



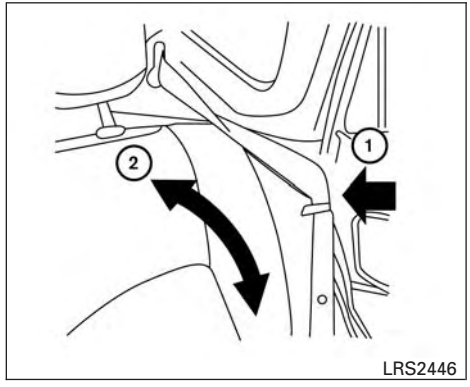
Seat lifter (if so equipped for driver's seat)

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



ARMREST (if so equipped for driver's seat)

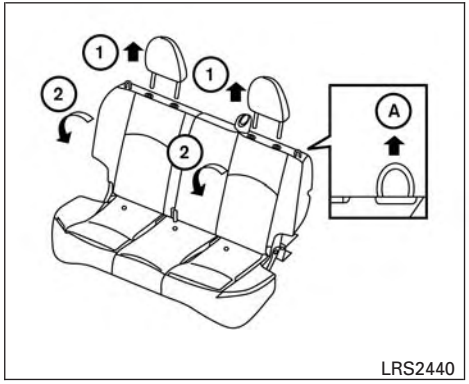
To use the armrest, pull it down to the resting position.



Folding rear seat 60/40

FOLDING REAR SEAT

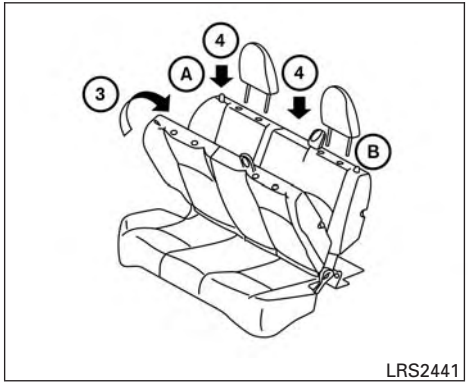
Ensure the rear outboard seat belt webbing is properly stowed in the clip which is located at inside trim ① before moving the rear seatback ② in order to prevent the outboard seat belt from getting caught behind the rear seatback.



Folding rear seat 60/40

① Remove head restraint/headrest from the rear seatback.

② Pull the strap Ⓐ to fold each seatback down.



③ To return the rear seat to a seating position, lift up on the seatback and push it up to an upright position. Firmly press zones Ⓐ and Ⓑ to lock the seatback in place.

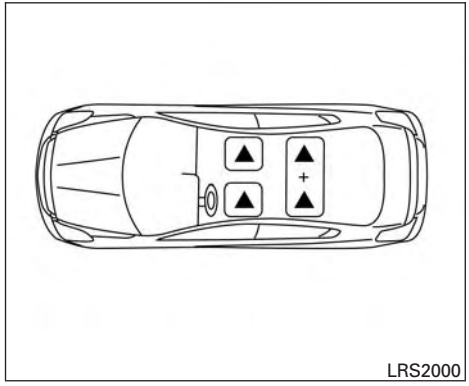
④ Install the head restraint/headrest.

⚠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.**
- **Closely supervise children when they are around cars to prevent them from playing and becoming locked in the hatch where they could be seriously injured. Keep the car locked, with the rear seatback and hatch securely latched when not in use, and prevent children's access to car keys.**

⚠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, as specified in this section. 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.



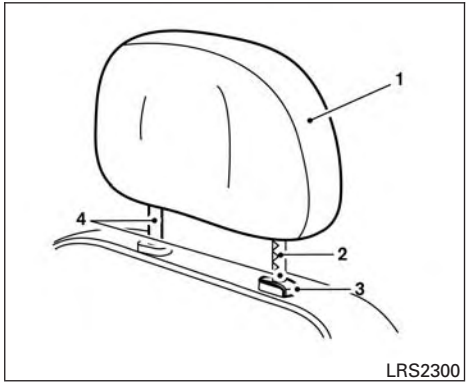
The illustration shows the seating positions equipped with head restraints/headrests.

▲ 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).

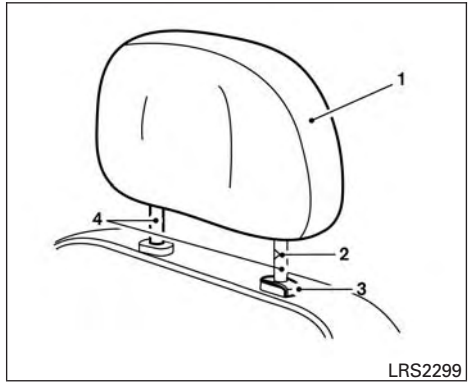
- Your vehicle is equipped with a head restraint/headrest that may be integrated, adjustable or non-adjustable.
- Adjustable head restraints/headrests have multiple notches along the stalk(s) to lock them in a desired adjustment position.
- The non-adjustable head restraints/headrests have a single locking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



LRS2300

ADJUSTABLE HEAD RESTRAINT/ HEADREST COMPONENTS

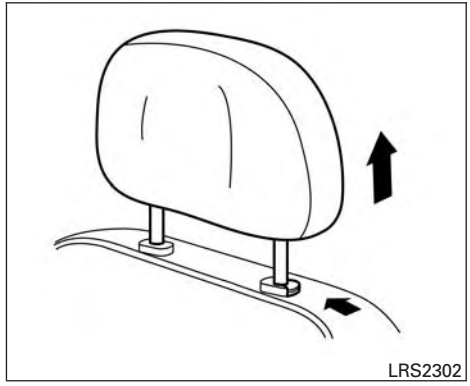
1. Removable head restraint/headrest
2. Multiple notches
3. Lock knob
4. Stalks



LRS2299

NON-ADJUSTABLE HEAD RESTRAINT/HEADREST COMPONENTS

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

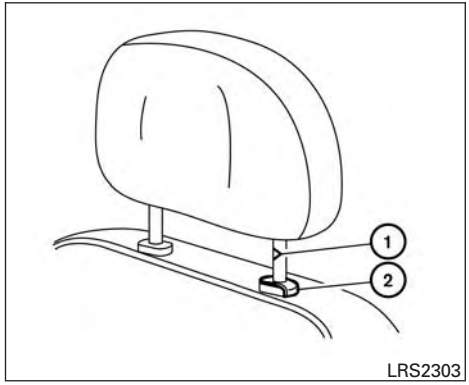

LRS2302

REMOVE

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.

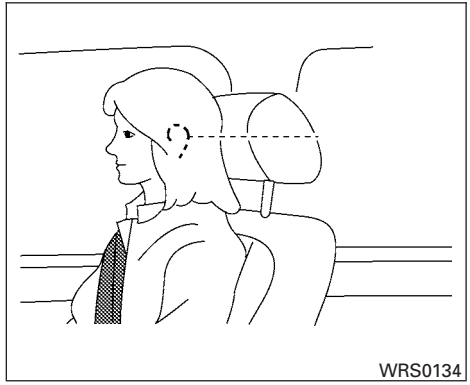
5. Reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position.



LRS2303

INSTALL

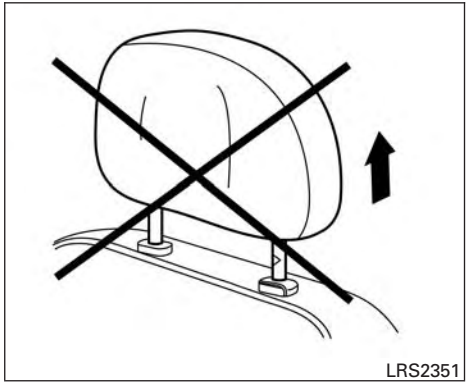
1. Align the head restraint/headrest stalks with the holes in the seat. Make sure that the head restraint/headrest is facing the correct direction. The stalk with the notch (notches) ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint/headrest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


WRS0134

ADJUST

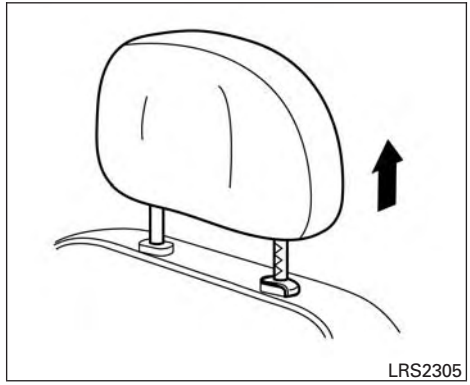
For adjustable head restraint/headrest

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

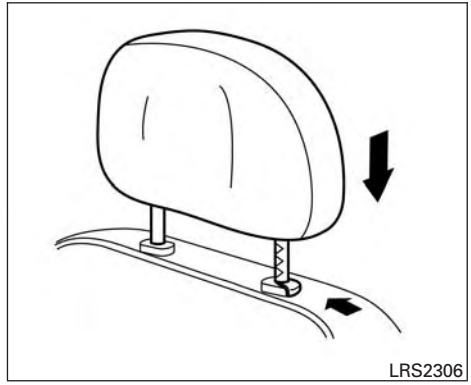
Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.



Raise

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

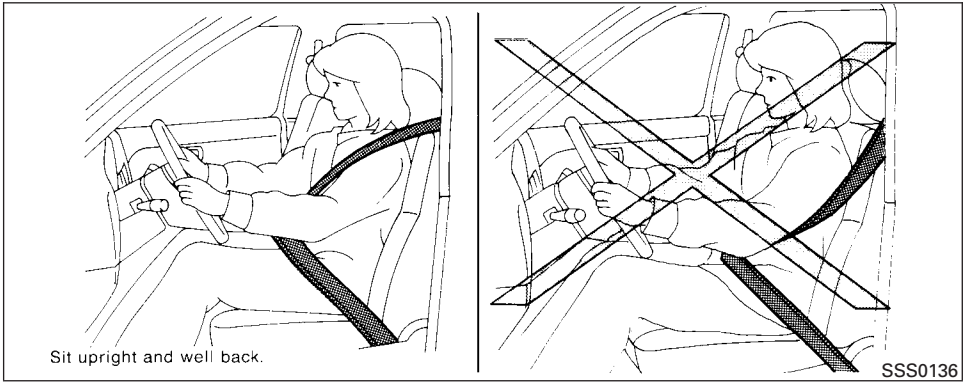
Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

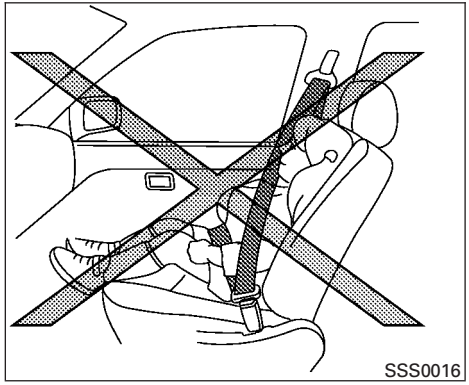


Lower

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.





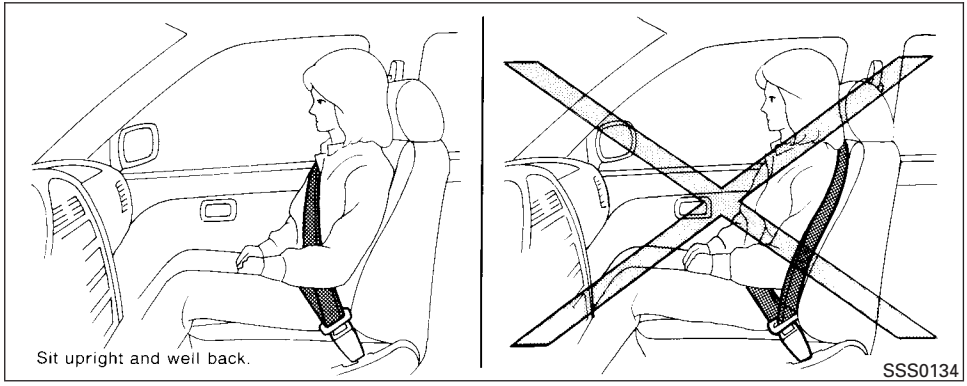
PRECAUTIONS ON SEAT BELT USAGE

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

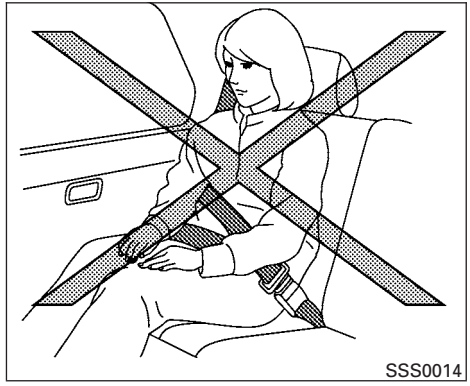
⚠WARNING

- **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.**



⚠ 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 glows continuously 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 seat belt pretensioner(s) have activated, they cannot be reused and must be replaced together with the retractor. 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.**


LRS0786

SEAT BELT WARNING LIGHT

Both the driver's and passenger's front seats are equipped with a seat belt warning light. The warning light, located on the instrument panel, will show the status of the driver and passenger seat belt.

NOTE:

The driver's and front passenger's seat belt warning light will not light up if the front passenger seat is not occupied.

For additional information, refer to "Warning lights, indicator lights and audible reminders" in the "Instruments and controls" section of this manual.

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

⚠ 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.**



Manual front seat shown

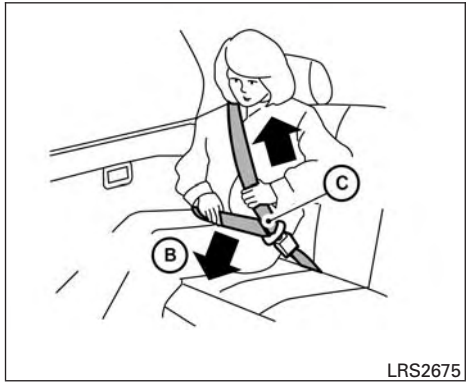
Fastening the seat belts

1. Adjust the seat. For additional information, refer to "Seats" in this section.



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.

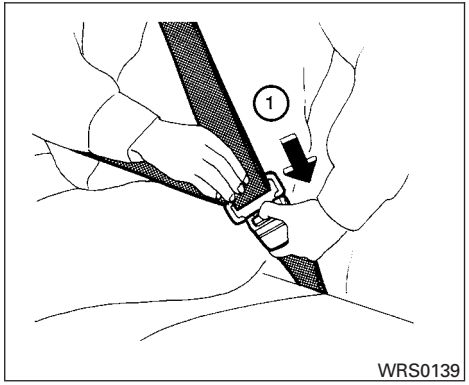
The ALR mode (child restraint mode) locks the seat belt for child restraint installation.

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, refer to "Child restraints" in this section.

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, refer to "Front passenger air bag and status light" in this section.

⚠ 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

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

Checking seat belt operation

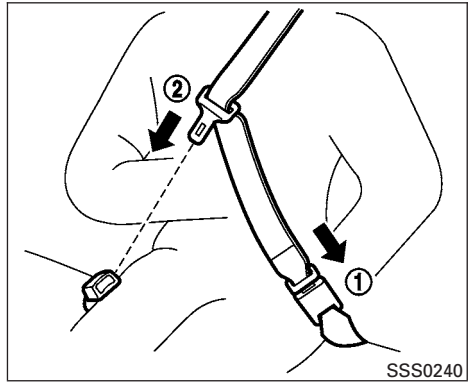
Seat belt retractors are designed to lock seat belt movement by two separate methods:

- 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:

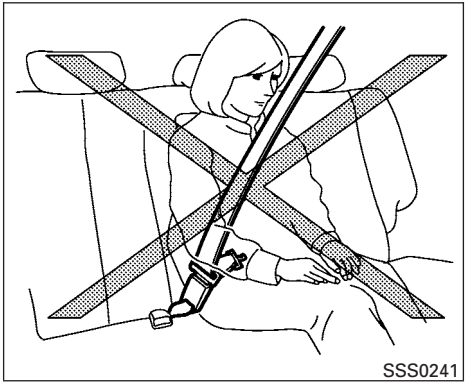
- Grasp the shoulder belt and pull forward quickly. The retractor should lock and restrict further belt movement.

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.



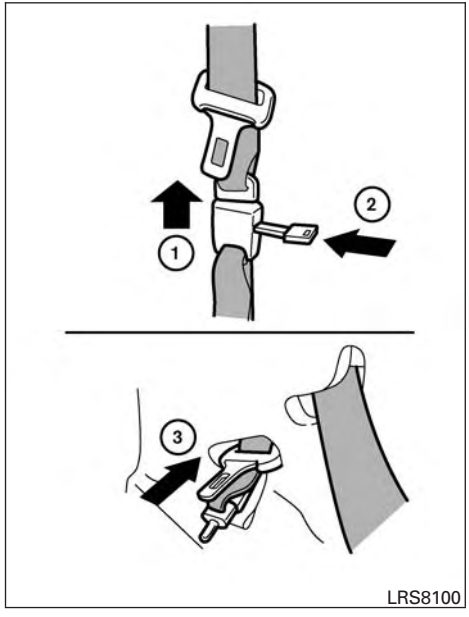
Center of the rear bench seat

The center seat belt has a connector tongue ① and a seat belt tongue ②. Both the connector tongue and the seat belt tongue must be securely latched for proper seat belt operation.


SSS0241

⚠WARNING

- **Always fasten the connector tongue and the seat belt in the order shown.**
- **Always make sure both the connector tongue and the seat belt tongue are secured when using the seat belt or installing a child restraint. Do not use the seat belt or child restraint with only the seat belt tongue attached. This could result in serious personal injury in case of an accident or a sudden stop.**



LRS8100

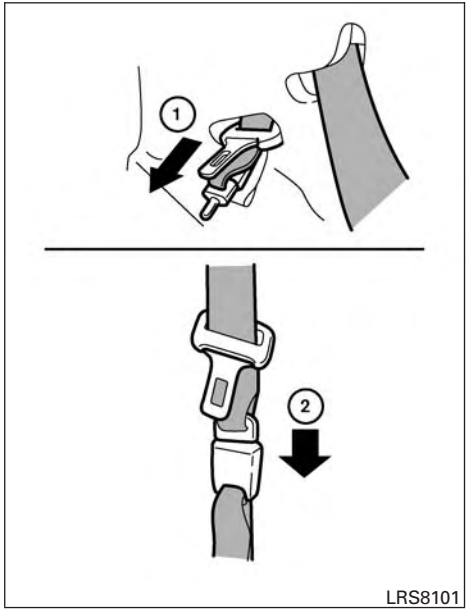
Stowing the center seat belt

When folding down the rear seat, the rear center seat belt can be retracted into a stowed position.

1. Hold the connector tongue ① so that the seat belt does not retract suddenly when the tongue is released from the connector buckle. Release the connector tongue by inserting a suitable tool such as a key ② into the connector buckle.
2. Retract the seat belt and store the seat belt tongue on the stowed position ③.

⚠WARNING

Do not unfasten the rear center seat belt connector except when folding down the rear seat.



LRS8101

Attaching the center seat belt

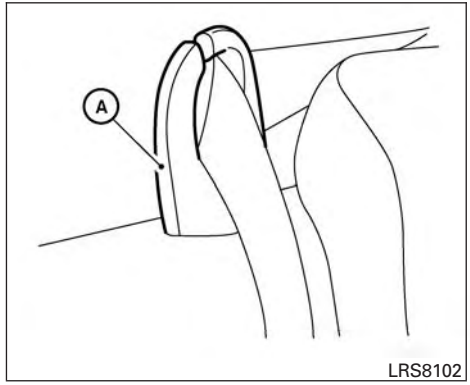
Always be sure the center seat belt connector tongue and connector buckle are attached. Disconnect only when folding down the rear seat.

To connect the buckle:

1. Pull the seat belt tongue and connector tongue from the stowed position ①.
2. Pull the seat belt and secure the connector buckle until it clicks ②.

The center seat belt connector tongue can be attached only into the rear center seat belt connector buckle.

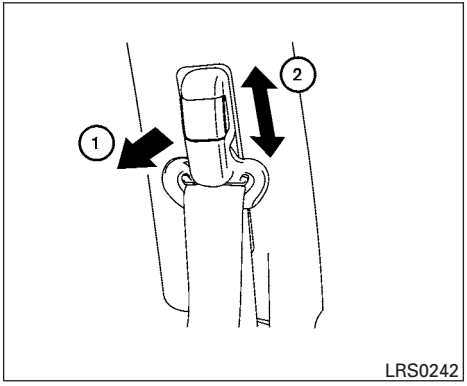
To fasten the seat belt, refer to “Fastening the seat belts” in this section.



LRS8102

⚠WARNING

- **When attaching the rear center seat belt connector, be certain that the seatbacks are completely secured in the latched position and the rear center seat belt connector is completely secured.**
- **If the rear center seat belt connector and the seatbacks are not secured in the correct position, serious personal injury may result in an accident or sudden stop.**
- **Make sure to wear the rear center seat belt with the seat belt passing through the path Ⓐ.**



Shoulder belt height adjustment (front seats)

The shoulder belt anchor height should be adjusted to the position best for you. For additional information, refer to “Precautions on seat belt usage” in this section. 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 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 200 mm (8 in) of length and may be used for either the driver or front passenger seating position. 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.

⚠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 restraint
- Forward-facing child restraint
- Booster seat

The proper restraint depends on the child's size. Generally, infants up to about 1 year and less than 9 kg (20 lbs) 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 Canadian provinces or territories require the use of approved child restraints for infants and small children. For additional information, refer to “Child restraints” in this section.

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, refer to “Child restraints” in this section.

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, refer to “Supplemental Restraint System (SRS)” in this section.

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 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 9 kg (20 lbs) 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 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 Canadian Motor Vehicle Safety Standards.

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

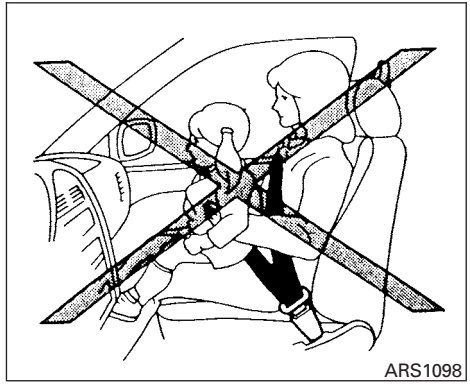
If you answered no to any of these questions, the child should remain in a booster seat using a three-point type seat belt.

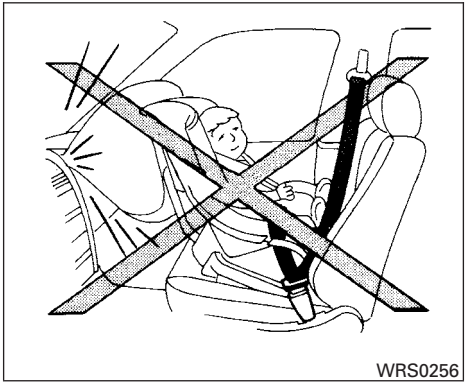
NOTE:

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.


ARS1098


WRS0256

PRECAUTIONS ON CHILD RESTRAINTS

⚠ 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:**
  - **The child restraint must be used and installed properly. Always follow all of the child restraint manufacturer's instructions for installation and use.**
  - **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, refer to "Forward-facing child restraint installation using the seat belts" in this section.**
  - **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating air bag could seriously injure or kill a child. A rear-facing child restraint must only be used in the rear seat.**
  - **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 harnesses.**
  - **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.**

⚠CAUTION

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.

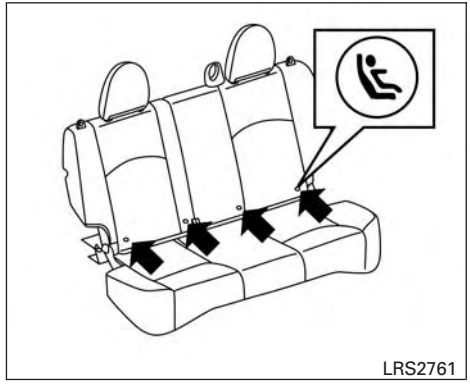
This vehicle is equipped with a universal child restraint anchor system, referred to as the LATCH (Lower Anchors and Tethers for CHildren) system. Some child restraints include rigid or webbing-mounted attachments that can be connected to these anchors. For additional information, refer to “LATCH (Lower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

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 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 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 system lower anchor locations

LATCH (Lower Anchors and Tethers for CHildren) SYSTEM

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.

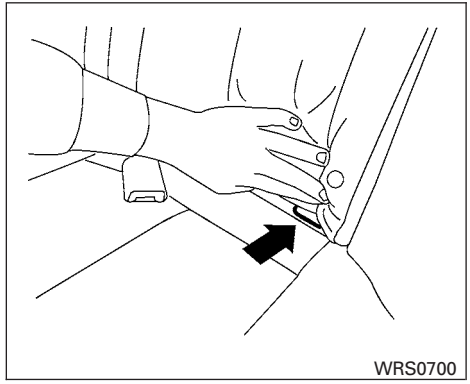
The LATCH anchor points are provided to install child restraints in the rear outboard seating positions only. Do not attempt to install a child restraint in the center position using the LATCH anchors.

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:

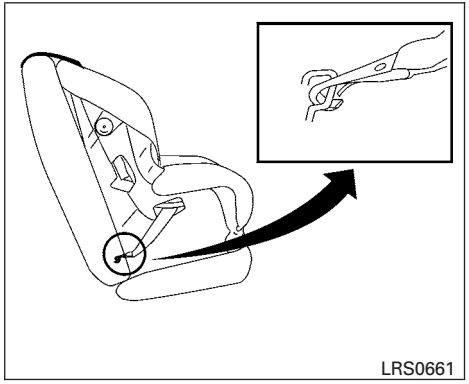
- **Attach LATCH system compatible child restraints only at the locations shown in the illustration.**
- **Do not secure a child restraint in the center rear seating position using the LATCH lower anchors. The child restraint will not be secured properly.**
- **Inspect the lower anchors by inserting 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.**



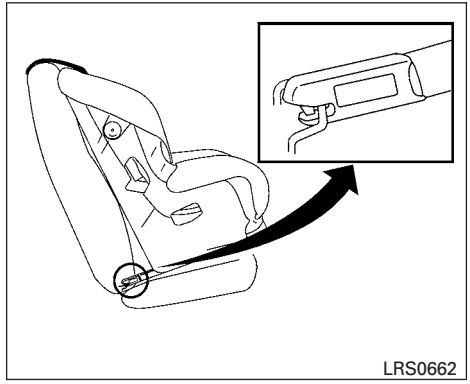
LATCH lower anchor location

LATCH lower anchor location

The LATCH lower anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback to help you locate the LATCH lower anchors.



LATCH webbing-mounted attachment

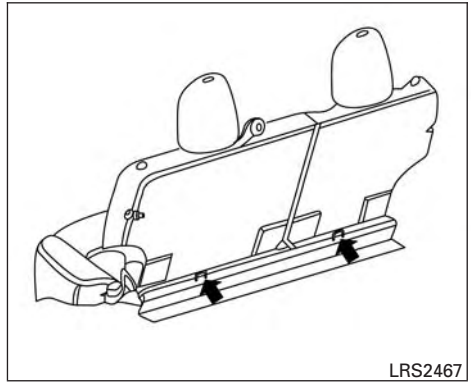


LATCH rigid-mounted attachment

Installing child restraint LATCH lower anchor attachments

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.

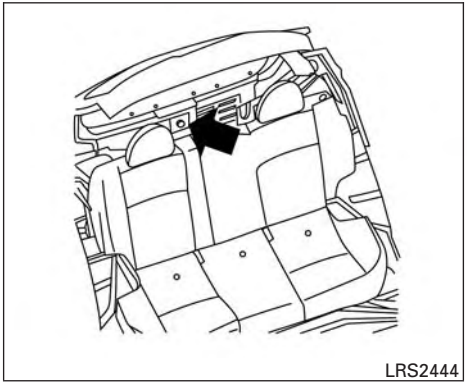
When installing a child restraint, carefully read and follow the instructions in this manual and those supplied with the child restraint.



Top tether anchor point locations

⚠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.


LRS2444

The child restraint top tether strap must be used when installing the child restraint with the LATCH lower anchor attachments or seat belts. For additional information, refer to “Installing top tether strap” in this section.

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

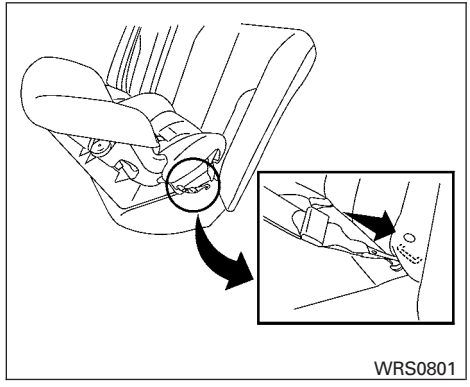
REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH

For additional information, refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections of this manual 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.

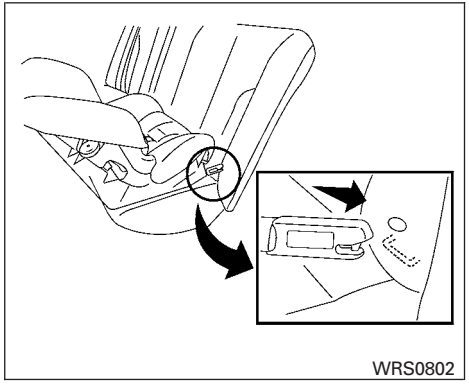
Follow these steps to install a rear-facing child restraint using the LATCH system:

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

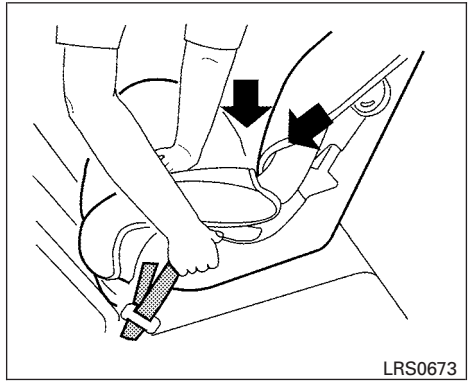

WRS0801

Rear-facing webbing-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.

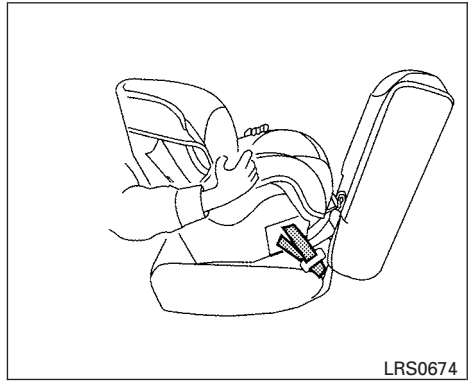


Rear-facing rigid-mounted – step 2



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.



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 25 mm (1 in), 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 1 through 4.

REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

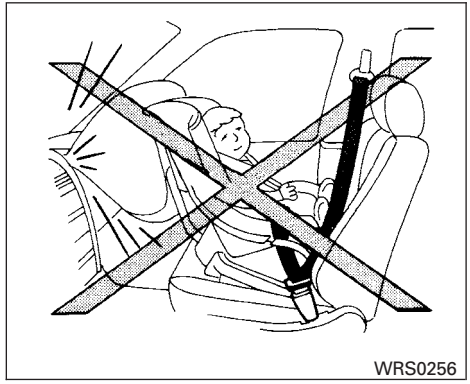
⚠WARNING

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.

For additional information, refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections of this manual before installing a child restraint.

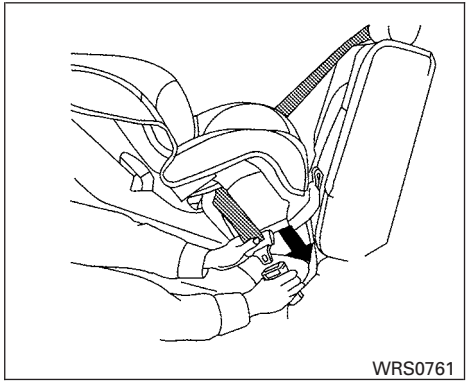
Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs (29.5 kg), use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure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



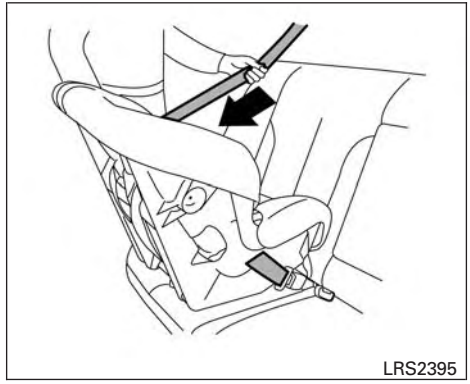
Rear-facing – step 1

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.



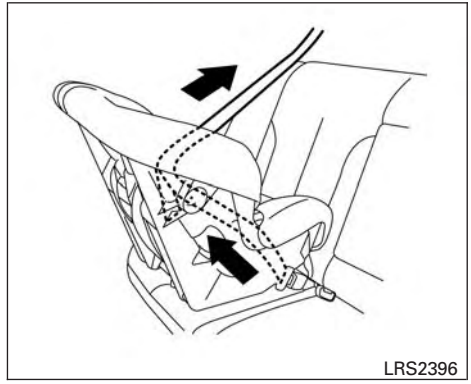
Rear-facing – step 2

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.



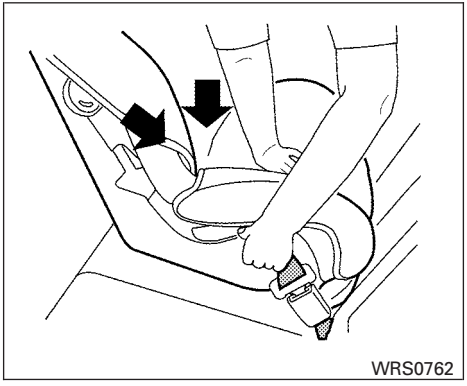
Rear-facing – step 3

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.



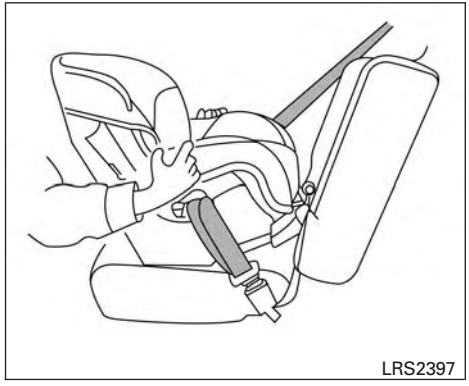
Rear-facing – step 4

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 25 mm (1 in), 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.

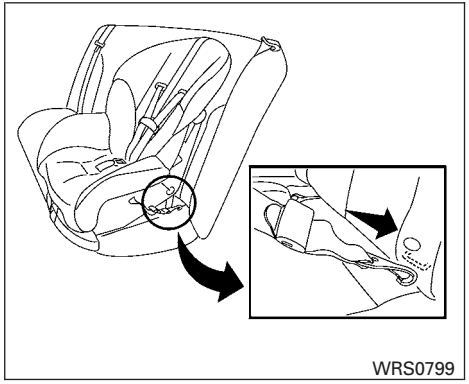
FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH

For additional information, refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections of this manual 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.

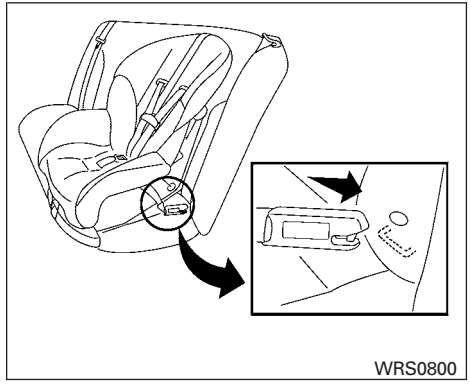


Forward-facing webbing-mounted – step 2

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, refer to “Installing top tether strap” in this section.

   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.

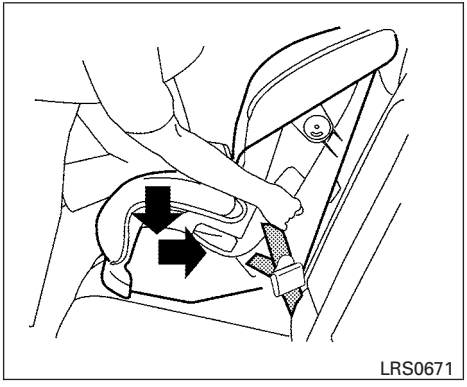


Forward-facing rigid-mounted – step 2

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

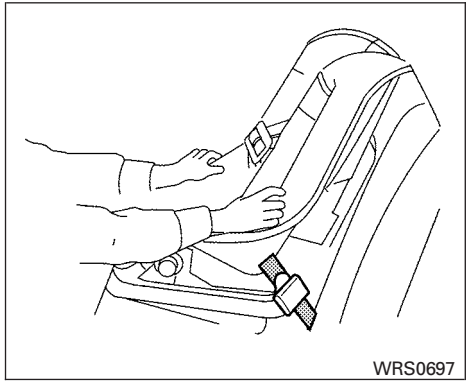
   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information about head restraint/headrest adjustment, refer to “Head restraints/headrests” in this section.

   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.



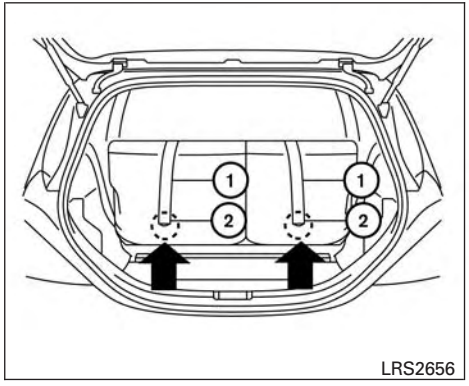
Forward-facing – step 4

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 25 mm (1 in), 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 1 through 6.



Outboard seating positions

① Top tether strap

② Anchor point

Installing top tether strap

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 about head restraint/headrest adjustment, removal and installation, refer to "Head restraints/headrests" in this section.
2. Position the top tether strap ① over the seatback.
3. Secure the tether strap to the tether anchor point ② on the rear-parcel shelf behind the child restraint.
4. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

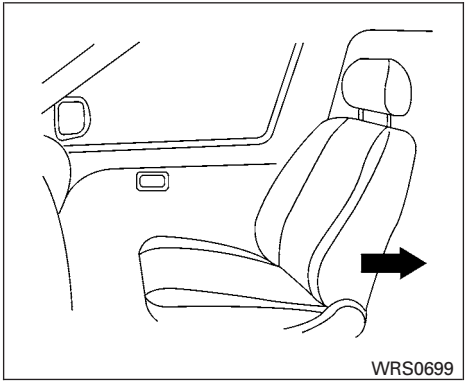
⚠WARNING

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.

FORWARD-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, refer to "Front passenger air bag and status light" in this section.



Forward-facing (front passenger seat) – step 1

For additional information, refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 29.5 kg (65 lbs). If the combined weight of the child and the child restraint is greater than 29.5 kg (65 lbs), 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.

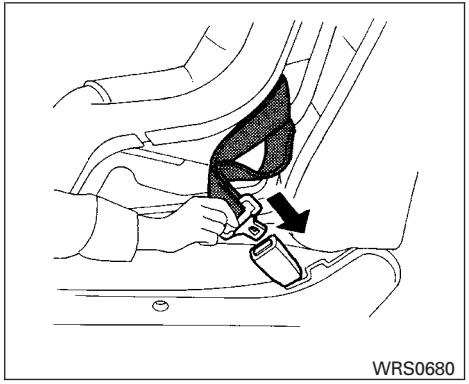
Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the rear seats or in the front passenger seat:

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 about head restraint/headrest adjustment, removal and installation, refer to “Head restraints/headrests” in this section.

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.

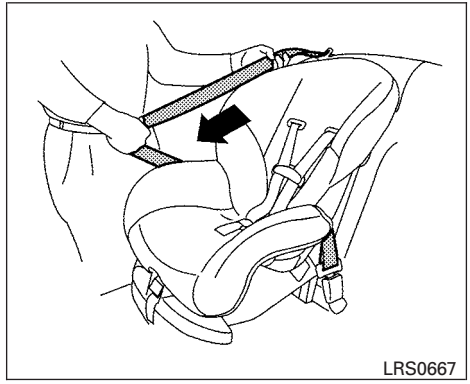


Forward-facing – step 3

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.

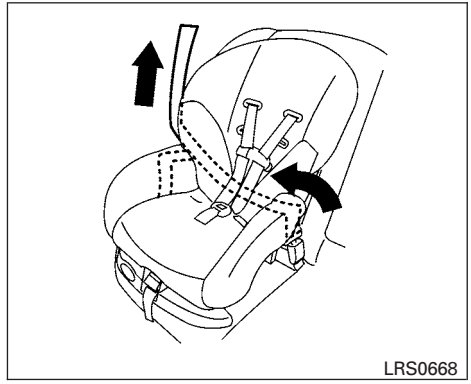
   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. For additional information, refer to "Installing top tether strap" in this section.

   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.



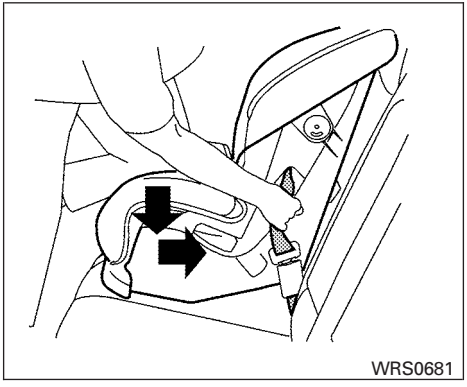
Forward-facing – step 4

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.



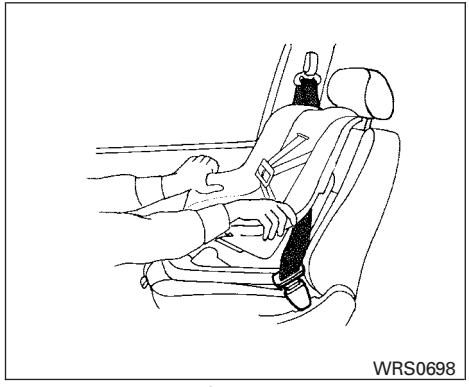
Forward-facing – step 5

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

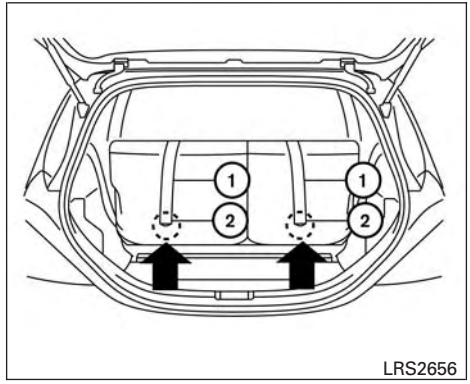
8. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 25mm (1 in), from side to side. Try to tug it forward and check to see if the belt holds 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, refer to “Front passenger air bag and status light” in this section. **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.



Outboard seating positions

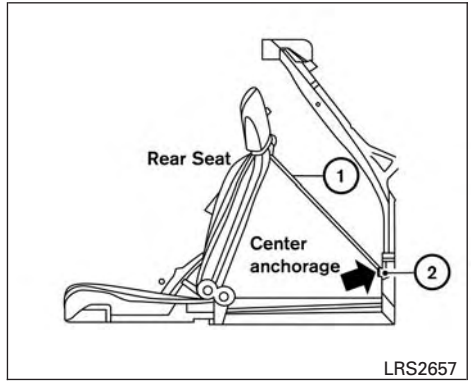
① Top tether strap

② Anchor point

Installing top tether strap

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

First, secure the child restraint with the seat belt.



Center seating position

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 about head restraint/headrest adjustment, removal and installation, refer to “Head restraints/headrests” in this section.
2. Position the top tether strap ① over the seatback.

3. Secure the tether strap to the tether anchor point ② on the bottom of the seatback behind the child restraint.
4. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

CENTER SEATING POSITION

1. Position the top tether strap ① over the seatback.
2. Secure the tether strap to the tether anchor point ② on the rear tail panel behind the child restraint.
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.

BOOSTER SEATS

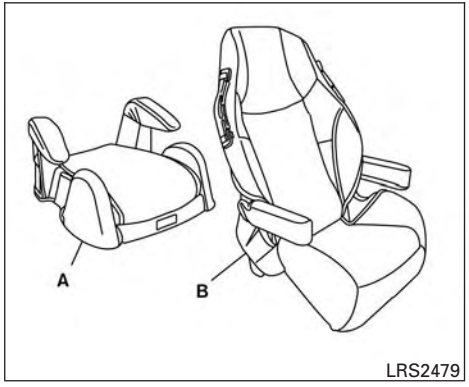
For additional information on installing a booster seat in your vehicle, follow the instructions outlined in this section.

Precautions on booster seats

⚠WARNING

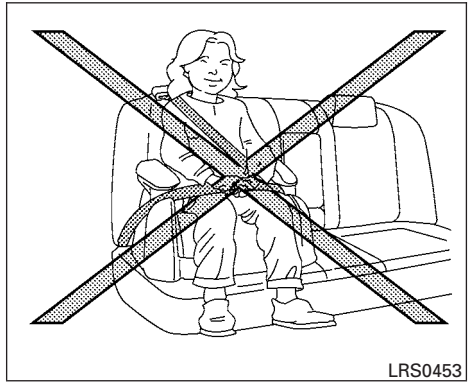
If a booster seat and seat belt are not used properly, the risk of a child being injured or killed in a sudden stop or collision greatly increases:

- **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.**



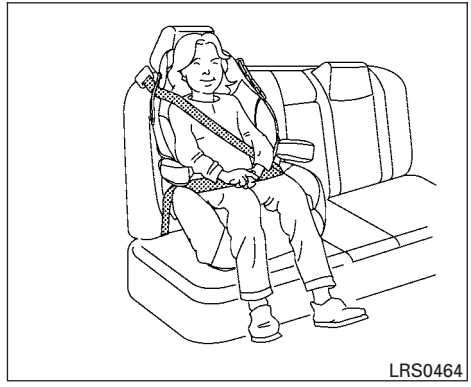
A. Low back booster seat

B. High back booster seat



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 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 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.

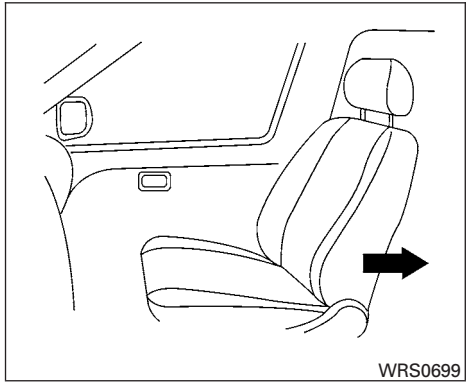
Booster seat installation

⚠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, refer to all Warnings and Cautions in the “Child safety”, “Child restraints” and “Booster seats” sections of this manual 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 about head restraint/headrest adjustment, removal and installation, refer to “Head restraints/headrests” in this section.

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" in this section.



WRS0475

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, refer to "Front passenger air bag and status light" in this section.

PRECAUTIONS ON SRS

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
- Roof-mounted curtain side-impact supplemental air bag
- Seat belt with pretensioner(s) (front 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.

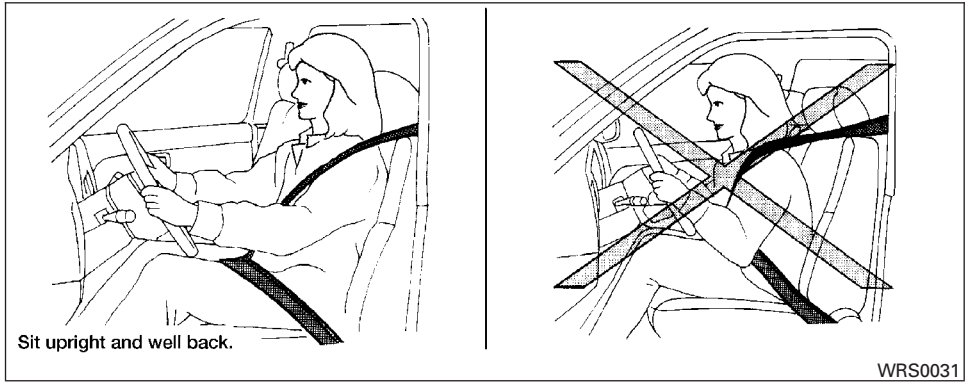
Roof-mounted curtain side-impact and supplemental air bag system

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.

The SRS is designed to **supplement** the crash protection provided by the driver and front passenger 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 about instructions and precautions on seat belt usage, refer to “Seat belts” in this section.

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

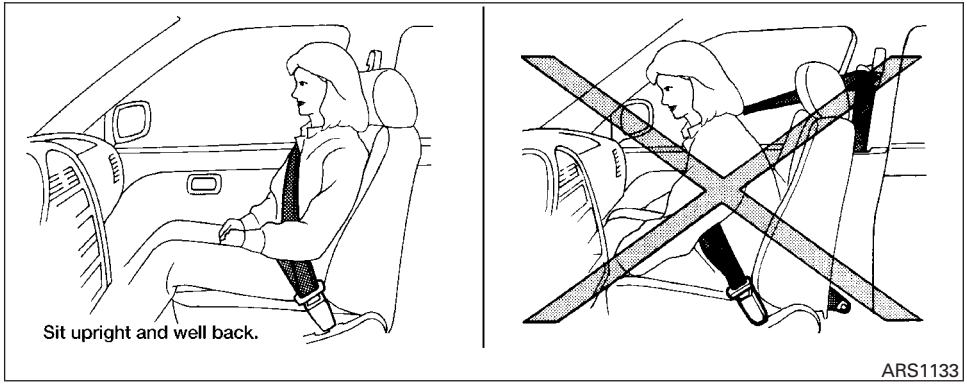
After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

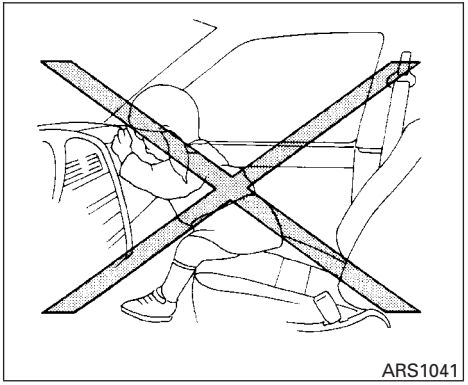


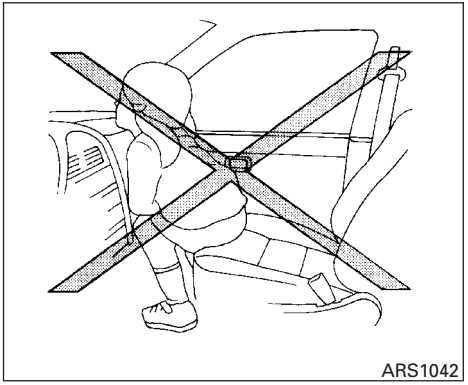
⚠WARNING

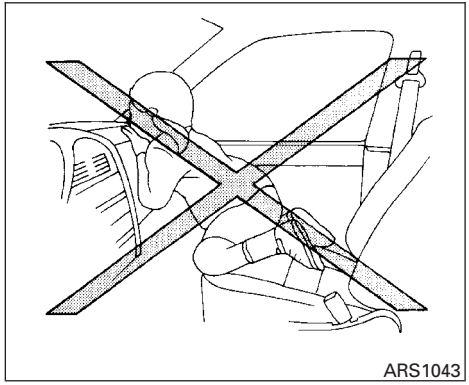
- **The front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The front passenger air bag will not inflate if the passenger air bag status light is lit or if the front passenger seat is unoccupied. For additional information, refer to “Front passenger air bag and status light” in this section.**
- **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 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, refer to "Front passenger air bag and status light" in this section.**
- **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.**



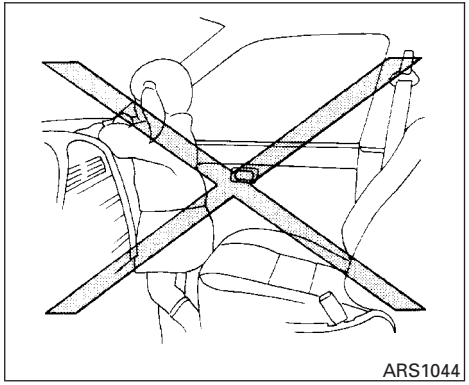

ARS1041

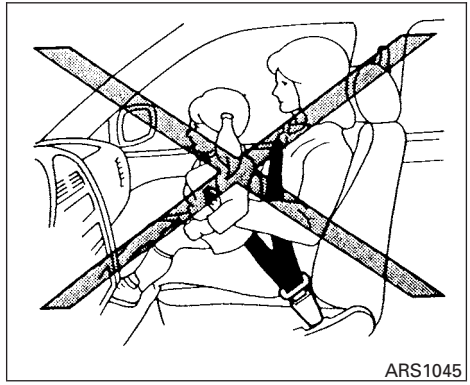

ARS1042

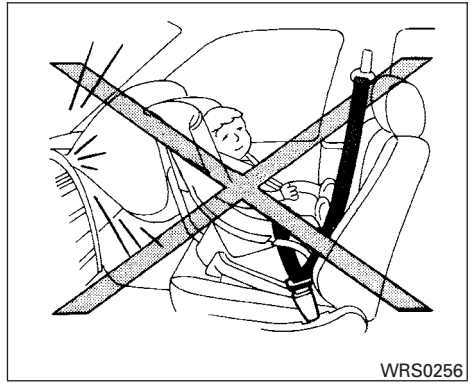

ARS1043

⚠WARNING

- **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.**

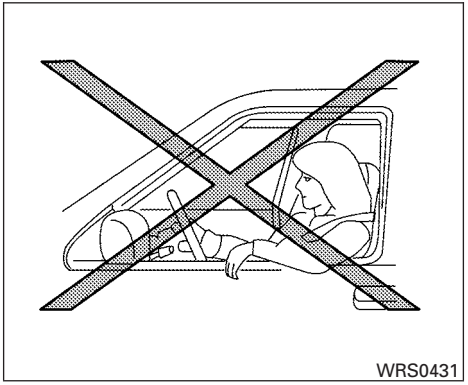

ARS1044


ARS1045


WRS0256

⚠WARNING

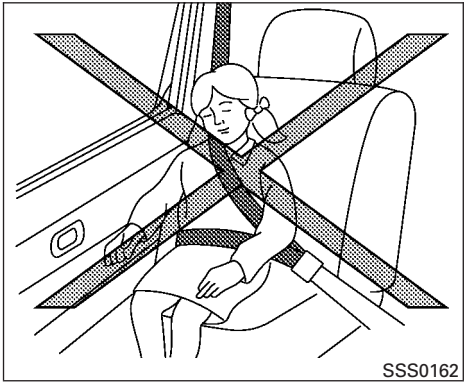
- **Children may be severely injured or killed when the front air bags, side air bags or curtain air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.**
- **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating front air bag could seriously injure or kill your child. For additional information, refer to “Child restraints” in this section.**


WRS0431

⚠WARNING

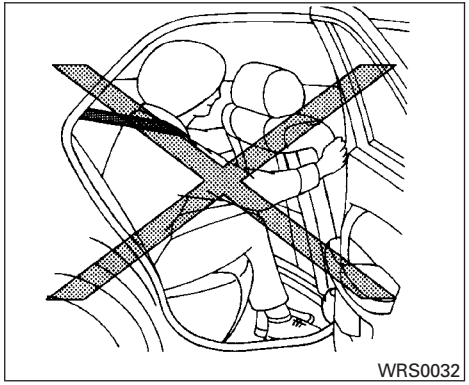
Front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags:

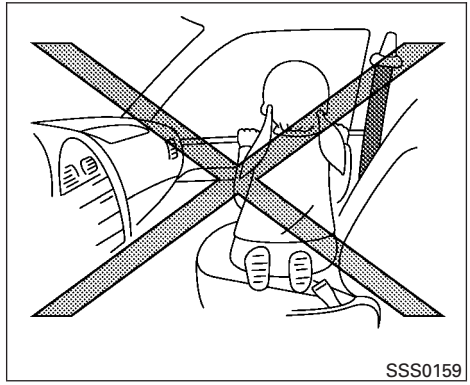
- **The side air bags and curtain air bags ordinarily will not inflate in the event of a frontal impact, rear impact, rollover or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**

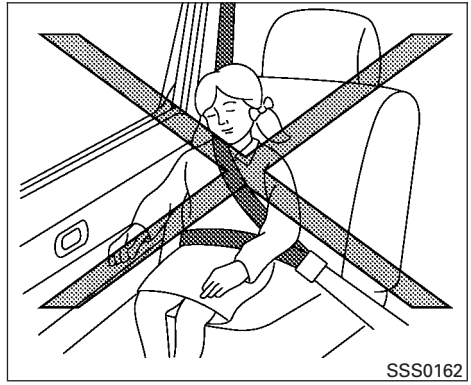

SSS0162

⚠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. 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 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.**

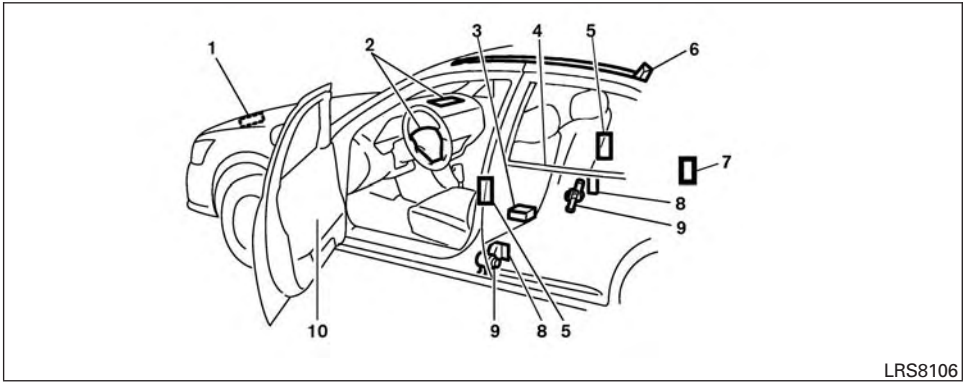

WRS0032


SSS0159


SSS0162

⚠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 seatbacks. They may interfere with side air bag inflation.**



LRS8106

NISSAN Advanced Air Bag System (front seats)

1. Crash zone sensor
2. Supplemental front-impact air bag modules
3. Air bag Control Unit (ACU)
4. Occupant classification sensor (weight sensor – located in front passenger seat cushion frame)
5. Front seat-mounted side-impact supplemental air bag modules
6. Roof-mounted curtain side-impact supplemental air bag
7. Rear side satellite sensor
8. Side satellite sensor
9. Seat belt with pretensioner(s) (front seats)
10. Front door satellite sensor (pressure sensor) (driver's side shown; front passenger side similar)

⚠ WARNING

To ensure proper operation of the front passenger's NISSAN Advanced Air Bag System, please observe the following items.

- **Do not allow a passenger in the rear seat to push or pull on the seatback pocket.**
- **Do not place heavy loads heavier than 2.2 kg (1 lb) on the seatback, head restraint/headrest or in the seatback pocket.**
- **Do not store luggage behind the seat that can press into the seatback.**
- **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, it is recommended that you visit a NISSAN dealer to check the occupant classification system.**
- **Until you have confirmed with a dealer that your 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 permitted in Canada. **However, 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 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 may be automatically turned off under some conditions, depending on the weight detected on the front passenger seat and how the seat belt is used. If the front passenger air bag is OFF, the front passenger air bag status light will be illuminated (if the seat is unoccupied, the light will not be illuminated, but the air bag will be off). For additional information, refer to “Front passenger air bag and status light” in this section. 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 to obtain information about the system. 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 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

⚠WARNING

The front passenger air bag is 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 on or off depending on the weight applied to the front passenger seat. The status of the front passenger 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:

- Unoccupied front passenger's seat: The light is OFF and the front passenger air bag is OFF and will not inflate in a crash.
- Front passenger seat occupied by a small adult, child or child restraint as outlined in this section: The light illuminates to indicate that the front passenger air bag is OFF and will not inflate in a crash.
- Occupied front passenger seat and the passenger meets the conditions as outlined in this section: The light is OFF to indicate that the front passenger air bag is operational.

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 related to the normal operation and troubleshooting of this occupant classification sensor system, please refer to “Normal operation” and “Troubleshooting” in this section.

Front passenger air bag

The front passenger air bag is 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 is 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 is in the front passenger seat, the NISSAN Advanced Air Bag System is de-

signed to turn the front passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, its weight and the child's weight can be detected and cause the air bag to turn OFF.

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 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 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 sensor is designed to operate as described above to turn the front passenger air bag OFF for specified child restraints as required by the regulations. Failing to properly secure child restraints and to use the ALR mode may allow the restraint to tip or move in a collision or sudden stop. This can also result in the passenger air bag inflating in a crash instead of being OFF. For additional information about proper use and installation, refer to "Child restraints" in this section.

If the front passenger seat is not occupied, the front passenger air bag is 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 is automatically turned OFF with the seat occupied. The light will not illuminate when the front passenger seat is unoccupied.

If an adult occupant is in the seat but the front passenger air bag status light is illuminated (indicating that the air bag is 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. If the air bag status light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the child restraint or seat belt is not being used properly. Make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the air bag status light is still not illuminated, reposition the occupant or child restraint in a rear seat.

If the front passenger air bag status light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). A NISSAN dealer can check that the system is OFF 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. For example, if a large adult who is sitting in the front passenger seat exits the vehicle, the front passenger air bag status light will go from OFF to ON for a few seconds and then to OFF. 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 blink. 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 2.2 lbs (1 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” 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” section of this manual.
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 locks the classification during driving so it is important that you confirm that the front passenger is properly classified prior to driving. Also, the occupant classification sensor system may recalculate the weight of the occupant when the vehicle comes to a stop (i.e. stop light, stop sign, etc.), 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:

1. If the light is ON with no front passenger and no objects on the front passenger seat:

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

- An object weighing over 2.2 lbs (1 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 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 vehicle should be checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

2. 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 is suppressed.

However, 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.

3. 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 2.2 lbs (1 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.

Other supplemental front-impact air bag precautions

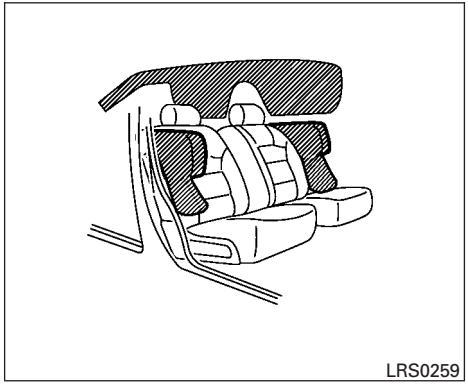
⚠WARNING

- **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.**
- **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.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. 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 seat-mounted side-impact supplemental air bag and roof-mounted curtain side-impact supplemental air bag systems

The side air bags are located within the outboard side of the front seatback. 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.

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 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 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 and passenger 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 front and rear outboard 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 bags and curtain air bags will deflate quickly after the collision is over.

The side air bags and curtain air bags operate only when the ignition switch is 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

- **Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if a side air bag inflates.**
- **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 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 systems.**

*** 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.

Seat belt with pretensioner(s) (front seats)

⚠ WARNING

- **The pretensioner(s) cannot be reused after activation. They 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 seat occupants.

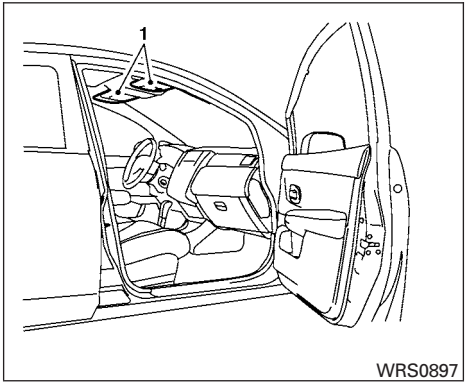
The pretensioner(s) are encased within the seat belt retractor and to the seat belt anchor affixed to the floor of the vehicle. These seat belts are used the same way as conventional seat belts.

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, refer to "Supplemental air bag warning light" in this section. 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.



1. SRS Air bag warning labels

   The warning labels are located on the surface of the sun visors.

SUPPLEMENTAL AIR BAG WARNING LABELS

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

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

When the ignition switch is in the ON or START 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 needs 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 may not operate properly. It 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 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 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, pretensioner(s) and related parts should be pointed out to the person performing the maintenance. The ignition switch should always be placed in the LOCK position when working under the hood or inside the vehicle.

⚠ WARNING

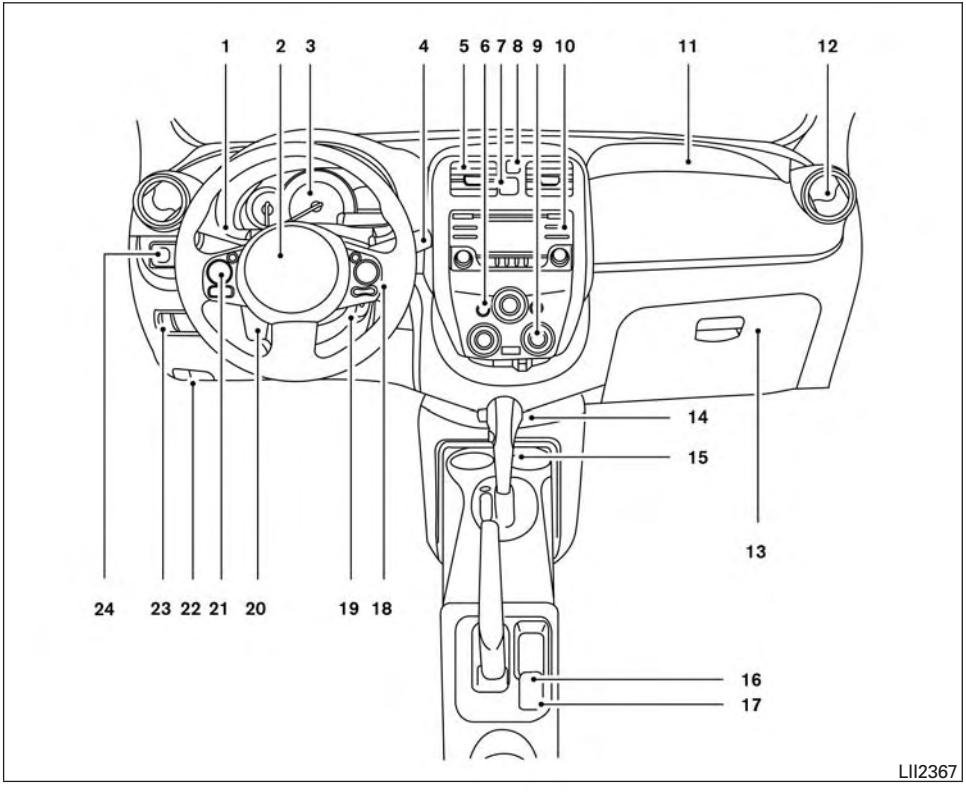
- **Once a front air bag, side air bag, or curtain air bag has inflated, the air bag module will not function again and must be replaced. Additionally, the activated pretensioner(s) must also be replaced. The air bag module and pretensioner(s) should be replaced. It is recommended that you visit a NISSAN 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 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 the 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.**

MEMO

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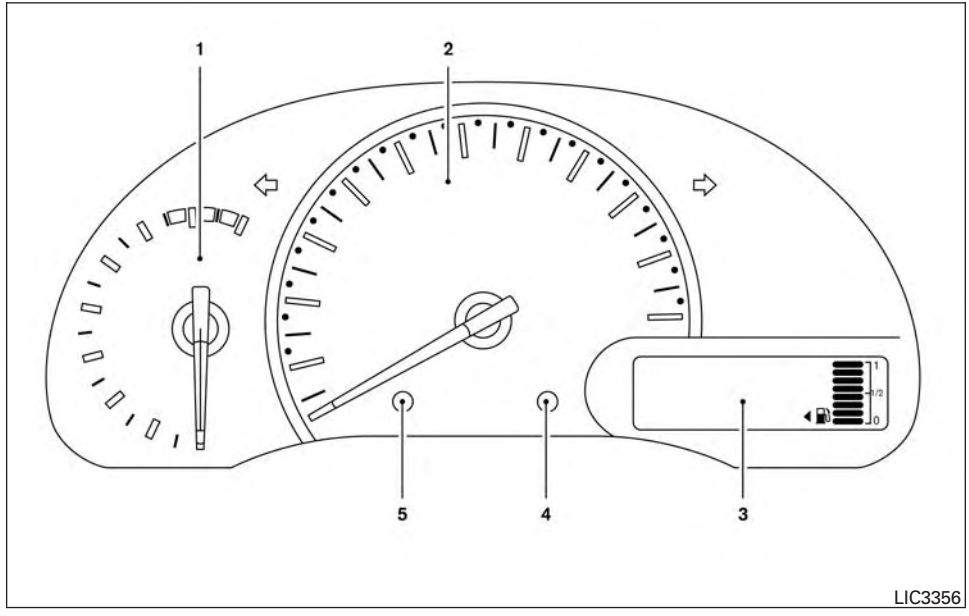
INSTRUMENT PANEL



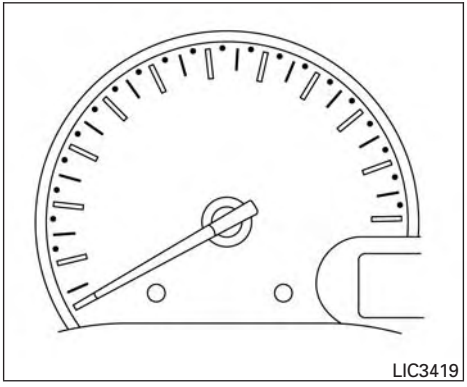
1. Headlight/turn signal switch (P. 2-17)
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Refer to the page number indicated in parentheses for operating details.



1. Tachometer
2. Speedometer
3. Odometer
   Trip computer
4. Instrument brightness control knob
5. Change/reset button

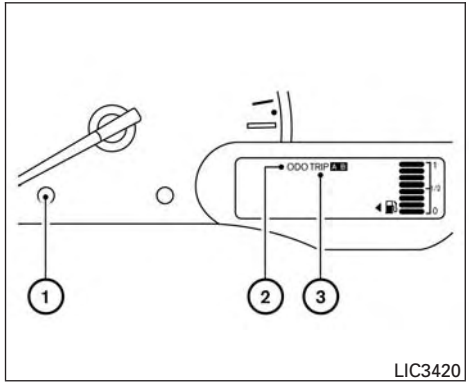

LIC3419

SPEEDOMETER AND ODOMETER

This vehicle is equipped with a speedometer and odometer. The speedometer is located in the center of the meter cluster. The odometer is located within the trip computer.

Speedometer

The speedometer indicates the vehicle speed.



LIC3420

Odometer/Twin trip odometer

The odometer/twin trip odometer is displayed when the ignition switch is placed in the ON position.

The odometer② records the total distance the vehicle has been driven.

The twin trip odometer③ records the distance of individual trips.

Changing the display

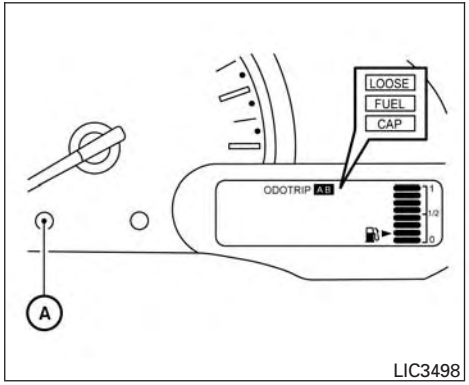
Press the change button ① to change the display as follows:

Odo → Trip A → Trip B → Ins fuel consumption → Average fuel consumption → Cruising range or (DTE) → Odo

For trip computer information, refer to “Trip computer” in this section.

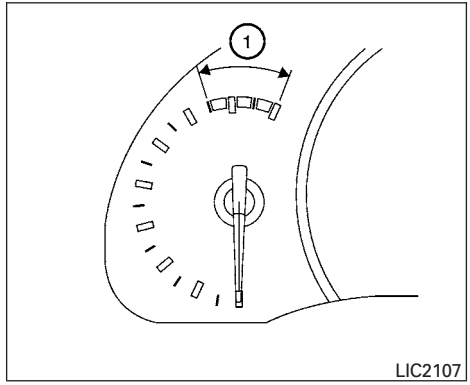
Resetting the trip odometer

Press the change/reset button ① for more than 1 second to reset the currently displayed trip odometer to zero.



Loose fuel cap warning message

Push the change/reset button Ⓐ for more than 1 second to reset the LOOSE FUEL CAP warning message after the fuel cap has been tightened. For additional information, refer to “Fuel-filler cap” in the “Pre-driving checks and adjustments” section of this manual.

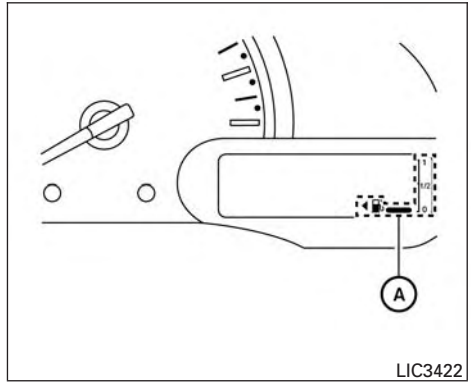


TACHOMETER

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

⚠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.



FUEL GAUGE

The gauge indicates Ⓐ the **approximate** fuel level in the tank when the ignition switch is placed in the ON position.

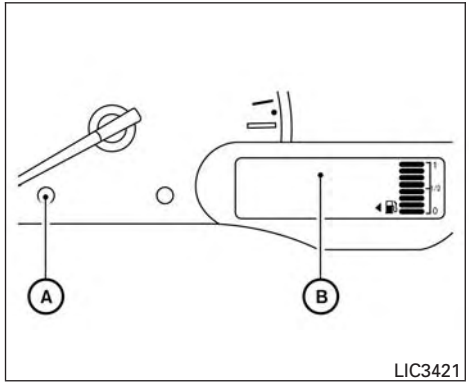
When one segment remains on the digital fuel gauge, only one segment will blink. When no segments remain on the digital fuel gauge, the fuel gauge symbol and the scale will blink. This indicates that the fuel lever is low.

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

The ◀⛽ indicates that the fuel-filler door is located on the driver’s side of the vehicle.

⚠CAUTION

- **If the vehicle runs out of fuel, the check engine light 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, refer to "Malfunction Indicator Light (MIL)" in this section.**



LIC3421

TRIP COMPUTER

When the ignition switch is placed in the ON position, modes of the trip computer can be selected by pushing the trip computer change/reset button Ⓐ on the instrument panel located near the speedometer. The following modes can be selected in the display Ⓑ:

- Instant fuel consumption
- Average fuel consumption
- Distance to empty

Instant fuel consumption

The instant fuel consumption mode shows the instant fuel economy. The display updates instantly when driving.

Average fuel consumption

The average fuel consumption mode shows the average fuel consumption since the last reset. Resetting is done by pressing the change/reset button Ⓐ for more than approximately 1 second.

Distance to empty

The distance to empty mode provides you with an estimation of the distance that can be driven before refueling. The range is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The distance to empty includes a low range warning feature: when the fuel level is low, the distance to empty is automatically selected and the digits blink in order to draw the driver's attention. Press the trip computer change/reset button Ⓐ if you wish to return to the mode that was selected before the warning occurred.

When the fuel level drops even lower, the distance to empty will display (----).

Trip computer reset

Pressing the change/reset button for more than 3 seconds will reset all modes except Trip A and distance to empty.


Anti-lock Braking System (ABS) warning light


Brake warning light


Charge warning light


Door open warning light


Engine oil pressure warning light


High temperature warning light (red)


Low windshield-washer fluid warning light


Power steering warning light (if so equipped)


Seat belt warning light and chime


Supplemental air bag warning light


Automatic Transmission position indicator light (A/T models only)


Cruise main switch indicator light (if so equipped)


Front fog light indicator light (if so equipped)


Front passenger air bag status light


High beam indicator light (blue)


Malfunction Indicator Light (MIL)


Overdrive OFF indicator light (A/T models only)


Security indicator light (if so equipped)


Slip indicator light


Turn signal/hazard indicator lights


Vehicle Dynamic Control (VDC) OFF indicator light

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:


PS

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



If any light fails to 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.

Some indicators and warnings are also displayed in the trip computer located to the right of the speedometer. For additional information, refer to “Meters and gauges” in this section.

WARNING LIGHTS

This vehicle has various warning lights that may illuminate to indicate a potential problem. For additional information, refer to the specific light in this section.

Anti-lock Braking System (ABS) warning light

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, refer to “Brake system” in the “Starting and driving” section of this manual.

Brake warning light

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, the 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, refer to “Brake fluid” in the “Do-it-yourself” section of this manual.
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 continue driving if the generator belt is loose, broken or missing.



Door open warning light

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



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, refer to “Engine oil” in the “Do-it-yourself” section of this manual.

⚠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 warranty. Turn off the engine as soon as it is safe to do so.



High temperature warning light (red)

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.

⚠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, refer to “If your vehicle overheats” in the “In case of emergency” section of this manual.



Low windshield-washer fluid warning light

This light comes on when the windshield-washer fluid is at a low level. Add windshield-washer fluid as necessary. For additional information, refer to “Windshield-washer fluid” in the “Do-it-yourself” section of this manual.



Power steering warning light (if so equipped)

⚠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, refer to “Power steering” in the “Starting and driving” section of this manual.



Seat belt warning light and chime

The light and chime remind you to fasten your seat belts. The light illuminates whenever the ignition switch is placed in the ON or START position and remains illuminated until the driver’s seat belt is fastened.

The seat belt warning light may also illuminate if the front passenger’s seat belt is not fastened when the front passenger’s seat is occupied .

For additional information, refer to “Seat belts” in the “Safety—Seats, seat belts and supplemental restraint system” section of this manual.



Supplemental air bag warning light

When the ignition switch is placed in the ON or START 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, refer to “Supplemental Restraint System (SRS)” in the “Safety—Seats, seat belts and supplemental restraint system” section of this manual.

⚠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.

INDICATOR LIGHTS

This vehicle has various indicator lights that may illuminate to indicate a system status. For additional information, refer to the specific light in this section.



Automatic Transmission position indicator light (A/T models only)

When the ignition switch is in the ON position, this indicator light shows the shift lever position. For additional information, refer to “Driving the vehicle” in the “Starting and driving” section of this manual.

Cruise main switch indicator light (if so equipped)

The light comes on when the cruise control main switch is pushed. The light goes out when the main switch is pushed again. When the cruise main switch indicator light comes on, the cruise control system is operational.

For additional information, refer to “Cruise control” in the “Starting and driving” section of this manual.

Front fog light indicator light (if so equipped)

The front fog light indicator light illuminates when the front fog lights are on. For additional information, refer to “Fog light switch” in this section.

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, refer to “Front passenger air bag and status light” in the “Safety — Seats, seat belts and supplemental restraint system” section of this manual.

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.

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 may also come on steady if the fuel-filler cap is loose or missing, or 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 gal (11.4 L) 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, refer to “Readiness for inspection/maintenance (I/M) test” in the “Technical and consumer information” section of this manual.

Operation

The MIL will come on in one of two ways:

- MIL on steady — An emission control system malfunction has been detected. Check the fuel-filler cap if the LOOSE FUEL CAP warning appears in the trip computer. If the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected. It is recommended that you visit a NISSAN dealer for this service. You do not need to have your vehicle towed to the dealer.
- MIL blinking — An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:
  - do not drive at speeds above 45 mph (72 km/h).
  - avoid hard acceleration or deceleration.
  - avoid steep uphill grades.

– if possible, reduce the amount of cargo being hauled or towed.

The MIL may stop blinking and come on steady. Have the vehicle inspected. It is recommended that you visit a NISSAN dealer for this service. You do not need to have your vehicle towed to the dealer.

⚠CAUTION

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

O/D OFF Overdrive OFF indicator light (A/T models only)

This light comes on when the overdrive function is OFF.

The automatic transmission overdrive function is controlled by the overdrive switch.

For additional information, refer to “Driving the vehicle” in the “Starting and driving” section of this manual.

Security indicator light (if so equipped)

This light blinks when the ignition switch is placed in the OFF, LOCK or ACC position.

The blinking security indicator light indicates that the security systems equipped on the vehicle are operational.

For additional information, refer to “Security systems” in this section.

Slip indicator light

This indicator will blink when the Vehicle Dynamic Control (VDC) system is operating, thus alerting that the vehicle is nearing its traction limits. The road surface may be slippery.

Turn signal/hazard indicator lights

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

Both lights flash when the hazard switch is turned on.

OFF Vehicle Dynamic Control (VDC) OFF indicator light

This indicator light comes on when the VDC OFF switch is pushed to off. This indicates the VDC system has been turned off.

Push the VDC OFF switch again or restart the engine and the system will operate normally. For additional information, refer to “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section of this manual.

The VDC indicator light also comes on when you place the ignition switch in the ON position. The light will turn off after about 2 seconds 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.

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.

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.

Key reminder chime

A chime sounds if the driver's door is opened while the key is left in the ignition switch. Remove the key and take it with you when leaving the vehicle.

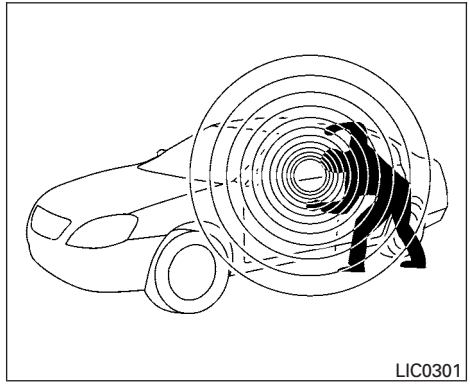
Light reminder chime

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 before leaving the vehicle.

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.


LIC0301

Your vehicle has a security system:

- NISSAN Vehicle Immobilizer System

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 placed 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:

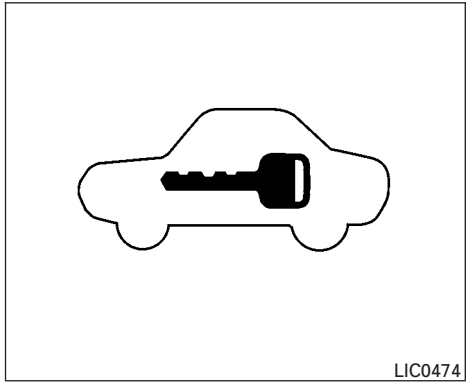
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 licence-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.



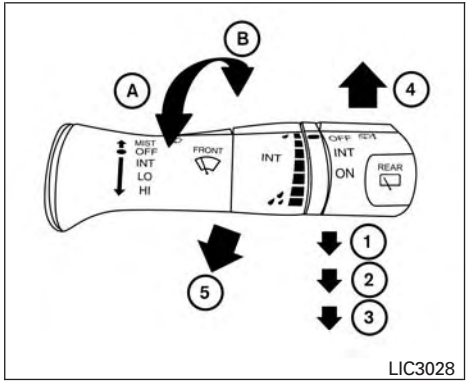
Security indicator light (if so equipped)

The security indicator light blinks whenever the ignition switch is placed in the OFF, LOCK or ACC position.

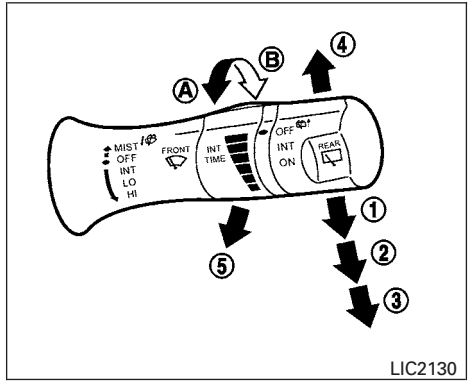
This function indicates the NISSAN Vehicle Immobilizer System is operational.

If the NISSAN Vehicle Immobilizer System is malfunctioning, the light will remain on while the ignition switch is placed in the ON position.

If the light still remains on and/or the engine will not start, seek service for the NISSAN Vehicle Immobilizer System service as soon as possible. Please bring all registered keys that you have. It is recommended that you visit a NISSAN dealer for this service.



Type A (if so equipped)



Type B (if so equipped)

SWITCH OPERATION

⚠ 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.**

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:

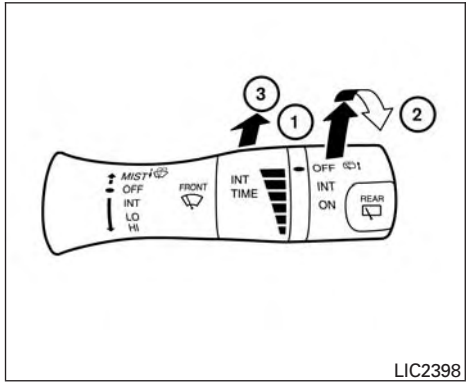
① Intermittent (INT) — intermittent operation can be adjusted by turning the knob toward Ⓐ (Slower) or Ⓑ (Faster).

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.



LIC2398

REAR SWITCH OPERATION

The rear window wiper and washer operate when the ignition switch is placed in the ON position.

Turn the switch clockwise from the OFF position to operate the wiper.

① Intermittent (INT) – intermittent operation (not adjustable)

② ON – continuous low speed operation

Push the switch forward ③ to operate the washer. The wiper will also operate several times.

⚠ WARNING

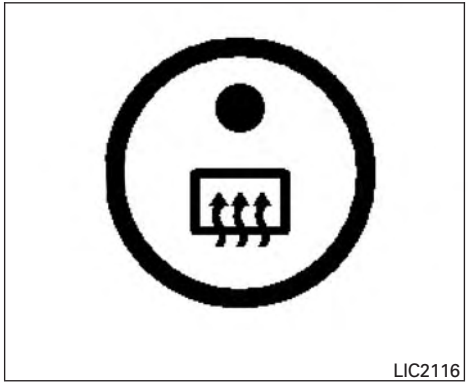
In freezing temperatures the washer solution may freeze on the window and obscure your vision. Warm the rear window with the defroster before you wash the rear window.

⚠ 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.**

REAR WINDOW AND OUTSIDE MIRROR (if so equipped) DEFROSTER SWITCH



LIC2116

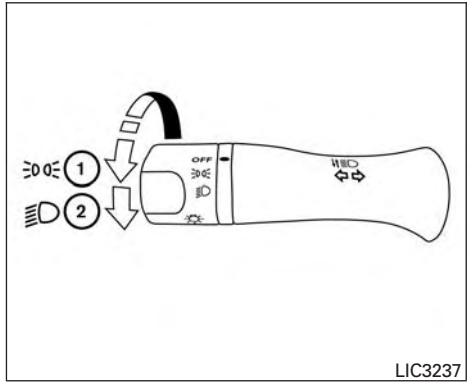
To defrost the rear window glass and outside mirrors (if so equipped), start the engine and push the rear window defroster switch on. The rear window defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

The rear window defroster automatically turns off after approximately 15 minutes.

⚠ CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defroster.

HEADLIGHT AND TURN SIGNAL SWITCH



LIC3237

HEADLIGHT CONTROL SWITCH

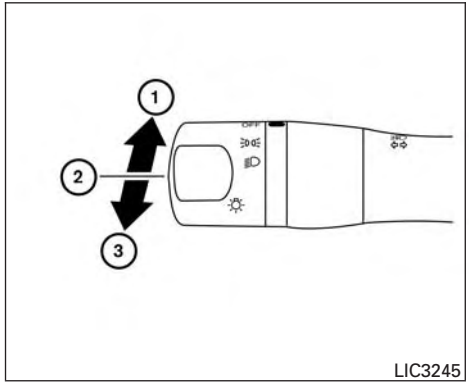
Lighting

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.

⚠CAUTION

Use the headlights with the engine running to avoid discharging the vehicle battery.



Headlight beam select

① To select the high beam function, engage the low beams, then push the lever forward. The high beam lights come on and the indicator light illuminates (blue). For additional information, refer to “Headlight control switch” in this section.

② Pull the lever back to return to the low beams.

③ Pulling and releasing the lever flashes the headlight high beams on and off. The low beams need not be on for this function.

Battery saver system

If the ignition switch is placed in the OFF position while the headlight switch is in the or position, the headlights will turn off after a period of time.

⚠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 when the engine is not running to avoid discharging the vehicle battery.

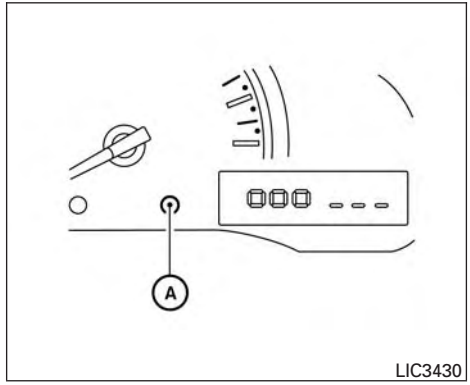
DAYTIME RUNNING LIGHT SYSTEM

The headlights automatically illuminate at a reduced intensity when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position. Turn the headlight switch to the or position for full illumination when driving at night.

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate when the parking brake is released. The daytime running lights will remain on until the ignition switch is placed in the OFF position.

⚠ WARNING

When the daytime running light 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.



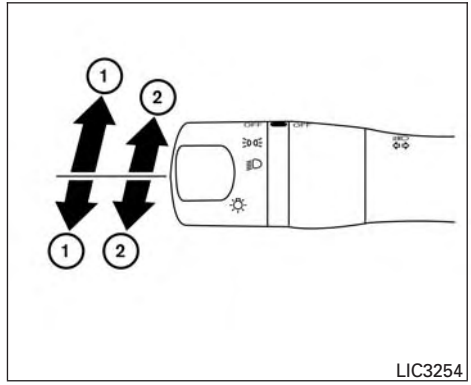
LIC3430

INSTRUMENT BRIGHTNESS CONTROL

The instrument brightness control operates when the headlight control switch is in the ≡DC≡ or position.

Push the control Ⓐ to adjust the brightness of instrument panel lights when driving at night.

When the ignition is on and the knob is pushed, the illumination decreases. The brightness will return to the maximum level when the brightness is at its minimum and the knob is pushed.



LIC3254

TURN SIGNAL SWITCH

Turn signal

① Move the lever up or down to signal the turning direction. When the turn is completed, the turn signal cancels automatically.

NOTE:

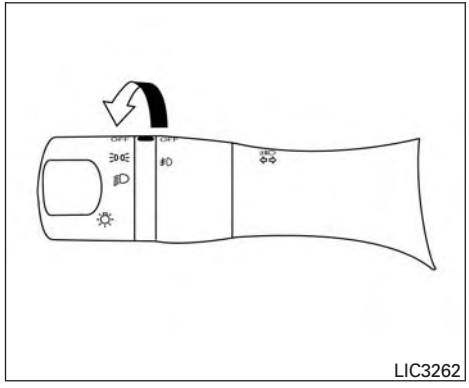
In case of a turn signal light malfunction, the turn signal indicator will flash at a higher frequency when the turn signal is activated.

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 completed.

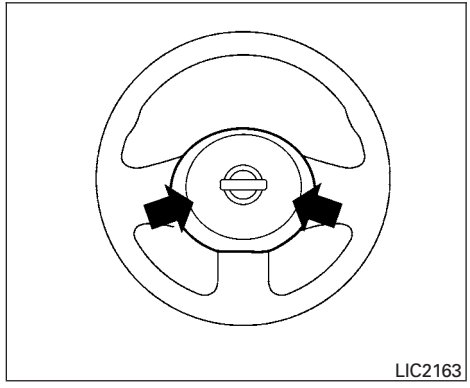
Move the lever up or down until the turn signal begins to flash, but the lever does not latch, and release the lever. The turn signal will automatically flash three times.

Choose the appropriate method to signal a lane change based on road and traffic conditions.


LIC3262

FRONT FOG LIGHTS (if so equipped)

To turn the front fog lights on, rotate the headlight switch to the ≡D◁≡ or ≡D position, then rotate the fog light switch to the ≡D position.
To turn them off, rotate the fog light switch to the OFF position.

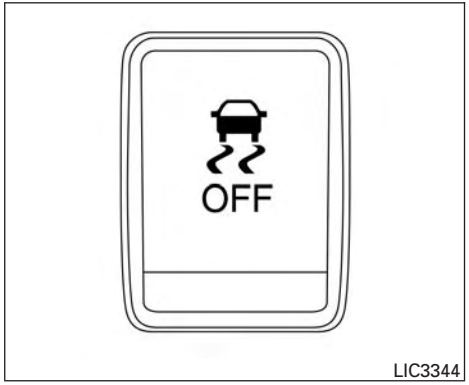

LIC2163

To sound the horn, push near the horn icon on 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.

VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH



LIC3344

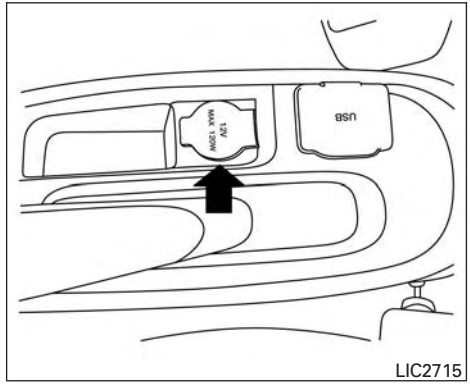
The vehicle should be driven with the VDC system on for most driving conditions.

If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the VDC system, push the VDC OFF switch. The OFF indicator will come on.

Push the VDC OFF switch again or restart the engine to turn on the system. For additional information, refer to “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section of this manual.

POWER OUTLET

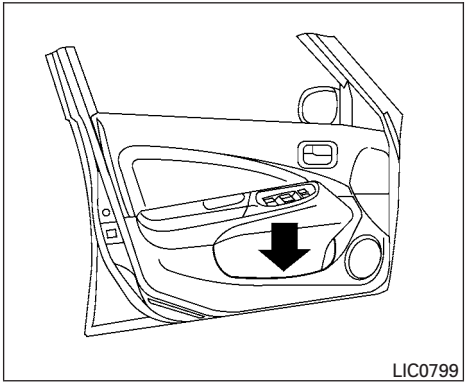


LIC2715

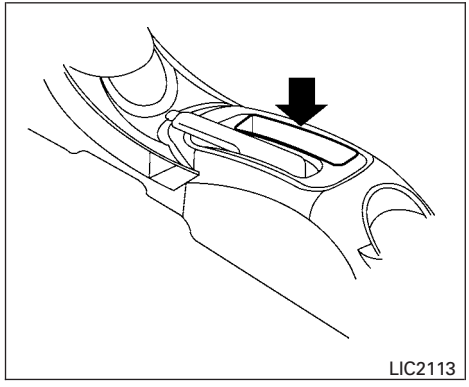
The power outlet is for powering electrical accessories such as cellular telephones. The outlet is rated at 12 volt, 120W (10A) maximum.

⚠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. For additional information, it is recommended that you visit a NISSAN dealer.**
- **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 (if so equipped), headlights or rear window defroster (if so equipped) 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.**



FRONT-DOOR POCKETS

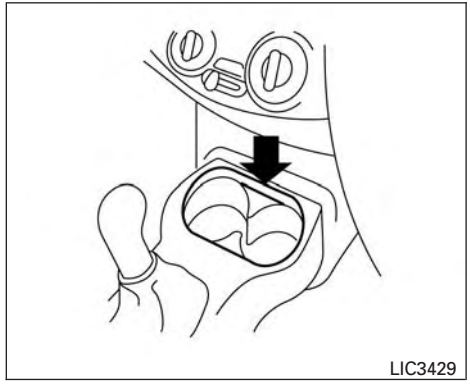


Storage compartment

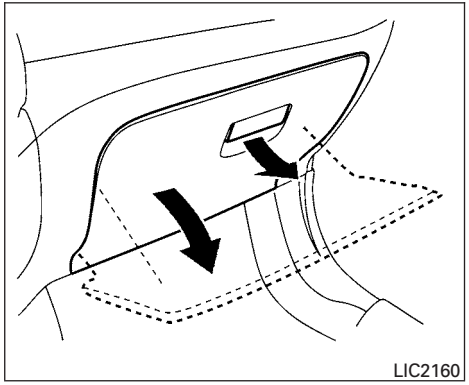
STORAGE TRAYS (if so equipped)

⚠WARNING

Do not place sharp objects in the trays to help prevent injury in an accident or sudden stop.



Instrument panel

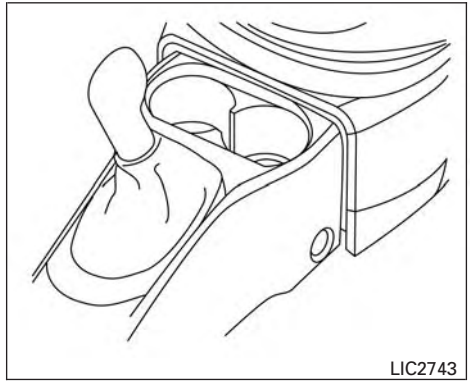


GLOVE BOX

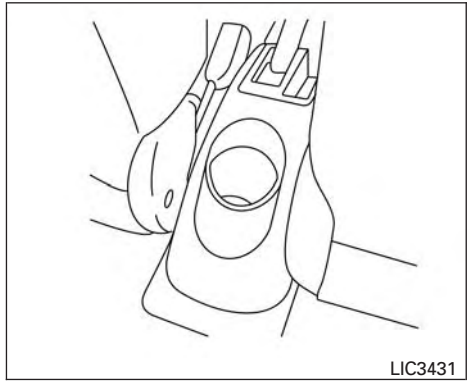
Open the glove box by pulling the handle.

⚠ WARNING

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.



Front

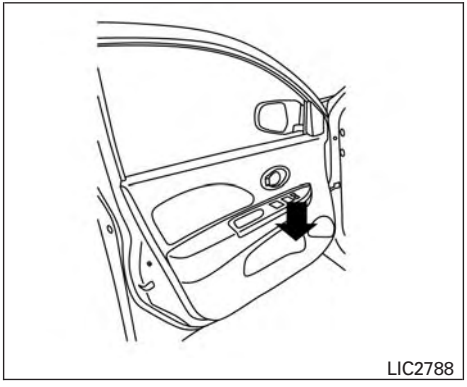


Rear

CUP HOLDERS

⚠ 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.**



Front

Soft bottle holder

⚠CAUTION

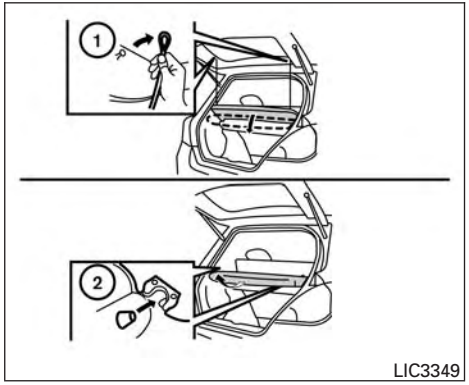
- **Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during sudden braking or an accident.**
- **Do not use bottle holder for open liquid containers.**

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 a sudden stop.**
- **Do not put objects heavier than 20 kg (44 lbs) 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.**
- **Your child could be seriously injured or killed in a collision if the child restraint top tether strap is damaged.**
  - **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.**
  - **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 that contacts the top tether strap may damage the top tether strap during a collision.**

The cargo cover keeps the luggage compartment contents hidden from the outside.

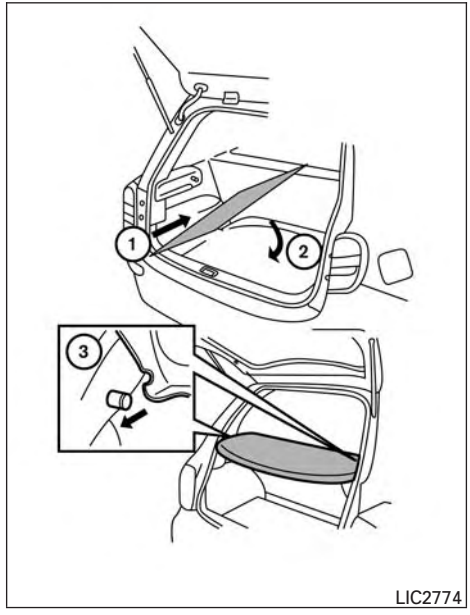


To remove the cargo cover:

① Remove the straps from the rear hatch.

② Remove the cargo cover holders from the rear pillar.

Rotate and remove the cargo cover without touching surrounding parts.



To insert the cargo cover:

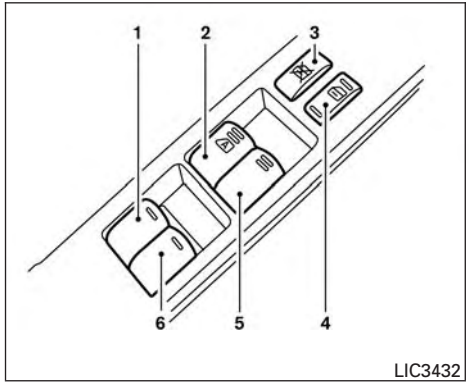
1. Insert cargo cover ① rotating it so it doesn't touch surrounding parts.
2. Rotate the cargo cover ② parallel over the cargo area.
3. Insert cargo cover ③ on the rear pillars.
4. Reattach the straps to the rear hatch.

POWER WINDOWS (if so equipped)

⚠ 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 switch 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.



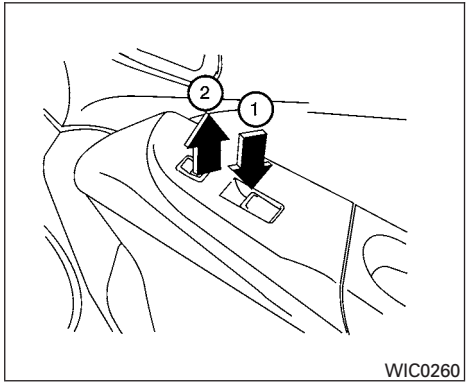
LIC3432

1. Left rear passenger's window switch
2. Driver's side automatic switch
3. Window lock button
4. Power door lock switch
5. Front passenger's side window switch
6. Right rear passenger's window switch

Driver's side power window switch

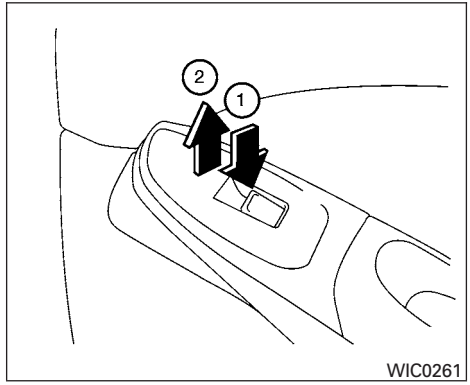
The driver's side control panel is equipped with switches to open or close the front and rear passenger windows.

To open a window, push the switch and hold it down. To close a window, pull the switch and hold it up. To stop the opening or closing function at any time, simply release the switch.



Front passenger's power window switch

The passenger's window switch operates only the corresponding passenger's window. To open the window, push the switch and hold it down ①. To close the window, pull the switch up ②.

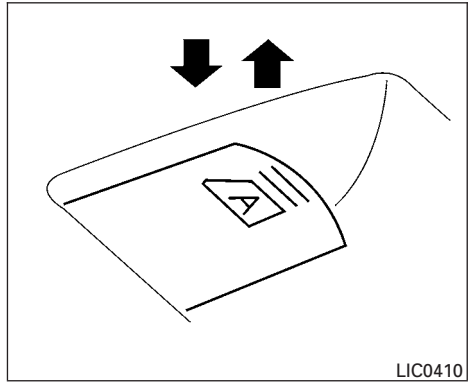


Rear power window switch

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.

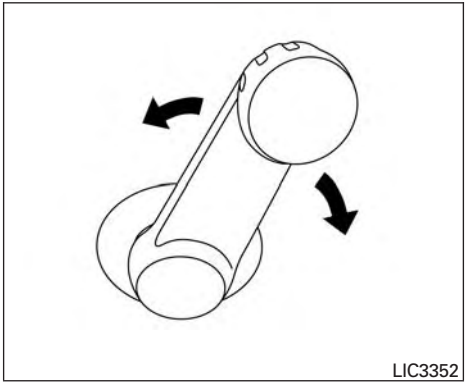
Locking passengers' windows

When the window lock switch is depressed, only the driver's side window can be opened or closed. Push it again to cancel the window lock function.



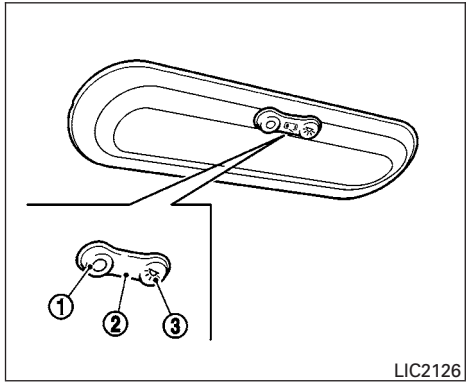
Automatic operation

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.


LIC3352

MANUAL WINDOWS (if so equipped)

The side windows can be opened or closed by turning the hand crank on each door.



LIC2126

The interior light has a three-position switch and operates regardless of ignition switch position.

When the switch is in the ON position ③, the interior lights illuminate, regardless of door position. The lights will go off after a period of time unless the ignition switch is placed in the ACC or ON position (if so equipped).

When the switch is in the DOOR position ②, the interior lights will stay on for a period of time when:

- The doors are unlocked by the key fob, a 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 key is removed from the ignition switch.
- The key is removed from the ignition switch while all doors are closed.

The lights will turn off while the timer is activated when:

- The driver's door is locked by the key fob, a key, or the power door lock switch.
- The ignition switch is placed in the ON position.

When the switch is in the OFF position ①, the interior lights do not illuminate, regardless of door position.

The lights will turn off automatically after a period of time while doors are open to prevent the battery from becoming discharged.

⚠ CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

LUGGAGE COMPARTMENT LIGHT

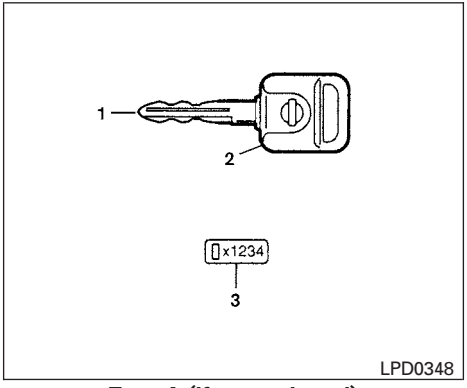
The light illuminates when the rear hatch is opened. When the rear hatch is closed, the light will turn off.

The light also illuminates with other interior lights when the interior light switch is in the DOOR position. For additional information, refer to “Interior light” in this section.

MEMO

3 Pre-driving checks and adjustments

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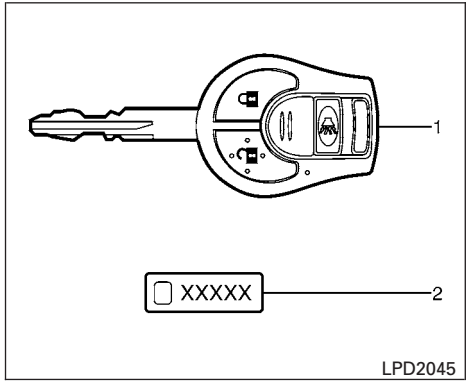


Type A (if so equipped)

1. Master key
2. Transponder chip
3. Key number plate

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 your keys. If you still have a key, it can be duplicated without knowing the key number.



Type B—Remote keyless entry key fob (if so equipped)

1. Integrated door lock key fob
2. Key number plate

⚠CAUTION

Do not leave the ignition key inside the vehicle when you leave the vehicle.

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.

NISSAN VEHICLE IMMOBILIZER SYSTEM KEYS

You can only drive your vehicle using the keys which are registered to the NISSAN Vehicle Immobilizer System components in your vehicle.

A mechanical key can be used for all the locks.

Never leave the keys in the vehicle.

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 a 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 pro-

cess, these components will only recognize keys coded into the NISSAN Vehicle Immobilizer System during registration. Any key that is not given to the dealer at the time of registration will no longer be able to start your vehicle.

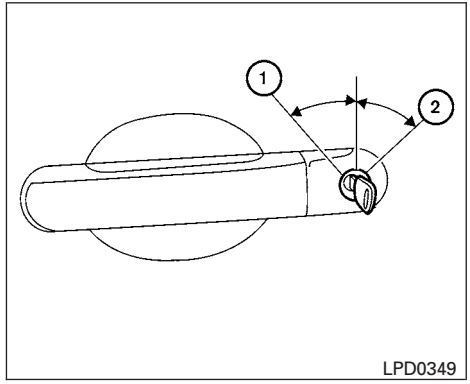
⚠CAUTION

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.

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

- **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.**



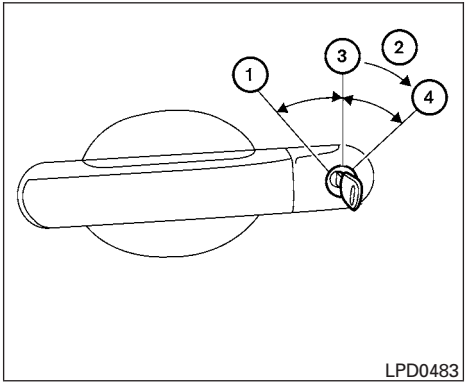
Driver's side

LOCKING WITH KEY

To lock or unlock the vehicle, turn the key as shown.

Manual (if so equipped)

To lock a door, turn the key toward the front of the vehicle ①. To unlock, turn the key toward the rear ②.

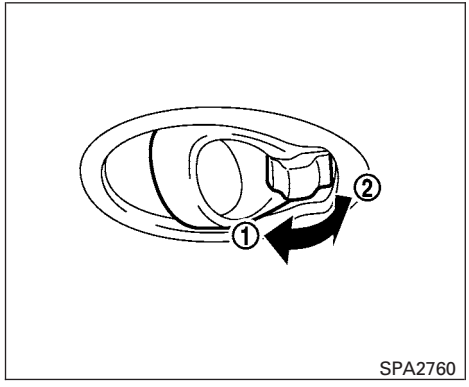


Selective open (if so equipped)

The power door lock system allows you to lock or unlock all doors at the same time.

Turning the key toward the front ① of the vehicle locks all doors.

Turning the key toward the rear ② of the vehicle unlocks that door. From that position, returning the key to neutral ③ (where the key can only be removed and inserted) and turning it toward the rear again within 5 seconds unlocks all doors ④.



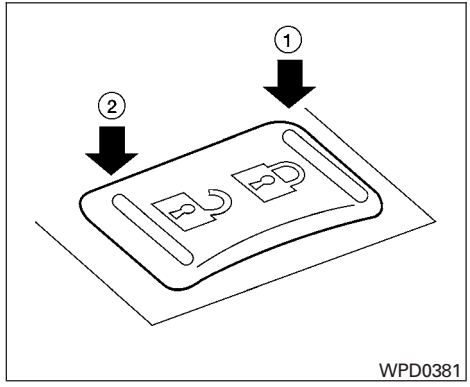
Inside lock

LOCKING WITH INSIDE LOCK KNOB

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.

If equipped, the door can also be opened without a key by pulling the open lever.



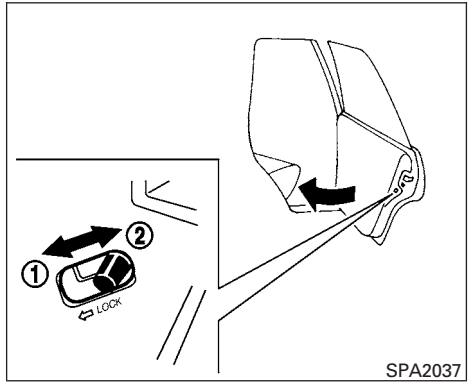
LOCKING WITH POWER DOOR LOCK SWITCH (if so equipped)

To lock all the doors without a key, push the door lock switch 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 to the unlock position ②.

AUTOMATIC DOOR LOCKS (if so equipped)

- All doors lock automatically when the vehicle speed reaches 15 mph (24 km/h).
- All doors unlock automatically when the ignition is placed in the OFF position or when the key is removed from the ignition switch.



CHILD SAFETY REAR DOOR LOCK

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.

⚠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 remote keyless entry key fob transmits radio waves when the buttons are pressed. The radio waves may affect aircraft navigation and communication systems. Do not operate the remote keyless entry key fob while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored for a flight.**

It is possible to lock/unlock all doors, turn the interior light on, and activate the panic alarm by using the key fob from outside the vehicle.

Be sure to remove the key from the vehicle before locking the doors.

The key fob can operate at a distance of approximately 33 ft (10 m) from the vehicle. The effective distance depends upon the conditions around the vehicle.

As many as five key fobs can be used with one vehicle. For information concerning the purchase and use of additional key fobs, it is recommended that you visit a NISSAN dealer.

The key fob will not function when:

- the battery is discharged
- the distance between the vehicle and the key fob is over 33 ft (10 m)

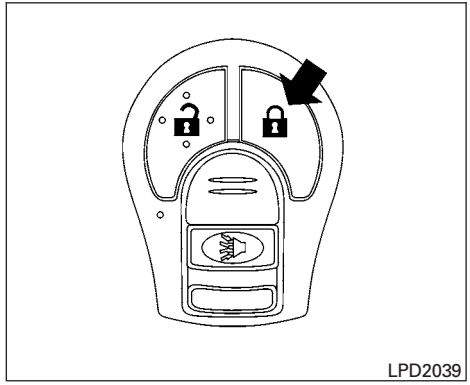
The panic alarm will not activate when the key is in the ignition switch.

⚠ CAUTION

Listed below are conditions or occurrences which will damage the key fob:

- **Do not allow the key fob, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the key fob.**
- **Do not strike the key fob sharply against another object.**
- **Do not change or modify the key fob.**
- **Wetting may damage the key fob. If the key fob gets wet, immediately wipe until it is completely dry.**
- **Do not place the key fob for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the key fob with a key holder that contains a magnet.**
- **Do not place the key fob near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If a key fob is lost or stolen, NISSAN recommends erasing the ID code of that key fob. This will prevent the key fob from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, it is recommended that you visit a NISSAN dealer.


LPD2039

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

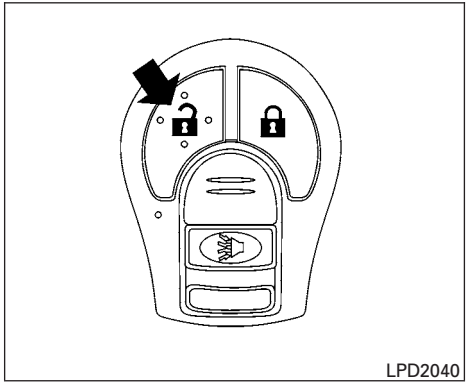
Locking the doors

1. Remove the ignition key.
2. Close all the doors.
3. Press the LOCK button on the key fob.

- All the doors will lock.
- The hazard indicator flashes once.

NOTE:

An auto-relock function will operate after a full or partial unlock, when no further user action occurs. The relock will operate approximately 30 seconds after full or partial unlock. The auto-relock function is canceled when any door is opened or the key is inserted into the ignition.


LPD2040

Unlocking the doors

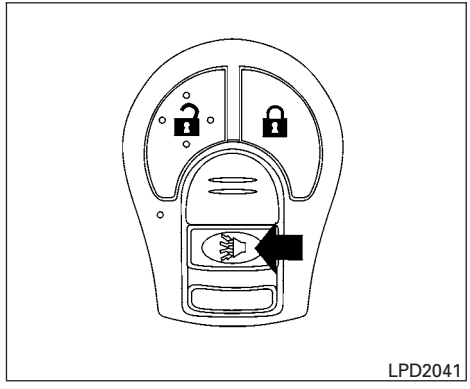
Press the UNLOCK button on the key fob.

- All doors unlock
- The hazard indicator flashes twice.

Auto relock

When the button on the key fob is pressed, all doors will lock automatically within 30 seconds unless one of the following operations is performed:

- Any door is opened.
- A key is inserted into the ignition switch and the switch is cycled from OFF to ON.


LPD2041

Using the panic alarm

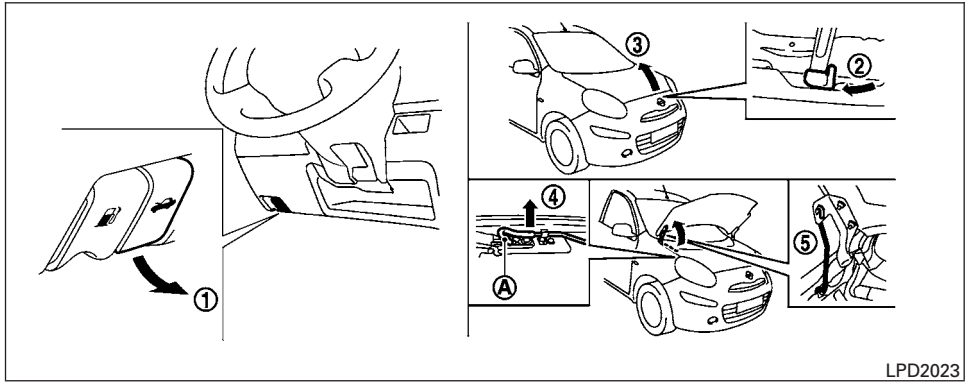
If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention by pressing and holding the button on the key fob for **longer than 0.5 seconds.**
The panic alarm will stay on for a period of time.

The panic alarm stops when:

- It has run for a period of time, or
- Any button is pressed on the key fob.

Using the interior light

Press the button on the key fob once to turn on the interior lights.
For additional information, refer to “Interior light” in the “Instruments and controls” section of this manual.



1. Pull the hood lock release handle ① located below the instrument panel until the hood springs up slightly.
2. Locate the lever ② in between the hood and grille and push the lever sideways with your fingertips.
3. Raise the hood ③.
4. Remove the support rod ④ and insert it into the slot ⑤.

Hold the coated parts Ⓐ when removing or resetting the support rod. Avoid direct contact with the metal parts, as they may be hot immediately after the engine has been stopped.

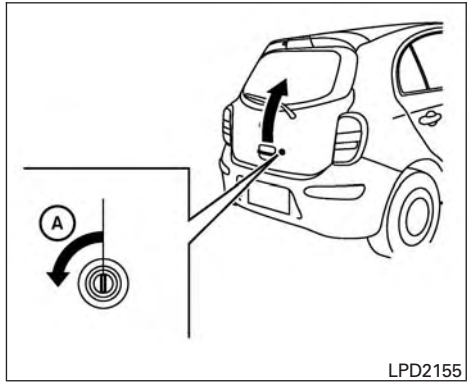
When closing the hood, return the support rod to its original position, lower the hood to approximately 30 cm (12 in) above the latch and release it. This allows proper engagement of the hood latch.

⚠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.**

⚠WARNING

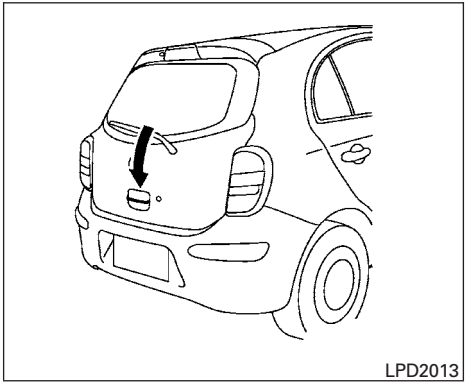
The rear hatch must be closed securely before driving. An open rear hatch could allow dangerous exhaust gases to be drawn inside the vehicle. For additional information, refer to “Exhaust gas (carbon monoxide)” in the “Starting and driving” section of this manual.



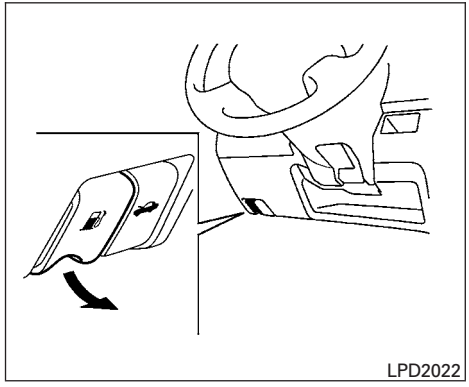
OPENING THE REAR HATCH

To open the rear hatch, unlock it with one of the following operations, then pull on the handle.

- Push the power door lock switch to the unlock position.
- Unlock all doors using the key Ⓐ (if so equipped).
- Press the button on the remote control once. For additional information, refer to “Remote keyless entry system” in this section.

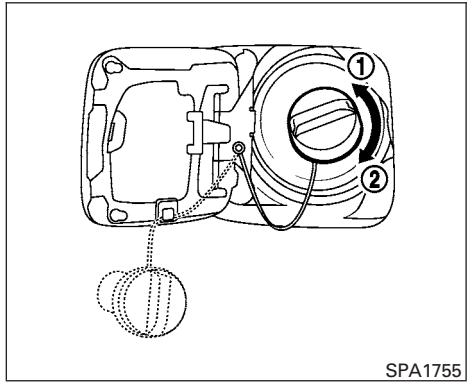

LPD2013

To close the rear hatch, push the rear hatch down until it securely locks.


LPD2022

OPENER OPERATION

The fuel-filler door release is located below the instrument panel. To open the fuel-filler door, pull the release. To lock, close the fuel-filler door securely.



SPA1755

FUEL-FILLER CAP

The fuel-filler cap is a detachable type. Turn the cap counterclockwise ① to remove. To tighten, turn the cap clockwise ② until a single click is heard.

Put the fuel-filler cap on the cap holder while refueling.

⚠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.
- Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury. It could also cause the Malfunction Indicator Light (MIL) to come on.
- 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.

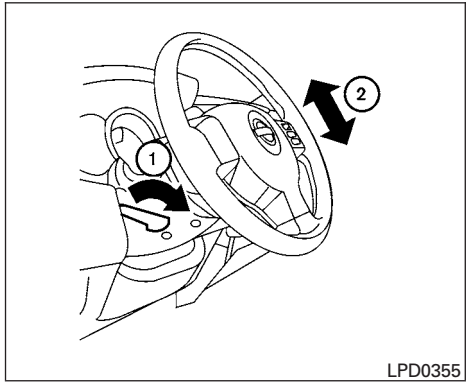
⚠CAUTION

- Do not use E-15 or E-85 fuel in your vehicle. For additional information, refer to “Fuel Recommendation” in the “Technical and consumer information” section of this manual.
- Failure to tighten the fuel-filler cap properly may cause the Malfunction Indicator Light (MIL) to illuminate. If the light illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected. It is recommended that you visit a NISSAN dealer for this service.
- The LOOSE FUEL CAP warning message will be displayed/warning will appear if the fuel-filler cap is not properly tightened. It may take a few driving trips for the message to be displayed. Failure to tighten the fuel-filler cap properly after the LOOSE FUEL CAP warning message is displayed/warning appears may cause the Malfunction Indicator Light (MIL) to illuminate.
- For additional information, refer to the “Malfunction Indicator Light (MIL)” in the “Instruments and controls” section of this manual.

- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**

For additional information, refer to “Fuel Recommendation” in the “Technical and consumer information” section of this manual.

STEERING WHEEL



LPD0355

TILT OPERATION

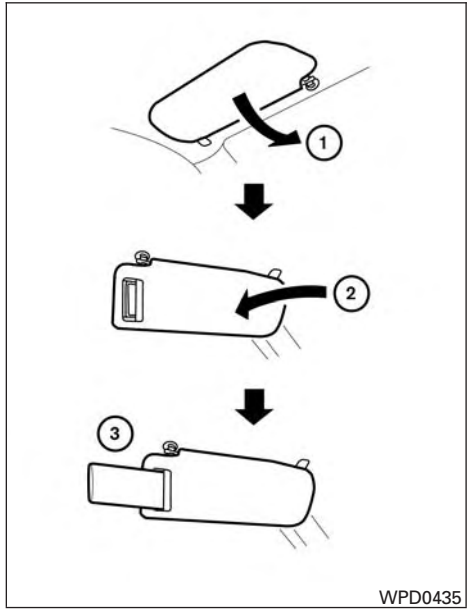
Pull the lock lever down ① and adjust the steering wheel up or down ② to the desired position.

Push the lock lever up ① to lock the steering wheel in place.

⚠ WARNING

Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.

SUN VISORS



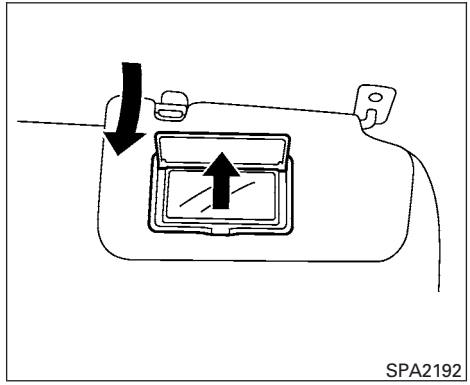
WPD0435

1. To block glare from the front, swing down the main sun visor ①.
2. To block glare from the side, remove the sun visor from the center mount and swing the sun visor to the side ②.

3. Slide ③ the extension sun visor (if so equipped) in or out as needed.

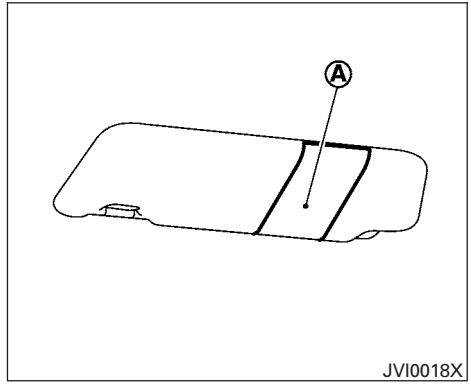
⚠ CAUTION

Do not store the sun visor before returning the extension to its original position.


SPA2192

VANITY MIRRORS (if so equipped)

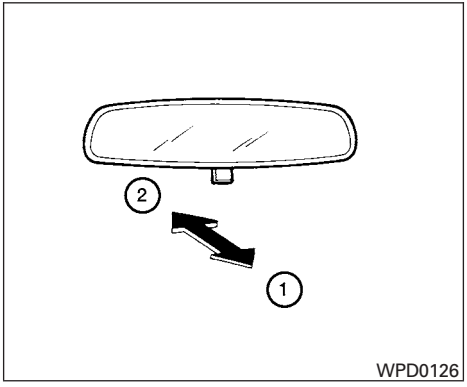
To access the vanity mirror, pull the sun visor down and flip open the mirror cover.



JVI0018X

CARD HOLDER (driver's side only)(if so equipped)

To access the card holder, pull the sun visor down and slide card in the card holder Ⓐ. Do not view information while operating the vehicle.



REARVIEW MIRROR

The night position ① reduces glare from the headlights of vehicles behind you at night.

Use the day position ② when driving in daylight hours.

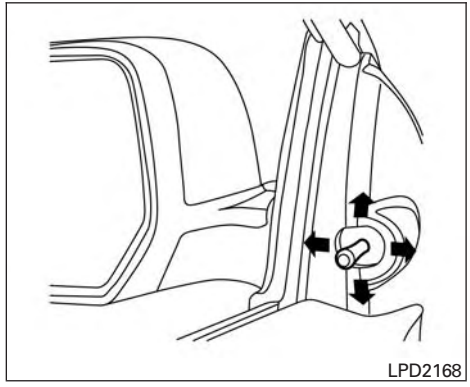
⚠ WARNING

Use the night position only when necessary, because it reduces rear view clarity.

OUTSIDE MIRRORS

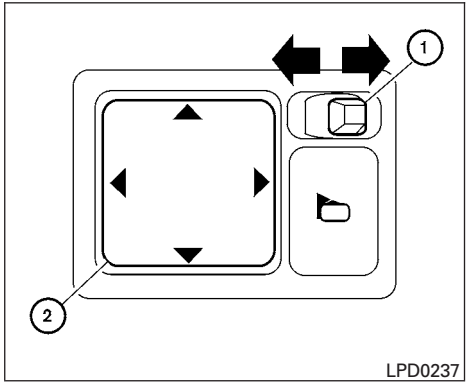
⚠ WARNING

- **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.**
- **Do not adjust the mirrors while driving. You could lose control of your vehicle and cause an accident.**



Manual control type (if so equipped)

The outside mirror can be moved in any direction for a better rear view by adjusting the inside lever.



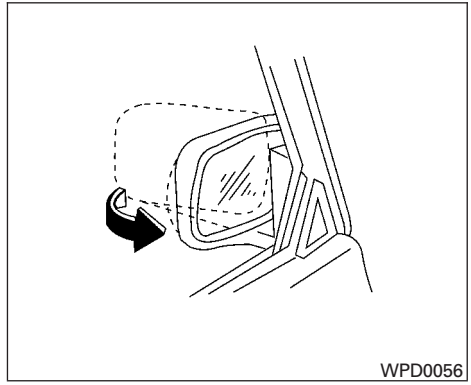
Electric control type (if so equipped)

The outside mirror remote control will operate only when the ignition switch is in the ACC or ON position.

Move the small switch ① to select the right or left mirror. Adjust each mirror to the desired position using the large switch ②.

⚠WARNING

- **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.**
- **Do not adjust the mirrors while driving. You could lose control of your vehicle and cause an accident.**



Manual folding outside mirrors

Pull the outside mirror toward the door to fold it.

Heated mirrors (if so equipped)

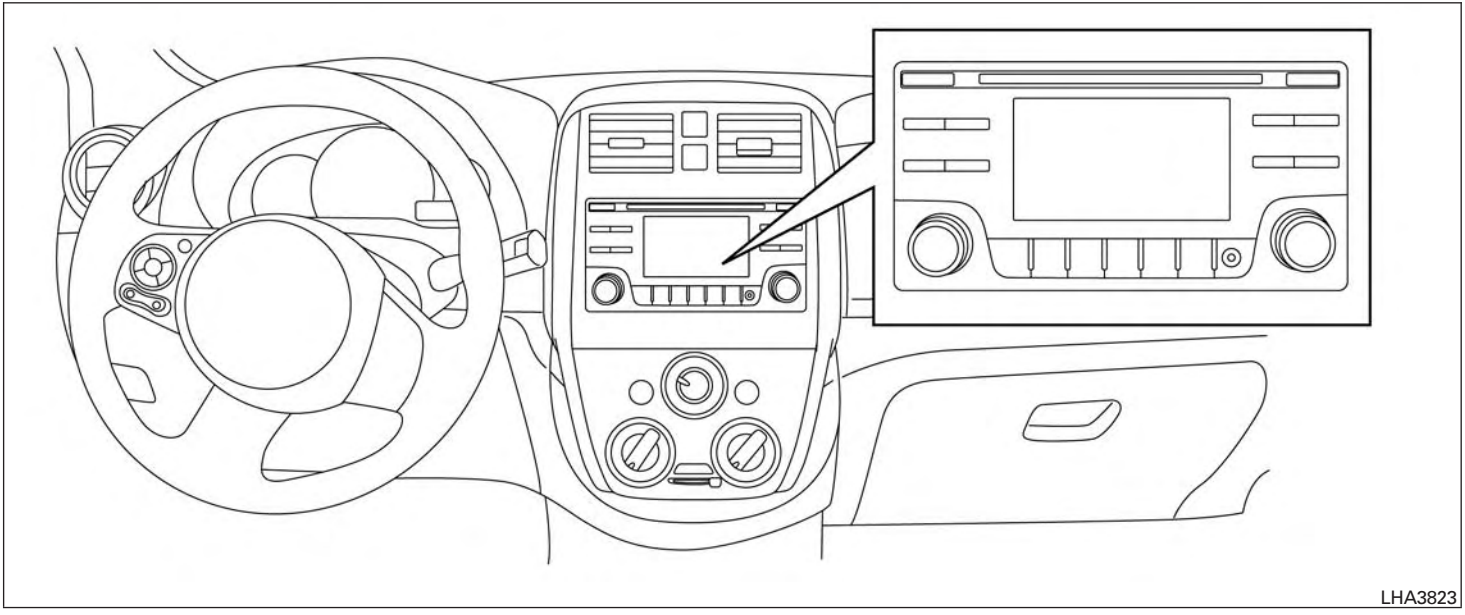
The outside mirrors can be heated to defrost, defog, or de-ice for improved visibility. For additional information, refer to “Rear window and outside mirror (if so equipped) defroster switch” in the “Instruments and controls” section of this manual.

MEMO

4 Heater, air conditioner, audio and phone systems

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REARVIEW MONITOR (if so equipped)



LHA3823

⚠WARNING

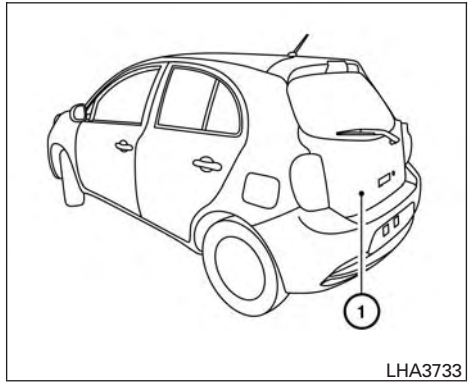
- **Failure to follow the warnings and instructions for proper use of the RearView Monitor system could result in serious injury or death.**
- **RearView Monitor is a convenience feature and is not a substitute for proper backing. Always turn and look out the windows and check mirrors to be sure that 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 line and the vehicle width line 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.

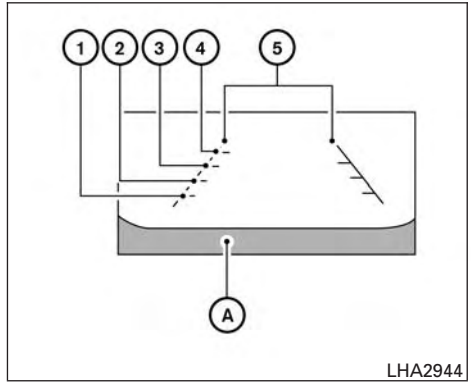


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To display the rear view, the RearView Monitor system uses a camera located just above the vehicle's license plate ①.

REARVIEW MONITOR SYSTEM OPERATION

With the ignition switch in the ON position, move the shift lever to the R (Reverse) position or press the CAMERA button to operate the RearView Monitor.



LHA2944

HOW TO READ THE DISPLAYED LINES

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.

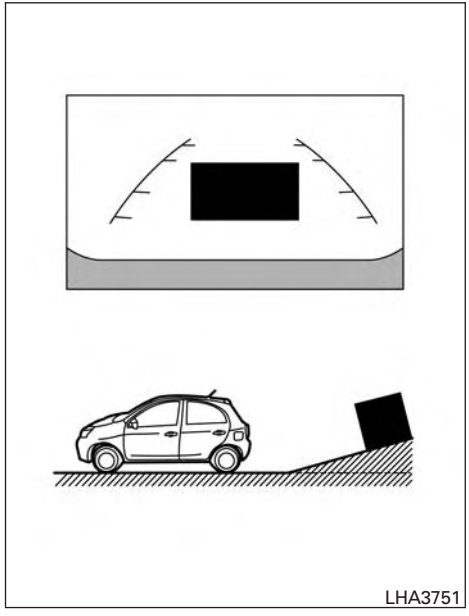
- Red line ①: approx. 0.5 m (1.5 ft)
- Yellow line ②: approx. 1 m (3 ft)
- Green line ③: approx. 2 m (7 ft)
- Green line ④: approx. 3 m (10 ft)

Vehicle width guide lines⑤:

Indicate the vehicle width when backing up.

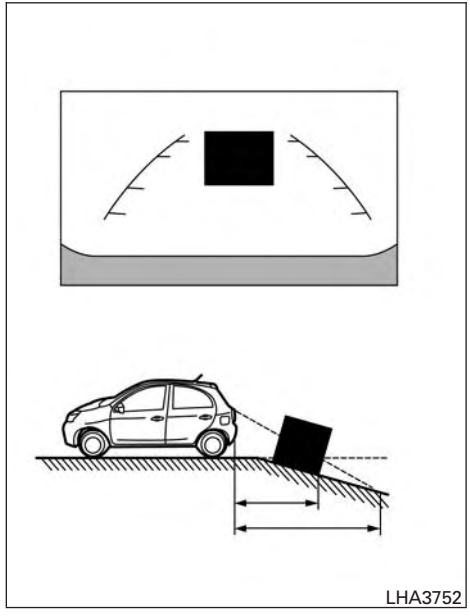
DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES

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.



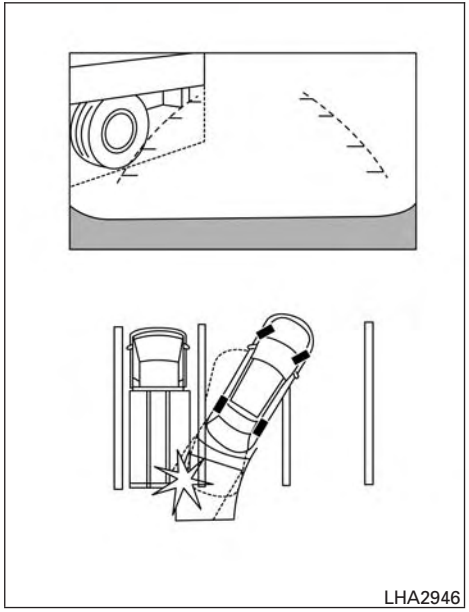
Backing up on a steep uphill

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.



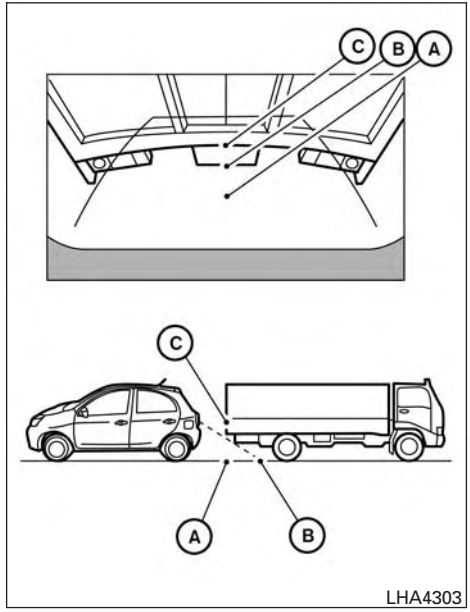
Backing up on a steep downhill

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.



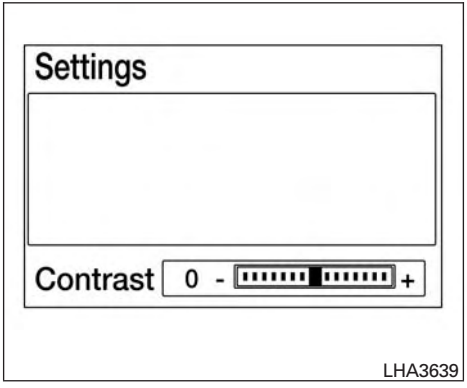
Backing up near a projecting object

The vehicle may seem to nearly clear 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.



ADJUSTING THE SCREEN

The procedure for adjusting the display settings of the screen differs depending on the type of screen present on the vehicle.

1. Firmly apply the brake and place the shift lever in R (reverse).
2. Press the ENTER/SETTING button.
3. The screen will display the Brightness settings.
4. Turn the TUNE/FOLDER knob to adjust the setting up or down.
5. Press the ENTER/SETTING button again to display the Contrast settings.
6. Turn the TUNE/FOLDER knob to adjust the setting up or down.
7. Press the ENTER/SETTING button to complete the adjustment.

NOTE:

Do not adjust any of the display settings of the RearView Monitor while the vehicle is moving. Make sure the parking brake is firmly applied.

REARVIEW MONITOR SYSTEM LIMITATIONS

⚠WARNING

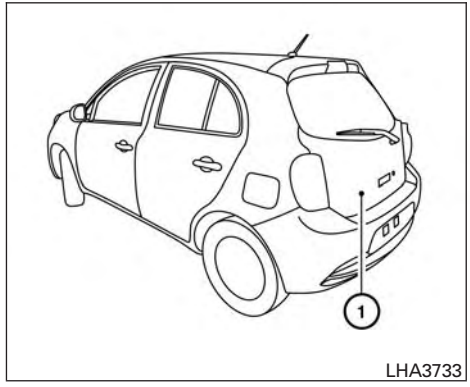
Listed below are the system limitations for RearView Monitor. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **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 rear hatch 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, 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.



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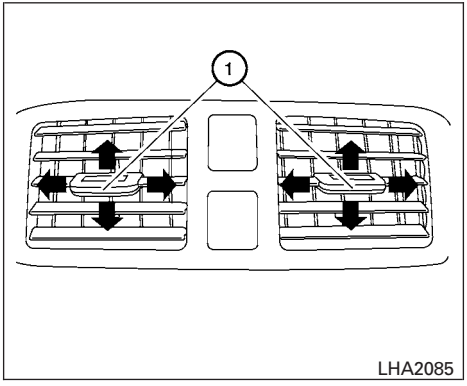
SYSTEM MAINTENANCE

⚠ 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.**

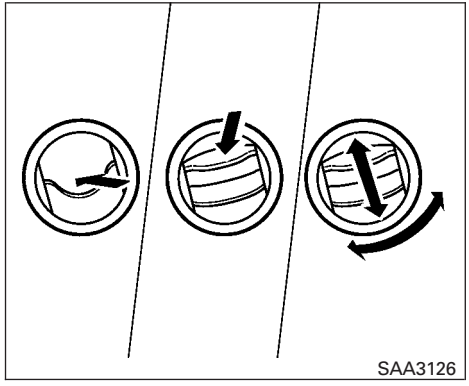
If dirt, rain or snow accumulates on the camera ①, the RearView Monitor may not display objects clearly. Clean the camera by wiping it with a cloth dampened with a diluted mild cleaning agent and then wiping it with a dry cloth.

VENTS



Center vents

Adjust the air flow direction of the vents by moving the vent slides①.



Side vents

Adjust the air flow direction of the vents by opening, closing or rotating.

HEATER AND AIR CONDITIONER (manual) (Type A) (if so equipped)

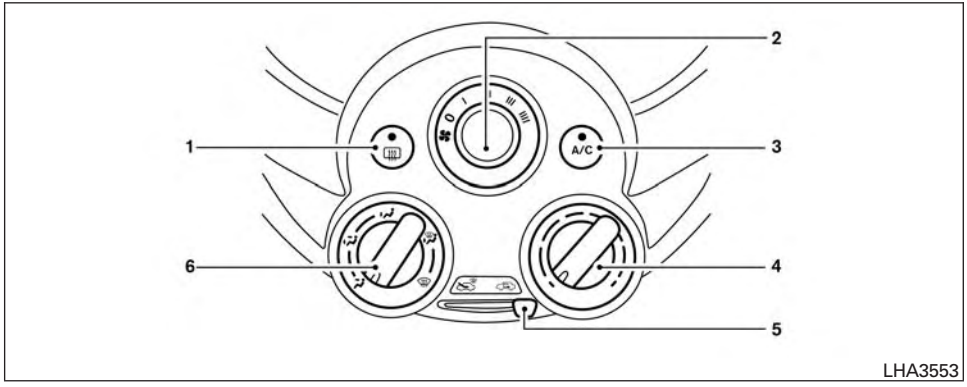
⚠WARNING

- **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 (if so equipped) controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.



1. Rear window defroster switch
2. Fan control dial
3. A/C (air conditioner) button (if so equipped)
4. Temperature control dial
5. Air intake lever (Outside air circulation/ Air recirculation)
6. Air flow control dial

CONTROLS

Fan control dial

The fan 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 the front and rear floor outlets.
- — Air flows mainly from the front and rear floor outlets.

— Air flows from defroster outlets and the front and rear floor 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.

Fresh air

Move the air intake lever to the position. The air flow is drawn from outside the vehicle.

Air recirculation

Move the air intake lever to the position to recirculate air inside the vehicle.

Use the selection:

- when driving on a dusty road.
- to prevent traffic fumes from entering passenger compartment.
- for maximum cooling when using the air conditioner.

A/C Air conditioner button (if so equipped)

Start the engine, turn the fan control dial to the desired position and press the A/C button to turn on the air conditioner. The indicator light comes on when the air conditioner is operating. To turn off the air conditioner, press the A/C button again.

Rear window and outside mirror (if so equipped) defroster switch

For additional information, refer to “Rear window and outside mirror (if so equipped) defroster switch” in the “Instruments and controls” section of this manual.

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets.

1. Move the air intake lever to the position for normal heating.
2. Turn the air flow control dial to the position.
3. Turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.

4. Turn the temperature control dial to the desired position between the middle and the hot position.
5. Align left and right vents to direct air flow toward the front side windows.

- To quickly remove ice or fog from the windows, turn the fan control dial to the maximum position and the temperature control dial to the full hot position.

When the or position is selected, press the A/C button to turn on the air conditioner for better performance. This will dehumidify the air and help defog the windows.

Bi-level heating

This mode directs cooler air from the side and center vents and warmer air from the floor outlets. When the temperature control dial is moved to the full hot or full cool position, the air between the vents and the floor outlets is the same temperature.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Heating and defogging

This mode heats the cabin and defogs the windshield.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

When the or position is selected, press the A/C button to turn on the air conditioner for better performance. This will dehumidify the air and help defog the windows.

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 (if so equipped)

Start the engine, turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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, move the air intake lever to the position. Be sure to return to the position for normal cooling.

Dehumidified heating

This mode is used to heat and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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.

Dehumidified defogging

This mode is used to defog the windows and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

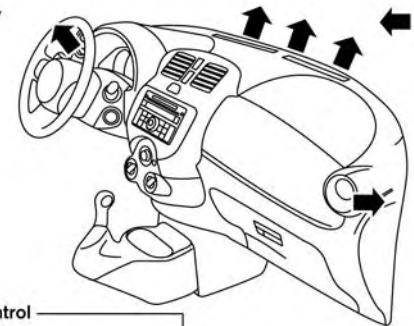
Operating tips

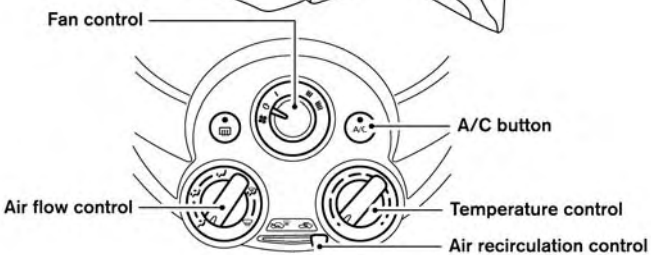
- Keep the windows and moonroof closed while the air conditioner is in operation.
- After parking in the sun, drive for 2 or 3 minutes with the windows open to vent hot air from the passenger compartment. Then close the windows. This allows the air conditioner to cool the interior more quickly.
- **The air conditioning system should be operated for approximately 10 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 engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. For additional information, refer to “If your vehicle overheats” in the “In case of emergency” section of this manual.**

AIR FLOW CHARTS

The following charts show the button and dial positions for **MAXIMUM AND QUICK** heating, cooling or defrosting. **The air intake lever should always be in the position for heating and defrosting.**

DEFROSTING/ DEFOGGING

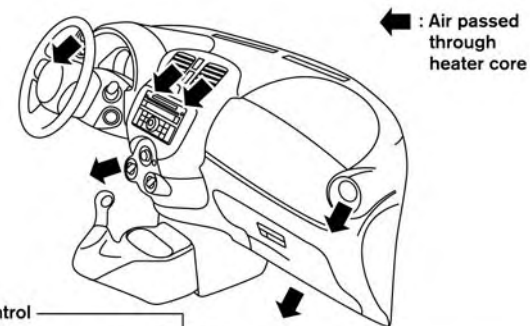


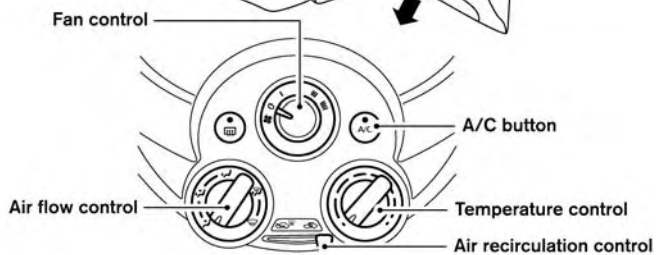


Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		ON	HOT (RIGHT)	

LHA2642

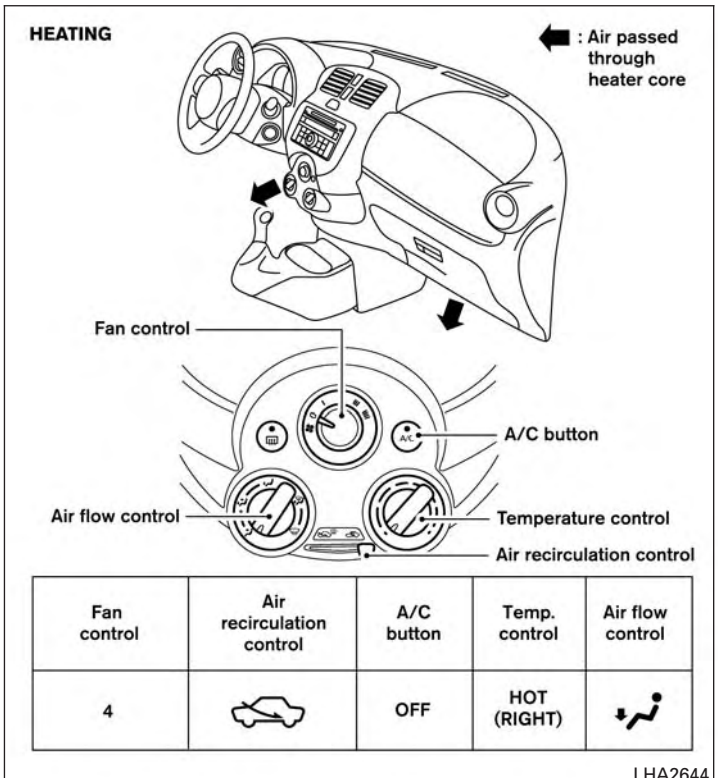
BI-LEVEL HEATING





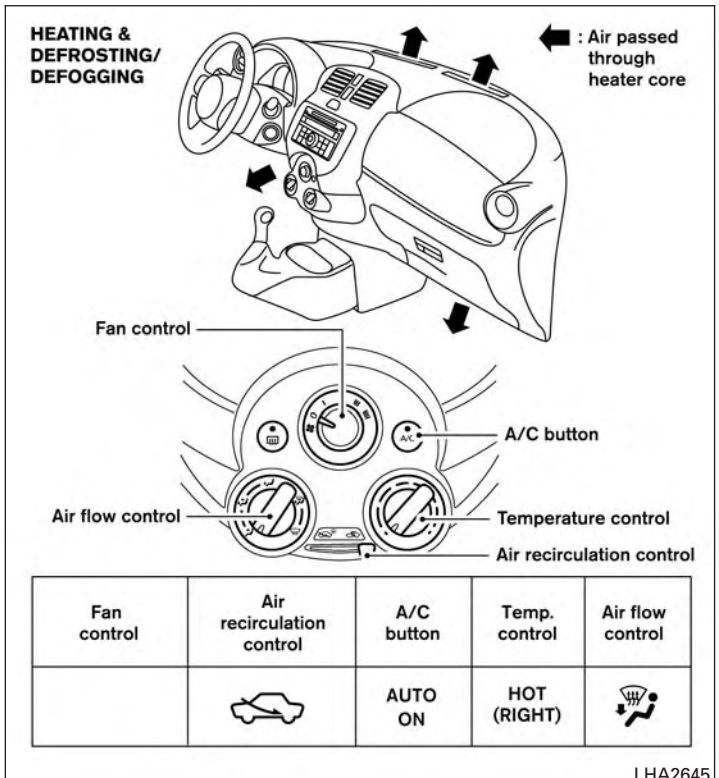
Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		OFF	HOT (RIGHT)	

LHA2643



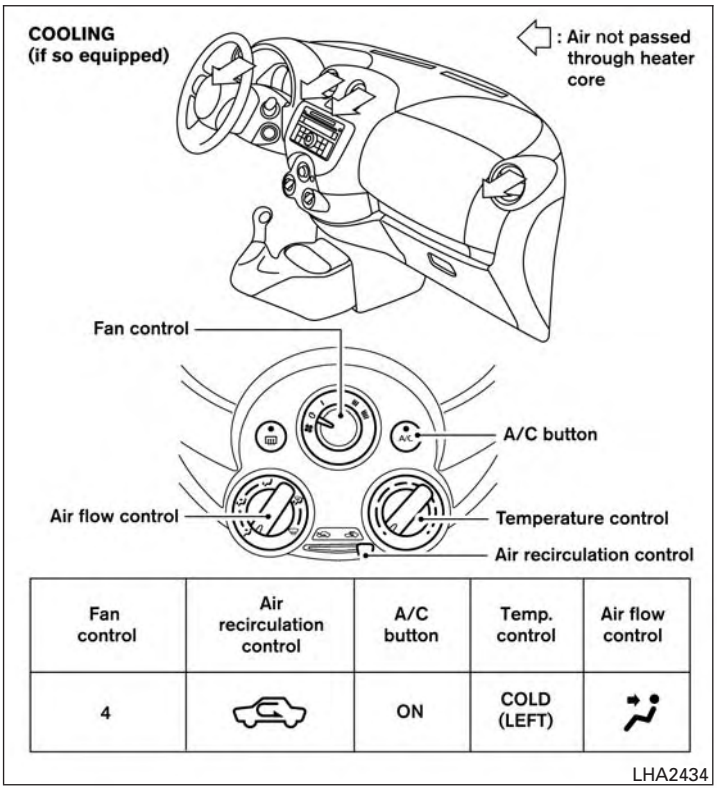
Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		OFF	HOT (RIGHT)	

LHA2644



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
		AUTO ON	HOT (RIGHT)	

LHA2645



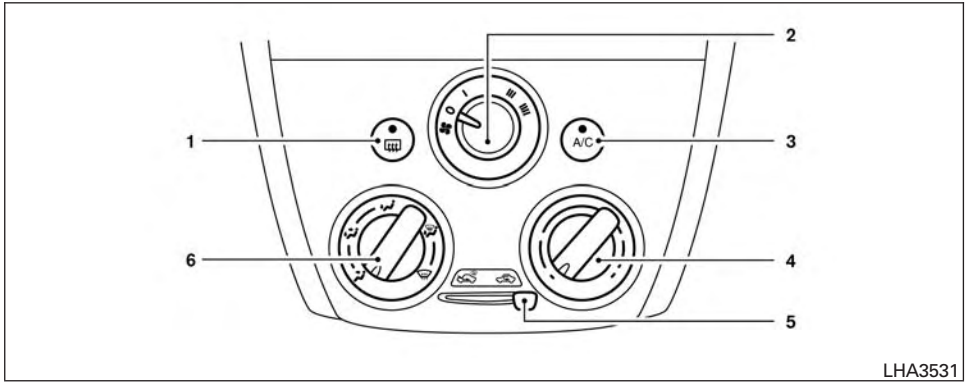
Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		ON	COLD (LEFT)	

⚠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

1. Rear window and outside mirror (if so equipped) defroster switch
2. Fan speed control dial
3. A/C (air conditioner) button
4. Temperature control dial
5. Air intake lever (Air recirculation and Fresh air)
6. Air flow control dial

Fan control dial

The fan 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 foot outlets.
- — Air flows from defroster outlets and 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.

Fresh air

Move the air intake lever to the position. The air flow is drawn from outside the vehicle.

Air recirculation

Move the air intake lever to the position to recirculate air inside the vehicle.

Use the selection:

- when driving on a dusty road.
- to prevent traffic fumes from entering passenger compartment.
- for maximum cooling when using the air conditioner.

A/C Air conditioner button

Start the engine, turn the fan control dial to the desired position and press the A/C button to turn on the air conditioner. The indicator light

comes on when the air conditioner is operating. 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, refer to “Rear window and outside mirror (if so equipped) defroster switch” in the “Instruments and controls” section of this manual.

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets.

1. Move the air intake lever to the position for normal heating.
2. Turn the air flow control dial to the position.
3. Turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. 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 control dial to the maximum position and the temperature control dial to the full hot position.

When the or position is selected, press the A/C button to turn on the air conditioner for better performance. This will dehumidify the air and help defog the windows.

Bi-level heating

This mode directs cooler air from the side and center vents and warmer air from the floor outlets. When the temperature control dial is moved to the full hot or full cool position, the air between the vents and the floor outlets is the same temperature.

1. Move the air intake lever to position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

When the or position is selected, press the A/C button to turn on the air conditioner for better performance. This will dehumidify the air and help defog the windows.

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

Start the engine, turn the fan 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. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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, move the air intake lever to the position. Be sure to return to the position for normal cooling.

Dehumidified heating

This mode is used to heat and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan 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.

Dehumidified defogging

This mode is used to defog the windows and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

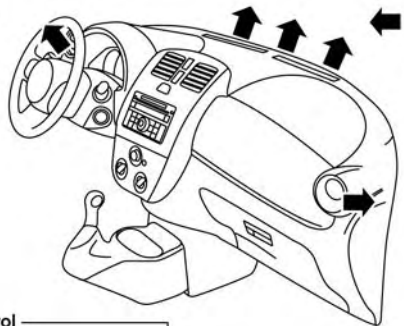
Operating tips

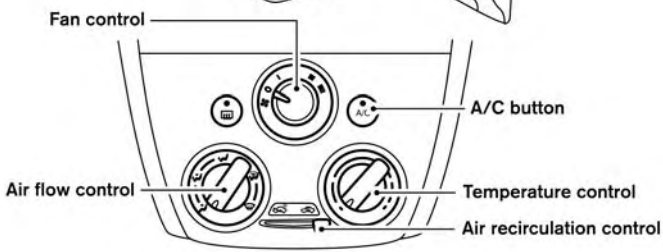
- Keep the windows closed while the air conditioner is in operation.
- After parking in the sun, drive for 2 or 3 minutes with the windows open to vent hot air from the passenger compartment. Then, close the windows. This allows the air conditioner to cool the interior more quickly.
- **The air conditioning system should be operated for approximately 10 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 engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. For additional information, refer to “If your vehicle overheats” in the “In case of emergency” section of this manual.**

AIR FLOW CHARTS

The following charts show the button and dial positions for **MAXIMUM AND QUICK** heating, cooling or defrosting. **The air intake lever should always be in the**  **position for heating and defrosting.**

DEFROSTING/ DEFOGGING

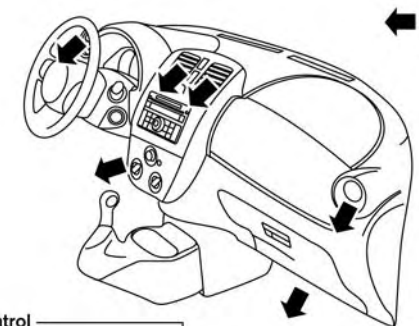




Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		ON	HOT (RIGHT)	

LHA3039

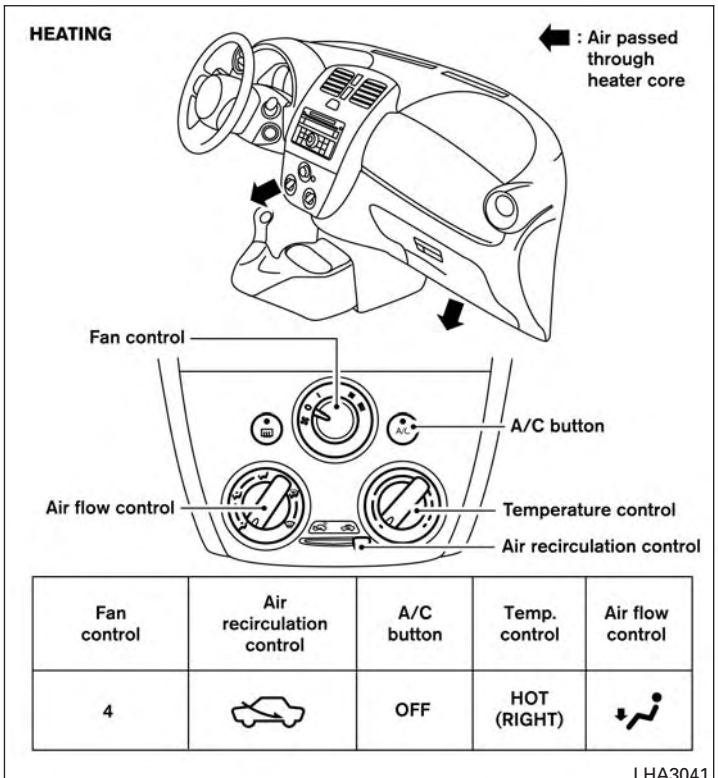
BI-LEVEL HEATING



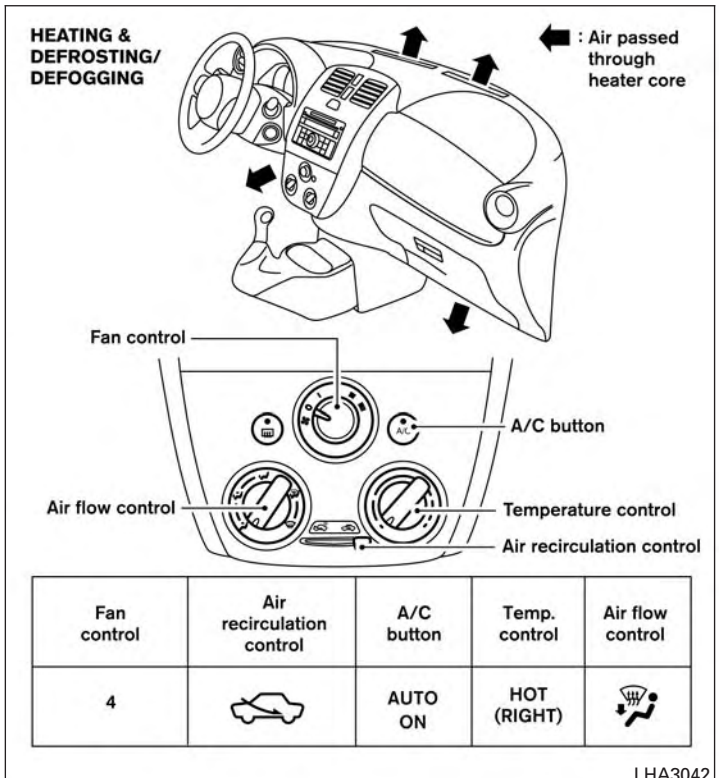


Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		OFF	HOT (RIGHT)	

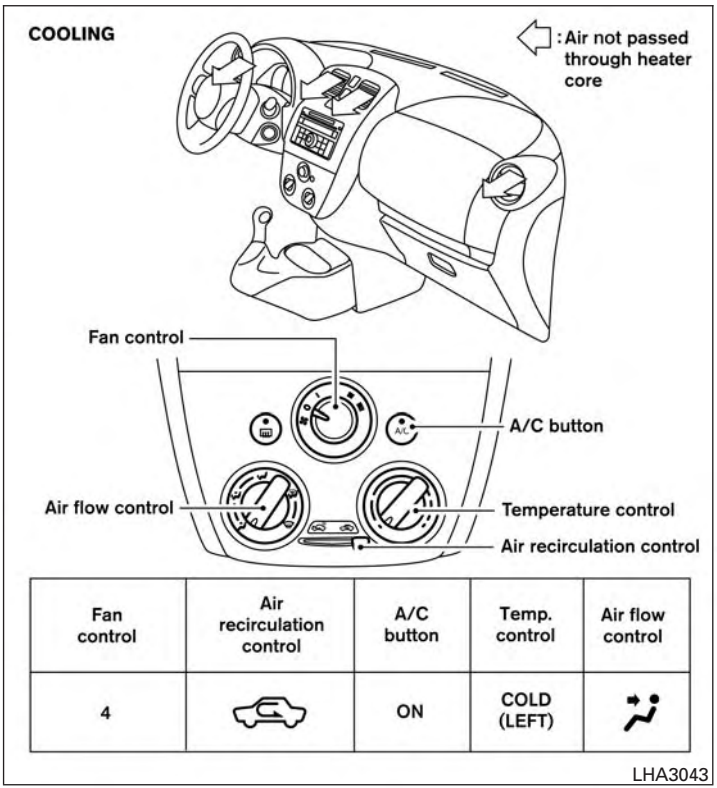
LHA3040



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		OFF	HOT (RIGHT)	



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		AUTO ON	HOT (RIGHT)	



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		ON	COLD (LEFT)	

SERVICING AIR CONDITIONER (if so equipped)

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, refer to "Air conditioner system (if so equipped) refrigerant and oil recommendations" in the "Technical and consumer information" section of this manual.

It is recommended that you visit a NISSAN dealer to service your "environmentally friendly" air conditioning system.

⚠WARNING

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by a NISSAN dealer.

AUDIO SYSTEM

RADIO

Place the ignition switch in the ACC or ON position and press the ⏻ (power) button / PWR (button) to turn the radio on. If you listen to the radio with the engine not running, the ignition switch should be placed in the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

Using a cellular phone in or near the vehicle may influence radio reception quality.

Radio reception

Your NISSAN radio system is equipped with state-of-the-art electronic circuits to enhance radio reception. These circuits are designed to extend reception range and to enhance the quality of that reception.

However, there are some general characteristics of both FM and AM radio signals that can affect radio reception quality in a moving vehicle, even when the finest equipment is used. These characteristics are completely normal in a given reception area and do not indicate any malfunction in your NISSAN radio system.

Reception conditions will constantly change because of vehicle movement. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.

Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.

FM RADIO RECEPTION

Range: FM range is normally limited to 40 – 48 km (25 – 30 mi) with monaural (single channel) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 40 km (25 mi). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example, they will reflect off objects.

Fade and drift: As your vehicle moves away from a station transmitter, the signals will tend to fade and/or drift.

Static and flutter: During signal interference from buildings, large hills or due to antenna position (usually in conjunction with increased distance from the station transmitter), static or flutter can be heard. This can be reduced by adjusting the treble control to reduce treble response.

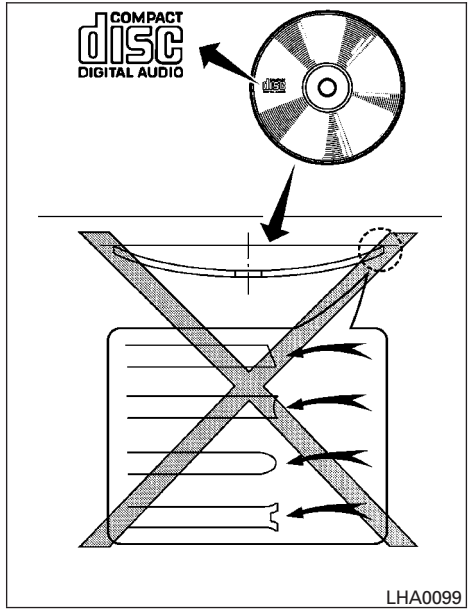
Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

AM RADIO RECEPTION

AM signals, because of their low frequency, can bend around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics, AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obstacles exist.

Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.



AUDIO OPERATION PRECAUTIONS

Compact disc (CD) player

⚠ CAUTION

- **Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD changer/player.**
- **Trying to load a CD with the CD door closed could damage the CD and/or CD changer.**
- **Only one CD can be loaded into the CD player at a time.**

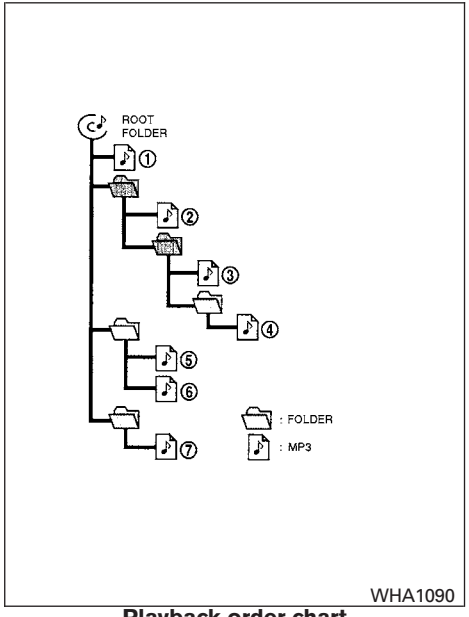
- **Only use high quality 12 cm (4.7 in) round discs that have the “COMPACT disc DIGITAL AUDIO” logo on the disc or packaging.**
- **During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.**
- **The player may skip while driving on rough roads.**
- **The CD player sometimes cannot function when the compartment temperature is extremely high. Decrease the temperature before use.**

- **Do not expose the CD to direct sunlight.**
- **CDs that are in poor condition or are dirty, scratched or covered with fingerprints may not work properly.**
- **The following CDs may not work properly:**
  - **Copy control compact discs (CCCD)**
  - **Recordable compact discs (CD-R)**
  - **Rewritable compact discs (CD-RW)**
- **Do not use the following CDs as they may cause the CD player to malfunction:**
  - **8 cm (3.1 in) discs with an adapter**
  - **CDs that are not round**
  - **CDs with a paper label**
  - **CDs that are warped, scratched, or have abnormal edges**

Compact disc with MP3

Terms

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well-known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD-ROM can reduce the file size by approximately a 10:1 ratio with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear does not hear.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music file. The size and quality of a compressed digital audio file are determined by the bit rate used when encoding the file.
- Sampling frequency — Sampling frequency is the rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- ID3 tag — The ID3 tag is the part of the encoded MP3 file that contains information about the digital music file such as song title, artist, album title, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Album/Artist/Track title line on the display.



Playback order chart

Playback order

Playback order of the CD with compressed files (MP3) is as illustrated.

- The names of folders not containing MP3 files are not shown in the display.
- If there is a file in the top level of the disc, “ROOT” is displayed.
- The playback order is the order in which the files were written by the writing software; therefore, the files might not play in the desired order.

Specification chart

Supported media			CD, CD-R, CD-RW
Supported file systems			ISO9660 LEVEL1, ISO9660 LEVEL2, Apple ISO, Romeo, Joliet * ISO9660 Level 3 (packet writing) is not supported.
Supported versions*	MP3	Version	MPEG1, MPEG2, MPEG2.5
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	8 kbps - 320 kbps, VBR
Tag information			ID3 tag VER1.0, VER1.1, VER2.2, VER2.3 (MP3 only)
Folder levels			Folder levels: 8, Max folders: 255 (including root folder), Files: 512
Text character number limitation			31 characters
Displayable character codes			01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian)

*Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.

Troubleshooting guide

Symptom	Cause and Countermeasure
Cannot play	Check if the disc was inserted correctly.
	Check if the disc is scratched or dirty.
	Check if there is condensation inside the player. If there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the CD player will play correctly after it returns to the normal temperature.
	Files with extensions other than ".MP3", ".mp3" or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
Poor sound quality	Check if the disc is scratched or dirty.
	Bit rate may be too low.
It takes a relatively long time before the music starts playing.	If there are many folders or file levels on the MP3 disc or if it is a multi disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Moves immediately to the next song when playing	When a non-MP3 file has been given an extension of ".MP3" or ".mp3" or when play is prohibited by copyright protection, there will be approximately 5 seconds of no sound and then the player will skip to the next song.
Songs do not play back in the desired order	The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

USB (Universal Serial Bus) Connection Port (if so equipped)

⚠ 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.

⚠ CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

The vehicle is not equipped with a USB device. USB devices should be purchased separately as necessary.

This system cannot be used to format USB devices. To format a USB device, use a personal computer.

In some jurisdictions, the USB device for the front seats plays only sound without images for regulatory reasons, even when the vehicle is parked.

This system supports various USB memory devices, USB hard drives and iPod® players. Some USB devices may not be supported by this system.

- Partitioned USB devices may not play correctly.
- Some characters used in other languages (Chinese, Japanese, etc.) may not appear properly in the display. Using English language characters with a USB device is recommended.

General notes for USB use:

- For additional information, refer to your device manufacturer's owner information regarding the proper use and care of the device.

Notes for iPod® use (if so equipped):

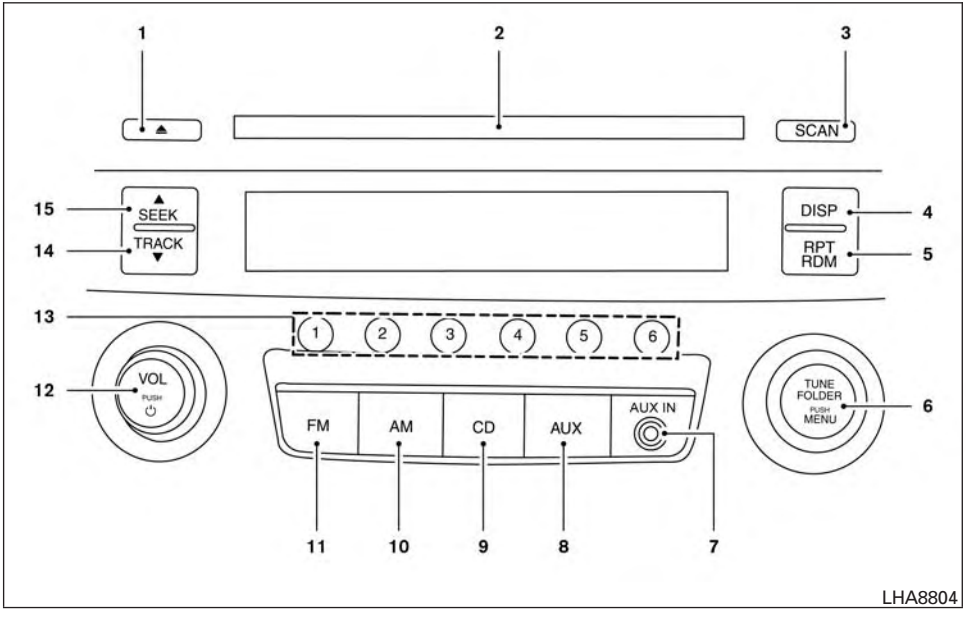
iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

- Improperly plugging in the iPod® may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod® is connected properly.
- An iPod® nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod®.
- An iPod® nano (2nd Generation) will continue to fast-forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the Play Mode is changed while using an iPod® nano (2nd Generation).
- Audiobooks may not play in the same order as they appear on an iPod®.
- Large video files cause slow responses in an iPod®. The vehicle center display may momentarily black out, but will soon recover.
- If an iPod® automatically selects large video files while in the shuffle mode, the vehicle center display may momentarily black out, but will soon recover.

iPod®* player (if so equipped)

- Some characters used in other languages (Chinese, Japanese, etc.) are not displayed properly on the vehicle center screen. We recommend using English or Spanish language characters with an iPod®.
- Large video podcast files cause slow responses in the iPod®. The vehicle center display may momentarily black out, but it will soon recover.
- If the iPod® automatically selects large video podcast files while in the shuffle mode, the vehicle center display may momentarily black out, but it will soon recover.
- Improperly plugging in the iPod® may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod® is connected properly.
- The iPod® nano (2nd Generation) will continue to fast forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the Play Mode is changed while using the iPod® nano (2nd Generation).
- Audiobooks may not play in the same order as they appear on the iPod®.
- The iPod® nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod®.
- If you are using an iPod® (3rd Generation with Dock connector), do not use very long names for the song title, album name or artist name to prevent the iPod® from resetting itself.
- Be careful not to do the following, or the cable could be damaged and a loss of function may occur:
  - Bend the cable excessively (40 mm [1.6 in] radius maximum).
  - Twist the cable excessively (more than 180 degrees).
  - Pull or drop the cable.
  - Do not force the iPod® cable connector into the device port.
  - Close the center console lid on the cable or connectors.
  - Store objects with sharp edges in the storage where the cable is stored.
  - Spill liquids on the cable and connectors.
- Do not connect the cable to the iPod® if the cable and/or connectors are wet. It may damage the iPod®.
- If the cable and connectors are exposed to water, allow the cable and/or connectors to dry completely before connecting the cable to the iPod® (wait 24 hours for it to dry).
- If the connector is exposed to fluids other than water, evaporative residue may cause a short between the connector pins. In this case, replace the cable, otherwise damage to the iPod® and a loss of function may occur.
- If the cable is damaged (insulation cut, connectors cracked, contamination such as liquids, dust, dirt, etc., in the connectors), do not use the cable and contact a NISSAN dealer to replace the cable with a new one.
- When not in use for extended periods of time, store the cable in a clean, dust-free environment at room temperature and without direct sun exposure.
- Do not use the cable for any other purposes other than its intended use in the vehicle.

*iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.



FM/AM RADIO WITH COMPACT DISC (CD) PLAYER (Type A) (if so equipped)

For additional information, refer to “Audio operation precautions” in this section.

1. ⏏ CD eject button
2. CD insert slot
3. SCAN button
4. DISP button
5. RPT/RDM button
6. TUNE/FOLDER knob / MENU button
7. AUX IN jack
8. AUX button
9. CD button
10. AM button
11. FM button
12. VOL (volume) control knob / ⏻ (power) button
13. Station select (1 - 6) buttons
14. TRACK ▼ button
15. SEEK ▲ button

Audio main operation

VOL (volume) control knob / ⏻ (power) button

Place the ignition switch in the ACC or ON position, then press the ⏻ button. If you listen to the radio with the engine not running, place the ignition in the ACC position. The mode (radio or CD) that was playing immediately before the system was turned off resumes playing.

When a CD is loaded, the radio comes on. Pressing the ⏻ button again turns the system off.

Turn the VOL (volume) control knob to the right to increase volume or to the left to decrease volume.

MENU button

Audio		
	Bass	Adjusts the bass to the desired level.
	Treble	Adjusts the treble to the desired level.
	Balance	Adjusts the balance to the desired level. Balance adjusts the sound level between the left and right speakers.
	Fade	Adjusts the fade to the desired level. Fade adjusts the sound level between the front and rear speakers.
	Speed Sensitive Vol.	Adjusts the speed sensitive volume function, which increases the volume of the audio system as the speed of the vehicle increases. Set to “OFF” to disable the feature. The higher the setting, the more the volume increases in relation to vehicle speed.
	AUX IN Vol.	Choose a setting from 0 to +3 to control the boost of incoming auxiliary device volume. A setting of 0 provides no additional boost in volume. A setting of +3 provides the greatest boost in volume.

Bass, treble, balance and fade can also be adjusted by pressing the MENU button until the desired mode appears in the display. Press the SEEK ▲ or TRACK ▼ button to adjust the setting to the desired level (-5 to +5). Once you have adjusted the sound quality to the desired level, press the MENU button repeatedly until the radio or CD display reappears, otherwise the radio or CD display will automatically reappear after about 10 seconds.

DISP (display) button

Press the DISP (display) button while a CD is playing to change the text shown in the audio display as follows:

For CDs:

Running Time → Album Title: → Artist Name: → Song Title:

For MP3 CDs:

Running Time → Folder Title: → Album Title: → Artist Name: → Song Title:

If the text information is too long to fully be displayed on the screen, press and hold the DISP (display) button for longer than 1.5 seconds to scroll through the rest of the text.

Press the DISP (display) button while the radio is playing to toggle the audio display between station number and RDS.

Clock operation

To turn the clock display on or off, press the MENU button repeatedly until “Clock” appears on the display. Turn the TUNE/FOLDER knob to toggle the setting (ON or OFF).

Clock set

1. Press the MENU button repeatedly until “Adjust Clock: NO” appears on the display.
2. Turn the TUNE/FOLDER knob to change to “Adjust Clock: YES”.
3. Press the MENU button.
4. When “Change Hour” appears, turn the TUNE/FOLDER knob to adjust hours.
5. Press the MENU button.
6. When “Change Minute” appears, turn the TUNE/FOLDER knob to adjust minutes.
7. Press the MENU button to finish.

The display will return to the regular clock display after 10 seconds if no further adjustment is performed.

FM/AM radio operation

AM and FM buttons

Press the AM button to change the band to AM.

If another audio source is playing when the AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

Press the FM button to change the band as follows:

FM1 → FM2 → FM1

If another audio source is playing when the FM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.



SEEK and TRACK (tuning) buttons

Press the SEEK button ▲ to tune from low to high frequencies and stop at the next broadcasting station.

Press the TRACK button ▼ to tune from high to low frequencies and stop at the next broadcasting station.

Press and hold either button to seek at a faster speed.

SCAN (tuning) button

Press the SCAN button. SCAN illuminates in the display window. Scan tuning begins from low to high frequencies. Scan tuning stops for 5 seconds at each broadcasting station that has sufficient signal strength. When scanning, SCAN blinks in the display. Pressing the SCAN button again during this 5 second period stops scan tuning and the radio remains tuned to that station.

1 to 6 Station memory operations

Twelve stations can be set for the FM band (six for FM1, six for FM2) and six stations can be set for the AM band.

1. Choose the radio band AM, FM1 or FM2 using the AM or FM button.

2. Tune to the desired station using manual, SEEK or SCAN tuning. Press and hold any of the desired station memory buttons (1 – 6) until a beep is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

Compact disc (CD) player operation

Place the ignition switch in the ACC or ON position, and carefully insert the compact disc into the slot with the label side up. The compact disc is automatically pulled into the slot and starts to play.

If the radio is already operating, it automatically turns off and the compact disc begins to play.

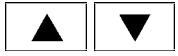
CD button

When the CD button is pressed with a compact disc loaded and the radio playing, the radio turns off and the last used compact disc starts to play.



SEEK and TRACK (Fast Forward, Rewind) buttons:

When the SEEK button ▲ or TRACK button ▼ is pressed while the compact disc is playing, the compact disc plays at an increased speed while fast forwarding or rewinding. When the button is released, the compact disc returns to normal play speed.



SEEK and TRACK buttons

When the SEEK button ▲ is pressed while the compact disc is playing, the next track following the present one starts to play from the beginning. Press the SEEK button ▲ several times to skip several tracks. Each time the button is pressed, the CD advances one additional track. The track number appears in the display window. (When the last track on the compact disc is skipped, the first track is played.)

When the TRACK button ▼ is pressed, the track being played returns to the beginning. Press the TRACK button ▼ several times to skip back several tracks. Each time the button is pressed the CD moves back one track.

RPT (repeat)/RDM (random) button

Press the RPT/RDM button while a compact disc is playing to change the play pattern as follows:

CD:

TRACK REPEAT → DISC RANDOM → DISC REPEAT

MP3/WMA CD:

FOLDER REPEAT → TRACK REPEAT → DISC RANDOM → FOLDER RANDOM → DISC REPEAT

TRACK REPEAT: The track that is currently playing will be repeated.

DISC RANDOM: The order of the tracks on the disc will be mixed during play.

DISC REPEAT: The disc currently playing will be repeated.

FOLDER REPEAT: The tracks in the current folder will be repeated.

FOLDER RANDOM: The order of the tracks in the folder will be mixed during play.

SCAN (CDs) button

Press the SCAN button for less than 1.5 seconds to scan all tracks of the current disc for 10 seconds per track. The SCAN icon is flashed during scan mode.

The scan mode is canceled once it scans through all tracks on the disc, or if the SCAN button is pressed during scan mode.

CD EJECT

When the ⏏ button is pressed with a compact disc loaded, the compact disc will be ejected.

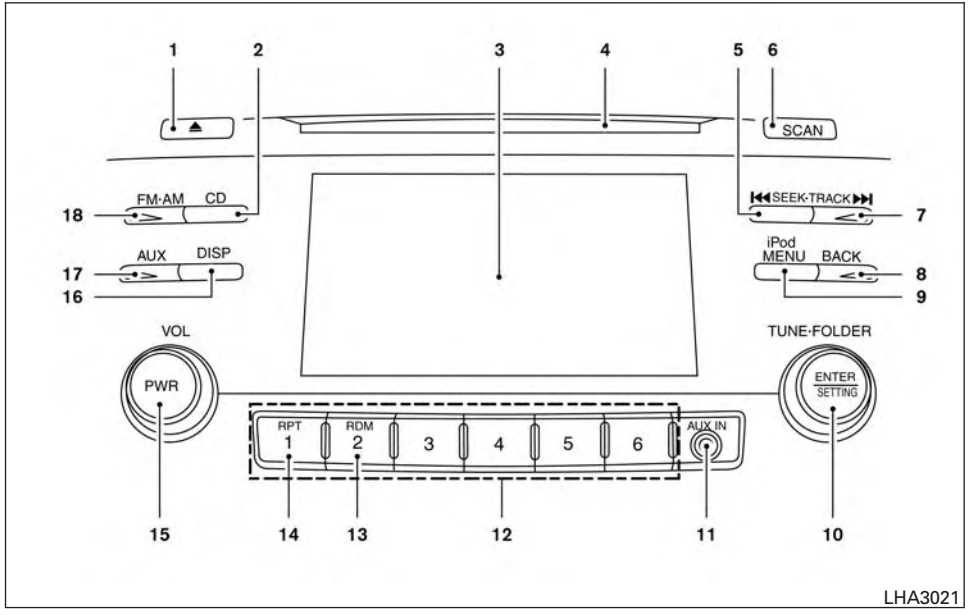
When the ⏏ button is pressed while the compact disc is playing, the compact disc will eject and the system will turn off.

AUX (Auxiliary) button

The AUX IN jack is located on the CD player. The AUX IN audio input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or laptop computers.

Press the AUX button to play a compatible device when it is plugged into the AUX IN jack.

Press the MENU button repeatedly until “AUX IN Volume” appears on the screen to control the incoming volume level of the auxiliary input device. Turn the TUNE/FOLDER knob to adjust the level between 0 and +3.



FM/AM RADIO WITH COMPACT DISC (CD) PLAYER (Type B) (if so equipped)

For additional information, refer to “Audio operation precautions” in this section.

1. ⏏ CD eject button
2. CD button
3. Display screen
4. CD insert slot

5. ⏮ SEEK button
6. SCAN button
7. ⏭ TRACK button
8. BACK button
9. iPod MENU button
10. TUNE/FOLDER knob, ENTER/SETTING button
11. AUX IN jack
12. Station select (1 - 6) buttons
13. RDM button
14. RPT button
15. VOL (volume) control knob / PWR (power) button
16. DISP button
17. AUX button
18. FM▪AM button

Audio main operation

VOL (volume) control knob / PWR (power) button

Place the ignition switch in the ACC or ON position and press the PWR (power) button while the system is off to call up the mode that was playing immediately before the system was turned off.

To turn the system off, press the PWR button.

Turn the VOL (volume) control knob to adjust the volume.

ENTER/SETTING button

Press the ENTER/SETTING button to show the Settings screen on the display. Turn the TUNE/FOLDER knob to navigate the options and then press the ENTER/SETTING button to make a selection.

Audio		
	Bass	Adjusts the bass to the desired level.
	Treble	Adjusts the treble to the desired level.
	Balance	Adjusts the balance to the desired level. Balance adjusts the sound level between the left and right speakers.
	Fade	Adjusts the fade to the desired level. Fade adjusts the sound level between the front and rear speakers.
	Speed Sens Vol. (Speed Sensitive Volume)	Adjusts the speed sensitive volume function, which increases the volume of the audio system as the speed of the vehicle increases. Set to “OFF” to disable the feature. The higher the setting, the more the volume increases in relation to vehicle speed.
	AUX Vol.	Choose a setting from 0 to +3 to control the boost of incoming auxiliary device volume. A setting of 0 provides no additional boost in volume. A setting of +3 provides the greatest boost in volume.
	Brightness and Contrast	Adjust the brightness or contrast to adjust the appearance of the display screen.
	Clock adjust	Press the ENTER/SETTING button to highlight the hours or minutes and then use the TUNE/FOLDER knob to adjust the value. Press the ENTER/SETTING button again to set the value.
	On-Screen Clock	Toggles ON or OFF the clock display on the upper right corner of the display screen.
	RDS Display	Toggles ON or OFF the RDS information displayed on the screen while the radio is playing.
	iPod Menu Language	Select the desired language for the system from the available options.

Bass, treble, balance and fade can also be adjusted by pressing the ENTER/SETTING button and turning the TUNE/FOLDER control knob to select the item to adjust. When the desired item is shown on the display, turn the tuning to adjust and then press the ENTER/SETTING button until the display returns to the main audio screen. If the button is not pressed for approximately 10 seconds, the radio or CD display will automatically reappear.

iPod MENU button

This button can only be used for iPod® operations. For additional information, refer to “iPod® player operation” in this section.

DISP (display) button

The DISP (display) button turns the display screen on or off.

BACK button

Press the BACK button to return to the previous menu screen.

FM/AM radio operation

FM·AM button

Press the FM·AM button to change the band as follows:

AM → FM1 → FM2 → AM

If another audio source is playing when the FM·AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

TUNE/FOLDER knob (Tuning)

Turn the TUNE/FOLDER knob to the left or right for manual tuning.

SEEK tuning

Press the SEEK button ⏮ or ⏭ to tune from low to high or high to low frequencies and to stop at the next broadcasting station.

SCAN tuning

Press the SCAN button to stop at each broadcasting station for 5 seconds. SCAN will appear on the screen while the radio is scan tuning.

Pressing the button again during this 5 second period will stop SCAN tuning and the radio will remain tuned to that station. If the SCAN button is not pressed within 5 seconds, SCAN tuning moves to the next station.

1 to 6 Station memory operations

Six stations can be set for the AM band. Twelve stations can be set for the FM band (6 for FM1, 6 for FM2).

1. Choose the radio band AM, FM1 or FM2 using the FM·AM button.
2. Tune to the desired station using manual, SEEK or SCAN tuning. Press and hold any of the desired station memory buttons (1 – 6) until the preset number is updated on the display and a beep sound is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

Compact disc (CD) player operation

If the radio is already operating, it automatically turns off and the compact disc begins to play.

CD/MP3 display mode

While listening to an MP3/WMA CD, certain text may be displayed on the screen if the CD has been encoded with text information. Depending on how the MP3/WMA CD is encoded, information such as Artist, Song and Folder will be displayed.

The track number and the total number of tracks in the current folder or on the current disc are displayed on the screen as well.

SEEK/TRACK (Reverse or Fast Forward) button

Press and hold the SEEK/TRACK button ⏮ or ⏭ for 1.5 seconds while the compact disc is playing to reverse or fast forward the track being played. The compact disc plays at an increased speed while reversing or fast forwarding. When the button is released, the compact disc returns to normal play speed.

SEEK/TRACK button

Press the SEEK/TRACK button ⏮ while a CD or MP3/WMA CD is playing to return to the beginning of the current track. Press the SEEK/TRACK button ⏮ several times to skip backward several tracks.

Press the SEEK/TRACK button ⏭ while a CD or MP3/WMA CD is playing to advance one track. Press the SEEK/TRACK button ⏭ several times to skip forward several tracks. If the last track on a CD is skipped, the first track on the disc is played. If the last track in a folder of an MP3/WMA CD is skipped, the first track of the next folder is played.

TUNE/FOLDER knob, ENTER/SETTING button (MP3/WMA CD only)

If a MP3/WMA CD with multiple folders is playing, turn the TUNE/FOLDER knob to change folders. Turn the knob to the left to skip back a folder. Turn the knob to the right to skip ahead a folder.

RPT (repeat) button

When the RPT button is pressed while a compact disc is playing, the play pattern can be changed as follows:

CD:

1 Track Repeat ⟷ OFF

CD with MP3 or WMA:

1 Folder Repeat → 1 Track Repeat → OFF

1 Track Repeat: the current track will be repeated.

1 Folder Repeat: the current folder will be repeated.

OFF: No repeat play pattern is applied. The indicator on the display will turn off.

The current play pattern of the CD is displayed on the screen unless no pattern is applied.

RDM (random) button

When the RDM button is pressed while a compact disc is playing, the play pattern can be changed as follows:

CD:

1 Disc Random ⟷ OFF

CD with MP3 or WMA:

1 Disc Random → 1 Folder Random → OFF

1 Disc Random: all tracks on the disc will be played randomly.

1 Folder Random: all tracks in the current folder will be played randomly.

OFF: No random play pattern is applied. The indicator on the display will turn off.

The current play pattern of the CD is displayed on the screen unless no pattern is applied.

AUX button

The AUX IN jack is located on the CD player. The AUX IN audio input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or a laptop computer.

Press the AUX button to play a compatible device plugged into the AUX IN jack. The AUX button is also used to switch the audio system to a source plugged into the USB connection port in the center console. When a device is plugged into the AUX IN jack while another device is plugged into the USB connection port, the AUX button is used to toggle between the two functions.

For additional information about the USB connection port, refer to “USB (Universal Serial Bus) connection port” in this section.

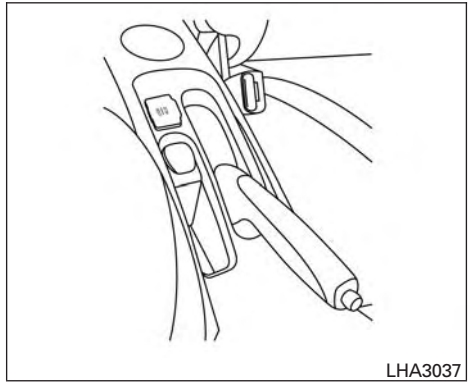
EJECT button

When the ⏏ button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

Additional features

For additional information about the iPod® player available with this system, refer to “iPod® player operation” in this section.

For additional information about the USB (Universal Serial Bus) connection port available with this system, refer to “USB (Universal Serial Bus) connection port” in this section.


LHA3037

USB (Universal Serial Bus) CONNECTION PORT (if so equipped)

Connecting a device to the USB connection port

⚠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.

⚠CAUTION

- **To avoid damage and loss of function when using a USB device, note the following precautions.**
- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

For additional information, refer to your device manufacturer’s owner information regarding the proper use and care of the device.

The USB port is located in the center console. Insert the USB device into the connection port.

When a compatible storage device is plugged into the connection port, compatible audio files on the storage device can be played through the vehicle’s audio system.

Audio file operation

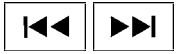
AUX button

Place the ignition switch in the ON or ACC position and press the AUX button to switch to the USB input mode.

Play information

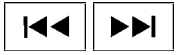
Information about the audio files being played can be displayed on the display screen of the vehicle's audio system. Depending on how the audio files are encoded, information such as Folder, Song and Artist will be displayed.

The track number and number of total tracks in the folder are displayed on the screen as well.



SEEK/TRACK (Reverse or Fast Forward) buttons

Press and hold the SEEK/TRACK buttons ⏮ or ⏭ for 1.5 seconds while an audio file on the USB device is playing to reverse or fast forward the track being played. The track plays at an increased speed while reversing or fast forwarding. When the button is released, the audio file returns to normal play speed.



SEEK/TRACK buttons

Press the SEEK/TRACK button ⏮ while an audio file on the USB device is playing to return to the beginning of the current track. Press the SEEK/TRACK button ⏮ several times to skip backward several tracks.

Press the SEEK/TRACK button ⏭ while an audio file on the USB device is playing to advance one track. Press the SEEK/TRACK button ⏭ several times to skip forward several tracks. If the last track in a folder on the USB device is skipped, the first track of the next folder is played.

RDM (random) button

When the RDM button is pressed while an audio file on the USB device is playing, the play pattern can be changed as follows:

All Random → 1 Folder Random → OFF

All Random: all tracks on the USB device will be played randomly.

1 Folder Random: all tracks in the current folder will be played randomly.

OFF: No random play pattern is applied. The indicator on the display will turn off.

The current play pattern of the USB device is displayed on the screen unless no pattern is applied.

RPT (repeat) button

When the RPT button is pressed while an audio file on the USB device is playing, the play pattern can be changed as follows:

1 Folder Repeat → 1 Track Repeat → OFF

1 Track Repeat: the current track will be repeated.

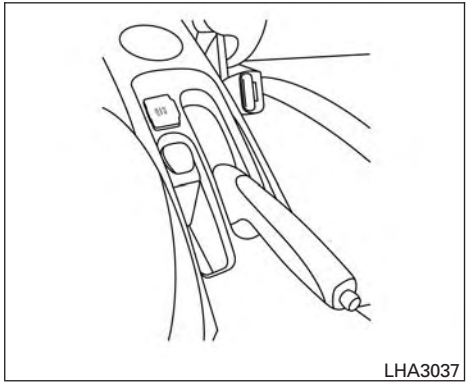
1 Folder Repeat: the current folder will be repeated.

OFF: No repeat play pattern is applied. The indicator on the display will turn off.

The current play pattern of the USB device is displayed on the screen unless no pattern is applied.

TUNE/FOLDER knob, ENTER/SETTING button

If there are multiple folders with audio files on the USB device, turn the TUNE/FOLDER knob to change folders. Turn the knob to the left to skip back a folder. Turn the knob to the right to skip ahead a folder. If there is only one folder of audio files on the USB device, turning the TUNE/FOLDER knob in either direction will return to the first track on the USB device.



LHA3037

iPod®* PLAYER OPERATION (if so equipped)

Connecting iPod®

⚠ 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.

⚠ CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

For additional information, refer to your device manufacturer's owner information regarding the proper use and care of the device.

To connect an iPod® to the vehicle so that the iPod® can be controlled with the audio system controls and display screen, use the USB port located in the center console. Connect the iPod®-specific end of the cable to the iPod® and the USB end of the cable to the USB connection port on the vehicle. If your iPod® supports charging via a USB connection, its battery will be charged while connected to the vehicle with the ignition switch in the ACC or ON position.

While connected to the vehicle, the iPod® can only be operated by the vehicle audio controls.

To disconnect the iPod® from the vehicle, remove the USB end of the cable from the USB connection port on the vehicle, then remove the cable from the iPod®.

* iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

Compatibility

The following models are compatible:

- iPod® Classic - 1st through 6th generation
- iPod® Mini - 1st and 2nd generation
- iPod® Nano - 1st through 3rd generation
- iPod® Touch - 1st generation
- iPhone® - 1st generation

Make sure that your iPod® firmware is updated to the version indicated above.

Audio main operation

iPod MENU button

Place the ignition switch in the ACC or ON position and press the iPod MENU button to switch to the iPod® mode.

If another audio source is playing and the iPod® is connected, press the iPod MENU button to switch to the iPod® mode.

If the system is turned off while the iPod® is playing, the iPod® will start when the PWR button is pressed.

Top menu item selecting

Press the iPod MENU button while the iPod® is connected to show the interface for iPod® operation on the audio display. The items can be chosen from the menu list screen by pressing the SEEK button ⏮ or ⏭ while the iPod® is operational. The display pattern can be changed as follows:
Playlists → Artists → Albums → Songs → Podcasts → Genres → Composers → Audiobooks

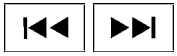
For additional information, refer to the iPod® owner's manual.

ENTER/SETTING and BACK buttons

Press the ENTER/SETTING button while the top menu is displayed to show program details on the audio display. Use the SEEK buttons ⏮ or ⏭ to scroll through the choices and press the ENTER button to make a selection. Press the BACK button to return to the previous display.

TUNE/FOLDER knob

If there are multiple folders with audio files on the iPod® device, turn the TUNE/FOLDER knob to change folders. Turn the knob to the left to skip back a folder. Turn the knob to the right to skip ahead a folder. If there is only one folder of audio files on the iPod® device, turning the TUNE/FOLDER knob in either direction will return to the first track on the iPod® device.



SEEK/TRACK buttons

When the ⏮ SEEK button or ⏭ TRACK button is pressed for less than 1.5 seconds while the iPod® is playing, the next track or the beginning of the current track on the iPod® will be played.

When the ⏮ SEEK button or ⏭ TRACK button is pressed for more than 1.5 seconds while the iPod® is playing, the iPod® will play while fast forwarding or rewinding. When the button is released, the iPod® will return to the normal play speed.

RDM/RPT button

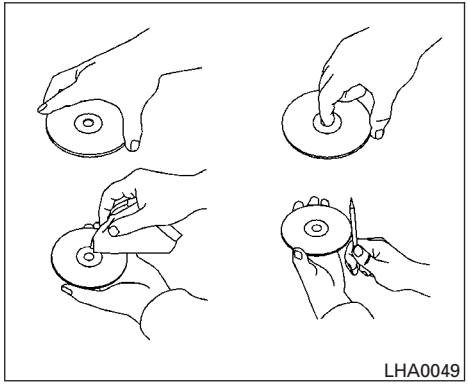
Press the RDM/RPT button while a track is playing to change the play pattern as follows:

Excluding Podcast and Audiobook:

1 TRACK REPEAT→ ALL REPEAT→ OFF

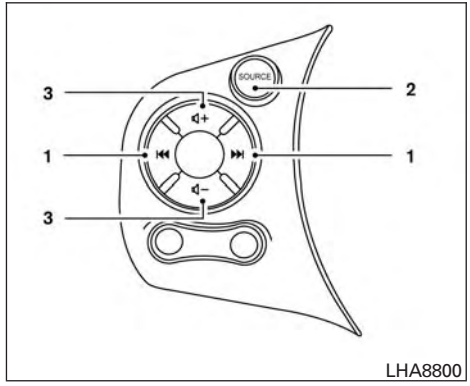
TRACK SHUFFLE→ ALBUM SHUFFLE → OFF

For additional information, refer to the iPod® owner's manual.


LHA0049

CD CARE AND CLEANING

- Handle a CD by its edges. Do not bend the disc. Never touch the surface of the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.
- Do not use a conventional record cleaner or alcohol intended for industrial use.
- A new disc may be rough on the inner and outer edges. Remove the rough edges by rubbing the inner and outer edges with the side of a pen or pencil as illustrated.



LHA8800

STEERING WHEEL SWITCH FOR AUDIO CONTROL (if so equipped)

The audio system can be operated using the controls on the steering wheel.

1. ⏮ ⏭ Tuning switch
2. SOURCE switch
3. Volume control switches

SOURCE switch

With the ignition switch placed in the ACC or ON position, push the SOURCE switch to turn the audio system on.

Push the SOURCE switch to change the mode in the following sequence: AM → FM → CD → iPod® →AUX.

If no CD is loaded or AUX and/or iPod® are not connected, the CD, AUX and or iPod® modes will be skipped.

Volume control switches

Push the volume control switch to increase or decrease the volume.

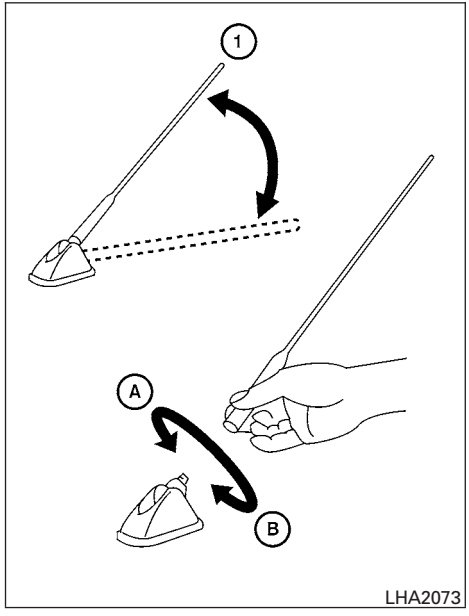
Tuning switch

Memory change (radio):
Push the tuning switch for less than 1.5 seconds to change to the next or previous radio preset.

SEEK tuning (radio):
Push the tuning switch for more than 1.5 seconds to seek the next or previous radio station.

FF, REW (CD and iPod®):
Push the tuning switch for less than 1.5 seconds to return to the beginning of the present program or skip to the next program. Push several times to skip back or skip through programs.

Folder change (CD with MP3 or WMA):
Push the tuning switch for more than 1.5 seconds to change the folders (if there are any folders).



ANTENNA

The antenna can be folded down toward the rear of the vehicle ①.

The antenna cannot be shortened but can be folded down or removed. When you need to remove the antenna, turn the antenna rod counterclockwise Ⓑ.

To install the antenna rod, turn the antenna rod clockwise Ⓐ and hand tighten.

⚠ CAUTION

- **Always properly tighten the antenna rod during installation or the antenna rod may break during vehicle operation.**
- **Be sure that the antenna is removed before the vehicle enters an automatic car wash.**
- **Be sure to fold down the antenna before the vehicle enters a garage with a low ceiling.**

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 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 20 cm (8 in) 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.**

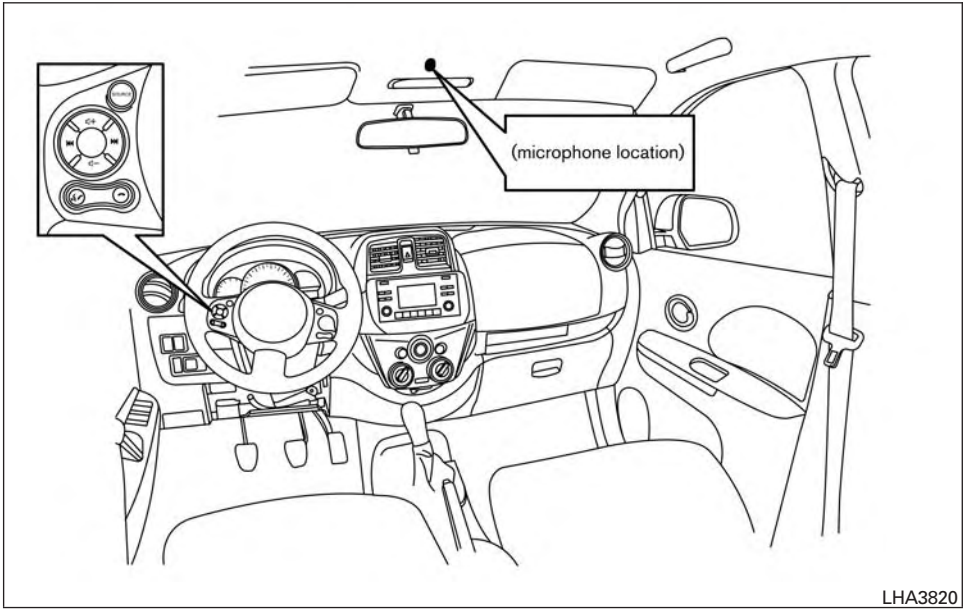
BLUETOOTH® HANDS-FREE PHONE SYSTEM (if so equipped)

⚠ WARNING

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, 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

To avoid discharging the vehicle battery, use a phone after starting the engine.



LHA3820

Your NISSAN is equipped with the Bluetooth® Hands-Free Phone System. If you have a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a hands-free telephone call with your cellular phone in the vehicle.

Once your cellular phone is connected to the in-vehicle phone module, no other phone connecting procedure is required. Your phone is automatically connected with the in-vehicle phone module when the ignition switch is placed in the ON position with the previously connected cellular phone turned on and carried in the vehicle.

You can connect up to five different Bluetooth® cellular phones to the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Set up the wireless connection between a compatible cellular phone and the in-vehicle phone module before using the hands-free phone system.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module.
- You will not be able to use a hands-free phone under the following conditions:
  - Your vehicle is outside of the cellular service area.
  - Your vehicle is in an area where it is difficult to receive a cellular signal; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area.

– Your cellular phone is locked to prevent it from being dialed.

- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.nissan.ca/bluetooth for a recommended phone list and connecting.
- For additional information, refer to the cellular phone Owner's Manual regarding the telephone charges, cellular phone antenna and body, etc.

REGULATORY INFORMATION

FCC Regulatory information

– CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

– 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.

IC Regulatory information

– 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.

– This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Bluetooth®

BLUETOOTH® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon.

USING THE SYSTEM

The system allows hands-free operation of the Bluetooth® Phone System.

If the vehicle is in motion, some commands may not be available so full attention may be given to vehicle operation.

Initialization

When the ignition switch is placed in the ON position, NISSAN Voice Recognition is initialized, which takes a few seconds. If the button is pressed before the initialization completes, the system will announce "Hands-free phone system not ready" and will not react to voice commands.

Giving voice commands

To operate NISSAN Voice Recognition, press and release the button located on the steering wheel. After the tone sounds, speak a command.

The command given is picked up by the microphone, and voice feedback is given when the command is accepted.

- If you need to hear the available commands for the current menu again, say “Help” and the system will repeat them.
- If a command is not recognized, the system announces, “Command not recognized. Please try again.” Make sure the command is said exactly as prompted by the system and repeat the command in a clear voice.
- If you want to go back to the previous command, you can say “Go back” or “Correction” any time the system is waiting for a response.
- You can cancel a command when the system is waiting for a response by saying, “Cancel” or “Quit.” The system announces “Cancel” and ends the Voice Recognition session. You can also press and hold the button on the steering wheel for 5 seconds at any time to end the Voice Recognition session. Whenever the Voice Recognition session is canceled, a double beep is played to indicate you have exited the system.
- If you want to adjust the volume of the voice feedback, push the volume control switches (+ or -) on the steering wheel while being provided with feedback. You can also use the radio volume control knob.

Voice Prompt Interrupt

In most cases you can interrupt the voice feedback to speak the next command by pressing the button on the steering wheel. After interrupting the system, wait for a beep before speaking your command.

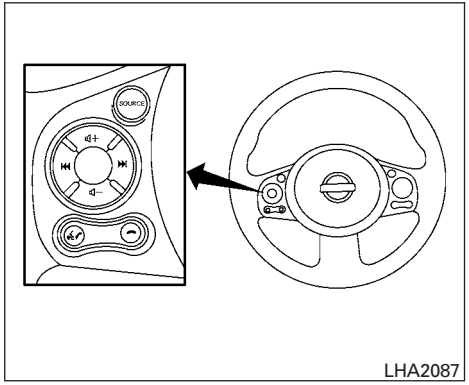
One Shot Call

To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial”.

Operating tips

To get the best performance out of the system, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing voice commands correctly.



LHA2087

CONTROL BUTTONS

The control buttons for the Bluetooth® Hands-Free Phone System are located on the steering wheel.

PHONE/SEND

Press the button to answer an incoming call.

You can also use the button to interrupt the system feedback and give a command at once. For additional information, refer to “List of commands” and “During a call” in this section for additional information.

PHONE/END

Press the button to end a call.

TUNING SWITCH

Push the tuning switch left or right to manually control the phone system.

GETTING STARTED

The following procedures will help you get started using the Bluetooth® Hands-Free Phone System.

Choosing a language

To change the language, perform the following.

1. Press and hold the button for more than 5 seconds.
2. Press the button.
3. The system announces the current language and gives you the option to change the language. To select the current language, press the PHONE/SEND ( ) button. To select a different language, push the tuning switch (or) left or right.

NOTE:

You must press the button within 5 seconds to change the language.

4. If you decide not to change the language, do not press either button. After 5 seconds, the session will end, and the language will not be changed.

Connecting procedure

NOTE:

The connecting procedure must be performed when the vehicle is stationary. If the vehicle starts moving during the procedure, the procedure will be canceled.

1. Press the button on the steering wheel. The system announces the available commands.

2. Press the button again to connect phone. If phone is already connected push the tuning switch (or) to find the desired command.
3. The system acknowledges the command and announces the next set of available commands. Then asks you to initiate connecting from the phone handset.

   The connecting procedure of the cellular phone varies according to each cellular phone model. For additional information, refer to the cellular phone Owner's Manual for details.

   When prompted for a Passkey code, enter "1234" from the handset. The Passkey code "1234" has been assigned by NISSAN and cannot be changed.

Making a call by entering a phone number

Main Menu
"Call" Ⓐ
"Phone Number" Ⓑ
Speak the digits Ⓒ
"Dial" Ⓓ

1. Press the button on the steering wheel. A tone will sound.
2. Say: "Call" Ⓐ. The system acknowledges the command and announces the next set of available commands.
3. Say "Phone Number" Ⓑ. The system acknowledges the command and announces the next set of available commands.

   Say: "Special Number" to dial more than 10 digits or any special characters.
4. Say the number you wish to call starting with the area code in single digit format Ⓒ. If the system has trouble recognizing the correct phone number, try entering the number in the following groups: 3-digit area code, 3-digit prefix and the last 4-digits. For example, 555-121-3354 can be said as "five five five" as the 1st group, then "one two one" as the 2nd group, and "three three five four" as the 3rd group. For dialing more than 10 digits or any special characters, say "Special Number".
5. When you have finished speaking the phone number, the system repeats it back and announces the available commands.
6. Say: "Dial" Ⓓ. The system acknowledges the command and makes the call.

For additional information, refer to "List of commands" in this section.

Receiving a call

When you hear the ring tone, press the button on the steering wheel.

Once the call has ended, press the button on the steering wheel.

NOTE:

If you do not wish to take the call when you hear the ring tone, press the button on the steering wheel.

For additional information, refer to "List of commands" in this section.

LIST OF COMMANDS

Main Menu
"Call"
"Phonebook"
"Recent Calls"
"Connect Phone"
"Help"

When you press and release the button on the steering wheel, you can choose from the commands on the Main Menu. The following pages describe these commands and the commands in each sub-menu. Use the steering wheel switches to choose a command from the list.

To browse the menu options, push the tuning switch on the steering wheel left or right. The system will always speak the current menu option. To select the current menu option, press the button. To go back to the previous menu, press the button.

"Call"

- Main Menu
  - "Call"
    - (Speak name) Ⓐ
    - "Phone Number"
      - (Speak Digits) Ⓑ
      - "Special Number" Ⓒ
    - "Redial" Ⓓ
    - "Call Back" Ⓔ
    - "Help"

(Speak name) Ⓐ

If you have stored entries in the phonebook, you can dial a number associated with a name.

For additional information, refer to "Phonebook" in this section.

When prompted by the system, say the name of the phone book entry you wish to call. The system acknowledges the name.

If there are multiple numbers associated with the name, the system asks you to choose the correct number.

Once you have confirmed the name and location, the system begins the call.

(Speak Digits) Ⓑ

When prompted by the system, say the number you wish to call. For additional information, refer to "Making a call by entering a phone number" in this section.

"Special Number" Ⓒ

For dialing more than 10 digits or any special characters, say "Special Number". When the system acknowledges the command, the system will prompt you to speak the number.

"Redial" Ⓓ

Use the Redial command to call the last number that was dialed.

The system acknowledges the command, repeats the number and begins dialing.

If a redial number does not exist, the system announces, "There is no number to redial" and ends the NISSAN Voice Recognition System session.

"Call Back" Ⓔ

Use the Call Back command to dial the number of the last incoming call within the vehicle.

The system acknowledges the command, repeats the number and begins dialing.

If a call back number does not exist, the system announces, "There is no number to call back" and ends the NISSAN Voice Recognition System session.

During a call

During a call there are several command options available. Press the button on the steering wheel to mute the receiving voice and enter commands.

- "Help" — The system announces the available commands.
- "Cancel/Quit" — The system announces "Cancel," ends the Voice Recognition session and returns to the call.
- "Send" — Use the Send command to enter numbers, "*" or "#" during a call. For example, if you were directed to dial an extension by an automated system:

Say: “Send one two three four.”

The system acknowledges the command and sends the tones associated with the numbers. The system then ends the Voice Recognition session and returns to the call. Say “star” for “*”, Say “pound” for “#”.

- “Transfer call” — Use the Transfer Call command to transfer the call from the Bluetooth® Hands-Free Phone System to the cellular phone when privacy is desired.

  The system announces, “Transfer call. Call transferred to privacy mode.” The system then ends the Voice Recognition session.

  To reconnect the call from the cellular phone to the Bluetooth® Hands-Free System, press the button.

- “Mute” — Use the Mute command to mute your voice so the other party cannot hear it. Use the mute command again to unmute your voice.

NOTE:

If a call is ended or the cellular phone network connection is lost while the Mute feature is on, the Mute feature will be reset to “off” for the next call so the other party can hear your voice.

“Phonebook” (phones without automatic phonebook download function)

NOTE:

The “Transfer Entry” command is not available when the vehicle is moving.

Main Menu
- “Phonebook”
  - “List Names” Ⓐ
  - “Delete Entry” Ⓑ
  - “Transfer Entry” Ⓒ

For phones that do not support automatic download of the phonebook (PBAP Bluetooth® profile), the “Phonebook” command is used to manually add entries to the vehicle phonebook.

The phonebook stores up to 40 names for each phone connected to the system.

NOTE:

Each phone has its own separate phonebook. You cannot access Phone A’s phonebook if you are currently connected with Phone B.

“List Names” Ⓐ

Use the List Names command to hear all the names in the phonebook.

The system recites the phonebook entries but does not include the actual phone numbers. When the playback of the list is complete, the system goes back to the main menu.

You can stop the playback of the list at any time by pressing the button on the steering wheel. The system ends the session.

“Delete Entry” Ⓑ

Use the Delete Entry command to erase one entry from the phonebook. After the system recognizes the command, speak the name to delete or say “List Names” to choose an entry.

“Transfer Entry” Ⓒ

Use the Transfer Entry command to store a new name in the system.

When prompted by the system, say the name you would like to give the new entry.

For example, say: “Mary.”

If the name is too long or too short, the system tells you, then prompts you for a name again.

Also, if the name sounds too much like a name already stored, the system tells you, then prompts you for a name again.

The system will ask you to transfer a phone number stored in the cellular phone's memory.

To transfer a phone number stored in the cellular phone's memory:

Select "Transfer entry." The system acknowledges the command and asks you to initiate the transfer from the phone handset. The new contact phone number will be transferred from the cellular phone via the Bluetooth® communication link.

The transfer procedure varies according to each cellular phone. For additional information, refer to the cellular phone Owner's Manual.

The system repeats the number and prompts you for the next command. When you have finished entering numbers or transferring an entry, choose "Store."

The system confirms the name, location and number.

"Phonebook" (phones with automatic phonebook download function)

NOTE:

The "Transfer Entry" command is not available when the vehicle is moving.

Main Menu
- "Phonebook"
  - Say a Name
  - "List Names" Ⓐ
  - "Help"

For phones that support automatic download of the phonebook (PBAP Bluetooth® profile), the "Phonebook" command is used to manage entries in the vehicle phonebook. You can say the name of an entry at this menu to initiate dialing of that entry.

The phonebook stores up to 1000 names for each phone connected to the system.

When a phone is connected to the system, the phonebook is automatically downloaded to the vehicle. This feature allows you to access your phonebook from the Bluetooth® system and call contacts by name. You can record a custom voice tag for contact names that the system has difficulty recognizing.

NOTE:

Each phone has its own separate phonebook. You cannot access Phone A's phonebook if you are currently connected with Phone B.

"List Names" Ⓐ

Use the List Names command to hear all the names and locations in the phone book.

The system recites the phone book entries but does not include the actual phone numbers. When the playback of the list is complete, the system goes back to the main menu.

You can stop the playback of the list at any time by pressing the button on the steering wheel. The system ends the session.

"Recent Calls"

Main Menu
- "Recent Calls"
  - "Incoming" Ⓐ
  - "Missed" Ⓑ
  - "Outgoing" Ⓒ
  - "Redial" Ⓓ
  - "Call Back" Ⓔ
  - "Help"

Use the Recent Calls command to access outgoing, incoming or missed calls or dial numbers for the last incoming or outgoing calls.

“Incoming” Ⓐ

Use the Incoming command to list the incoming calls made to the vehicle.

“Missed” Ⓑ

Use the Missed command to list the calls made to the vehicle that were not answered.

“Outgoing” Ⓒ

Use the Outgoing command to list the outgoing calls made from the vehicle.

“Redial” Ⓓ

Use the Redial command to dial the number of the last outgoing call from the vehicle.

“Call Back” Ⓔ

Use the Call Back command to dial the number of the last incoming call to the vehicle.

“Connect Phone”

NOTE:

The Add Phone command is not available when the vehicle is moving.

Main Menu
- “Connect Phone”
  - “Add Phone” Ⓐ
  - “Replace Phone” Ⓑ
  - “Select Phone” Ⓒ
  - “No”
  - “Help”

Use the Connect Phone commands to manage the phones connecting to the vehicle or to enable the Bluetooth® function on the vehicle.

“Add Phone” Ⓐ

Use the Add Phone command to add a phone to the vehicle. For additional information, refer to “Connecting procedure” in this section.

“Replace Phone” Ⓑ

Use the Replace Phone command to replace an existing phone pairing with a new phone. The system will keep all voice tags assigned to your phonebook.

“Select Phone” Ⓒ

Use the Select Phone command to select from a list of phones connected to the vehicle. The system will list the names assigned to each phone and then prompt you for the phone you wish to select. Only one phone can be active at a time.

TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid. For additional information, refer to “List of commands” in this section.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
The system consistently selects the wrong entry from the phone book.	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the “List Names” command. For additional information, refer to “Phonebook” in this section.
	2. Replace one of the names being confused with a new name.

MEMO

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⚠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 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.**

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. **Turn the air recirculation mode off and set the fan speed control to the highest level to circulate the air.**
- **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.**
- **When parking, ensure that people or inflammable materials are kept away from the exhaust pipe.**

⚠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.**

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 or improperly belted person is significantly more likely to be injured or killed than a person properly 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 inspect the tires for wear and damage. For additional information, refer to “Wheels and tires” in the “Do-it-yourself” section of this manual. 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

The following actions can increase the chance of losing control of the vehicle if there is a sudden loss of tire air pressure. Losing control of the vehicle may cause a collision and result in personal injury.

- **The vehicle generally moves or pulls in the direction of the flat tire.**
- **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, refer to “Changing a flat tire” in the “In case of emergency” section of this manual.

DRINKING ALCOHOL/DRUGS AND DRIVING

⚠WARNING

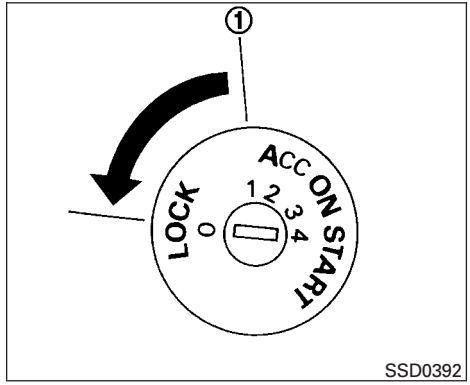
Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in 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.

⚠ WARNING

- **Never remove the ignition key or place the ignition switch in the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.**



AUTOMATIC TRANSMISSION (if so equipped)

The ignition lock is designed so the key cannot be turned to the LOCK position and removed until the shift lever is placed in the P (Park) position.

When removing the key from the ignition switch, make sure the shift lever is in the P (Park) position.

If the shift lever is not returned to the P (Park) position, the ignition switch cannot be moved to the LOCK position.

To remove the key from the ignition switch:

1. Shift the shift lever to the P (Park) position with the ignition switch in the ON position.
2. Place the ignition switch in the LOCK position.
3. Remove the key from the ignition switch.

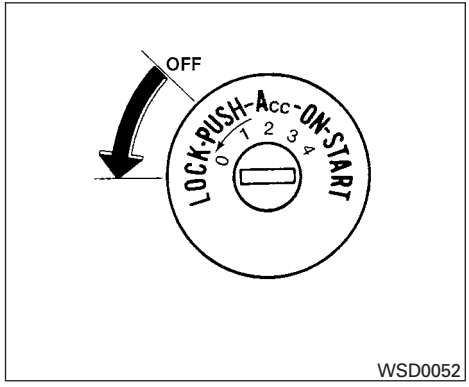
If the shift lever is shifted to the P (Park) position after the ignition switch is turned to the OFF position or when the ignition switch cannot be turned to the LOCK position, proceed as follows to remove the key.

1. Move the shift lever into the P (Park) position.
2. Turn the ignition switch slightly toward the ON position.
3. Turn the ignition switch to the LOCK position.
4. Remove the key.

The shift lever is designed so it cannot be moved out of P (Park) and into any of the other gear positions if the ignition switch is turned to the OFF position ① or if the key is removed from the switch.

The shift lever can be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.

There is an OFF position ① between the LOCK and ACC positions. The OFF position is indicated by a “1” on the key cylinder.



MANUAL TRANSMISSION (if so equipped)

The ignition switch includes a device that helps prevent accidental removal of the key while driving.

The key can only be removed when the ignition switch is in the LOCK position.

In order for the steering wheel to be locked, it must be turned about 1/8 of a turn clockwise from the straight up position.

To lock the steering wheel, place the ignition switch in the LOCK position. Remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

IGNITION SWITCH POSITIONS

LOCK: Normal parking position (0)

OFF: (1)

The engine can be turned off without locking the steering wheel.

ACC: (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running.

ON: Normal operating position (3)

This position turns on the ignition system and the electrical accessories.

START: (4)

This position starts the engine. As soon as the engine has started, release the key. It automatically returns to the ON position.

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 procedure:

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.

- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake and clutch fluid (if so equipped), 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 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 key is turned to the ON position. For additional information, refer to “Warning lights, indicator lights and audible reminders” in the “Instruments and controls” section of this manual.

1. Apply the parking brake.
2. **Automatic transmission:**

   Move the shift lever to P (Park) or N (Neutral). P (Park) is recommended.

   The shift lever cannot be moved out of the P (Park) position and into any of the other gear positions if the ignition switch is placed in the OFF position or if the key is removed from the ignition switch.

   The starter is designed not to operate if the shift lever is in any of the driving positions.

   Manual transmission:

   Move the shift lever to N (Neutral). Depress the clutch pedal to the floor while cranking the engine.
3. Crank the engine **with your foot off the accelerator pedal** by placing the ignition switch in the START position. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

   - 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 hold it

and then crank the engine. Release the key and 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. Crank the engine for 5-6 seconds. After cranking the engine, release the accelerator pedal. Crank the engine **with your foot off the accelerator pedal** by placing the ignition in the START position. Release the key when the engine starts. 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, turn the key off and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather.

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.

AUTOMATIC TRANSMISSION (if so equipped)

The Automatic Transmission (A/T) 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.

⚠WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive), 2 or 1. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **The cold engine idle speed is high, so use caution when shifting the transmission into a forward or reverse position before the engine has warmed up.**
- **Avoid revving up the engine while the vehicle is stopped. This could cause unexpected vehicle movement.**
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**

⚠CAUTION

- **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.**
- **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.**
- **Start the engine in either the P (Park) or N (Neutral) position. The engine will not start in any other position. If it does, have your vehicle checked. It is recommended that you visit a NISSAN dealer for this service.**
- **Shift into the P (Park) position and apply the parking brake when at a standstill for longer than a short waiting period.**
- **Keep the engine at idling speed while shifting from the N (Neutral) position to any driving position.**

- **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 pedal should be depressed in this situation.**

Starting the vehicle

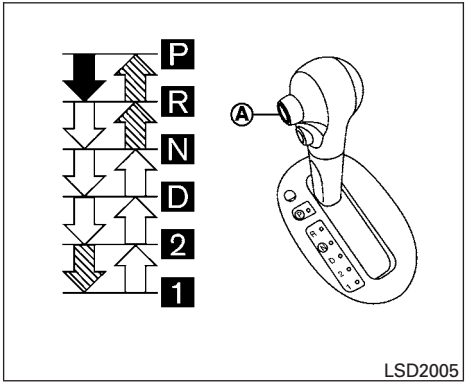
1. After starting the engine, fully depress the foot brake pedal before moving the shift lever out of the P (Park) position.
2. Keep the foot brake pedal depressed and move the shift lever to a drive position.
3. Release the parking brake, the foot brake pedal, and then gradually start the vehicle in motion.

The automatic transmission is designed so the foot brake pedal MUST be depressed before shifting from P (Park) to any drive position while the ignition switch is in the ON position.

The shift lever cannot be moved out of P (Park) and into any of the other gear positions if the ignition switch is turned to the LOCK, OFF or ACC position or if the key is removed.

⚠CAUTION

- **Depress the foot brake pedal - Shifting the shift lever to D, R, 2 or 1 without depressing the foot brake pedal causes the vehicle to move slowly when the engine is running. Make sure the foot brake pedal is depressed fully and the vehicle is stopped before shifting the shift lever.**
- **Make sure of the shift lever position- Make sure the shift lever is in the desired position. D, 2 and 1 are used to move forward and R to back up.**
- **Warm up the engine- Due to the higher idle speeds when the engine is cold, extra caution must be exercised when shifting the shift lever into the driving position immediately after starting the engine.**



To move the shift lever:

- Push the button Ⓐ while depressing the brake pedal.
- Push the button Ⓐ.
- Just move the shift lever.

Shifting

⚠ 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.**
- **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.**

After starting the engine, fully depress the foot brake pedal, push the shift lever button and move the shift lever out of the P (Park) position.

If the ignition switch is in the OFF or ACC position for any reason while the shift lever is in any position other than the P (Park) position, the ignition switch cannot be turned to the LOCK position.

If the ignition switch cannot be placed in the LOCK position, perform the following steps:

1. Apply the parking brake when the vehicle is stopped.
2. Place the ignition switch in the ON position while depressing the foot brake pedal.
3. Move the shift lever to the P (Park) position.
4. Place the ignition switch in the LOCK position.

P (Park)

⚠ CAUTION

To prevent transmission damage, use the P (Park) position only when the vehicle is completely stopped.

Use the P (Park) position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. **The brake pedal must be depressed and the shift lever button pushed in 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 shift 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 and the shift lever button pushed in to move the shift lever from P (Park), 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.

2 (Second gear)

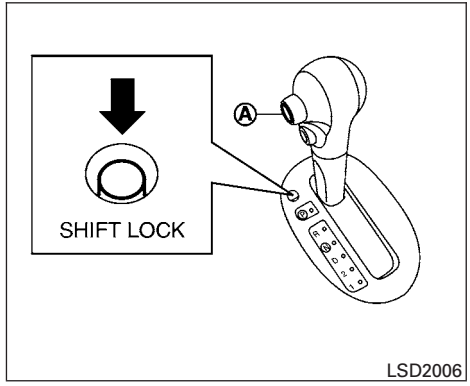
Use this position for hill climbing or engine braking on downhill grades.

1 (Low gear)

Use this position when climbing steep hills slowly or driving slowly through deep snow, sand or mud, or for maximum engine braking on steep downhill grades.

Do not shift into the gears when the vehicle speed exceeds the following limits, otherwise the engine may over-rev and cause engine damage.

Shift Lever position	
1	2
50 km/h (31 mph)	95 km/h (59 mph)



Shift lock release

If the battery is discharged, the shift lever may not be moved from the P (Park) position even with the foot brake pedal depressed.

To move the shift lever, perform the following procedure:

1. Place the ignition switch into the LOCK position and remove the key.
2. Apply the parking brake.
3. Remove the shift lock release cover using a suitable tool.

4. Push down the shift lock release using a suitable tool.
5. Push the shift lever button Ⓐ and move the shift lever to the N (Neutral) position while holding down the shift lock release.
6. Place the ignition switch in the ON position to unlock the steering wheel.
7. Release the parking brake.

The vehicle may be moved to the desired location.

Replace the removed shift lock release cover after the operation.

If the shift lever cannot be moved out of the P (Park) position, have the automatic transmission system checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

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.

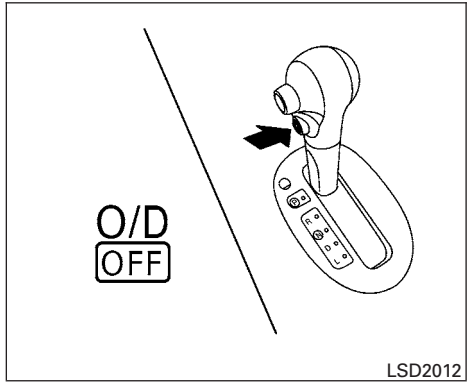
Fail-safe

When the fail-safe operation is activated, the automatic transmission will be locked in third gear.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. This will occur even if all electrical circuits are functioning properly. In this case:

- **Place the shift lever in the P (Park) position.**
- **Place the ignition switch in the OFF position and wait for 3 seconds.**
- **Then place the ignition switch back in 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.



Overdrive (O/D) OFF switch

Each time your vehicle is started, the transmission is automatically “reset” to overdrive ON.

ON: With the engine running and the shift lever in the D (Drive) position, the transmission upshifts into overdrive as vehicle speed increases.

Overdrive does not engage until the engine has reached operating temperature.

OFF: For driving up and down long slopes where engine braking is necessary push the overdrive switch once. The O/D OFF indicator light in the instrument panel comes on at this time.

When cruising at a low speed or climbing a gentle slope, you may feel uncomfortable shift shocks as the transmission shifts into and out of overdrive repeatedly. In this case, depress the overdrive switch to turn the overdrive off. The O/D OFF indicator light in the instrument panel comes on at this time.

When driving conditions change, depress the overdrive switch to turn the overdrive on.

Remember not to drive at high speeds for extended periods of time with the overdrive off. This reduces fuel economy.

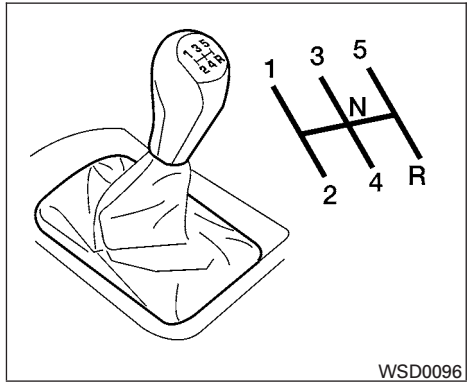
MANUAL TRANSMISSION (if so equipped)

⚠ WARNING

- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Do not over-rev the engine when shifting to a lower gear. This may cause a loss of control or engine damage.**

⚠ CAUTION

- **Do not rest your foot on the clutch pedal while driving. This may cause clutch damage.**
- **Fully depress the clutch pedal before shifting to help prevent transmission damage.**
- **Stop your vehicle completely before shifting into R (Reverse).**
- **When the vehicle is stopped with the engine running (for example, at a stop light), shift to N (Neutral) and release the clutch pedal with the foot brake applied.**
- **Do not shift to the N (Neutral) position while driving. Doing so may result in an accident due to loss of engine braking.**



Shifting

To change gears, or when upshifting or downshifting, depress the clutch pedal fully, shift into the appropriate gear, then release the clutch slowly and smoothly.

To ensure smooth gear changes, fully depress the clutch pedal before operating the shift lever. If the clutch pedal is not fully depressed before the transmission is shifted, a gear noise may be heard. Transmission damage could occur.

Start the vehicle in the 1 (1st) position and shift to the 2 (2nd), 3 (3rd), 4 (4th) and 5 (5th) gear in sequence according to the vehicle speed.

You cannot shift directly from 5th gear into R (Reverse). First shift into N (Neutral), then into R (Reverse).

If it is difficult to move the shift lever into R (Reverse) or 1 (1st), shift into N (Neutral), then release the clutch pedal. Depress the clutch pedal again and shift into R (Reverse) or 1 (1st).

Suggested up-shift speeds

The following are suggested vehicle speeds for shifting into a higher gear. These suggestions relate to fuel economy and vehicle performance. Actual upshift speeds will vary according to road conditions, the weather and individual driving habits.

For normal acceleration in low altitude areas (less than 1219 m [4,000 ft]):

GEAR CHANGE	km/h (mph)
1st to 2nd	14 (9)
2nd to 3rd	19 (12)
3rd to 4th	34 (21)
4th to 5th	45 (28)
5th	—

For quick acceleration in low altitude areas and high altitude areas (over 1219 m [4,000 ft]):

Gear change	km/h (mph)
1st to 2nd	24 (15)
2nd to 3rd	40 (25)
3rd to 4th	64 (40)
4th to 5th	72 (45)
5th	—

Suggested maximum speed in each gear

Downshift to a lower gear if the engine is not running smoothly, or if you need to accelerate.

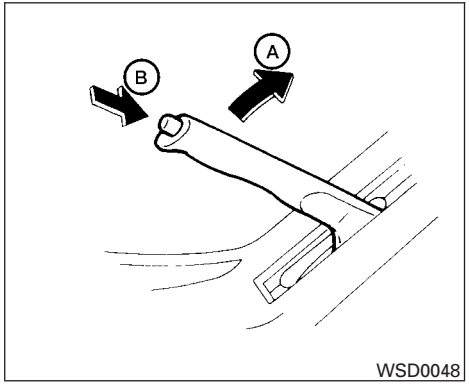
Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions, which will ensure safe operation. Do not over-rev the engine when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

HR16DE engine model (5 M/T)

GEAR	km/h (mph)
1st	43 (27)
2nd	79 (49)
3rd	116 (72)
4th	157 (97)
5th	—

⚠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.**
- **Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.**
- **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.**



To engage: Pull the parking brake lever up Ⓐ.

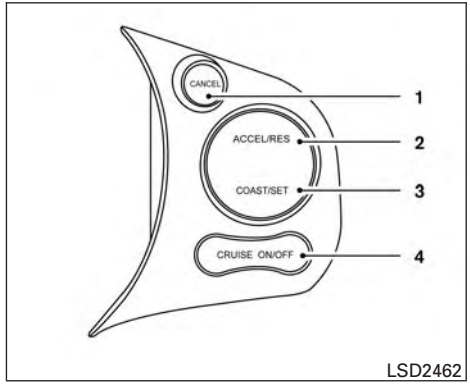
To release:

1. Firmly apply the foot brake.
2. **Manual transmission models:**

   Place the shift lever in the N (Neutral) position.

   Automatic transmission models:

   Move the shift lever to the P (Park) position.
3. While pulling up on the parking brake lever slightly, push the button Ⓑ and lower the lever completely .
4. Before driving, be sure the brake warning light goes out.



PRECAUTIONS ON CRUISE CONTROL

1. CANCEL switch
2. ACCEL/RES switch
3. COAST/SET switch
4. CRUISE ON/OFF switch

- If the cruise control system malfunctions, it cancels automatically.
- To properly set the cruise control system, use the following procedures.

⚠WARNING

Do not use the cruise control 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.

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 37 - 144 km/h (23 - 89 mph) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the ON/OFF switch. The CRUISE indicator light in the instrument panel comes on.

To set cruising speed, accelerate the vehicle to the desired speed, push the COAST/SET switch and release it. Take your foot off the accelerator pedal. Your vehicle maintains the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle returns to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, drive without the cruise control.

To cancel the preset speed, use one of the following three methods.

- Push the CANCEL switch.
- Tap the brake pedal.
- Push the ON/OFF switch. The CRUISE indicator light in the instrument panel will go out.

The cruise control is automatically canceled if:

- You depress the brake pedal while pushing the ACCEL/RES or SET/COAST switch. The preset speed is deleted from memory.
- The vehicle slows down more than 13 km/h (8 mph) below the set speed.
- You move the shift lever to N (Neutral).

To reset at a faster cruising speed, use one of the following three methods.

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.
- Push and hold the ACCEL/RES switch. When the vehicle attains the speed you desire, release the switch.
- Push and release the ACCEL/RES switch. Each time you do this, the set speed increases by about 1.6 km/h (1 mph).

To reset at a slower cruising speed, use one of the following three methods.

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.
- Push and hold the COAST/SET switch. Release the switch when the vehicle slows to the desired speed.
- Push and release the COAST/SET switch. Each time you do this, the set speed decreases by about 1.6 km/h (1 mph).

To resume the preset speed, push and release the ACCEL/RES switch. The vehicle returns to the last set cruising speed when the vehicle speed is over 37 km/h (23 mph).

BREAK-IN SCHEDULE

⚠CAUTION

During the first 2,000 km (1,200 miles), 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.

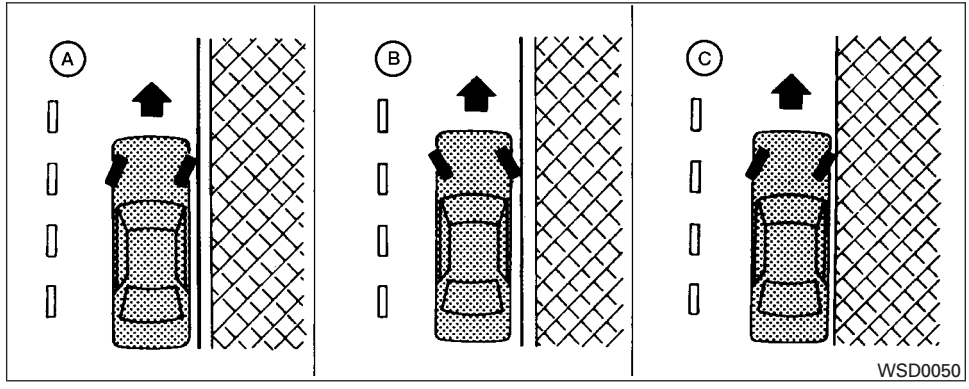
1. **Use Smooth Accelerator and Brake Pedal Application**
   - Avoid rapid starts and stops.
   - Use smooth, gentle accelerator and brake application whenever possible.
   - Maintain constant speed while commuting and coast whenever possible.
2. **Maintain Constant Speed**
   - Look ahead to try and 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 64 km/h (40 mph), it is more efficient to open windows to cool the vehicle due to reduced engine load.
   - Above 64 km/h (40 mph), 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 97 km/h (60 mph) (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.

The following methods are recommended by NISSAN to increase fuel economy on NISSAN vehicles. All these recommendations can help you to achieve a higher level of fuel economy in your vehicle.

- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway. Driving at high speed lowers fuel economy.
- Avoid unnecessary stopping and braking. Maintain a safe distance behind other vehicles.
- Use a proper gear range which suits road conditions. On level roads, shift into high gear as soon as possible.
- Avoid unnecessary engine idling.
- 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.

- Air conditioner operation lowers fuel economy. Use the air conditioner only when necessary.
- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.
- Use the recommended viscosity engine oil. For additional information, refer to “Engine oil and oil filter recommendations” in the “Technical and consumer information” section of this manual.



⚠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 into P (Park) for automatic transmission models or in an appropriate gear for manual transmission models. 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. 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. **Manual transmission models:**

   Place the shift lever in the R (Reverse) position. When parking on an uphill grade, place the shift lever in 1st gear.

   Automatic transmission models:

   Move the shift lever to 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 Ⓐ:

     Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
   - HEADED UPHILL WITH CURB Ⓑ:

     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 Ⓒ:

     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. Turn the ignition switch to the LOCK position and remove the key.

⚠ 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 electric power steering warning light **PS** 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 electric 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, refer to “Power steering warning light” in the “Instruments and controls” section of this manual.

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 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)

⚠ 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, refer to "Tire and Loading Information label" in the "Technical and consumer information" section of this manual.**
  - **For additional information, refer to "Wheels and tires" in the "Do-it-yourself" section of this manual.**

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 ABS 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 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 ABS operates at speeds above 5 - 10 km/h (3 - 6 mph). 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 drivers responsibility to stay alert, drive safely and be in control of the vehicle at all times.

The Vehicle Dynamic Control (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 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, refer to “Vehicle Dynamic Control (VDC) OFF switch” in the ”Instruments and controls” section of this manual.

If a malfunction occurs in the system, the and indicator lights come on in the instrument panel. The VDC system automatically turns off when these indicator lights are on.

The VDC OFF switch is used to turn off the VDC system. The indicator illuminates to indicate the VDC system is off.

When the VDC switch 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 flashes if this occurs. All other VDC functions are off and the indicator 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 may flash.**
- **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 may flash or the indicator light may 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 may flash or the indicator light may 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 may flash and the indicator light may 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 may flash or the indicator light may illuminate.**
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- **If wheels or tires other than the NISSAN recommended ones are used, the VDC system may not operate properly and the indicator may flash or the indicator light may illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer 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 key fob (if so equipped).

ANTIFREEZE

In the winter when it is anticipated that the temperature will drop below 0°C (32°F), check the anti-freeze to assure proper winter protection. For additional information, refer to "Engine cooling system" in the "Do-it-yourself" section of this manual.

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. For additional information, refer to "Battery" in the "Do-it-yourself" section of this manual.

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, refer to "Changing engine coolant" in the "Do-it-yourself" section of this manual.

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 U.S. states and Canadian provinces prohibit their use. Check local, state and provincial 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.

3. Tire chains may be used. For additional information, refer to “Tire chains” in the “Do-it-yourself” section of this manual.

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 (0°C, 32°F 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.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

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 -7°C (20°F) 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:

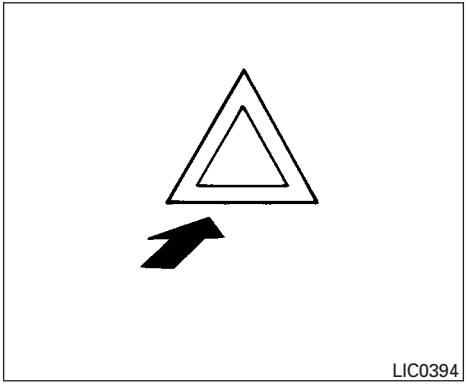
1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3-wire, 3-pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater 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 6-2
Flat tire 6-2
Changing a flat tire 6-2
Jump starting 6-10
Push starting 6-12
If your vehicle overheats 6-12
Towing your vehicle 6-13
Towing recommended by NISSAN 6-14
Vehicle recovery (freeing a stuck vehicle) 6-15

HAZARD WARNING FLASHER SWITCH


LIC0394

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.

FLAT TIRE

CHANGING A FLAT TIRE

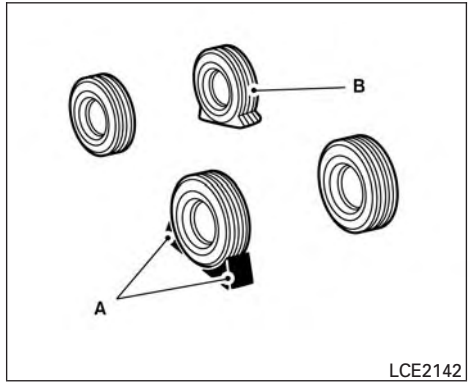
If you have a flat tire, follow the instructions below:

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. Shift the Automatic Transmission (A/T) or the models into P (Park) or the Manual Transmission (M/T) model into R (Reverse).
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 Automatic Transmission (A/T) models is shifted into P (Park), or the Manual Transmission (M/T) model into R (Reverse).**
- **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.**



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A. Blocks

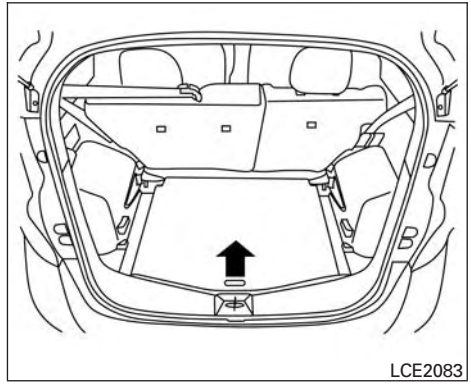
B. Flat tire

Blocking wheels

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

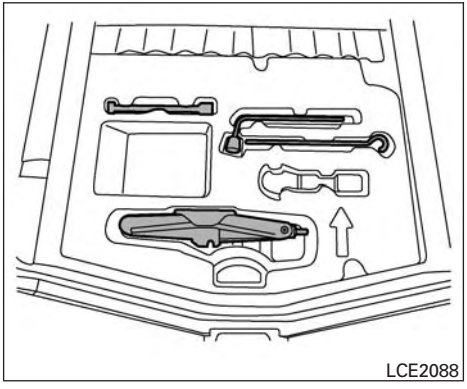
Be sure to block the wheel as the vehicle may move and result in personal injury.


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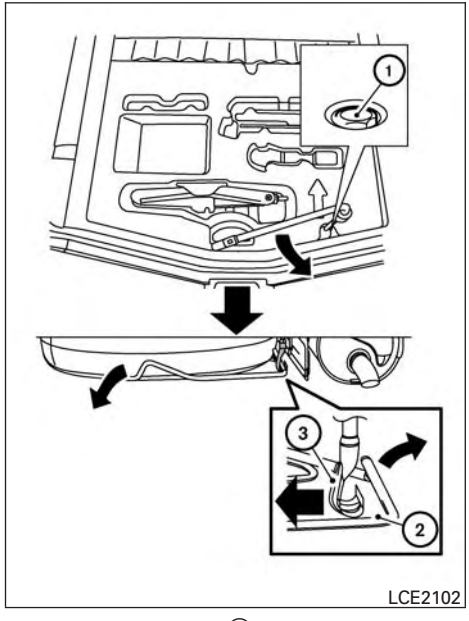
Getting the spare tire and tools

Open the rear hatch.

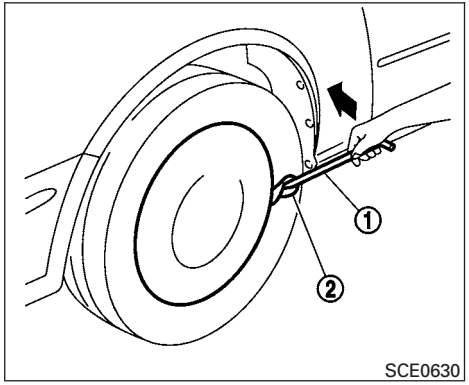
Lift the floorboard.



1. Remove the jacking tools from the storage location.



2. Loosen the bolt ① counterclockwise to lower the spare.
3. Stop turning the bolt when the spare is lowered to the point where the tire basket ② can be removed from the hook ③.
4. Remove the wheel basket by pushing the basket upward.
5. Lower the tire basket to the ground and take out the spare.



Removing wheel cover (if so equipped)

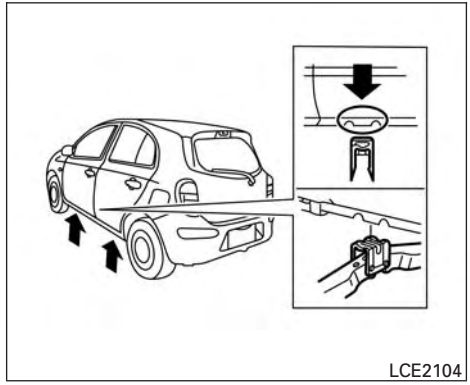
To remove the wheel cover, use the jack rod ① as illustrated.

Apply cloth ② between the wheel and jack rod to prevent damaging the wheel and wheel cover.

⚠CAUTION

Do not use your hands to pry off wheel caps or wheel covers. Doing so could result in personal injury.

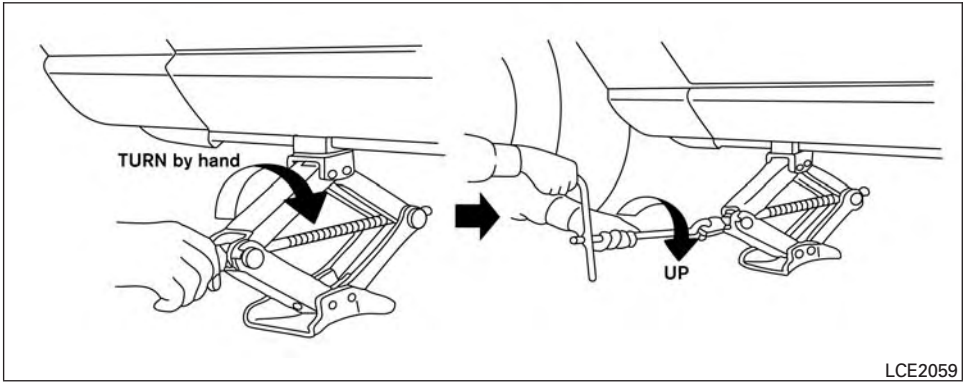
Use caution not to scratch the wheel cover or wheel surface.



Jacking up vehicle and removing the damaged tire

⚠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.**

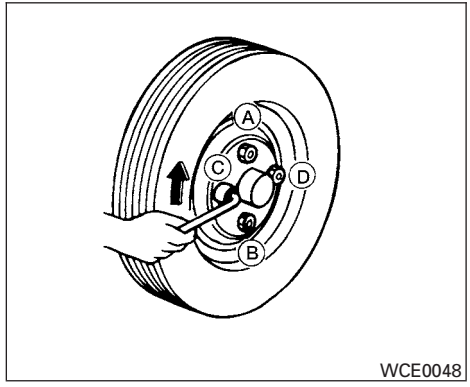


Always refer to the proper illustrations for the correct placement and jack-up points for your specific vehicle model and jack type.

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

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 1,000 km (621 miles) (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:
113 N·m (83 ft-lb)

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 the vehicle has been parked for 3 hours or more or driven less than 1.6 km (1 mile).

COLD tire pressures are shown on the "Tire and loading information label".

5. Securely store the flat tire and jacking equipment in the vehicle.

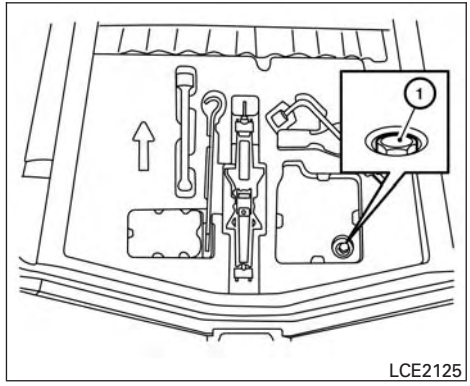
⚠WARNING

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.

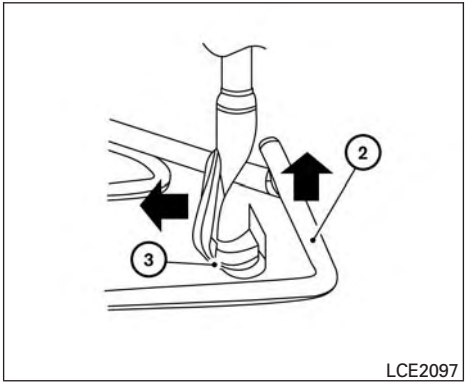
The spare tire is designed for emergency use. For additional information, refer to "Wheels and tires" in the "Do-it-yourself" section of this manual.

Reinstalling the temporary spare tire to its original position

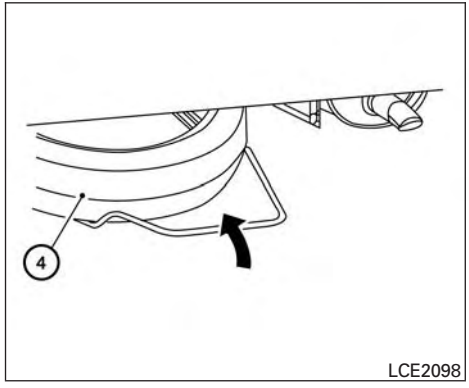
After the flat tire is repaired, return the temporary spare to its original position in the tire basket under the rear of the vehicle.



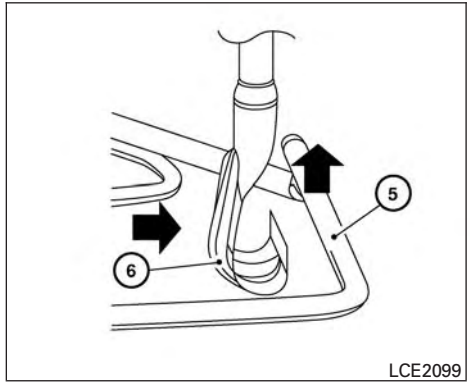
1. Open the rear hatch.
2. Remove the luggage floor.
3. Loosen bolt ① counterclockwise approximately 20 turns using the wheel nut wrench and wrench extension to lower the tire basket.
4. Stop turning the bolt when the tire basket is lowered to a place where it can be removed from the hook. **Do not loosen the bolt excessively, otherwise the basket may fall suddenly.**



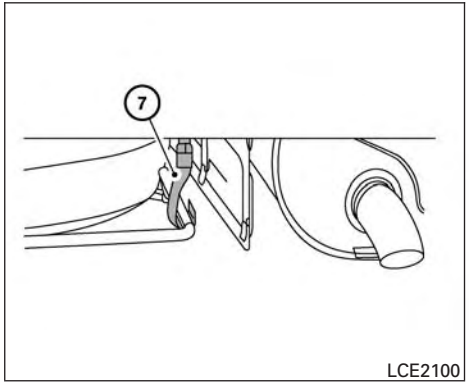
5. Hold the tire basket and remove it from the hook by pushing the basket ② upward and moving the hook ③ to release the basket.



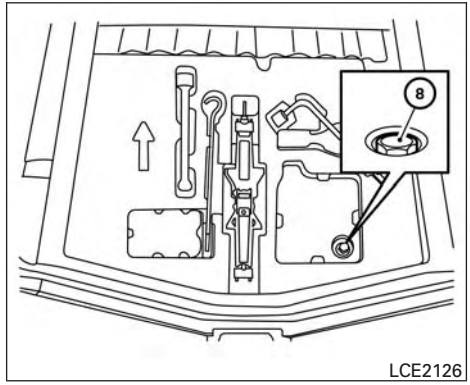
6. Lower the tire basket slowly to the ground and then put in the temporary spare tire ④.



7. Reinstall the tire basket by pushing upward on the basket ⑤ and inserting the hook ⑥.



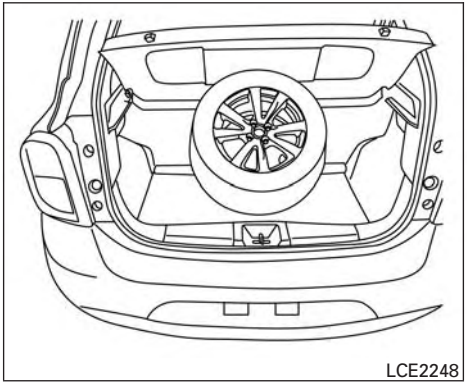
Please be sure that the hook is located as shown in the image ⑦. The hook must engage from the inside of the basket.



8. Tighten the bolt ⑧ clockwise until the bolt is tight using the wheel nut wrench and wrench extension to move the tire basket up to the holding position.

⚠WARNING

- **Always make sure that the spare tire, tire basket 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 refer to “Wheels and tires” in the “Do-it-yourself” section of this manual.**
- **When reinstalling the spare tire basket under the vehicle after use, be sure that the hook engages the basket from the inside. If the spare tire basket hook is not engaged properly, there is an increased risk of the spare tire separating from the vehicle in a crash and causing injury.**


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Stowing the damaged tire

Securely store the damaged tire in the cargo area as illustrated.

Securely store the jack and tools in the storage area.

Return the spare tire basket back to its original position in the reverse order of removal. For additional information, refer to “Getting the spare tire and tools” in this section.

NOTE:

The spare tire basket cannot be used to store the conventional tire.

⚠ WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after each use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **Make sure that the spare tire basket is properly secured in its original position after removing the spare tire.**
- **The spare tire and small size spare tire are designed for emergency use. For additional information, refer to “Wheels and tires” in the “Do-it-yourself” section of this manual.**

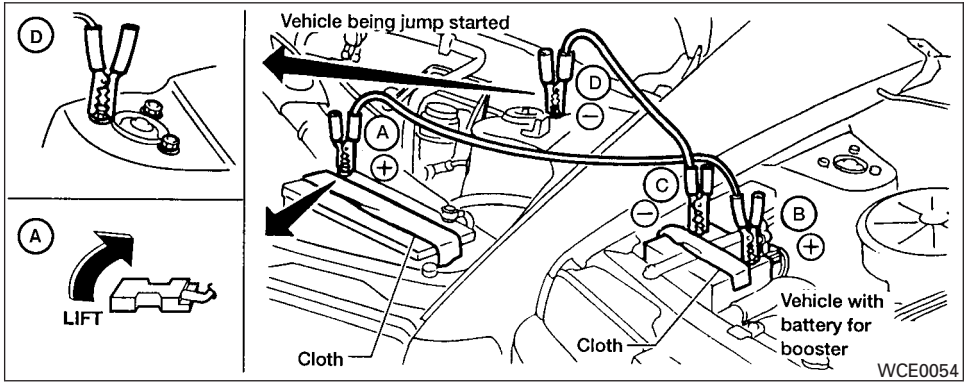
JUMP STARTING

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.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. 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 2 vehicles to touch.

2. Apply the parking brake. Move the shift lever to N (Neutral) (manual transmission) or to P (Park) (automatic transmission). Switch off all unnecessary electrical systems (lights, heater, air conditioner, etc.).
3. Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth to reduce explosion hazard.
4. Connect jumper cables in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ).

PUSH STARTING

⚠ 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, turn the key off and wait 3 to 4 seconds before trying again.

7. After starting the engine, carefully disconnect the negative cable and then the positive cable.
8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

⚠ CAUTION

- **Do not push start this vehicle. The three-way catalyst may be damaged.**
- **Automatic Transmission (AT) models and Manual Transmission (MT) cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**
- **For Manual Transmission (MT) models, never try to start the vehicle by towing it. When the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.**

IF YOUR VEHICLE OVERHEATS

If your vehicle is overheating (indicated by a red high temperature warning light), or if you feel a lack of engine power, detect abnormal noise, etc. take the following steps.

⚠ 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, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.**
- **Do not open the hood if steam is coming out.**

1. Move the vehicle safely off the road, apply the parking brake and move the shift lever to N (Neutral) (manual transmission) or to P (Park) (automatic transmission).

   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.

3. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
4. Open the engine hood.
5. 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.**
- **If coolant is leaking, or the cooling fan does not run, stop the engine.**

6. 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 a NISSAN dealer for this service.

When towing your vehicle, all Provinces 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:

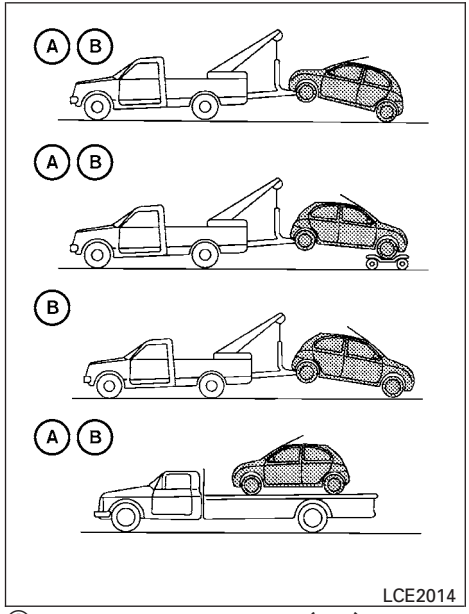
⚠ WARNING

- **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.**

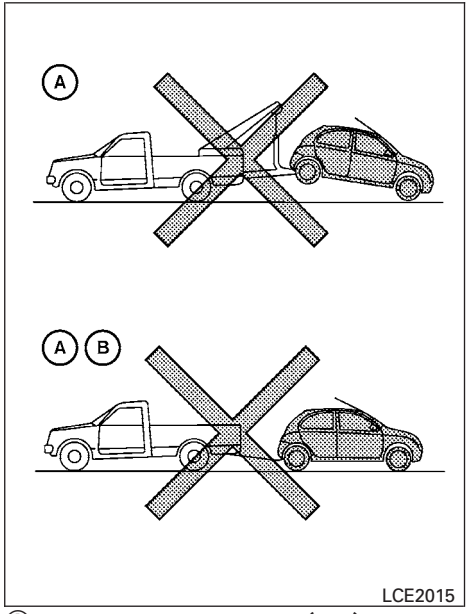
For additional information about towing your vehicle behind a Recreational Vehicle (RV), refer to “Flat towing” in the “Technical and consumer information” section of this manual.



Ⓐ Automatic Transmission (A/T)
Ⓑ Manual Transmission (M/T)

TOWING RECOMMENDED BY NISSAN

NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flat bed truck as illustrated.



Ⓐ Automatic Transmission (A/T)
Ⓑ Manual Transmission (M/T)

⚠CAUTION

- **Never tow automatic transmission 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 automatic transmission models with the front wheels on towing dollies, or when towing manual transmission models with the front wheels on the ground:**
  - **Place the ignition switch to 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.**
  - **Place the shift lever in the N (Neutral) position.**
- **When towing automatic or manual transmission models with the rear wheels on the ground (if you do not use towing dollies): Always release the parking brake.**
- **Observe the following restricted towing speeds and distances for Manual Transmissions (M/T) only:**
  - **Speed: Below 80 km/h (50 mph)**
  - **Distance: Less than 80 km (50 miles)**

VEHICLE RECOVERY (freeing a stuck vehicle)

⚠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. Make sure the area in front and behind the vehicle is clear of obstructions.
2. Turn the steering wheel right and left to clear an area around the front tires.
3. Slowly rock the vehicle forward and backward.
   - Shift back and forth between R (Reverse) and D (Drive) (A/T models) or 1st (Low) and R (Reverse) (M/T models).
   - Apply the accelerator as little as possible to maintain the rocking motion.
   - Release the accelerator pedal before shifting between R (Reverse) and D (Drive) (A/T models) or 1st (Low) and R (Reverse) (M/T models).
   - Do not spin the tires above 55 km/h (35 mph).
4. If the vehicle cannot be freed after a few tries, contact a professional towing service to remove the vehicle.

7 Appearance and care

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In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surfaces, please 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 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.**

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 surface of the paint to avoid lasting damage or staining. 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.

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.

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 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.

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 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

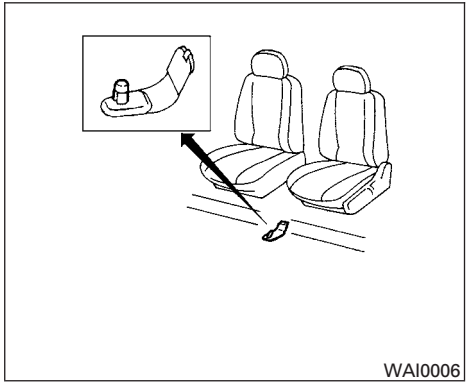
- **Never use benzine, thinner or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the 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.**

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.


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FLOOR MATS

⚠ 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, refer to "Floor mat installation" in this section.**
- **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.

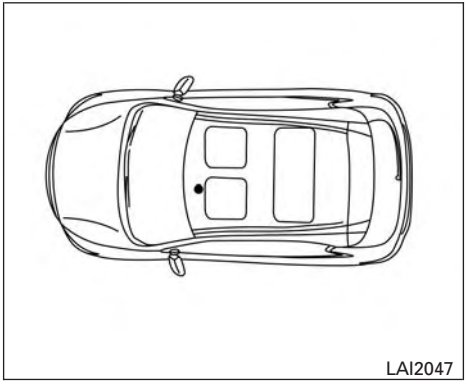
Floor mat installation

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. 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 in the OFF position, the selector lever in the P (Park) position (Automatic Transmission models) or the shift lever in the N (Neutral) position (Manual Transmission models) 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, refer to “Seat belt maintenance” in the “Safety–Seats, seat belts and supplemental restraint system” section of this manual.

⚠ 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.

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 consult a NISSAN dealer.

MEMO

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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. For manual transmission models, move the shift lever to N (Neutral). For Automatic Transmission (A/T) move the shift lever to P (Park)**
- **Be sure the ignition key is in the OFF or LOCK position when performing any parts replacement or repairs.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition key 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 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.**
- **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.**
- **On gasoline engine models, the fuel filter or fuel lines should be serviced because the fuel lines are under high pressure even when the engine is off. It is recommended that you visit a NISSAN dealer for this service.**

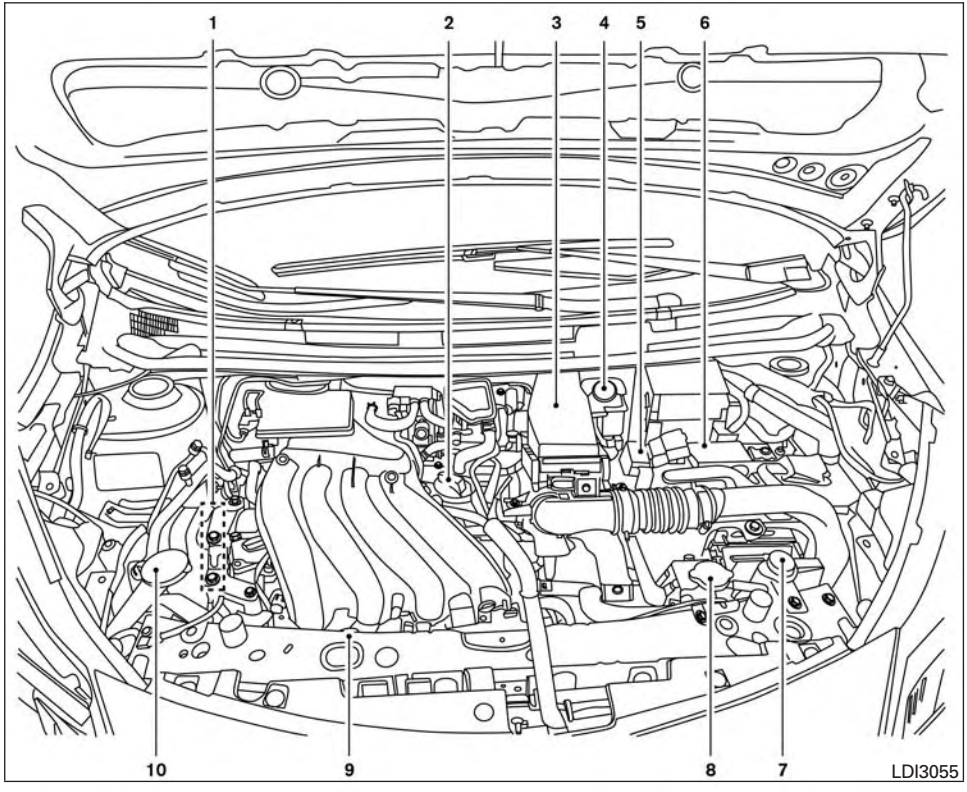
⚠ CAUTION

- **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 automatic transmission 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.

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.**

ENGINE COMPARTMENT CHECK LOCATIONS



HR16DE engine

1. Drive belt location
2. Engine oil filler cap
3. Air cleaner
4. Brake and clutch (if so equipped) fluid reservoir
5. Fusible link
6. Battery
7. Engine coolant reservoir
8. Radiator cap
9. Engine oil dipstick
10. Windshield-washer fluid reservoir

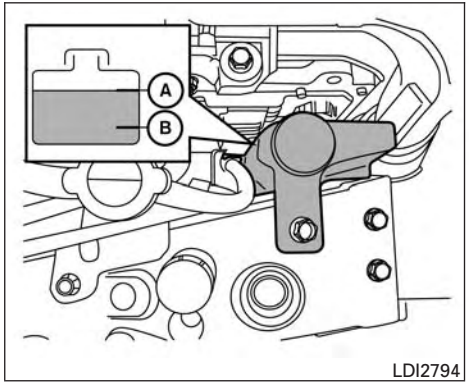
The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year-round antifreeze and coolant protection. The antifreeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

⚠ WARNING

- **Never remove the radiator or 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, refer to "If your vehicle overheats" in the "In case of emergency" section of this manual.**
- **The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a Genuine NISSAN radiator 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), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. For additional information, refer to the ″Maintenance and schedules″ section of this manual.**



LDI2794

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 to the MAX level Ⓐ. If the reservoir is empty, check the coolant level in the radiator **when the engine is cold.** If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir up to the MAX level Ⓐ.

This vehicle contains Genuine NISSAN Long Life Antifreeze/Coolant (blue). The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. For additional information, refer to the “Maintenance and schedules” section of this manual.

If the cooling system frequently requires coolant, it is recommended that you visit a NISSAN dealer for this service.

For additional information on the location of the engine coolant reservoir, refer to “Engine compartment check locations” in this section.

CHANGING ENGINE COOLANT

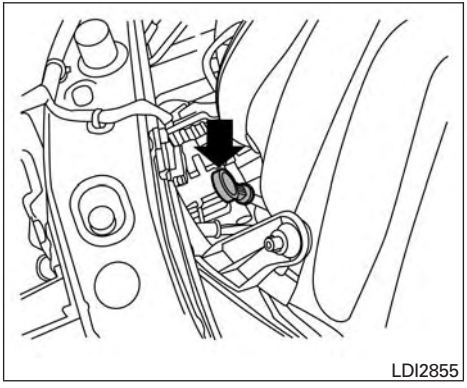
A NISSAN dealer can change the engine coolant. The service procedure can be found in the NISSAN Service Manual.

Improper servicing can result in reduced heater performance and engine overheating.

⚠WARNING

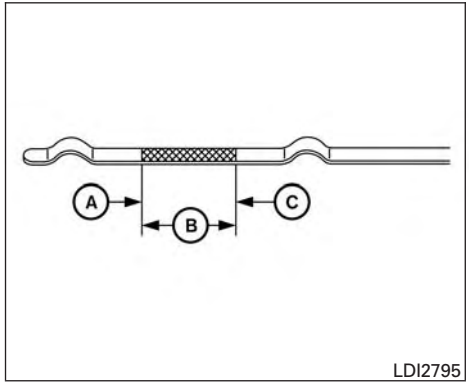
- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **Avoid direct skin contact with used coolant. If skin contact is 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.


LDI2855

CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and let it idle until it reaches operating temperature.
3. Turn off the engine. **Wait more than 10 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick and wipe it clean. Reinsert it all the way.



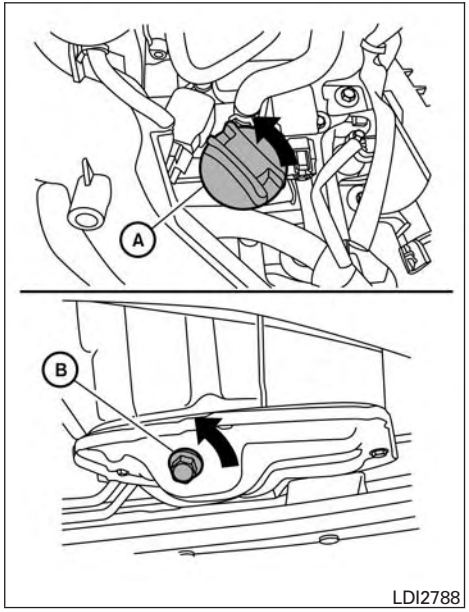
LDI2795

5. Remove the dipstick again and check the oil level. It should be between the H (High) and L (Low) marks Ⓑ. This is the normal operating oil level range. If the oil level is below the L (Low) mark Ⓐ, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill Ⓒ.**
6. Recheck oil level with the dipstick.

It is normal to add some engine oil between oil maintenance intervals 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 the 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.



LDI2788

CHANGING ENGINE OIL

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and let it idle until it reaches operating temperature, then turn it off.
3. Remove the oil filler cap Ⓐ by turning it counterclockwise.
4. Place a large drain pan under the drain plug Ⓑ.
5. Remove the drain plug Ⓑ with a wrench by turning it counterclockwise and completely drain the oil.

   If the oil filter is to be changed, remove and replace it at this time. For additional information, refer to “Changing engine oil filter” in this section.

⚠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.**

⚠CAUTION

- **Be careful not to burn yourself. The engine oil may be hot.**
- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

6. Clean and reinstall the drain plug Ⓑ and a new washer. Securely tighten the drain plug Ⓑ with a wrench. Do not use excessive force.

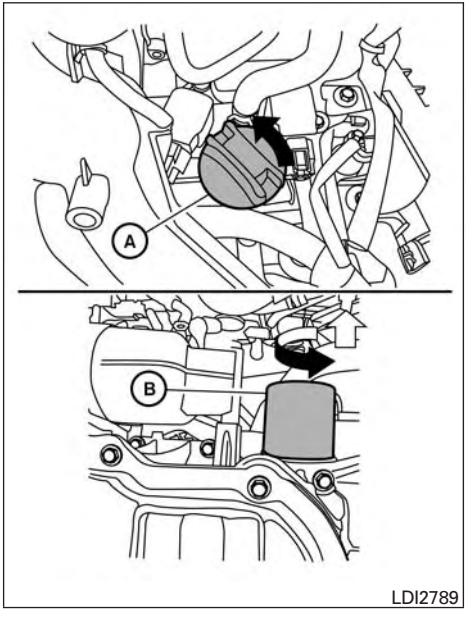
   Drain plug tightening torque:
   25 ft-lb (34 N·m)

7. Refill engine with recommended oil through the oil filler opening, then install the oil filler cap Ⓐ securely.

   For additional information on drain and refill capacity, refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual.

   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 when the proper amount of oil is in the engine.

8. Start the engine. Check for leakage around the drain plug Ⓑ and oil filter. Correct as required.
9. Turn the engine off and wait more than 10 minutes. Check the oil level with the dipstick. Add engine oil if necessary.



CHANGING ENGINE OIL FILTER

1. Park the vehicle on a level surface and apply the parking brake.
2. Turn the engine off.
3. Place a large drain pan under the oil filter Ⓑ.
4. Loosen the oil filter with an oil filter wrench by turning it counterclockwise. Then remove the oil filter by turning it by hand.

⚠CAUTION

Be careful not to burn yourself. The engine oil may be hot.

5. Wipe the engine oil filter sealing 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 engine damage.

6. Coat the gasket on the new filter with clean engine oil .
7. Screw on the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.

   Oil filter tightening torque:
   13 ft-lbs (18 N·m)

8. Start the engine and check for leakage around the oil filter. Correct as required.
9. Turn the engine off and wait more than 10 minutes. Check the oil level. Add engine oil by removing the oil filler cap Ⓐ if necessary.

4-SPEED AUTOMATIC TRANSMISSION FLUID (ATF) (if so equipped)

When checking or replacement of automatic transmission fluid is required, it is recommended that you visit a NISSAN dealer for servicing.

⚠WARNING

- **When the engine is running, keep hands, jewelry and clothing away from any moving parts such as the cooling fan and drive belts.**
- **Automatic transmission fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

BRAKE AND CLUTCH (if so equipped) FLUID

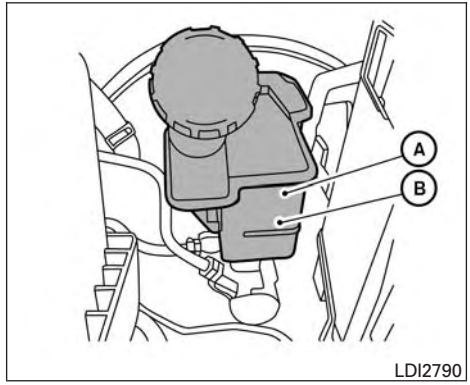
For additional information on brake fluid specification, refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual.

⚠ WARNING

- **Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake and clutch (if so equipped) systems. The use of improper fluids can damage the brake and clutch system and affect the vehicle’s stopping ability.**
- **Clean the filler cap before removing.**
- **Brake and clutch fluid is poisonous and should be stored carefully in marked containers out of reach of children.**

⚠ CAUTION

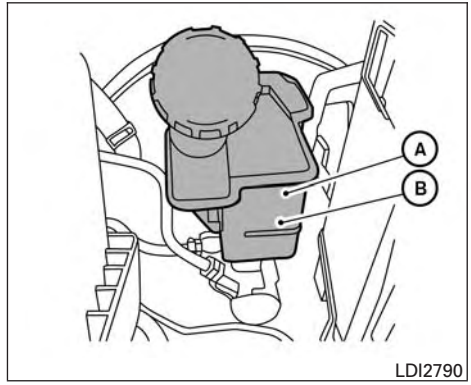
Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.



LDI2790

BRAKE FLUID

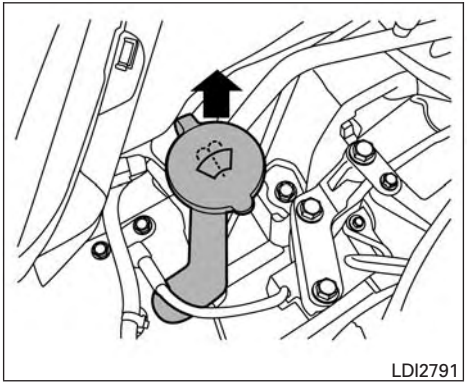
Check the brake fluid level in the reservoir. If the fluid level is below the MIN line Ⓑ, or the brake warning light comes on, add Genuine NISSAN Brake Fluid or equivalent **DOT 3** fluid up to the MAX line Ⓐ. If fluid must be added frequently, the system should be checked. It is recommended that you visit a NISSAN dealer for this service.



LDI2790

CLUTCH (if so equipped) FLUID

Check the fluid level in the reservoir. The brake fluid reservoir is shared with the clutch hydraulic system for manual transmissions. If the level is below the MIN line Ⓑ, or the brake warning light comes on, add Genuine NISSAN Brake Fluid or equivalent **DOT 3** fluid up to the MAX line Ⓐ. If fluid must be added frequently, it is recommended that you visit a NISSAN dealer for servicing.


LDI2791

WINDSHIELD-WASHER FLUID RESERVOIR

Add a washer solvent to the windshield-washer fluid reservoir 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 Fluid 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 fluid 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 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 washer fluid concentrate and water.**

- 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 going to be used for 30 days or longer, disconnect the negative (-) battery terminal cable to prevent discharge.

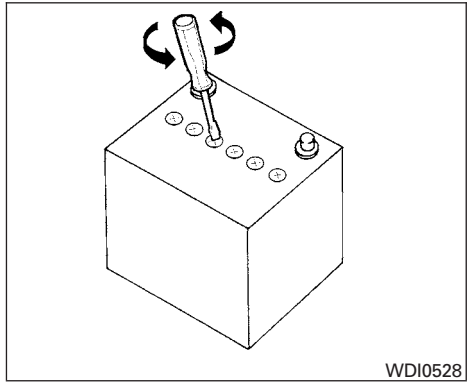
NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

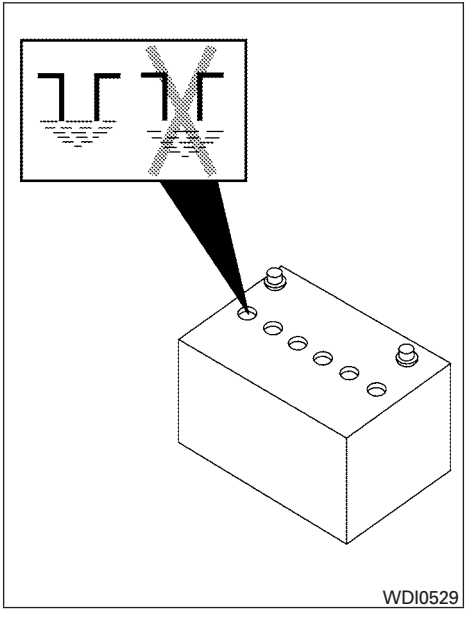
1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)
2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

⚠WARNING

- **Do not expose the battery to flames, 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 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.**
- **Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Do not tip the battery. Keep the vent caps tight and the battery level.**
- **Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.**
- **Keep battery out of the reach of children.**



1. Remove the vent caps with a screwdriver as shown.

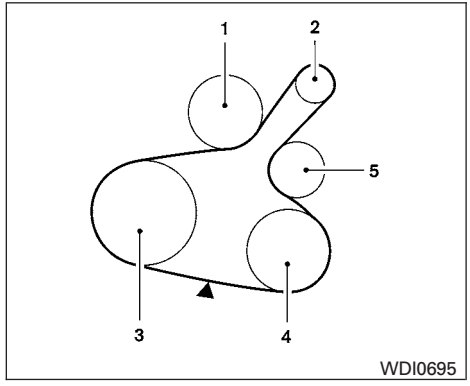


2. Check the fluid level in each cell. If it is necessary to add fluid, add only distilled water to bring the level up to the bottom of the filler opening. **Do not overfill.** Reinstall the vent caps.

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

JUMP STARTING

If jump starting is necessary, refer to “Jump starting” in the “In case of emergency” section of this manual. 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.



HR16DE engine

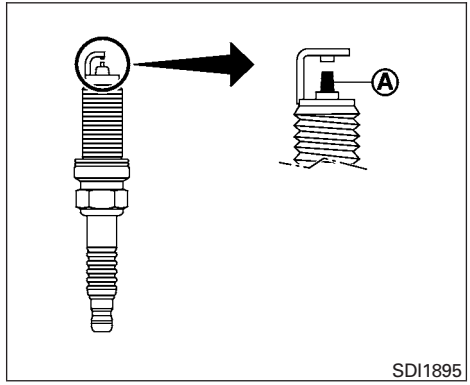
1. Water pump pulley
2. Generator pulley
3. Crankshaft pulley
4. Air conditioner compressor pulley (if so equipped) /Idler pulley (if so equipped)
5. Manual tensioner pulley

▲ Tension checking point

⚠WARNING

Be sure the ignition switch is placed 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.



REPLACING SPARK PLUGS

Platinum-tipped spark plugs

It is not necessary to replace platinum-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 platinum-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.

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.**

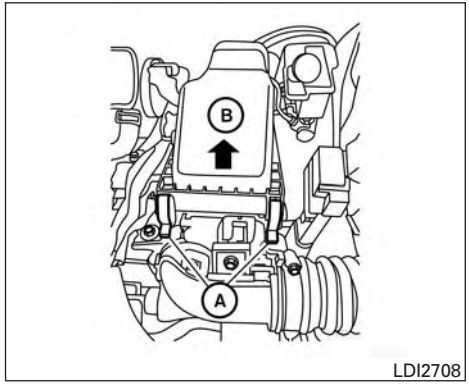
⚠ WARNING

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.



LDI2708

⚠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 viscous paper type filter element should not be cleaned and reused. Replace the air filter according to the maintenance log shown in a separate maintenance booklet.

When replacing the air filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

IN-CABIN MICROFILTER (if so equipped)

The in-cabin microfilter restricts the entry of airborne dust and pollen particles and reduces some objectionable outside odors. The filter is located behind the glove box. For additional information, refer to the ″Maintenance and schedules″ section of this manual for change intervals.

If replacement is required, it is recommended that you visit a NISSAN dealer for this service.

CLEANING

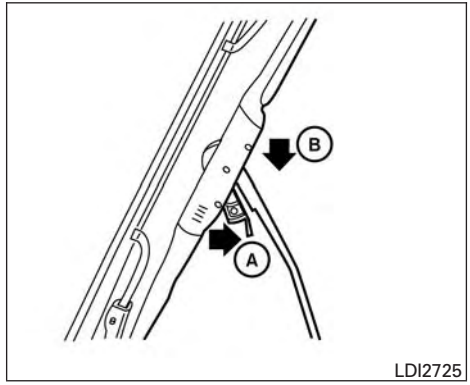
If your windshield is not clear after using the windshield–washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

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.



LDI2725

REPLACING

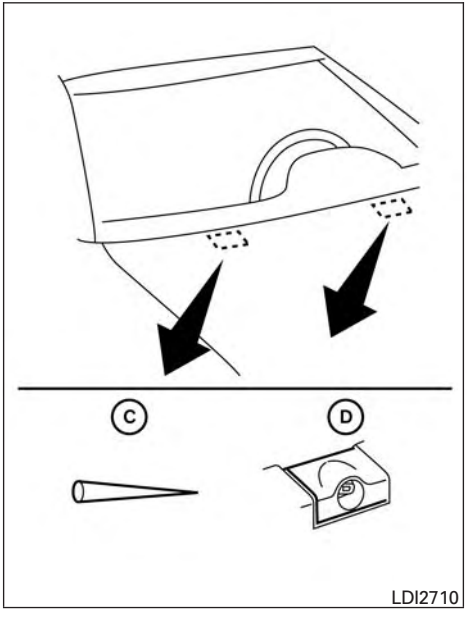
Replace the wiper blades if they are worn.

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.**



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 recommend that you visit a NISSAN dealer for this service.

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 disc-type brakes self-adjust every time the brake pedal is applied. The rear drum-type brakes self-adjust every time the parking brake is applied.

⚠WARNING

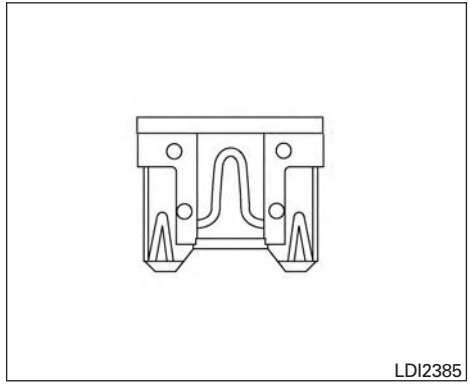
Have your brake system checked if the brake pedal height does not return to normal. It is recommended that you visit a NISSAN dealer for this service.

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.

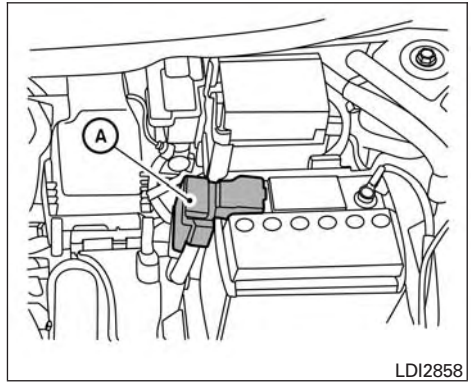
Proper brake inspection intervals should be followed. For additional information regarding brake inspections, refer to the appropriate maintenance schedule information in the ″Maintenance and Schedules″ section of this manual.


LDI2385

If any electrical equipment does not operate, check for an open fuse.

Fuses are used in the passenger 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.



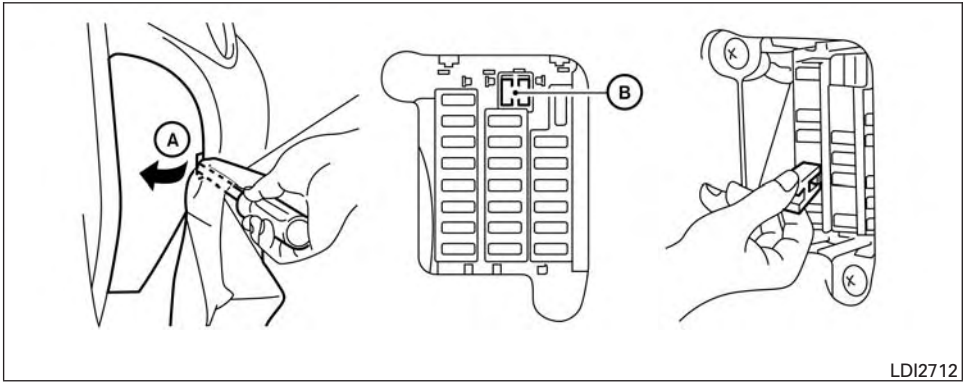
LDI2858

ENGINE COMPARTMENT

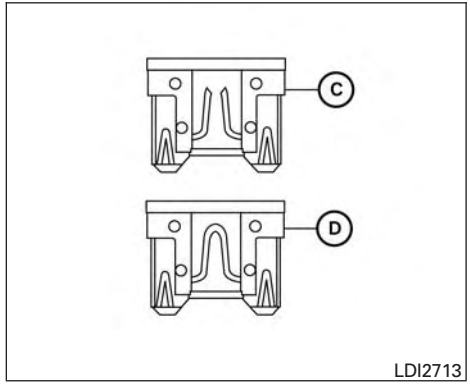
Fusible links

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.



LDI2712



LDI2713

PASSENGER COMPARTMENT

⚠WARNING

Never use a fuse of a higher or lower amperage rating than 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:

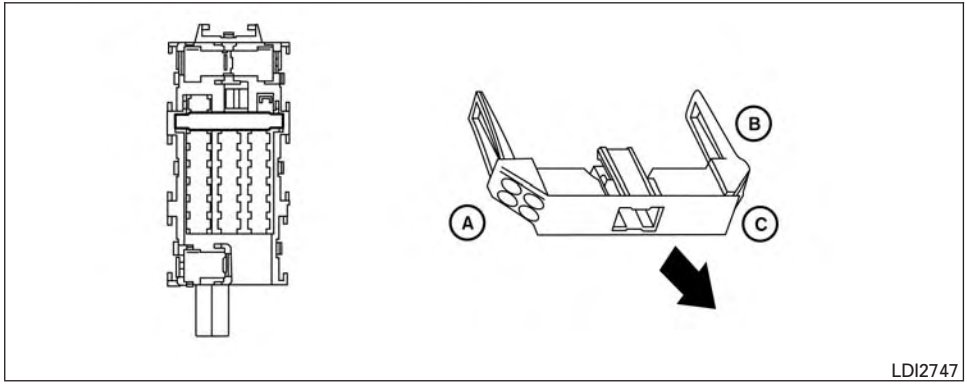
The fuse box is located on the driver's side of the instrument panel.

1. Be sure the ignition switch and the headlight switch are OFF.
2. Remove the fuse box cover Ⓐ with a suitable tool. Use a cloth to avoid damaging the trim.
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 install.

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.



LDI2747

Extended storage switch

If any electrical equipment does not operate, remove the extended storage switch and check for an open fuse.

NOTE:

The extended storage switch is used for long term vehicle storage. Even if the extended storage switch is broken it is not necessary to replace it. Replace only the open fuse in the switch with a new fuse.

How to replace the extended storage switch:

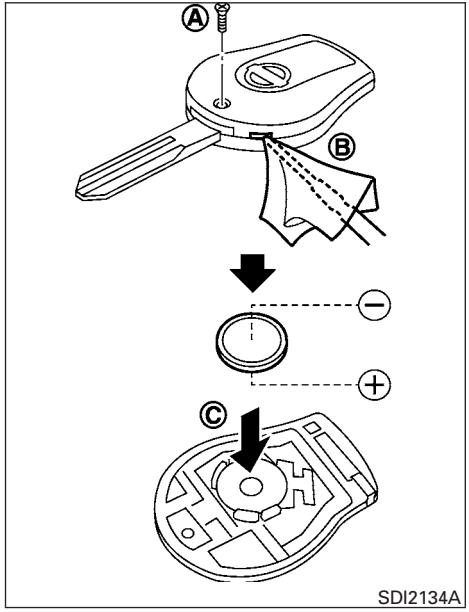
1. To remove the extended storage switch, be sure the ignition switch is in the OFF or LOCK position.
2. Be sure the headlight switch is in the OFF position.
3. Remove the fuse box cover.
4. Pinch the locking tabs Ⓐ and Ⓑ found on each side of the storage switch.
5. Pull the storage switch straight out from the fuse box Ⓒ.

NOTE:

Your vehicle may not be equipped with all fuses listed on the fuse label.

⚠CAUTION

Be careful not to allow children to swallow the battery or removed parts.



KEY FOB (if so equipped)

Replace the battery in the key fob as follows:

1. Remove the screw Ⓐ.
2. Insert a small screwdriver into the slit of the corner Ⓑ and twist it to separate the upper part from the lower part. Use a cloth to protect the casing.
3. Replace the battery with a new one.
   - Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.
   - Make sure that the + side faces the bottom of the case Ⓒ.

Recommended battery: CR1620 or equivalent.

4. Close the lid and install the screw securely.
5. Operate the buttons to check its operation.

If replacement is required, it is recommended that you visit a NISSAN dealer for this service.

If the battery is removed for any reason other than replacement, perform step 5.

- **An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.**
- **The key fob is water-resistant; however, if it does get wet, immediately wipe completely dry.**

- **The operational range of the key fob extends to approximately 10 m (33 ft) from the vehicle. This range may vary with conditions.**

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 of the device.

FCC Notice:

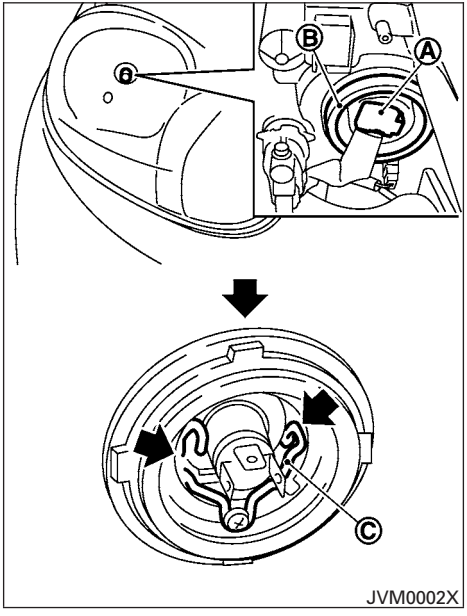
For USA:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 licence-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.

HEADLIGHTS

For additional information on headlight bulb replacement, refer to the instructions outlined in this section.



Replacing the halogen headlight bulb

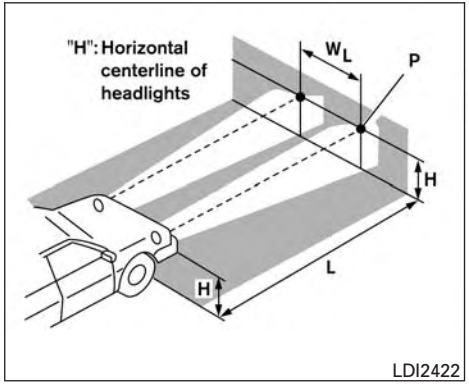
The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. They can be replaced from inside the engine compartment without removing the headlight assembly.

⚠CAUTION

- **High-pressure halogen gas is sealed inside the bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **Aiming should not be necessary after replacing the H4 bulb. When aiming adjustment is necessary, it is recommended that you visit a NISSAN dealer for this service.**
- **Do not leave the headlight assembly open without a bulb installed for a long period of time. Dust, moisture, smoke, etc. entering the headlight body may affect bulb performance. Remove the bulb from the headlight assembly just before a replacement bulb is installed.**
- **Only touch the base when handling the bulb. Never touch the glass envelope. Touching the glass could significantly affect bulb life and/or headlight performance.**
- **Use the same number and wattage as shown in the chart.**

1. Disconnect the battery negative cable.
2. Disconnect the electrical connector Ⓐ from the rear end of the bulb.
3. Pull off the rubber cap Ⓑ.
4. Push and turn the retaining pin Ⓒ to loosen it.
5. Remove the headlight bulb. Do not shake or rotate the bulb when removing it.
6. Install the new bulb in the reverse order of removal.

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 that you visit a NISSAN dealer for servicing.

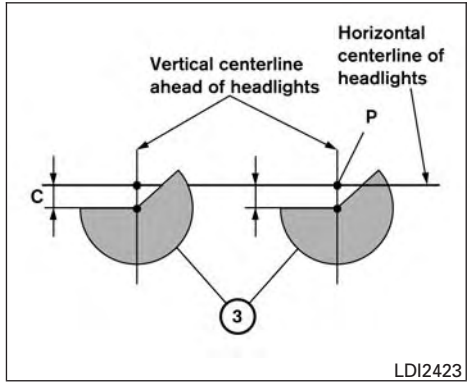


HEADLIGHT AIM

The aim of the headlights may require adjustment when replacing the headlight assembly or when the vehicle's front body has been repaired. When the adjustment is required, follow these procedures, or have them adjusted by a NISSAN dealer.

Before performing the headlights aim adjustment:

- Check the pressure of all tires for the correct inflation pressure.
- Check that the tools and spare tire are stowed securely.
- Check that the fuel and lubricants levels are filled to correct capacities.
- Unload all luggage and other items, which may influence the vehicle's height level.
- Load a weight on the driver's seat that is equivalent to the weight of a driver.



Stopping the vehicle

1. Park the vehicle on a level surface vertical to the wall or screen to which the headlights will be projected.
2. Move the vehicle close to the wall to determine the point P as shown in the illustration.

   The point P must be:

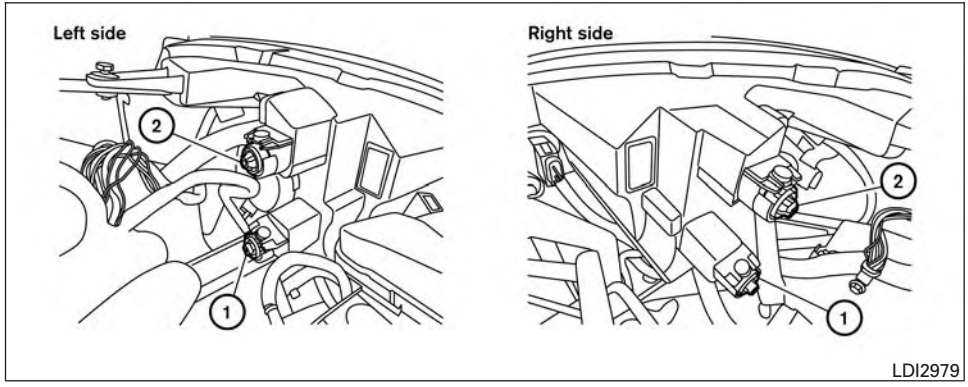
   "H" is the distance between the headlight's center point to the level surface.

   "WL" is the distance between the left and right headlights' centers.
3. Mark point P on the wall or screen.

4. Back up the vehicle 5,000 mm (197.0 in, 16.4 ft) straight away from the wall or screen.

   ”L” is the distance between the wall or screen to the vehicle’s front bumper.

5. Apply the parking brake.



Adjusting the headlight aim

Be sure that the vehicle is parked directly vertical to the wall on which the headlights will be projected.

1. Turn on the headlight low beam
2. Open the hood.
3. Turn the aiming adjustment screws ① ②, located inside the engine compartment, until the headlight projection, on the wall or screen, does not move.

NOTE:

The aim adjustment screws are located on each side of the headlights. The lower screw ① is used to adjust the horizontal aim. The upper screw ② is used to adjust the vertical aim.

The screws can be turned indefinitely in each direction. Therefore be sure to observe the headlight projection movement to determine the necessary turning amount.

4. Turn the lower screws ① in the opposite direction until the headlight projection becomes 70 mm (2.76 in) below the point P. Once the left headlight has been adjusted, perform right side adjustment as well.

   ”C” is the distance between point P and point ③.

5. Turn the upper screws ② in the opposite direction until the horizontal headlight projection’s turn point ③ is directly below the point P. Once the left headlight has been adjusted, perform right side adjustment as well.

FOG LIGHTS (if so equipped)
Replacing the fog light bulb

If replacement is required, it is recommended that you visit a NISSAN dealer for this service.

⚠ CAUTION

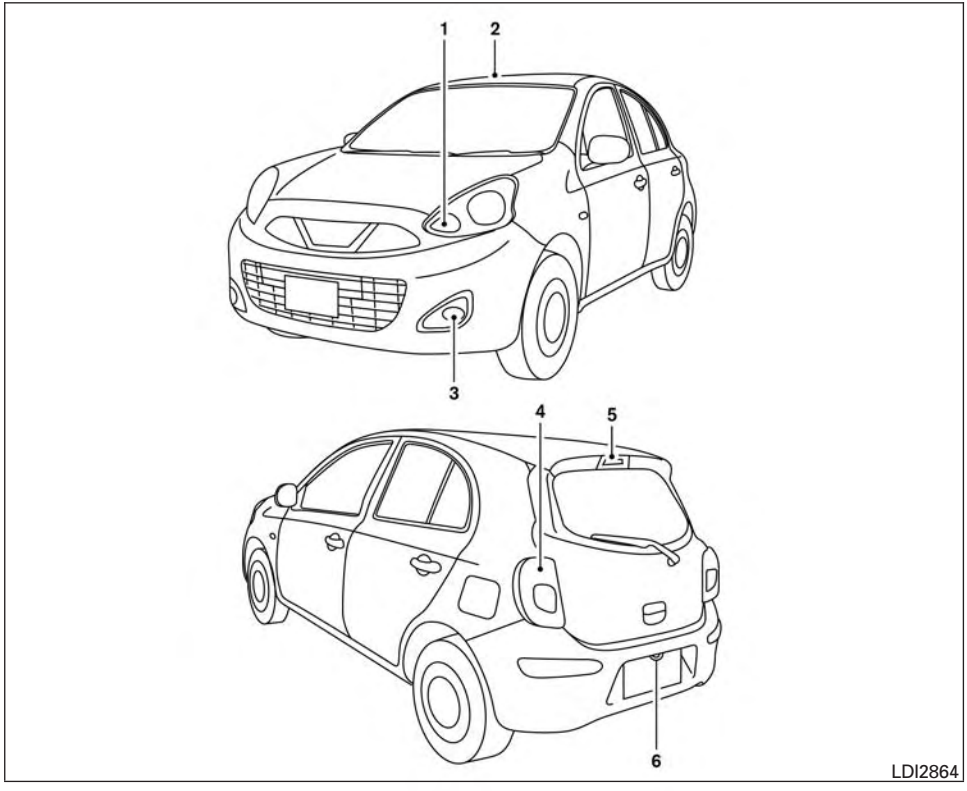
- **High pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **When handling the bulb, do not touch the glass envelope.**
- **Use the same number and wattage as originally installed as shown in the chart.**
- **Do not leave the bulb out of the fog light for a long period of time as dust, moisture and smoke may enter the fog light body and affect the performance of the fog light.**

EXTERIOR AND INTERIOR LIGHTS

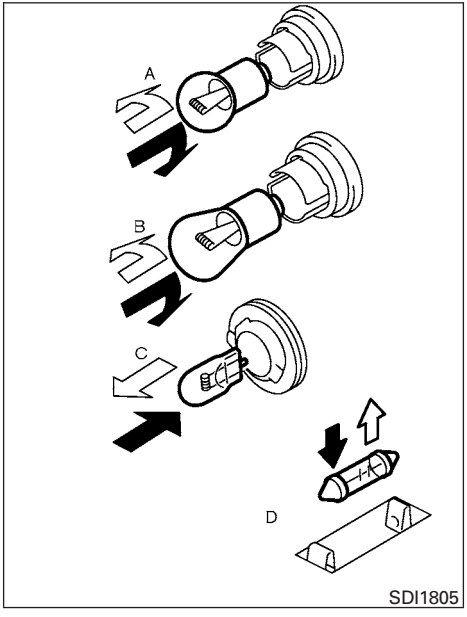
Item	Wattage (W)	Bulb No.*
Headlight assembly		
High/Low (Halogen)/Daytime running light	60/55	H4
Turn*	28	3457NAK
Park*	5	W5W
Side marker*	5	W5W
Fog light (if so equipped)*	55	H11
Interior light	5	W5W
Cargo light	5	12V5W
High-mounted stop light type A (if so equipped)	16	W16W
High-mounted stop light type B (if so equipped)*	—	—
Rear combination light*		
Turn signal	21	WY21W
Stop/Tail	21/5	W21/5W
Backup (reversing)	16	W16W
License plate light	5	W5W

Always check with the Parts Department at a NISSAN dealer for the latest parts information.

* If replacement is required it is recommended that you visit a NISSAN dealer for this service.



1. Headlight assembly
2. Interior light
3. Fog light (if so equipped)
4. Rear combination light
5. High-mounted stop light
6. License plate light

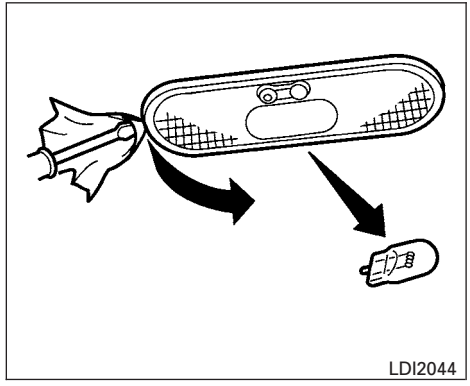


Indicates bulb removal

Indicates bulb installation

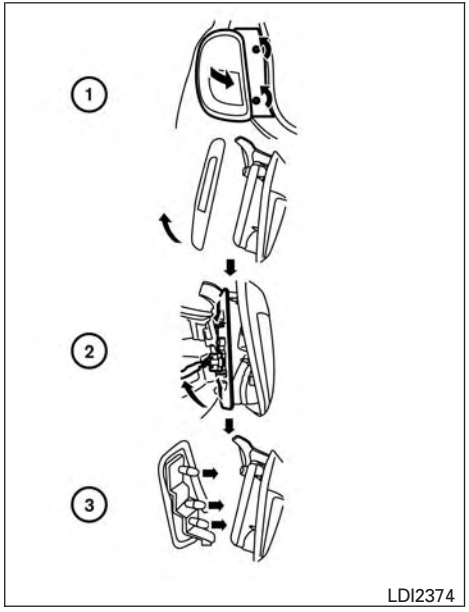
Replacement procedures

All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens, lamp and/or cover.



Interior light

Use a cloth to protect the housing.



Rear combination light

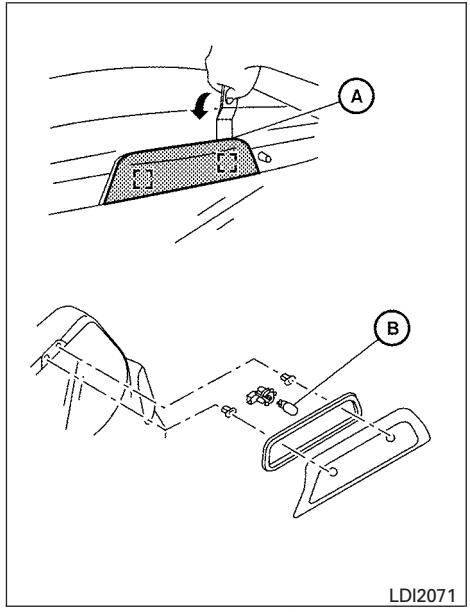
To replace the bulbs in the rear combination light:

① Remove the rear combination light mounting bolts.

② Carefully remove the gasket protector.

③ Pull rear combination light toward the rear of the vehicle and disconnect the rear combination light connector to remove the assembly.

Remove bulbs by turning counterclockwise and replace with new bulbs.

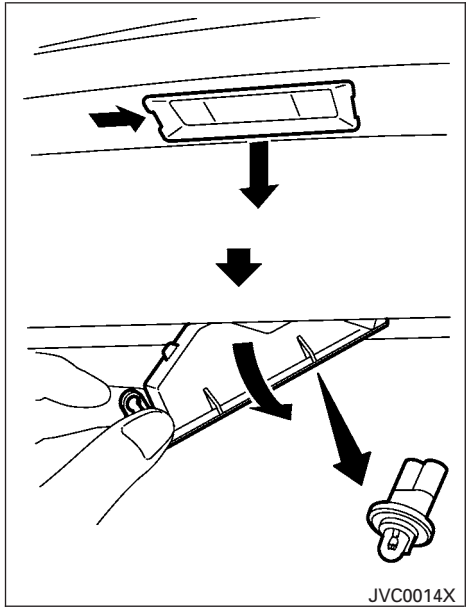


High-mounted stop light (if so equipped):

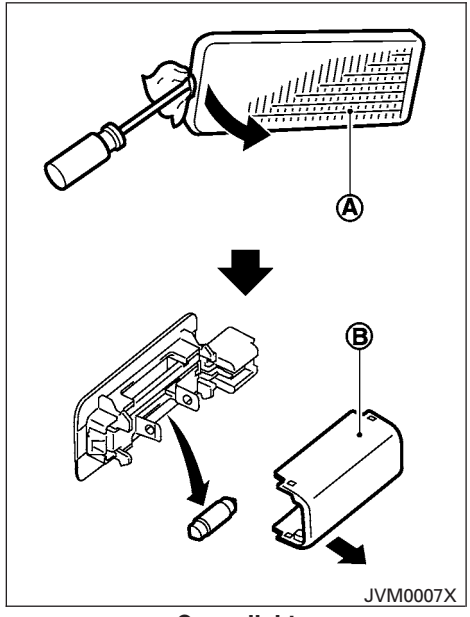
To replace the high-mounted stop light bulb

1. Disconnect the negative (-) battery cable.

2. Remove the lens cover of the high-mounted stop light by inserting an appropriate remover tool between the top of the lens cover (the side not touching the glass of the rear door) and the vehicle Ⓐ. Pull toward you.
3. After the cover is removed, disconnect the harness connector and remove the high-mounted stop light bulb Ⓑ by rotating it counterclockwise.
4. Replace with new bulb and reinstall cover.



License plate light



Cargo light

To replace the luggage compartment light bulb:

1. Remove the light Ⓐ with a suitable tool.
2. Remove the cover Ⓑ.
3. Replace the bulb.

If you have a flat tire, refer to “Flat tire” in the “In case of emergency” section of this manual.

TIRE PRESSURE

Tire inflation pressure

Check the tire pressures (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on 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:

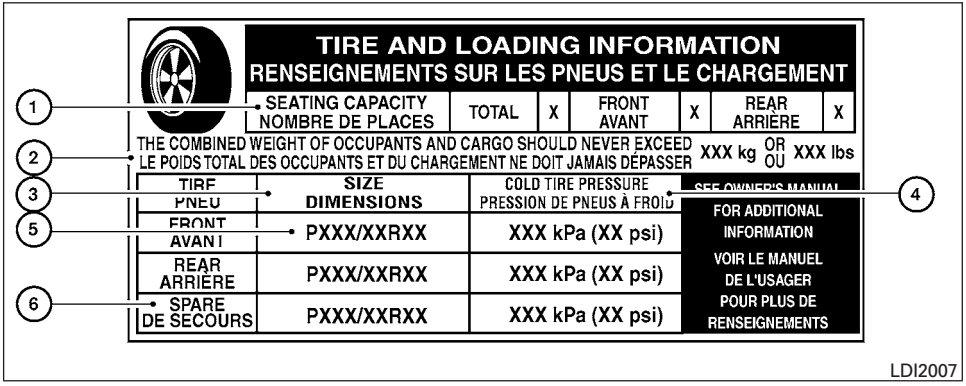
- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

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 1.6 km (1 mile) at moderate speeds.

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 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.**



LDI2007

Tire and loading information label

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

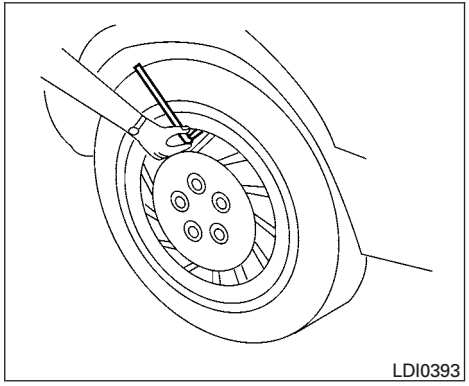
② Vehicle load limit: Refer to “Vehicle loading information” in the “Technical and consumer information” section of this manual.

③ Tire size – refer to “Tire labeling” in this section.

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 Original tire size: The size of the tires originally installed on the vehicle at the factory.

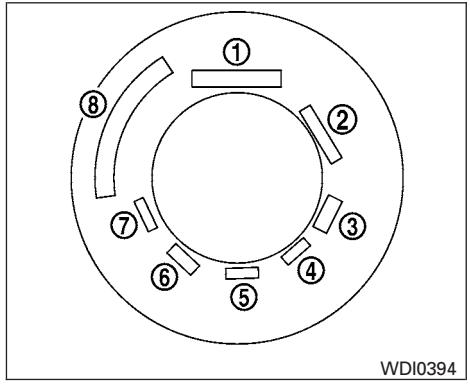
⑥ Spare tire size.



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.

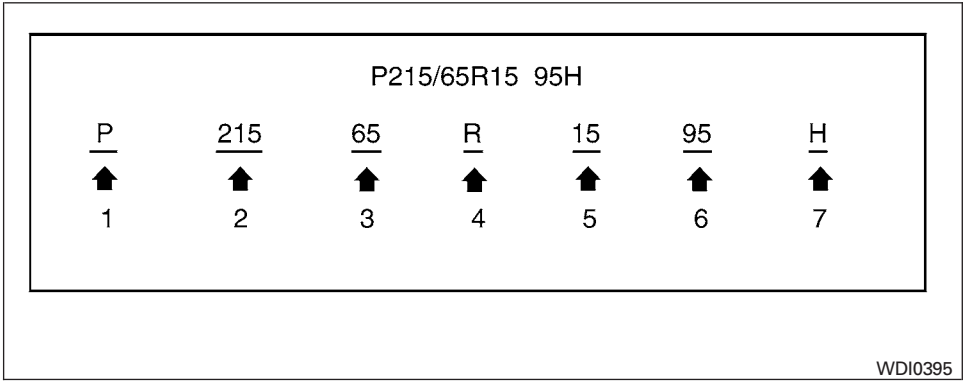
Size	Cold Tire Inflation Pressure
Front Original Tire: P185/60R15 185/55R16	230 kPa, 33 PSI
Rear Original Tire: P185/60R15 185/55R16	230 kPa, 33 PSI
Spare: T125/70D15	420 KPa, 60 PSI



Example

TIRE LABELING

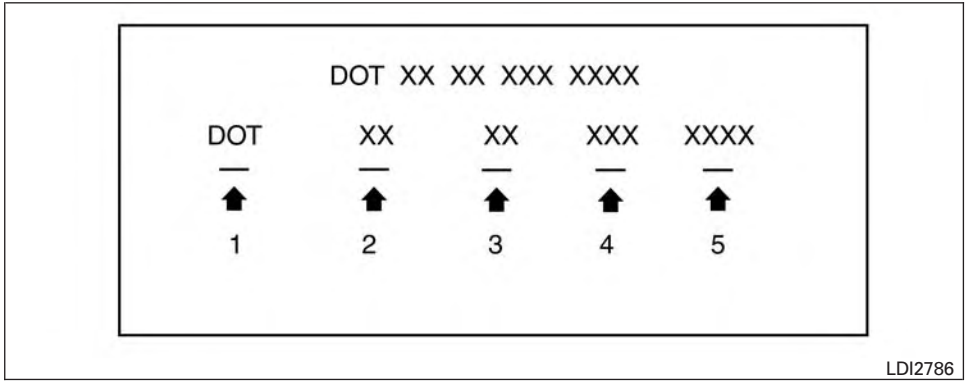
Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to 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. You may not find this information on all tires because it is not required by law.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.



Example

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.

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

⚠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.**
- **For additional information regarding tires, refer to "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

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.

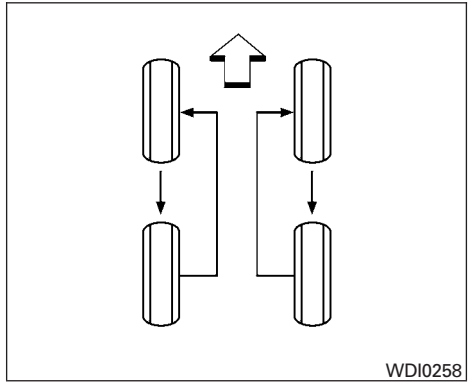
If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some Canadian provinces prohibit their use. Check local, state and provincial 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

⚠ CAUTION

Tire chains/cables should not be installed on 185/60R15 or 185/55R16 tires. Installation of the tire chains/cables on 185/60R15 or 185/55R16 tires will cause damage to the vehicle. Please use snow tires instead of chains/cables if needed. Never install tire chains on a TEMPORARY USE ONLY spare tire.



CHANGING WHEELS AND TIRES

Tire rotation

NISSAN recommends rotating the tires every 8,000 km (5,000 miles).

For additional information on tire replacing procedures, refer to “Flat tire” in the “In case of emergency” section in this manual.

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

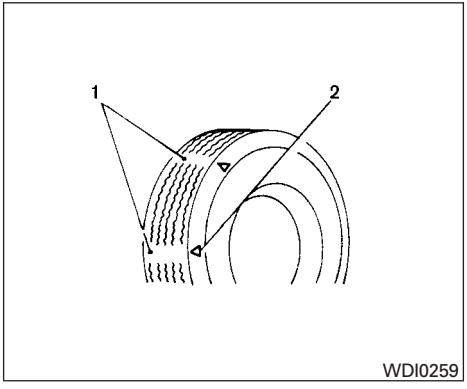
Wheel nut tightening torque:

113 N·m (83 ft-lb)

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 1,000 km (600 miles) (also in cases of a flat tire, etc.)**
- **Do not include the spare tire in the tire rotation.**
- **For additional information regarding tires, refer to “Tire Safety Information” 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, 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 may result in serious personal injury. If it is necessary to repair the spare tire, it is recommended that you visit a NISSAN dealer for this service.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" or 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. Recommended types and sizes are shown in "Wheels and tires" in the "Technical and consumer information" section of this manual.

⚠ 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, 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 and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. For additional information on wheel off-set dimensions, refer to "Wheels and tires" in the "Technical and consumer information" section of this manual.**
- **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.**

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.

- **For additional information regarding tires, refer to "Tire Safety Information" in the Warranty Information Booklet.**

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)

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). Use tire chains only on the front (original) tires.**
- **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.**

9 Maintenance and schedules

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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 completely qualified to work on NISSAN vehicles **before** work begins.

You can be confident that a NISSAN dealer's service department can perform the service needed to meet the maintenance requirements on your vehicle.

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 a NISSAN dealer do it 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" in the "Do-it-yourself" section of this manual.

EXPLANATION OF GENERAL MAINTENANCE ITEMS

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.

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*: Tires should be rotated every 8,000 km (5,000 miles).

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) transmitter components: Replace the TPMS transmitter grommet seal, valve core and cap 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 “Tire Safety Information” (Canada) or “Important Tire Safety Information” (US) 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.

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 (if so equipped): 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* (for serviceable batteries): Check the fluid level in each cell. It should be between the MAX and MIN lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

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 and clutch (if so equipped) fluid level*: Make sure that the brake and clutch fluid levels are 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 belts are 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.

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, refer to “Exhaust gas (carbon monoxide)” in the “Starting and driving” section of this manual.

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.

EXPLANATION OF SCHEDULED MAINTENANCE ITEMS

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, refer to the “Appearance and care” section of this manual.

Windshield-washer fluid*: Check that there is adequate fluid in the reservoir.

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, refer to “General maintenance” in this section.

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, refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual.

EMISSION CONTROL SYSTEM MAINTENANCE:

Drive belts*:

Check engine drive belts for wear, fraying or cracking and for proper tension. Replace any damaged drive belts.

Engine air 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, refer to “Engine cooling system” in the “Do-it-yourself” section of this manual.)

NOTE: Mixing any other type of coolant or the use of non-distilled water may reduce the recommended service interval of the coolant.

Engine oil and oil filter:

Replace engine oil and oil filter at the specified intervals. For recommended oil grade and viscosity refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual.

Engine valve clearance*:

Inspect only if valve noise increases. Adjust valve clearance if necessary.

Evaporative emissions control vapour lines*:

Check vapour lines for leaks or looseness. Tighten connections or replace parts as necessary.

Fuel filter:

Periodic maintenance is not required. (in-tank type filter)

Fuel lines*:

Check the fuel hoses, piping and connections for leaks, looseness, or deterioration. 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 and cables:

Visually inspect for proper installation. Check for chafing, cracks, deterioration, and signs of leaking. Replace any deteriorated or damaged parts immediately.

Brake pads, rotors, drums and linings:

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.

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:

Tires should be rotated every 8,000 km (5,000 miles) according to the instructions under “General maintenance” in this section. When rotating tires, check for damage and uneven wear. Replace if necessary.

Transmission fluid/oil:

Visually inspect for signs of leakage at specified intervals.

If towing a trailer, using a camper or car-top carrier, or driving on rough or muddy roads:

- Replace the manual transaxle gear oil every 32,000 km (20,000 miles) or 24 months.
- Replace the CVT fluid every 96,000 km (60,000 miles) or request the dealer to inspect the fluid deterioration data using a CONSULT. If the deterioration data is more than 210000, replace the CVT fluid. .

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 192,000 km (120,000 miles)/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 192,000 km (120,000 miles)/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 8 km (5 miles).
- Repeated short trips of less than 16 km (10 miles) 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 taxi or door-to-door delivery use.
- Driving in dusty conditions.
- Driving on rough, muddy or salt spread roads.

NOTE:

For vehicles operated in Canada, both standard and severe maintenance items should be performed at every interval.

The following tables show the standard maintenance schedule. Depending upon weather and atmospheric conditions, varying road surfaces, individual driving habits and vehicle usage, additional or more frequent maintenance may be required. **After 192,000 km (120,000 miles)/144 months, continue maintenance at the same mileage/time interval.**

EMISSION CONTROL SYSTEM MAINTENANCE

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace

MAINTENANCE OPERATION Perform at number of kilometers, miles or months, whichever comes first.	km x 1,000 (miles x 1,000) Months	MAINTENANCE INTERVAL											
		8 (5) 6	16 (10) 12	24 (15) 18	32 (20) 24	40 (25) 30	48 (30) 36	56 (35) 42	64 (40) 48	72 (45) 54	80 (50) 60	88 (55) 66	96 (60) 72
Drive belts	See NOTE (1)								I*		I*		I*
Air cleaner filter	See NOTE (2)						R						R
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R
Engine coolant*	See NOTE (4)(5)												
EVAP vapour lines					I*				I*				I*
Fuel lines					I*				I*				I*
Fuel filter	See NOTE (3)												
Spark plugs (Iridium - tipped type)	See NOTE (6)	Replace every 168,000 km (105,000 miles)											
Intake and exhaust valve clearances	See NOTE (7)												

MAINTENANCE OPERATION Perform at number of kilometers, miles or months, whichever comes first.	km x 1,000 (miles x 1,000) Months	MAINTENANCE INTERVAL											
		104 (65) 78	112 (70) 84	120 (75) 90	128 (80) 96	136 (85) 102	144 (90) 108	152 (95) 114	160 (100) 120	168 (105) 126	176 (110) 132	184 (115) 138	192 (120) 144
Drive belts	See NOTE (1)		I*		I*		I*		I*		I*		I*
Air cleaner filter	See NOTE (2)						R						R
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R
Engine coolant*	See NOTE (4)(5)												
EVAP vapour lines					I*				I*				I*
Fuel lines					I*				I*				I*
Fuel filter	See NOTE (3)												
Spark plugs (Iridium - tipped type)	See NOTE (6)	Replace every 168,000 km (105,000 miles)											
Intake and exhaust valve clearances	See NOTE (7)												

NOTE:

(1) After 64,000 km (40,000 miles) or 48 months, inspect every 16,000 km (10,000 miles) or 12 months. Replace the drive belts if found damaged.
(2) If operating mainly in dusty conditions, more frequent maintenance may be required.
(3) Periodic maintenance is not required.
(4) First replacement interval is 168,000 km (105,000 miles) or 84 months. After first replacement, replace every 120,000 km (75,000 miles) or 60 months.
(5) Use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with proper mixture ration of 50% antifreeze and 50% demineralized or distilled water. Mixing any other type of coolant or the use of non-distilled water may reduce the life expectancy of the factory fill coolant.
(6) For MRA8DE:
Replace spark plug when the plug gap exceeds 1.35 mm (0.053 in) even within specified periodic replacement mileage.
For MR16DDT:
Replace spark plug when the plug gap exceeds 1.1 mm (0.043 in) even within specified periodic replacement mileage.
(7) Periodic maintenance is not required. However, if valve noise increased, inspect valve clearance.

*** 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.**

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace,

MAINTENANCE OPERATION Perform at number of kilometers, miles or months, whichever comes first.	km x 1,000 (miles x 1,000) Months	MAINTENANCE INTERVAL											
		8 (5) 6	16 (10) 12	24 (15) 18	32 (20) 24	40 (25) 30	48 (30) 36	56 (35) 42	64 (40) 48	72 (45) 54	80 (50) 60	88 (55) 66	96 (60) 72
Brake lines and cables			I		I		I		I		I		I
Brake pads, rotors, drum and linings ★			I		I		I		I		I		I
Brake fluid ★					R				R				R
CVT fluid	See NOTE (1)		I		I		I		I		I		I
Manual transmission gear oil	See NOTE (2)		I		I		I		I		I		I
Steering gear and linkage, axle and suspension parts ★					I				I				I
Tire rotation	See NOTE (3)												
Front drive shaft boots ★			I		I		I		I		I		I
Exhaust system ★					I				I				I
In-cabin microfilter				R			R			R			R
NISSAN Intelligent Key® battery				R			R			R			R

MAINTENANCE OPERATION Perform at number of kilometers, miles or months, whichever comes first.	km x 1,000 (miles x 1,000) Months	MAINTENANCE INTERVAL											
		104 (65) 78	112 (70) 84	120 (75) 90	128 (80) 96	136 (85) 102	144 (90) 108	152 (95) 114	160 (100) 120	168 (105) 126	176 (110) 132	184 (115) 138	192 (120) 144
Brake lines and cables			I		I		I		I		I		I
Brake pads, rotors, drum and linings ★			I		I		I		I		I		I
Brake fluid ★					R				R				R
CVT fluid	See NOTE (1)		I		I		I		I		I		I
Manual transmission gear oil	See NOTE (2)		I		I		I		I		I		I
Steering gear and linkage, axle and suspension parts ★					I				I				I
Tire rotation	See NOTE (3)												
Front drive shaft boots ★			I		I		I		I		I		I
Exhaust system ★					I				I				I
In-cabin microfilter				R			R			R			R
NISSAN Intelligent Key® battery				R			R			R			R

NOTE:

Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".
(1) If towing a trailer, using a camper or a car-top carrier or driving on rough or muddy roads, inspect CVT fluid deterioration at NISSAN dealer every 96,000 km (60,000 miles), then change CVT fluid if necessary. And if the inspection is not performed, change (not just inspect) CVT fluid every 96,000 km (60,000 miles).
(2) If towing a trailer, using a camper or car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 32,000 km (20,000 miles) or 24 months.
(3) For additional information, refer to "General maintenance" in this section.

MAINTENANCE UNDER SEVERE OPERATING CONDITIONS

The maintenance intervals shown on the preceding pages are for normal operating conditions. If the vehicle is mainly operated under severe driving conditions as shown below, more frequent maintenance must be performed on the following items as shown in the table.

SEVERE DRIVING CONDITIONS

- Repeated short trips of less than 8 km (5 miles).
- Repeated short trips of less than 16 km (10 miles) 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 distance, such as taxi or door-to-door delivery use.
- Driving in dusty conditions.
- Driving on rough, muddy or salt spread roads.

Maintenance operation: Inspect = Inspect and correct or replace as necessary.

Maintenance item	Maintenance operation	Maintenance interval
Brake fluid	Replace	Every 16,000 km (10,000 miles) or 12 months
Brake pads, rotors, drum and lining	Inspect	Every 8,000 km (5,000 miles) or 6 months
Steering gear & linkage, axle & suspension parts	Inspect	Every 8,000 km (5,000 miles) or 6 months
Front drive shaft boots	Inspect	Every 8,000 km (5,000 miles) or 6 months
Exhaust system	Inspect	Every 8,000 km (5,000 miles) or 6 months

8,000 km (5,000 Miles) or 6 Months Dealer Name: Date: Mileage: Dealer Stamp:	**16,000 km (10,000 Miles) or 12 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**24,000 km (15,000 Miles) or 18 Months** Dealer Name: Date: Mileage: Dealer Stamp:
32,000 km (20,000 Miles) or 24 Months Dealer Name: Date: Mileage: Dealer Stamp:	**40,000 km (25,000 Miles) or 30 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**48,000 km (30,000 Miles) or 36 Months** Dealer Name: Date: Mileage: Dealer Stamp:
56,000 km (35,000 Miles) or 42 Months Dealer Name: Date: Mileage: Dealer Stamp:	**64,000 km (40,000 Miles) or 48 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**72,000 km (45,000 Miles) or 54 Months** Dealer Name: Date: Mileage: Dealer Stamp:

80,000 km (50,000 Miles) or 60 Months Dealer Name: Date: Mileage: Dealer Stamp:	**88,000 km (55,000 Miles) or 66 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**96,000 km (60,000 Miles) or 72 Months** Dealer Name: Date: Mileage: Dealer Stamp:
104,000 km (65,000 Miles) or 78 Months Dealer Name: Date: Mileage: Dealer Stamp:	**112,000 km (70,000 Miles) or 84 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**120,000 km (75,000 Miles) or 90 Months** Dealer Name: Date: Mileage: Dealer Stamp:
128,000 km (80,000 Miles) or 96 Months Dealer Name: Date: Mileage: Dealer Stamp:	**136,000 km (85,000 Miles) or 102 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**144,000 km (90,000 Miles) or 108 Months** Dealer Name: Date: Mileage: Dealer Stamp:

152,000 km (95,000 Miles) or 114 Months Dealer Name: Date: Mileage: Dealer Stamp:	**160,000 km (100,000 Miles) or 120 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**168,000 km (105,000 Miles) or 126 Months** Dealer Name: Date: Mileage: Dealer Stamp:
176,000 km (110,000 Miles) or 132 Months Dealer Name: Date: Mileage: Dealer Stamp:	**184,000 km (115,000 Miles) or 138 Months** Dealer Name: Date: Mileage: Dealer Stamp:	**192,000 km (120,000 Miles) or 144 Months** Dealer Name: Date: Mileage: Dealer Stamp:

MEMO

10 Technical and consumer information

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RECOMMENDED FLUIDS/ LUBRICANTS AND CAPACITIES

The following are approximate capacities. The actual refill capacities may be slightly different. When refilling, follow the procedure described in the "Do-it-yourself" section to determine the proper refill capacity.

Fluid type		Capacity (approximate)			Recommended Fluids/Lubricants
		Metric Measure	US Measure	Imperial Measure	
Fuel		41 L	10-7/8 gal	9 gal	For additional information, refer to "Fuel recommendation" in this section.
Engine oil*1 Drain and refill *1: For additional information, refer to "Engine oil" in the "Do-it-yourself " section in this manual.	With oil filter change	3.5 L	3-3/4 qt	3-1/8 qt	▪ Genuine "Nissan Motor Oil 5W-30 SN" is recommended. ▪ If the above motor oil is not available, use an equivalent motor oil that matches the above grade and viscosity. For additional information, refer to "Engine oil and oil filter recommendations" in this section. ▪ As an alternative to this recommended oil, SAE 5W-30 or SAE 10W-30 conventional petroleum based oils may be used and meet all specifications and requirements necessary to maintain the NISSAN New Vehicle Limited Warranty.
	Without oil filter change	3.2 L	3-3/8 qt	2-7/8 qt	
Engine coolant with reservoir	With automatic transmission	6.6 L	1-3/4 gal	1-1/2 gal	▪ Pre-diluted Genuine NISSAN Long Life Anti-freeze/ Coolant (blue) or equivalent
	With manual transmission	6.7 L	1-3/4 gal	1-1/2 gal	
Manual transmission gear oil		—	—	—	▪ Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85 or equivalent ▪ If Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi is not available, API GL-4, Viscosity SAE 75W-85 may be used as a temporary replacement. However, use Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi as soon as it is available.
Automatic transmission fluid		—	—	—	▪ Genuine NISSAN Matic S ATF ▪ Using automatic transmission fluid other than Genuine NISSAN Matic S ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the NISSAN New Vehicle Limited Warranty.
Brake and clutch (if so equipped) fluid		—	—	—	▪ Genuine NISSAN Super Heavy Duty Brake Fluid*2 or equivalent DOT 3 *2: Available in mainland U.S.A. through a NISSAN dealer.
Multi-purpose grease		—	—	—	▪ NLGI No. 2 (Lithium soap base)

Fluid type	Capacity (approximate)			Recommended Fluids/Lubricants
	Metric Measure	US Measure	Imperial Measure	
Air conditioning system refrigerant	—	—	—	▪ HFC-134a (R-134a) ▪ For additional information, refer to “Air conditioner system (if so equipped) refrigerant and oil recommendations” in this section.
Air conditioning system oil	—	—	—	▪ Genuine NISSAN A/C System Oil Type DH-PR or equivalent ▪ For additional information, refer to “Air conditioner system (if so equipped) refrigerant and oil recommendations” in this section.
Windshield-washer fluid	3.5 L	7/8 gal	3/4 gal	▪ Genuine NISSAN Windshield Washer Concentrate Cleaner & Anti-freeze or equivalent

FUEL RECOMMENDATION

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠CAUTION

- **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.**

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

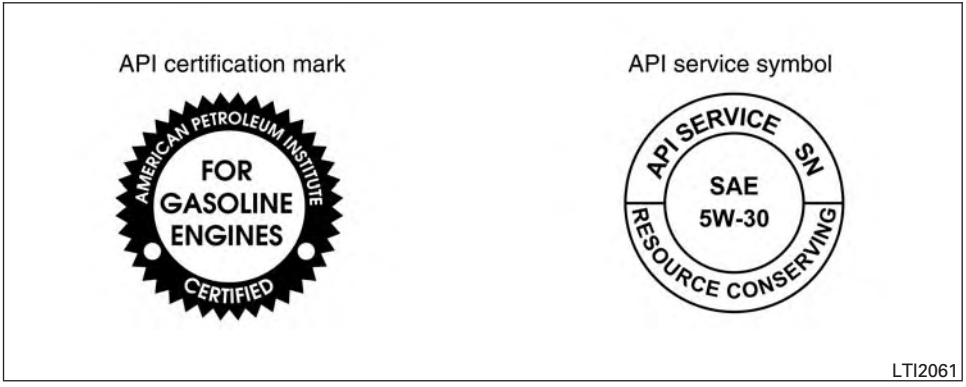
NISSAN does not recommend the use of any aftermarket fuel additives (for example, fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvents or similar ingredients 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, refer to “Recommended fluids/lubricants and capacities” in this section. 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
- towing a trailer
- stop and go commuting

For additional information, refer to the “Maintenance and schedules” section of this manual.

AIR CONDITIONER SYSTEM (if so equipped) REFRIGERANT AND OIL RECOMMENDATIONS

The air conditioner system in your NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the oil, NISSAN A/C system oil Type DH-PR 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 HFC-134a (R-134a) 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. A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioner system refrigerant.

It is recommended that you visit a NISSAN dealer when servicing your air conditioner system.

SPECIFICATIONS

ENGINE

Model		HR16DE
Type		Gasoline, 4-cycle, DOHC
Cylinder arrangement		4-cylinder, inline
Bore x Stroke	mm (in)	78.0 x 83.6 (3.071 x 3.291)
Displacement	cm^3 (cu in)	1,598 (97.51)
Firing order		1–3–4–2
Idle speed M/T A/T in N (Neutral) position Ignition timing (degree B.T.D.C. at idle speed) CO % at idle		No adjustment is necessary.
Spark plug		PLZKAR6A-11
Spark plug gap (Nominal)	mm (in)	1.1 (0.043)
Camshaft operation		Timing chain

This spark ignition system complies with the Canadian standard ICES-002.

WHEELS AND TIRES

Wheel type	Size	Offset mm (in)
Steel	15 x 5.5J	50 (1.97)
Aluminum	16 x 6.0J	55 (2.17)
Tire size	P185/60R15 185/55R16	
Spare tire	T125/70D15	

DIMENSIONS AND WEIGHTS

Body Type			Hatchback
Overall length		mm (in)	3,827 (150.7)
Overall width		mm (in)	1,665 (65.6)
Overall height			
	R15	mm (in)	1,527 (60.1)
	R16	mm (in)	1,532 (60.3)
Front Track			
	R15	mm (in)	1,460 (57.5)
	R16	mm (in)	1,450 (57.1)
Rear Track			
	R15	mm (in)	1,465 (57.7)
	R16	mm (in)	1,455 (57.3)
Wheelbase		mm (in)	2,450 (96.5)
Gross vehicle weight rating			Refer to the “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		
	Rear		

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.

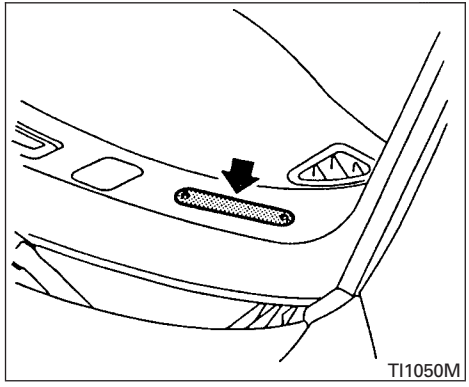
Using fuel with an octane rating that is too low may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

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.

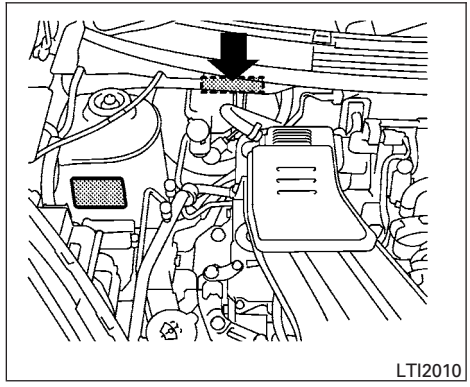
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION


TI1050M

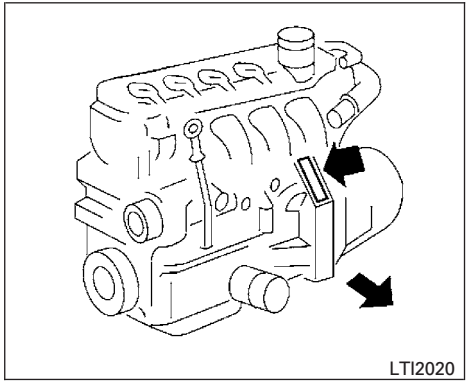
VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

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.


LTI2010

VEHICLE IDENTIFICATION NUMBER (chassis number)

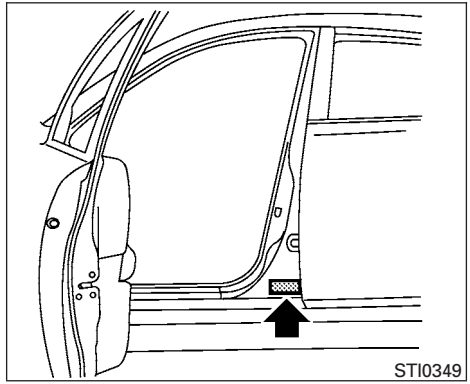
The vehicle identification number is located as shown.



HR16DE

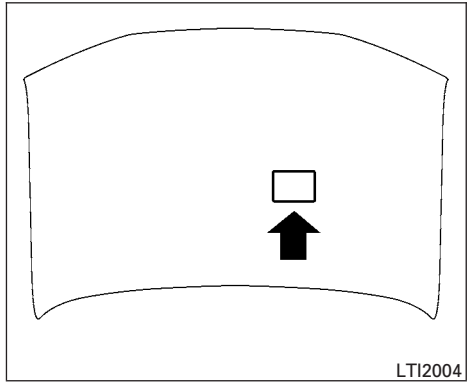
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



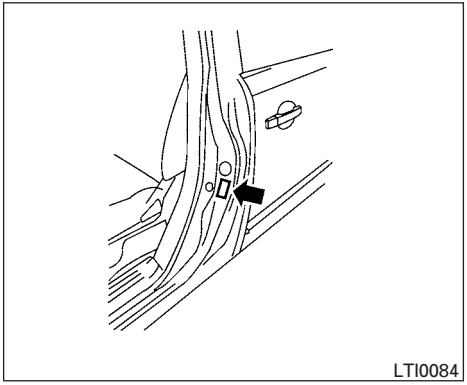
C.M.V.S.S. CERTIFICATION LABEL

The Canadian Motor Vehicle Safety Standard (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.



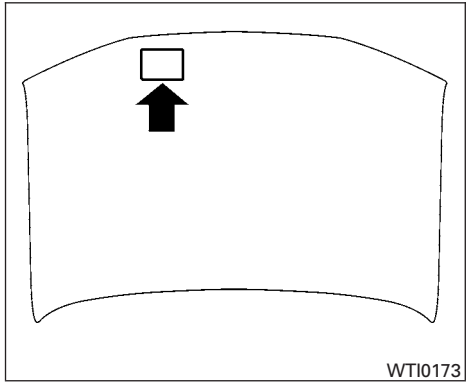
EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached to the underside of the hood as shown.


LTI0084

TIRE AND LOADING INFORMATION LABEL

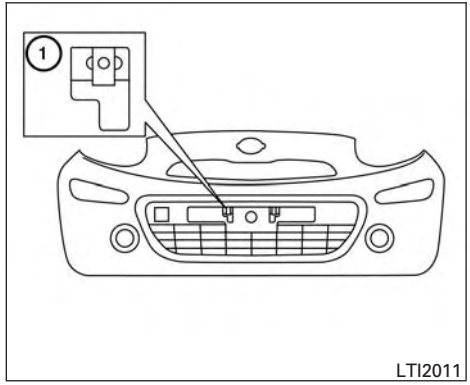
The cold tire pressure is shown on the Tire and Loading Information Label. The label is located as shown.


WTI0173

AIR CONDITIONER SPECIFICATION LABEL (if so equipped)

The air conditioner specification label is affixed as shown.

INSTALLING FRONT LICENSE PLATE (if so equipped)



LTI2011

Mount the license plate to the fascia ① using two M6-14mm bolts (not supplied) through the nuts. Center the license plate in the fascia and tighten securely.

⚠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.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

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, luggage, hitch, trailer tongue load and any other optional equipment. This information is located on the C.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 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.

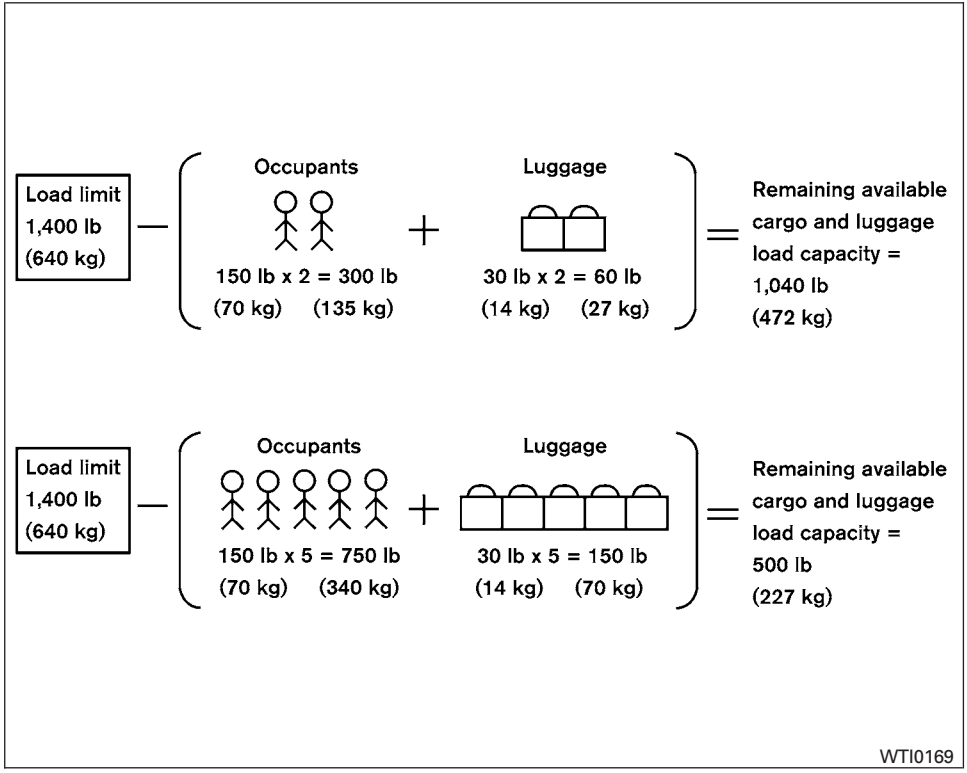
DETERMINING VEHICLE LOAD CAPACITY

The load capacity of this vehicle is determined by weight, not by available cargo space. For example, a luggage rack, bike carrier, cartop carrier or similar equipment does not increase load carrying capacity of your vehicle.

To determine vehicle load capacity:

Vehicle weight can be determined by using a commercial-grade scale, found at places such as a truck stop, gravel quarry, grain elevator, or a scrap metal recycling facility.

1. Determine the curb weight of your vehicle.
2. Compare the curb weight amount to the GVWR specified for your vehicle to determine how much more weight your vehicle can carry.
3. After loading (cargo and passengers), re-weigh your vehicle to determine if either GVWR or GAWR for your vehicle is exceeded. If GVWR is exceeded, remove cargo as necessary. If either the front or rear GAWR is exceeded, shift the load or remove cargo as necessary.



Example

Steps for determining correct load limit

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX lbs or XXX kg” on your vehicle’s Tire and Loading Information label.
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 lbs or XXX kg.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1,400-750 (5 X 150) = 650 lbs) or (640-340 (5 X 70) = 300 kg.)

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.

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. For additional information, refer to “Measurement of weights” in this section.

Also check tires for proper inflation pressures. For additional information, refer to “Tire and Loading Information label” in this section.

LOADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the 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.

Do not tow a trailer with your vehicle.

FLAT TOWING

Towing your vehicle with all four wheels on the ground is sometimes called flat 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 any 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 refer to "Towing recommended by NISSAN" in the "In case of emergency" section of this manual.**

Manual Transmission (if so equipped)

- Always tow with the manual transmission in Neutral.
- After towing 805 km (500 miles), start and idle the engine with the transmission in Neutral for two minutes. Failure to idle the engine after every 805 km (500 miles) of towing may cause damage to internal transmission parts.

Automatic Transmission (if so equipped)

To tow a vehicle equipped with an automatic 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.

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.

EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN vehicle is covered by the following emission warranties:

Emission Control System Warranty

Details of this warranty may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario, L4W 4Z5

REPORTING SAFETY DEFECTS

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: https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/fc-cp.aspx?lang=eng (English speakers) or https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/fc-cp.aspx?lang=fra (French speakers)

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 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.

EVENT DATA RECORDERS (EDR)

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 nontrivial 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.

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**, contact:

1-800-247-5321

For Canada

To purchase a copy of a Genuine NISSAN Service Manual or Owner's Manual, for this model year and prior, please contact the 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.

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FUEL RECOMMENDATION:

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠CAUTION

- **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.**

For additional information, refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual.

ENGINE OIL RECOMMENDATION:

▪ Genuine “Nissan Motor Oil 5W-30 SN” is recommended.

▪ If the above motor is not available, use an equivalent motor oil that matches the above grade and viscosity. For additional information, refer to “Engine oil and oil filter recommendations” in the “Technical and consumer information” section of this manual.

COLD TIRE PRESSURE:

For additional information, refer to “Tire and Loading Information label” in the “Technical and consumer information” section of this manual.

The label is typically located on the driver side center pillar or on the driver’s door. For additional information, refer to “Wheels and tires” in the “Do-it-yourself” section of this manual.

RECOMMENDED NEW VEHICLE BREAK-IN PROCEDURE:

During the first 2,000 km (1,200 mi) of vehicle use, follow the recommendations outlined in the “Break-in schedule” information found in the “Starting and driving” section of this manual. Follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

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