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2022 TRANSIT Owner's Manual

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California Proposition 65

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

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling**.

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If you require assistance or clarification on policies or procedures, please contact the customer relationship center.

United States

Ford Motor Company
Customer Relationship Center
PO Box 6248
Dearborn, MI 48126
1-800-392-3673 (FORD)
TDD for the hearing impaired:
7-1-1 (where offered by your telephone service provider)
www.ford.com/help/contact/

Ford Credit - US Only

Ford Credit offers a full range of financing and lease plans to help you acquire your vehicle. If you have financed or leased your vehicle through Ford Credit, thank you for your business.

For assistance call 1-800-727-7000, or for more information about Ford Credit and access to an account manager, visit www.ford.com/finance.

Canada

Customer Relationship Center
Ford Motor Company of Canada Limited
P.O. Box 2000
Oakville, Ontario L6J 5E4
1-800-565-3673 (FORD)
TDD for the hearing impaired:
7-1-1 (where offered by your telephone service provider)
www.ford.ca
Facebook: FordServiceCA (English), FordServiceQC (Francais)

Australia

Ford Motor Company
Attention: Customer Relationship Centre
Private Mail Bag 5
Fairlane Business Park #3
Campbellfield, Victoria, 3061
Telephone: 13 3673 (FORD)
E-mail: foacust1@ford.com

New Zealand

Ford Motor Company
Attention: Customer Relationship Centre
Private Bag 76912
Manukau City 2241
Telephone: 0800 367 369 (FORDNZ)
E-mail: fnzcust@ford.com

China - Imported Vehicle

Customer Relationship Center
Telephone: 400-690-1886
Website: https://www.ford.com.cn/

China - Chang'An Ford

Customer Relationship Center
Telephone: 800-810-8168
Mobile: 400-887-7766
Website: https://www.ford.com.cn/

Asia Pacific

E-mail: expcac@ford.com

Caribbean, Central America and Israel

Ford Motor Company
Ford Export Operations
Attention: Owner Relations
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Fairlane Business Park #3
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E-mail: expcac@ford.com

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Ford Motor Company
Ford Export Operations
Attention: Owner Relations
1555 Fairlane Drive
Fairlane Business Park #3
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E-mail: prcac@ford.com

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Telephone: 0800-888-3673

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www.ford.com.br

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E-mail: nafcrc@ford.com

Sub-Saharan Africa

E-mail: ssacrc@ford.com

Puerto Rico

Ford International Business Development, Inc.
P.O. Box 11957
Caparra Heights Station
San Juan, PR 00922-1957
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Fax: (313) 390-0804
E-mail: prcac@ford.com
www.ford.com.pr

Middle East

Ford Middle East Customer Relationship Center
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Dubai, United Arab Emirates
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Kuwait: 22280384
Local telephone number for Kuwait: +965 1 898900
Fax: +971 4 3327266
E-mail: menacac@ford.com
www.me.ford.com

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E-mail: infokr1@ford.com

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ABOUT THIS PUBLICATION

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Thank you for choosing Ford. We recommend that you take some time to get to know your vehicle by reading this publication. The more that you know about your vehicle, the greater the safety and pleasure you will get from driving it.

Note: *Use and operate your vehicle in line with all applicable laws and regulations.*

Note: *Pass on all printed owner's information when selling this vehicle.*

Features and Options

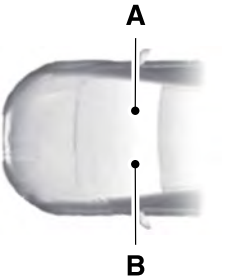
Note: *This publication describes product features and options available throughout the range of available models, sometimes even before they are generally available. It could describe options that are not available on the vehicle you have purchased.*

Illustrations

Note: *Some of the illustrations in this publication could show features as used in different models, so could appear different to you on your vehicle.*

Location of Components

This publication could qualify the location of a component as left-hand side or right-hand side. The side is determined when facing forward in the seat.



A Right-hand side.

B Left-hand side.

USING THIS PUBLICATION

To quickly locate information about your vehicle, use the word search within the Owner's Manual application.

WARNINGS AND NOTES USED IN THIS PUBLICATION

Warnings Used in This Publication

We include warnings in this publication to make you aware of possible danger. You can keep yourself and others safe if you follow the instructions highlighted by the warning symbol.

Notes Used in This Publication

We include notes to give you more information to those instructions that require further explanation.

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SYMBOLS USED ON YOUR VEHICLE

These are some of the symbols you may see on your vehicle.

Air conditioning system

Air conditioning system lubricant type

Anti-lock braking system

Avoid smoking, flames or sparks

Battery

Battery acid

Brake fluid - non petroleum based

Brake system

Brake system

Cabin air filter

Check fuel cap

Child safety door lock or unlock

Child seat lower anchor

Child seat tether anchor

Cruise control

Do not open when hot

Electric Parking brake

Engine air filter

Engine coolant

Engine coolant temperature

Engine oil

Explosive gas

Fan warning

Fasten seatbelt

Flammable

Airbag

Front fog lamps

Fuel pump reset

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Fuse compartment

Hazard flashers

Heated rear window

Windshield defrosting system

Interior luggage compartment release

Jack

Keep out of reach of children

Lighting control

Low tire pressure warning

Maintain correct fluid level

Note operating instructions

Horn control

Panic alarm

Parking aid

Passenger airbag activated

Passenger airbag deactivated

Power steering fluid

Power windows front/rear

Power window lockout

Requires registered technician

Safety alert

See Owner's Manual

See Service Manual

Malfunction Indicator Lamp (MIL)

Side airbag

Shield the eyes

Stability control

Hill descent control

Trail control

Windshield wiping system

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Windshield wash and wipe

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DATA PRIVACY - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Do not connect wireless plug-in devices to the data link connector. Unauthorized third parties could gain access to vehicle data and impair the performance of safety related systems. Only allow repair facilities that follow our service and repair instructions to connect their equipment to the data link connector.

We respect your privacy and are committed to protecting it. The information contained in this manual was correct at the time of publication, but as technology rapidly changes, we recommend that you visit the local Ford website for the latest information.

Your vehicle has electronic control units that have data recording functionality and the ability to permanently or temporarily store data. This data could include information on the condition and status of your vehicle, vehicle maintenance requirements, events and malfunctions. The types of data that can be recorded are described in this section. Some of the data recorded is stored in event logs or error logs.

Note: *Error logs are reset following a service or repair.*

Note: *We may provide information in response to requests from law enforcement, other government authorities and third parties acting with lawful authority or through a legal process. Such information could be used by them in legal proceedings.*

Data recorded includes, for example:

- Operating states of system components, for example fuel level, tire pressure and battery charge level.
- Vehicle and component status, for example wheel speed, deceleration, lateral acceleration and seatbelt status.
- Events or errors in essential systems, for example headlamps and brakes.
- System responses to driving situations, for example airbag deployment and stability control.
- Environmental conditions, for example temperature.

Some of this data, when used in combination with other information, for example an accident report, damage to a vehicle or eyewitness statements, could be associated with a specific person.

Services That We Provide

If you use our services, we collect and use data, for example account information, vehicle location and driving characteristics, that could identify you. We transmit this data through a dedicated, protected connection. We only collect and use data to enable your use of our services to which you have subscribed, with your consent or where permitted by law. For additional information, see the terms and conditions of the services to which you have subscribed.

For additional information about our privacy policy, refer to the local Ford website.

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Services That Third Parties Provide

We recommend that you review the terms and conditions and data privacy information for any services equipped with your vehicle or to which you subscribe. We take no responsibility for services that third parties provide.

Where equipped, SiriusXM with 360L could use the modem. To disable, turn off the SiriusXM with 360L or Vehicle Connectivity setting. See **Enabling and Disabling the Modem** (page 466).

DATA PRIVACY - ELECTRIC MOTOR

WARNING: Do not connect wireless plug-in devices to the data link connector. Unauthorized third parties could gain access to vehicle data and impair the performance of safety related systems. Only allow repair facilities that follow our service and repair instructions to connect their equipment to the data link connector.

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Note: *Error logs are reset following a service or repair.*

Note: *We may provide information in response to requests from law enforcement, other government authorities and third parties acting with lawful authority or through a legal process. Such information could be used by them in legal proceedings.*

Data recorded includes, for example:

- Operating states of system components, for example battery charge level and tire pressure.
- Vehicle and component status, for example wheel speed, deceleration, lateral acceleration and seatbelt status.
- Events or errors in essential systems, for example headlamps and brakes.
- System responses to driving situations, for example airbag deployment and stability control.
- Environmental conditions, for example temperature.

Some of this data, when used in combination with other information, for example an accident report, damage to a vehicle or eyewitness statements, could be associated with a specific person.

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Services That We Provide

If you use our services, we collect and use data, for example account information, vehicle location and driving characteristics, that could identify you. We transmit this data through a dedicated, protected connection. We only collect and use data to enable your use of our services to which you have subscribed, with your consent or where permitted by law. For additional information, see the terms and conditions of the services to which you have subscribed.

For additional information about our privacy policy, refer to the local Ford website.

Services That Third Parties Provide

We recommend that you review the terms and conditions and data privacy information for any services equipped with your vehicle or to which you subscribe. We take no responsibility for services that third parties provide.

Where equipped, SiriusXM with 360L could use the modem. To disable, turn off the SiriusXM with 360L or Vehicle Connectivity setting. See **Enabling and Disabling the Modem** (page 466).

SERVICE DATA - 3.5L DURATEC/3.5L ECOBOOST™

Service data recorders in your vehicle are capable of collecting and storing diagnostic information about your vehicle. This potentially includes information about the performance or status of various systems and modules in the vehicle, such as engine, throttle, steering or brake systems. In order to properly diagnose and service your vehicle, Ford Motor Company (Ford of Canada in Canada), and service and repair facilities may access or share among them vehicle diagnostic information received through a direct connection to your vehicle when diagnosing or servicing your vehicle. Additionally, Ford Motor Company (Ford of Canada, in Canada) may, where permitted by law, use vehicle diagnostic information for vehicle improvement or with other information we may have about you, for example, your contact information, to offer you products or services that may interest you. Data may be provided to our service providers such as part suppliers that may help diagnose malfunctions, and who are similarly obligated to protect data. We retain this data only as long as necessary to perform these functions or to comply with law. We may provide information where required in response to official requests to law enforcement or other government authorities or third parties acting with lawful authority or court order, and such information may be used in legal proceedings. For U.S. only (if equipped), if you choose to use connected apps and services, you consent that certain diagnostic information may also be accessed electronically by Ford Motor Company and Ford authorized service facilities, and that the diagnostic information may be used to provide services to you, personalizing your experience, troubleshoot, and to improve products and services and offer you products and services that may interest you, where permitted by law. For Canada only, for more information, please review the Ford of Canada privacy policy at www.ford.ca, including our U.S. data storage and use of service providers in other jurisdictions who may be subject to legal requirements in Canada, the United States and other countries applicable to them, for example, lawful requirements to disclose personal information to governmental authorities in those countries.

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SERVICE DATA - ELECTRIC MOTOR

Service data recorders in your vehicle are capable of collecting and storing diagnostic information about your vehicle. This potentially includes information about the performance or status of various systems and modules in the vehicle, such as the high voltage battery, throttle, and steering or brake systems. In order to properly diagnose and service your vehicle, Ford Motor Company (Ford of Canada in Canada), and service and repair facilities may access or share among them vehicle diagnostic information received through a direct connection to your vehicle when diagnosing or servicing your vehicle. Additionally, Ford Motor Company (Ford of Canada, in Canada) may, where permitted by law, use vehicle diagnostic information for vehicle improvement or with other information we may have about you, for example, your contact information, to offer you products or services that may interest you. Data may be provided to our service providers such as part suppliers that may help diagnose malfunctions, and who are similarly obligated to protect data. We retain this data only as long as necessary to perform these functions or to comply with law. We may provide information where required in response to official requests to law enforcement or other government authorities or third parties acting with lawful authority or court order, and such information may be used in legal proceedings. For U.S. only (if equipped), if you choose to use connected apps and services, you consent that certain diagnostic information may also be accessed electronically by Ford Motor Company and Ford authorized service facilities, and that the diagnostic information may be used to provide services to you, personalizing your experience, troubleshoot, and to improve products and services and offer you products and services that may interest you, where permitted by law. For Canada only, for more information, please review the Ford of Canada privacy policy at www.ford.ca, including our U.S. data storage and use of service providers in other jurisdictions who may be subject to legal requirements in Canada, the United States and other countries applicable to them, for example, lawful requirements to disclose personal information to governmental authorities in those countries.

EVENT DATA

This vehicle is equipped with an event data recorder. The main purpose of an event data recorder is to record, in certain crash or near crash-like situations, such as an airbag deployment or hitting a road obstacle; this data will assist in understanding how a vehicle's systems performed. The event data recorder is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less.

The event data recorder 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 seatbelts were buckled/fastened.
- How far (if at all) the driver was depressing the accelerator and/or the brake pedal.
- How fast the vehicle was traveling.
- Where the driver was positioning the steering wheel.

This data can help provide a better understanding of the circumstances in which crashes and injuries occur.

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Note: *Event data recorder data is recorded by your vehicle only if a non-trivial crash situation occurs; no data is recorded by the event data recorder under normal driving conditions and no personal data or information (for example name, gender, age, and crash location) is recorded. However, parties, such as law enforcement, could combine the event data recorder data with the type of personally identifying data routinely acquired during a crash investigation.*

To read data recorded by an event data recorder, special equipment is required, and access to the vehicle or the event data recorder is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have such special equipment, can read the information if they have access to the vehicle or the event data recorder.

SETTINGS DATA

Your vehicle has electronic control units that have the ability to store data based on your personalized settings. The data is stored locally in the vehicle or on devices that you connect to it, for example, a USB drive or digital music player. You can delete some of this data and also choose whether to share it through the services to which you subscribe.

Comfort and Convenience Data

Data recorded includes, for example:

- Seat and steering wheel position.
- Climate control settings.
- Radio presets.

Entertainment Data

Data recorded includes, for example:

- Music, videos or album art.
- Contacts and corresponding address book entries.
- Navigation destinations.

CONNECTED VEHICLE DATA

The modem has a SIM. The modem was enabled when your vehicle was built and periodically sends messages to stay connected to the cell phone network, receive automatic software updates and send vehicle-related information to us, for example diagnostic information. These messages could include information that identifies your vehicle, the SIM and the electronic serial number of the modem. Cell phone network service providers could have access to additional information, for example cell phone network tower identification. For additional information about our privacy policy, visit *www.FordConnected.com* or refer to your local Ford website.

Note: *The modem continues to send this information unless you disable the modem or stop the modem from sharing vehicle data by changing the modem settings. See* ***Connected Vehicle*** *(page 466).*

Note: *The service can be unavailable or interrupted for a number of reasons, for example environmental or topographical conditions and data plan coverage.*

Note: *To find out if your vehicle has a modem, visit www.FordConnected.com.*

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MOBILE DEVICE DATA

If you connect a mobile device to your vehicle, you can display data from your device on the touchscreen for example, music and album art. You can share your vehicle data with mobile apps on your device through the system. See **App Requirements** (page 508).

The mobile apps function operates by your connected device sending data to us in the United States. The data is encrypted and includes, for example, the vehicle identification number of your vehicle, the SYNC module serial number, odometer, enabled apps, usage statistics and debugging information. We retain it only as long as necessary to provide the service, to troubleshoot, for continuous improvement and to offer you products and services that may be of interest to you according to your preferences and where allowed by law.

If you connect a cell phone to the system, the system creates a profile that links to that cell phone. The cell phone profile enables more mobile features and efficient operation. The profile contains, for example data from your phonebook, read and unread text messages and call history, including history of calls when your cell phone was not connected to the system.

If you connect a media device, the system creates and retains a media device index of supported media content. The system also records a short diagnostic log of approximately 10 minutes of all recent system activity.

The cell phone profile, media device index and diagnostic log remain in your vehicle unless you delete them and are generally accessible only in your vehicle when you connect your cell phone or media device. If you no longer plan to use the system or your vehicle, we recommend you use the master reset function to erase the stored information. See **Performing a Master Reset** (page 514).

System data cannot be accessed without special equipment and access to your vehicle's module.

For additional information about our privacy policy, refer to the local Ford website.

Note: *To find out if your vehicle has connectivity technology, visit www.FordConnected.com.*

EMERGENCY CALL SYSTEM DATA - 3.5L DURATEC/3.5L ECOBOOST™

When the emergency call system is active, it may disclose to emergency services that your vehicle has been in a crash involving the deployment of an airbag or activation of the fuel pump shut-off. Certain versions or updates to the emergency call system may also be capable of electronically or verbally disclosing to emergency services operators your vehicle location or other details about your vehicle or crash to assist emergency services operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not activate the emergency call system.

Note: *You cannot deactivate emergency call systems that are required by law.*

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EMERGENCY CALL SYSTEM DATA - ELECTRIC MOTOR

When the emergency call system is active, it may disclose to emergency services that your vehicle has been in a crash involving the deployment of an airbag or activation of the battery shut-off. Certain versions or updates to the emergency call system may also be capable of electronically or verbally disclosing to emergency services operators your vehicle location or other details about your vehicle or crash to assist emergency services operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not activate the emergency call system.

Note: *You cannot deactivate emergency call systems that are required by law.*

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PROTECTING THE ENVIRONMENT

You can take significant steps toward protecting the environment with correct vehicle usage and the authorized disposal of waste, cleaning and lubrication materials.

For additional information about our sustainability progress and initiatives, visit *www.sustainability.ford.com*.

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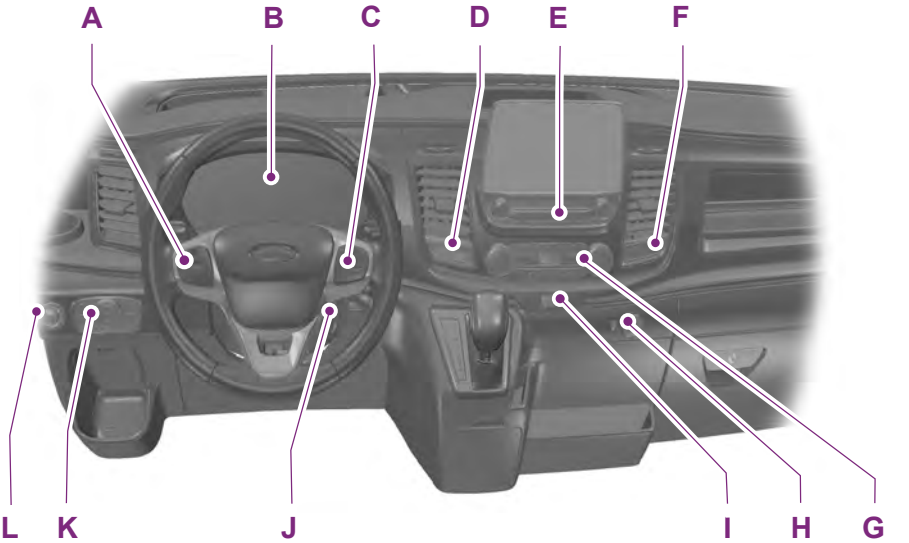
STEERING WHEEL

A Cruise control buttons. See **Switching Cruise Control On and Off** (page 275).

B Information display controls. See **Using the Instrument Cluster Display Controls** (page 136). See **Using the Instrument Cluster Display Controls** (page 138).

INSTRUMENT PANEL - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC



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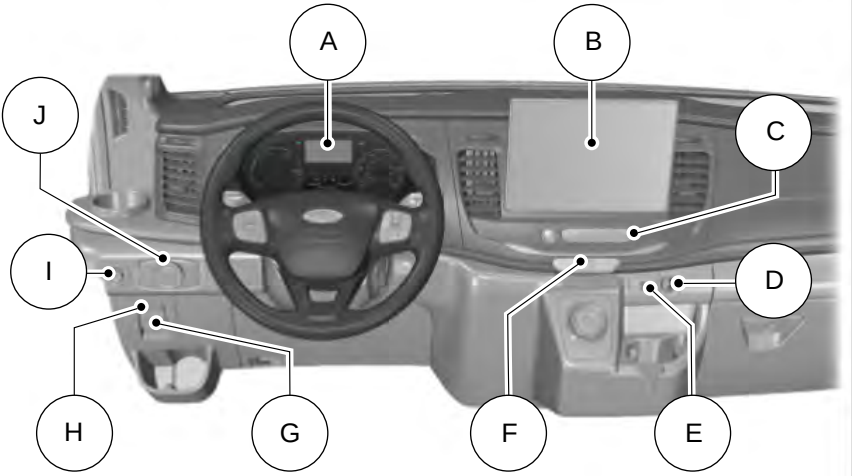
A See **Switching Cruise Control On and Off** (page 275).
B See **Instrument Cluster Overview** (page 128).
C See **Using the Instrument Cluster Display Controls** (page 136).
D See **Switching Traction Control On and Off** (page 251). See **Selecting a Drive Mode** (page 287).
E See **Switching the Audio Unit On and Off** (page 473).
F See **Switching Auto-Start-Stop On and Off** (page 194).
G See **Switching Climate Control On and Off** (page 150).
H See **Locating the Power Outlets** (page 178).
I See **Switching the Hazard Flashers On and Off** (page 349).
J See **Ignition Switch** (page 181).
K See **Exterior Lighting Control** (page 114).
L See **Adjusting the Exterior Mirrors** (page 126).

INSTRUMENT PANEL - VEHICLES WITH: SYNC 4



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A See **Instrument Cluster Overview** (page 128). See **Instrument Cluster Overview** (page 129).

B See **Status Bar** (page 498).

C See **Selecting a Drive Mode** (page 287).

D See **Power Outlet Precautions** (page 171).

E See **Playing Media Using the USB Port** (page 169).

F See **Switching the Hazard Flashers On and Off** (page 349).

G See **Applying the Electric Parking Brake** (page 242).

H See **Switching Auto Hold On and Off** (page 249).

I See **Adjusting the Exterior Mirrors** (page 126).

J See **Exterior Lighting Control** (page 114).

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CHILD SAFETY PRECAUTIONS

WARNING: Always make sure your child is secured properly in a device that is appropriate for their height, age and weight. Child safety restraints must be bought separately from your vehicle. Failure to follow these instructions and guidelines may result in an increased risk of serious injury or death to your child.

WARNING: All children are shaped differently. The National Highway Traffic Safety Administration and other safety organizations, base their recommendations for child restraints on probable child height, age and weight thresholds, or on the minimum requirements of the law. We recommend that you check with a NHTSA Certified Child Passenger Safety Technician (CPST) to make sure that you properly install the child restraint in your vehicle and that you consult your pediatrician to make sure you have a child restraint appropriate for your child. To locate a child restraint fitting station and CPST, contact NHTSA toll free at 1-888-327-4236 or go to www.nhtsa.dot.gov. In Canada, contact Transport Canada toll free at 1-800-333-0371 or go to www.tc.gc.ca to find a Child Car Seat Clinic in your area. Failure to properly restrain children in child restraints made especially for their height, age and weight, may result in an increased risk of serious injury or death to your child.

WARNING: On hot days, the temperature inside the vehicle can rise very quickly. Exposure of people or animals to these high temperatures for even a short time can cause death or serious heat related injuries, including brain damage. Small children are particularly at risk.

WARNING: Do not place a rearward facing child restraint in front of an active airbag. Failure to follow this instruction could result in personal injury or death.

WARNING: Properly secure children 12 years old and under in a rear seating position whenever possible. If you are unable to properly secure all children in a rear seating position, properly secure the largest child on the front seat. If you must use a forward facing child restraint on the front seat, move the seat as far back as possible. Failure to follow these instructions could result in personal injury or death.

WARNING: Always carefully follow the instructions and warnings provided by the manufacturer of any child restraint to determine if the restraint device is appropriate for your child's size, height, weight, or age. Follow the child restraint manufacturer's instructions and warnings provided for installation and use in conjunction with the instructions and warnings provided by your vehicle manufacturer. A safety seat that is improperly installed or utilized, is inappropriate for your child's height, age, or weight or does not properly fit the child may increase the risk of serious injury or death.

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WARNING: Do not allow a passenger to hold a child on their lap when your vehicle is moving. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.

WARNING: Do not use pillows, books or towels to boost your child's height. Failure to follow this instruction could result in personal injury or death.

WARNING: Properly secure child restraints or booster seats when they are not in use. They could become projectiles in a sudden stop or crash. Failure to follow this instruction could result in personal injury or death.

WARNING: Do not put the shoulder section of the seatbelt or allow the child to put the shoulder section of the seatbelt under their arm or behind their back. Failure to follow this instruction could reduce the effectiveness of the seatbelt and increase the risk of injury or death in a crash.

WARNING: Do not leave children or pets unattended in your vehicle. Failure to follow this instruction could result in personal injury or death.

When installing a child restraint with seatbelts:

- Place the vehicle seat in the upright position before you install the child restraint.
- Use the correct seatbelt buckle for that seating position.
- Insert the belt tongue into the buckle. Make sure the tongue is securely fastened in the buckle.
- Keep the buckle release button pointing up and away from the child restraint, with the tongue between the child restraint and the release button, to prevent accidental unbuckling.
- Put the seatbelt in the automatic locking mode.

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CHILD RESTRAINTS

CHILD RESTRAINT POSITION INFORMATION

Restraint Type	Combined Weight of Child and Child Restraint	Use Any Attachment Method as Indicated Below by X				
		LATCH (Lower Anchors and Top Tether Anchor)	LATCH (Lower Anchors Only)	Seatbelt and Top Tether Anchor	Seatbelt and LATCH (Lower Anchors and Top Tether Anchor)	Seatbelt Only
Rear facing child restraint	Up to 65 lb (29.5 kg)		X			X
Rear facing child restraint	Over 65 lb (29.5 kg)					X
Forward facing child restraint	Up to 65 lb (29.5 kg)	X		X	X	
Forward facing child restraint	Over 65 lb (29.5 kg)			X	X	

Note: *The child restraint must rest tightly against the vehicle seat upon which it is installed. It may be necessary to lift or remove the head restraint. See* ***Front Seat Precautions*** *(page 154).*

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CHILD RESTRAINTS RECOMMENDATION

Child	Child Size, Height, Weight, or Age	Recommended Restraint Type
Infants or toddlers	Children weighing 40 lb (18 kg)or less (generally age four or younger).	Use a child restraint (sometimes called an infant carrier, convertible seat, or toddler seat).
Small children	Children who have outgrown or no longer properly fit in a child restraint (generally children who are less than 57 in (1.45 m) tall, are greater than age four and less than age 12, and between 40 lb (18 kg) and 79 lb (36 kg) and upward to 99 lb (45 kg) if recommended by your child restraint manufacturer).	Use a belt-positioning booster seat.
Larger children	Children who have outgrown or no longer properly fit in a belt-positioning booster seat (generally children who are at least 57 in (1.45 m) tall or greater than 79 lb (36 kg) or 99 lb (45 kg) if recommended by child restraint manufacturer).	Use a vehicle seatbelt having the lap belt snug and low across the hips, shoulder belt centered across the shoulder and chest, and seat backrest upright.

- You are required by law to properly use child restraints for infants and toddlers in the United States and Canada.
- Many states and provinces require that small children use approved booster seats until they reach age eight, a height of 57 in (1.45 m) tall, or 79 lb (36 kg). Check your local and state or provincial laws for specific requirements about the safety of children in your vehicle.
- When possible, always properly restrain children 12 years of age and under in a rear seating position of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in a front seating position.
- When installing a rear facing child restraint, adjust the vehicle seats to avoid interference between the child restraint and the vehicle seat in front of the child restraint.

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INSTALLING CHILD RESTRAINTS

USING SEATBELTS

WARNING: Depending on where you secure a child restraint, and depending on the child restraint design, you may block access to certain seatbelt buckle assemblies and LATCH lower anchors, rendering those features potentially unusable. To avoid risk of injury, make sure occupants only use seating positions where they are able to be properly restrained.

Note: *The following does not apply to the front center position of Super Cab and Crew Cab vehicles.*

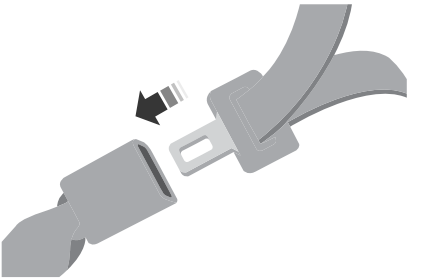
Note: *Although the child restraint illustrated is a forward facing child restraint, the steps are the same for installing a rear facing child restraint.*

Perform the following steps when installing a child restraint with seatbelts.

1. Position the child restraint in a seat with a seatbelt.

2. Pull down on the shoulder belt and then grasp the shoulder belt and lap belt together.

3. While holding the shoulder and lap belt portions together, route the tongue through the child restraint according to the child restraint manufacturer's instructions. Make sure you did not twist the belt webbing.



4. Insert the belt tongue into the proper buckle for that seating position until the latch engages. Make sure the tongue is latched securely by pulling on it.

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5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until you pull all of the seatbelt out.

Note: *The automatic locking mode is available on the front passenger and rear seats. This mode is also available on the center seat of a Regular Cab. This vehicle does not require the use of a locking clip.*

6. Allow the belt to retract to remove slack. The seatbelt clicks as it retracts to indicate it is in the automatic locking mode.
7. Pull the seatbelt out of the retractor to make sure the retractor is in the automatic locking mode. You should not be able to pull more belt out. If the retractor is not locked, unbuckle the belt and repeat Steps 5 and 6.

8. Remove remaining slack from the belt. Force the seat down with extra weight, for example, by pressing down or kneeling on the child restraint while pulling up on the shoulder belt in order to force slack from the belt. This is necessary to remove the remaining slack that exists once you add the extra weight of the child to the child restraint. It also helps to achieve the proper snugness of the child restraint to your vehicle. Sometimes, a slight lean toward the buckle helps to remove remaining slack from the belt.
9. If the child restraint has a tether strap, attach it.

10. Before placing the child in the seat, forcibly move the seat forward and back to make sure the seat is securely held in place.

To check this, grab the seat at the belt path and attempt to move it side to side and forward and back. There should be no more than 1 in (2.5 cm) of movement.

We recommend checking with a NHTSA Certified Child Passenger Safety Technician to make certain the child restraint is properly installed. In Canada, check with Transport Canada for referral to a Child Car Seat Clinic.

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Using Seatbelts

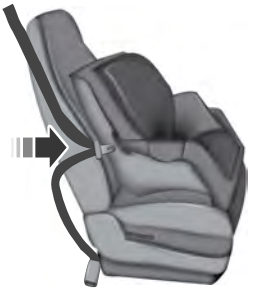
WARNING: Always use both the lap and shoulder portion of the seatbelt in the center seating position.

Note: *The following applies to the front center position of Super Cab and Crew Cab vehicles.*

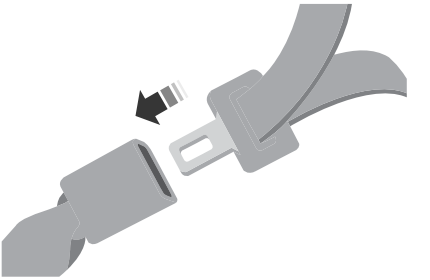
The seatbelt webbing below the tongue is the lap portion of the seatbelt. The webbing above the tongue is the shoulder belt portion of the seatbelt.

1. Position the child restraint in the front center seat.

2. Slide the tongue up the webbing.



3. While holding both shoulder and lap portions next to the tongue, route the tongue and webbing through the child restraint according to the child restraint manufacturer's instructions. Make sure you did not twist the belt webbing.



4. Insert the belt tongue into the proper buckle for that seating position until the latch engages. Make sure the tongue is latched securely by pulling on it.

5. When pushing down with your knee on the child restraint, pull up on the shoulder belt portion to tighten the lap belt portion of the seatbelt.
6. Allow the seatbelt to retract and remove any slack in the belt to securely tighten the child restraint in the vehicle.
7. If the child restraint has a tether strap, attach it.

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8. Before placing the child in the seat, forcibly move the seat forward and back to make sure the seat is securely held in place. To check this, grab the seat at the belt path and attempt to move it side to side and forward and back. There should be no more than 1 in (2.5 cm) of movement.
9. Check from time to time to be sure that there is no slack in the lap and shoulder belt. The shoulder belt must be snug to keep the lap belt tight during a crash.

We recommend checking with a NHTSA Certified Child Passenger Safety Technician to make certain the child restraint is properly installed. In Canada, check with Transport Canada for referral to a Child Car Seat Clinic.

USING LOWER ANCHORS AND TETHERS FOR CHILDREN

WARNING: Do not attach two child safety restraints to the same anchor. In a crash, one anchor may not be strong enough to hold two child safety restraint attachments and may break, causing serious injury or death.

WARNING: Depending on where you secure a child restraint, and depending on the child restraint design, you may block access to certain seatbelt buckle assemblies and LATCH lower anchors, rendering those features potentially unusable. To avoid risk of injury, make sure occupants only use seating positions where they are able to be properly restrained.

The LATCH system has three vehicle anchor points:

- Two lower anchors where the vehicle seat backrest and seat cushion meet, called the seat bight.
- One top tether anchor behind that seating position.

LATCH compatible child restraints have two rigid or webbing mounted attachments. These attachments connect to the two lower anchors at the LATCH equipped seating positions in your vehicle. This type of attachment method eliminates the need to use seatbelts to attach the child restraint.

However, you can still use the seatbelt to attach the child restraint if the lower anchors are not used. For forward-facing child restraints, you must also attach the top tether strap to the proper top tether anchor if a top tether strap has been provided with your child restraint.

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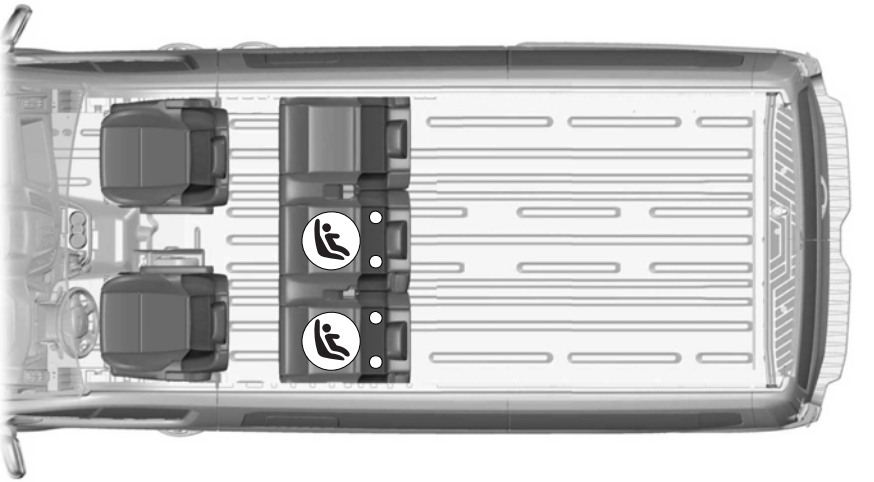

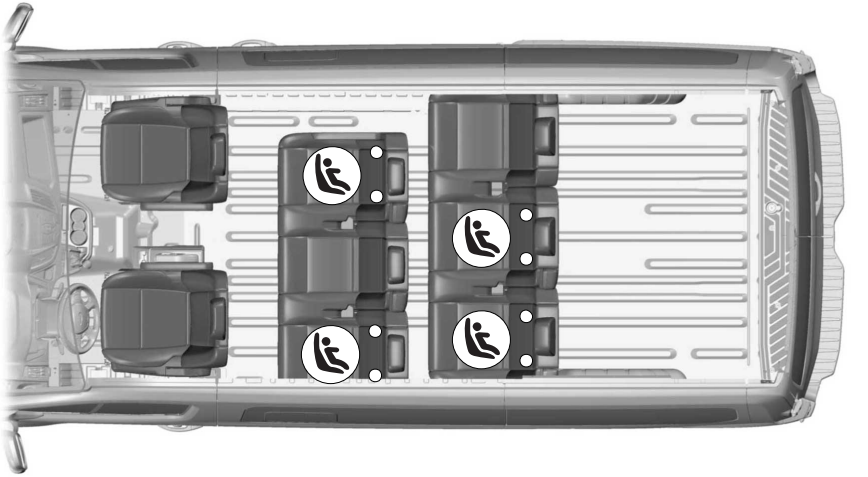

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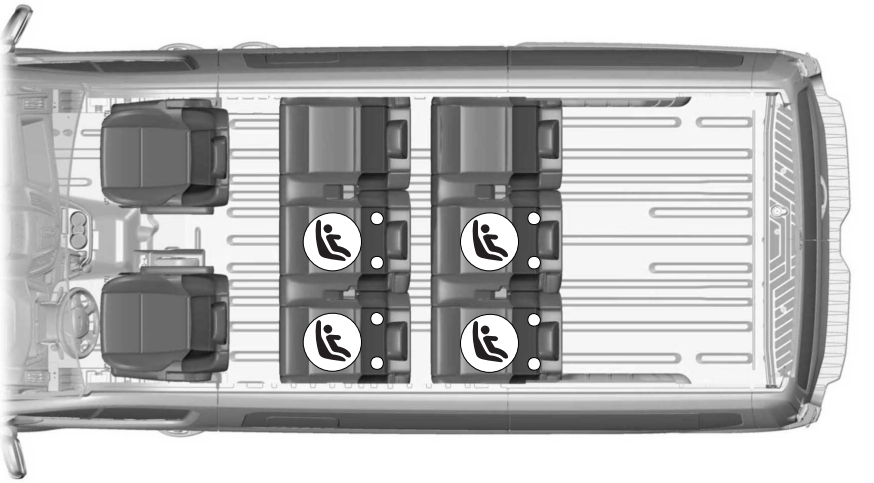

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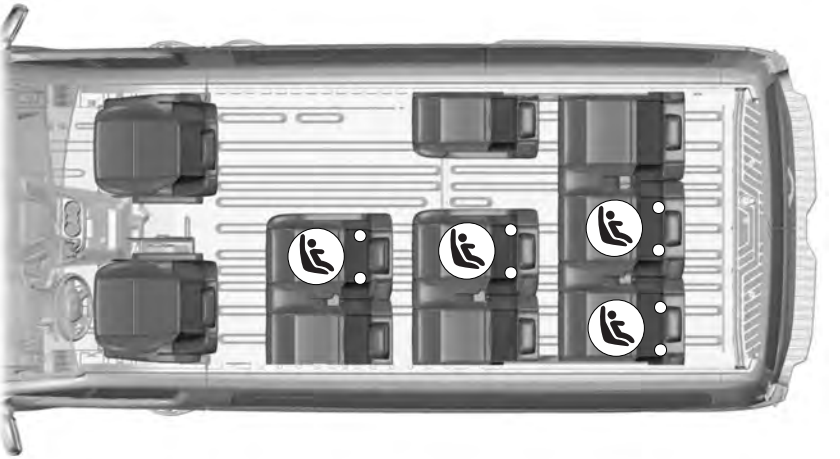

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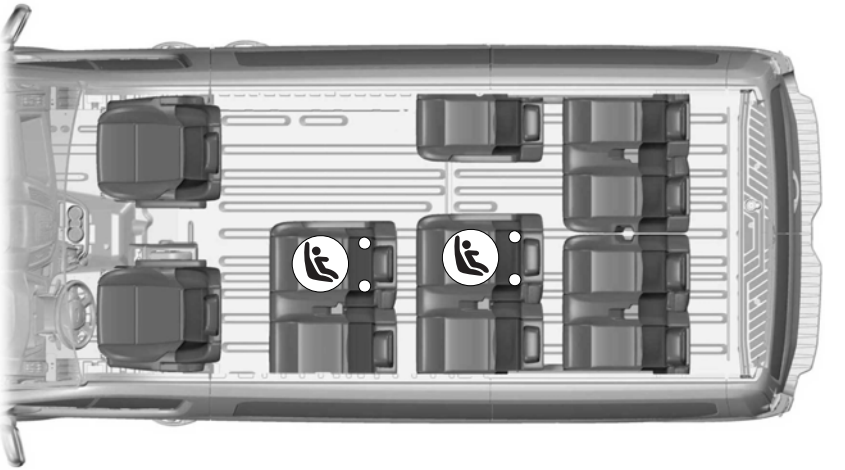

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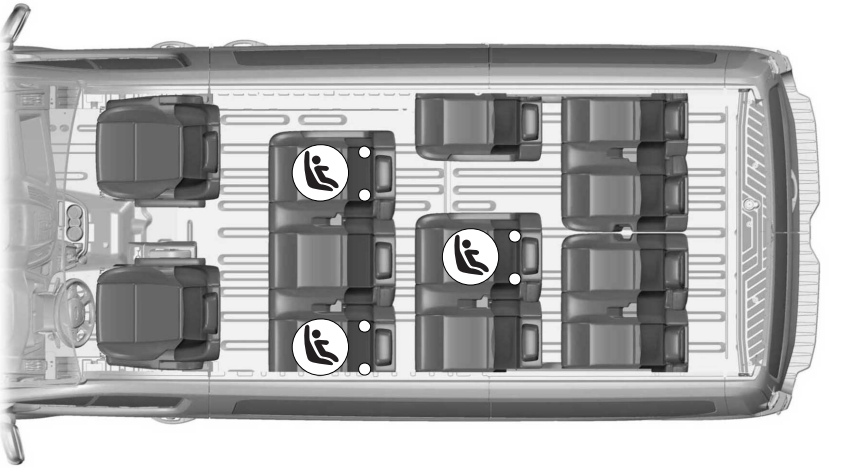

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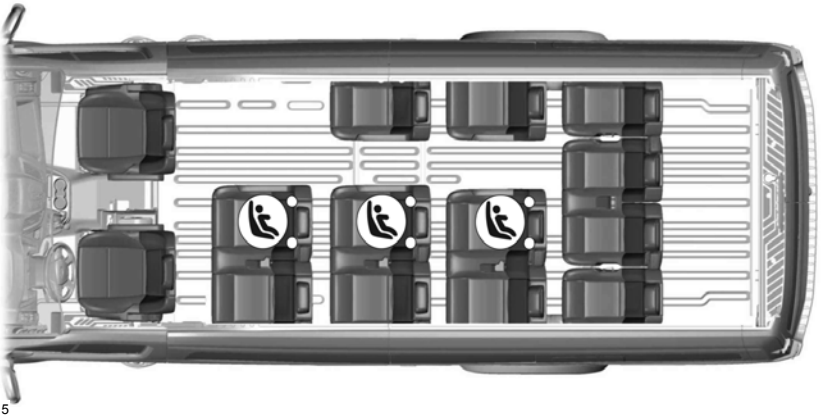

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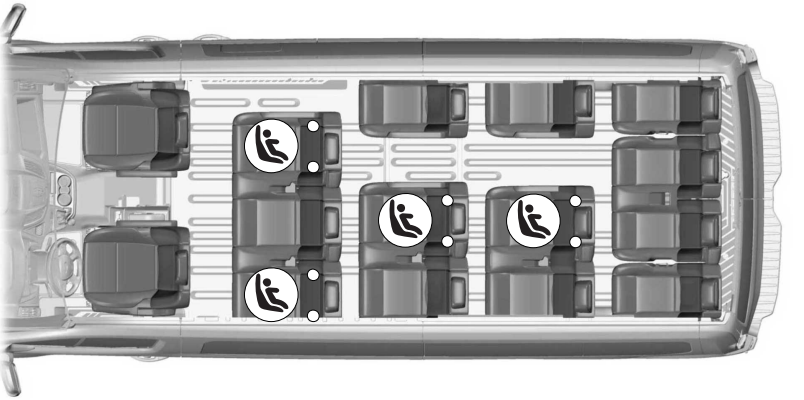

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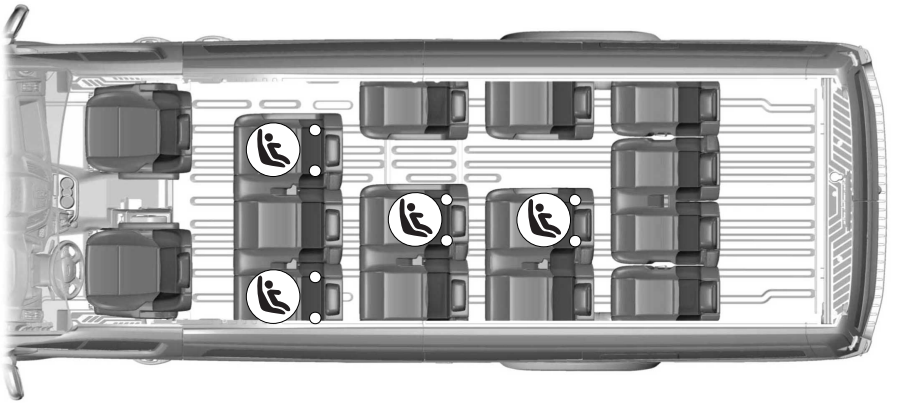

E258867

Your vehicle has LATCH lower anchors for child restraint installation at the seating positions marked with the child restraint symbol.

Note: *In addition to those shown, other seating positions may also have LATCH lower anchor points. You can identify these with the child restraint symbol shown on those seating positions.*

E177639

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The LATCH anchors are at the rear section of the rear seat between the cushion and seat backrest above the symbols as shown. Follow the child restraint manufacturer's instructions to correctly install a child restraint with LATCH attachments. Follow the instructions on attaching child safety restraints with tether straps.

Attach LATCH lower attachments of the child restraint only to the anchors shown.

INSTALLING A CHILD RESTRAINT IN A CENTER SEAT

WARNING: The standardized spacing for LATCH lower anchors is 11 in (280 mm) center to center. Do not use LATCH lower anchors for the center seating position unless the child restraint manufacturer's instructions permit and specify using anchors spaced at least as far apart as those in this vehicle.

The lower anchors at the center of the second row rear seat are spaced 25.7 in (652 mm) apart. The standardized spacing for LATCH lower anchors is 11 in (280 mm) center to center.

You cannot install a child restraint with rigid LATCH attachments at the center seating position. You can only use LATCH compatible child restraints with attachments on belt webbing at this seating position provided that the child restraint manufacturer's instructions permit use with the anchor spacing stated. Do not attach a child restraint to any lower anchor if another child restraint is attached to that anchor.

Each time you use the child restraint, check that the seat is properly attached to the lower anchors and tether anchor, if applicable. Tug the child restraint from side to side and forward and back where it is secured to the vehicle. The seat should move less than 1 in (2.5 cm).

If you did not properly anchor the child restraint, the risk of a child being injured in a crash greatly increases.

COMBINING THE SEATBELT AND LOWER ANCHORS FOR ATTACHING CHILD RESTRAINTS

When used in combination, you may attach either the seatbelt or the LATCH lower anchors first, provided a proper installation is achieved. Attach the tether strap afterward, if it is included with the child restraint.

USING TETHER STRAPS

Many forward-facing child restraints include a tether strap which extends from the back of the child restraint and hooks to an anchoring point called the top tether anchor. Tether straps are available as an accessory for many older child restraints.

Contact the manufacturer of your child restraint for information about ordering a tether strap, or to obtain a longer tether strap if the tether strap on your child restraint does not reach the appropriate top tether anchor in the vehicle.

Attach the tether strap only to the appropriate tether anchor. The tether strap may not work properly if attached somewhere other than the correct tether anchor.

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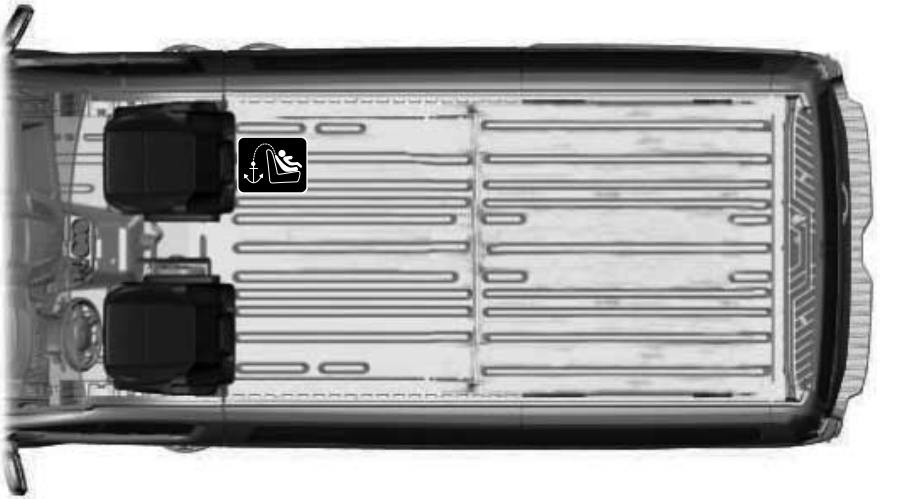
If you install a child restraint with rigid LATCH attachments, do not tighten the tether strap enough to lift the child restraint off the vehicle seat cushion when the child is seated in it. Keep the tether strap just snug without lifting the front of the child restraint. Keeping the child restraint just touching the vehicle seat gives the best protection in a severe crash.

Once you have installed the child restraint using either the seatbelt, the lower anchors of the LATCH system, or both, you can attach the top tether strap.

The tether strap anchors in your vehicle are in the following positions (shown from top view):



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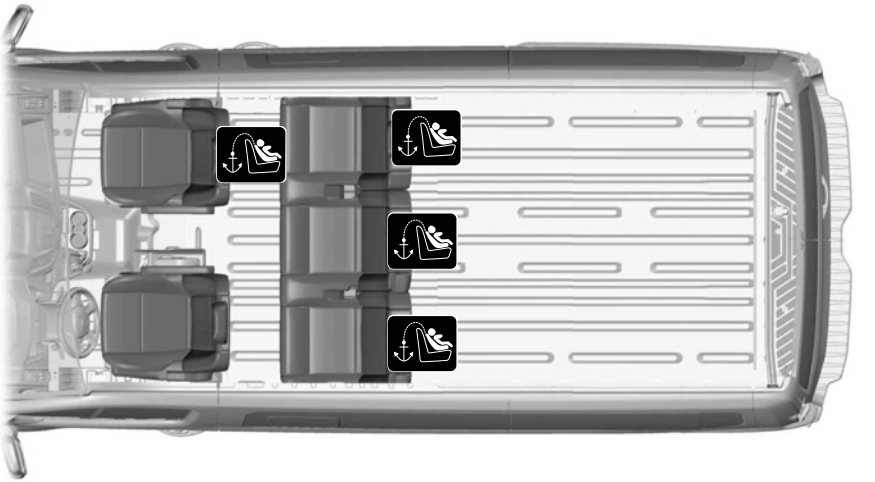

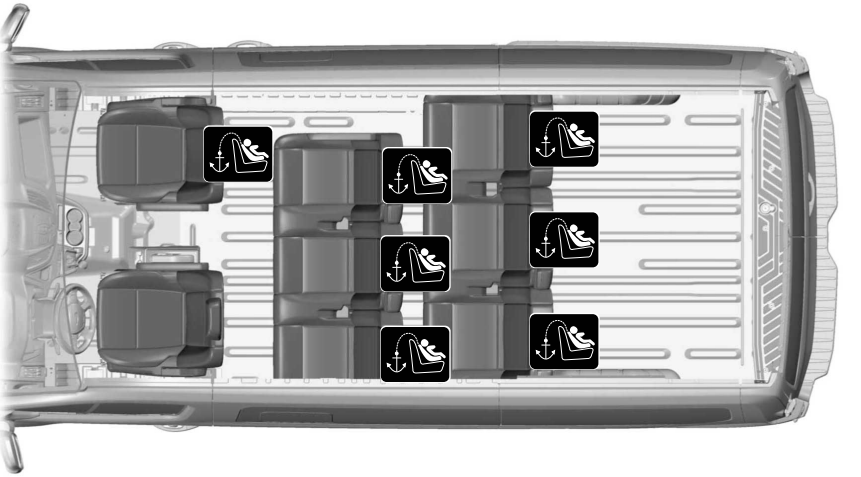

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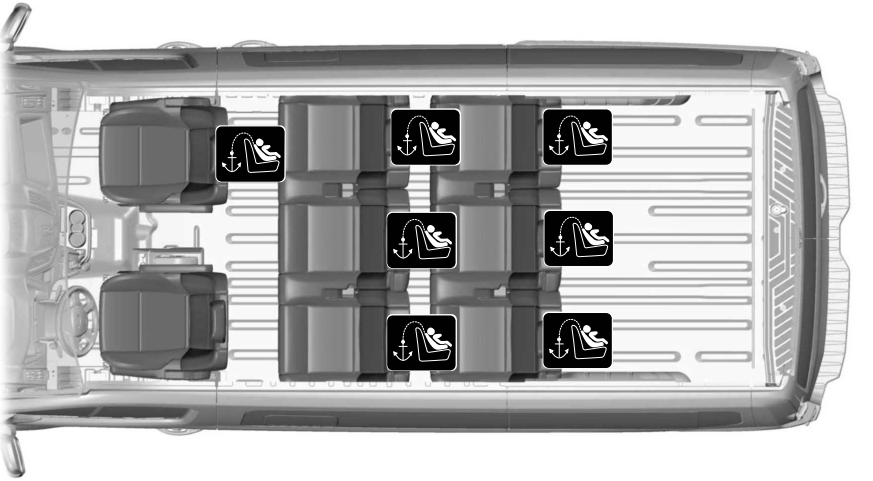

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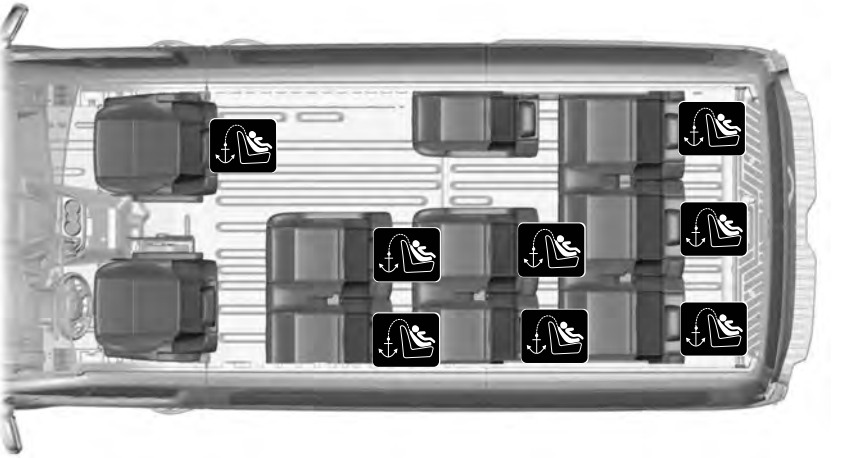

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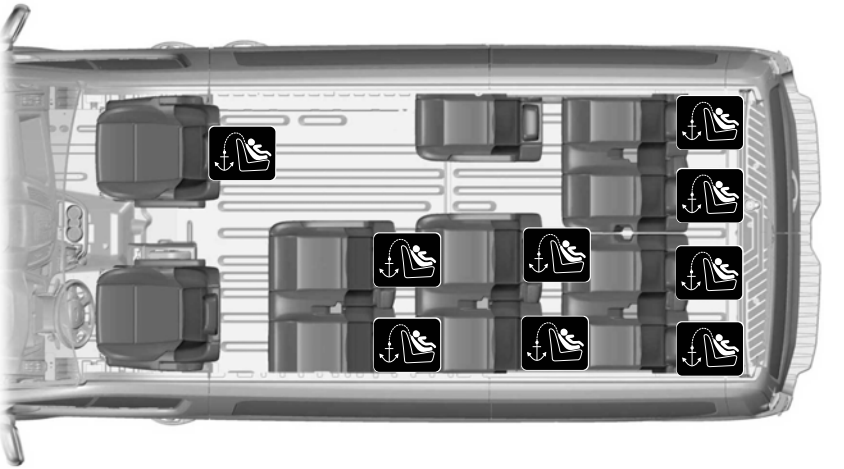

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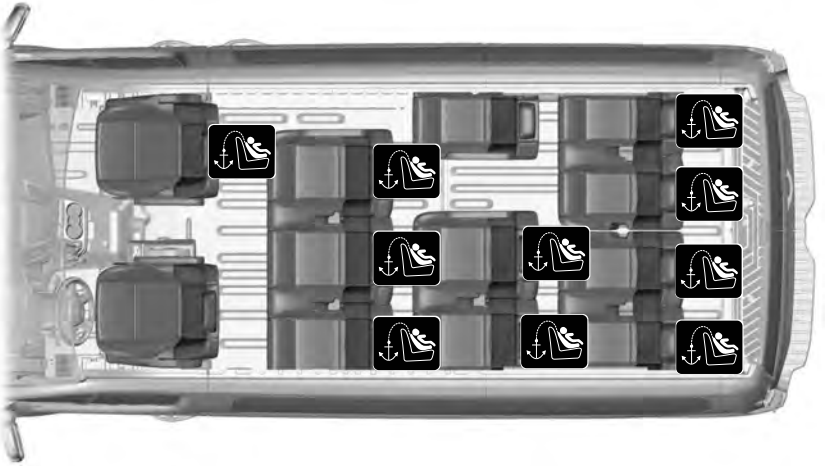

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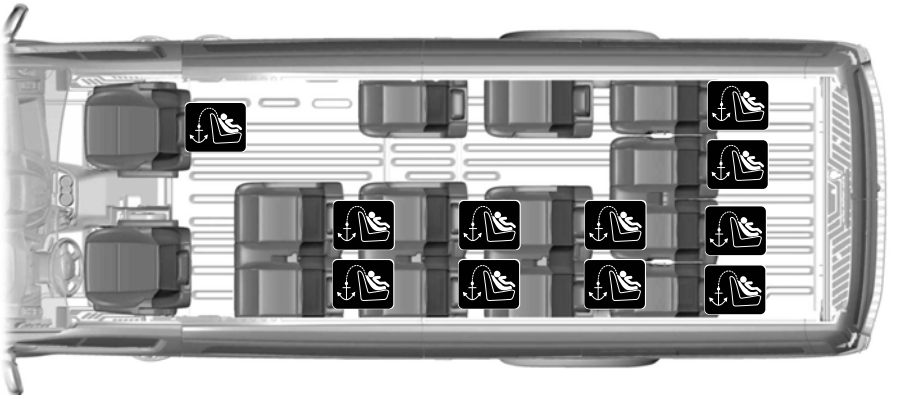

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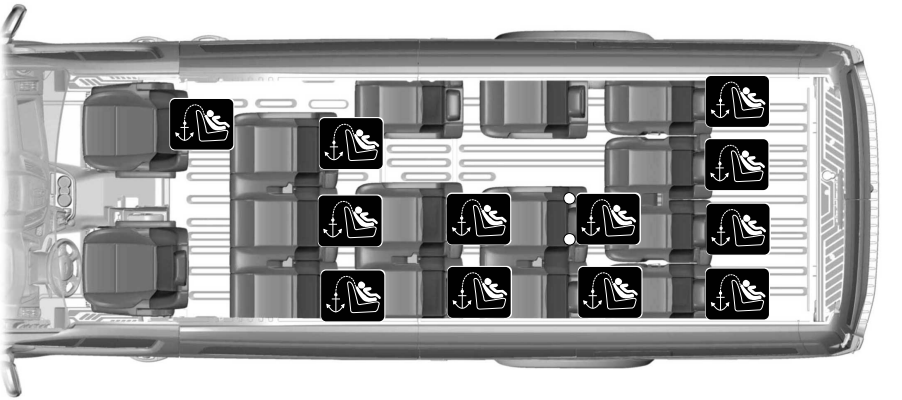

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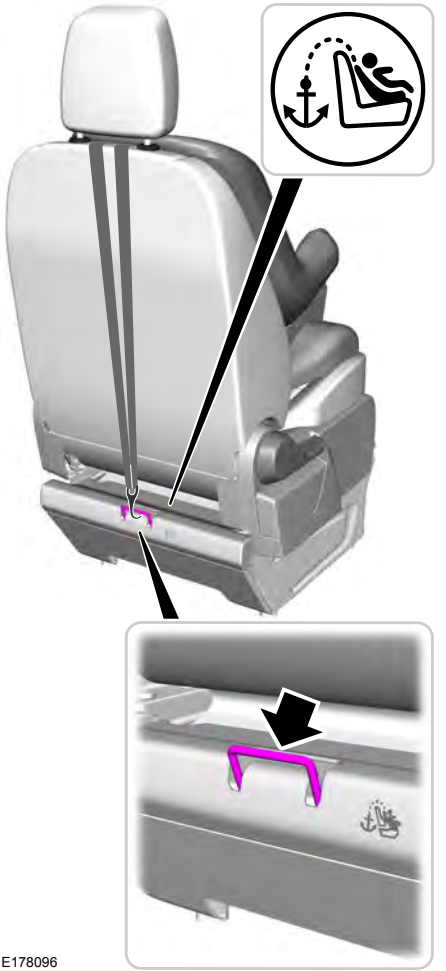
ATTACHING THE FRONT SEAT TETHER STRAP



1. Adjust the front passenger seat fully forward.
2. Route the child restraint tether strap over the back of the seat and under the head restraint.

Note: *For vehicles with adjustable head restraints, route the tether strap under the head restraint and between the head restraint posts. Otherwise, route the tether strap over the top of the seat backrest.*

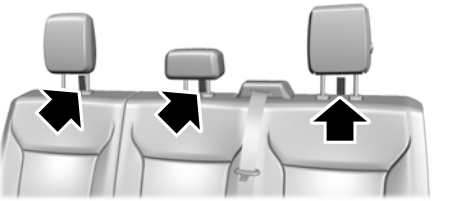
3. Locate the correct anchor for the selected seating position. You may need to pull the seat backrest forward to access the tether anchors. Make sure the seat is locked in the upright position before installing the child restraint.
4. Clip the tether strap to the anchor.
5. Tighten the child restraint tether strap according to the manufacturer's instructions.

If you incorrectly clip the tether strap, the child restraint may not be retained properly in the event of a crash.

If you did not properly anchor the child restraint, the risk of a child being injured in a crash greatly increases.

If your child restraint system has a tether strap, and the child restraint manufacturer recommends its use, we also recommend its use.

ATTACHING THE REAR SEAT TETHER STRAP



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There are three loops of webbing above the back of the rear seat. Use these loops as routing loops and anchor loops for up to three child restraint tether straps.

For example, you can use the center loop as a routing loop for a child restraint in the center rear seat and as an anchoring loop for child restraints installed in the outermost rear seats.

Many tether straps cannot be tightened if the tether strap is hooked to the loop directly behind the child restraint.

To provide a tight tether strap:

1. Route the vehicle tether loop between the head restraint posts, then route the child restraint tether strap through the loop, forward of the head restraint.
2. Hook the strap to the vehicle tether anchor loop in the adjacent seating position. If using the driver side, pass the strap behind the shoulder belt for the center seat. Put the tether strap through the routing loop. The head restraint support post holds the child restraint tightly, but the head restraint post is not strong enough to hold the child restraint during a crash.
3. Tighten the tether strap according to the child restraint manufacturer's instructions.

Perform the following steps to install a child safety restraint with tether anchors:

1. Route the child safety restraint tether strap over the back of the seat, under the head restraint and between the head restraint posts.

E177640

2. Locate the correct anchor on the back panel of the seat for the selected seating position. The anchors are labeled with the tether strap symbol and are partially covered by the gap panel. Pull the panel back to fully expose the anchors.
3. Clip the tether strap to the anchor as shown.
4. Tighten the child safety restraint tether strap according to the manufacturer's instructions.

If you did not properly anchor the child restraint, the risk of a child being injured in a crash greatly increases.

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If your child restraint system has a tether strap, and the child restraint manufacturer recommends its use, we also recommend its use.

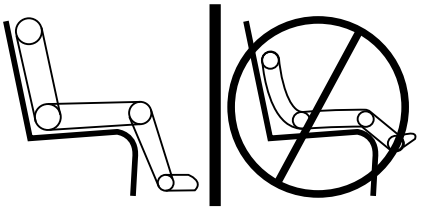
BOOSTER SEATS

Use a belt-positioning booster seat for children who have outgrown or no longer properly fit in a child restraint and meet the following criteria.

- Generally children who are less than 57 in (1.45 m) tall.
- Are greater than age four (4) and less than age twelve (12).
- Are between 40 lb (18 kg) and 80 lb (36 kg) and upward to 100 lb (45 kg).

Many state and provincial laws require that children use approved booster seats until they reach age eight, a height of 57 in (1.45 m) tall, or 80 lb (36 kg).

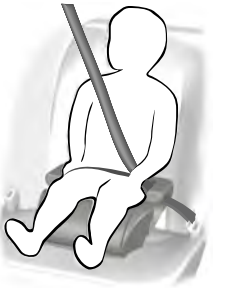
Booster seats should be used until you can answer yes to all of these questions when seated without a booster seat:



- Can the child sit all the way back against their vehicle seat backrest with knees bent comfortably at the edge of the seat cushion?
- Can the child sit without slouching?
- Does the lap belt rest low across the hips?
- Is the shoulder belt centered on the shoulder and chest?
- Can the child stay seated like this for the whole trip?

Always use booster seats in conjunction with your vehicle lap and shoulder belt.

Types of Booster Seats



- Backless booster seats

If your backless booster seat has a removable shield, remove the shield.

If a vehicle seating position has a low seat backrest or no head restraint, a backless booster seat may place your child's head, as measured at the tops of the ears, above the top of the seat. In this case, move the backless booster to another seating position with a higher seat backrest or head restraint and lap and shoulder belts, or consider using a high-back booster seat.

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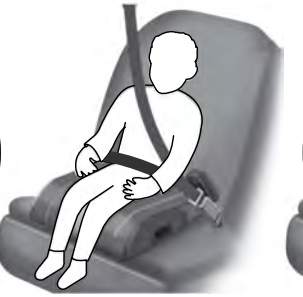
- High-back booster seats

If, with a backless booster seat, you cannot find a seating position that adequately supports your child's head, a high-back booster seat would be a better choice.

Children and booster seats vary in size and shape. Choose a booster that keeps the lap belt low and snug across the hips, never up across the stomach, and lets you adjust the shoulder belt to cross the chest and rest snugly near the center of the shoulder.

The following drawings compare the ideal fit to a shoulder belt uncomfortably close to the neck and a shoulder belt that could slip off the shoulder. The drawings also show how the lap belt should be low and snug across the child's hips.



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If the booster seat slides on the vehicle seat upon which it is being used, placing a rubberized mesh sold as shelf or carpet liner under the booster seat may improve this condition. Do not use any item thicker than this under the booster seat. Check with the booster seat manufacturer's instructions.

CHILD SAFETY LOCKS

WARNING: You cannot open the rear doors from inside if you have put the child safety locks on.

E176719

A child safety lock is on the rear edge of each rear door.

You must set the child safety lock separately on each door.

Left-Hand Side

Turn it counterclockwise to switch the child lock on and clockwise to switch it off.

Right-Hand Side

Turn it clockwise to switch the child lock on and counterclockwise to switch it off.

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SEATBELT PRECAUTIONS

WARNING: Make sure that the seatbelts are securely stowed away when not in use and not outside your vehicle when closing the doors.

WARNING: Always drive and ride with your seatback upright and the lap belt snug and low across the hips.

WARNING: Do not allow a passenger to hold a child on their lap when your vehicle is moving. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.

WARNING: All occupants of your vehicle, including the driver, should always properly wear their seatbelts, even when an airbag supplemental restraint system is provided. Failure to properly wear your seatbelt could seriously increase the risk of injury or death.

WARNING: It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a crash, 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 seatbelts. Make sure everyone in your vehicle is in a seat and properly using a seatbelt. Failure to follow this warning could result in serious personal injury or death.

WARNING: In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seatbelt.

WARNING: Each seating position in your vehicle has a specific seatbelt assembly made up of one buckle and one tongue designed to be used as a pair. Use the shoulder belt on the outside shoulder only. Never wear the shoulder belt under the arm. Never use a single seatbelt for more than one person.

WARNING: Properly secure children 12 years old and under in a rear seating position whenever possible. If you are unable to properly secure all children in a rear seating position, properly secure the largest child on the front seat. If you must use a forward facing child restraint on the front seat, move the seat as far back as possible. Failure to follow these instructions could result in personal injury or death.

WARNING: Seatbelts and seats may be hot in a vehicle that is in the sunshine. The hot seatbelts or seats may burn a small child. Check seat covers and buckles before you place a child anywhere near them.

FASTENING AND UNFASTENING THE SEATBELTS

Fastening the Seatbelts

All seatbelts in your vehicle are a three-point combination lap and shoulder seatbelt.

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A Seatbelt tongue.

B Seatbelt buckle.

1. Pull the seatbelt out steadily.

Note: *It may lock if you pull it sharply or if the vehicle is on a slope.*

2. Insert the tongue into the buckle.
3. Pull the seatbelt tight to remove any slack.

Unfastening the Seatbelts

1. Press the red button on the buckle to release the seatbelt.
2. Hold the seatbelt tongue and let it retract completely and smoothly to its stowed position.

SENSITIVE LOCKING MODE

WHAT IS SENSITIVE LOCKING MODE

Sensitive locking mode is a seatbelt retractor feature that allows shoulder belt length adjustment according to your movements and locking in response to vehicle movement.

HOW DOES SENSITIVE LOCKING MODE WORK

If the driver suddenly brakes, turns a corner sharply, or the vehicle receives an impact of about 5 mph (8 km/h) or more, the seatbelts lock to help reduce forward movement of the driver and passengers.

In addition, the seatbelt retractor locks if you pull the seatbelt webbing out too quickly. If the retractor locks, slowly lower the height adjuster to allow the seatbelt to retract.

If the retractor does not unlock, pull the seatbelt out slowly then feed a small length of webbing back toward the stowed position.

For rear seatbelts, recline the rear seat backrest or push the seat backrest cushion away from the seatbelt. Feed a small length of webbing back toward the stowed position.

AUTOMATIC LOCKING MODE

WHAT IS AUTOMATIC LOCKING MODE

This feature keeps the seatbelts pre-locked. The belt still retracts to remove any slack in the shoulder belt.

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WHEN TO USE AUTOMATIC LOCKING MODE

Use this mode any time you install a child restraint in a front seating position in a Regular Cab, Super Cab, Crew Cab or any rear seating position of a Super Cab or Crew Cab. The optional front seat center seatbelt in the Super Cab and Crew Cab has a cinch mechanism. Properly restrain children 12 years old and under in a rear seat whenever possible. See **Child Safety** (page 34).

Note: *Automatic locking mode is not available on the driver seatbelt.*

ENGAGING AUTOMATIC LOCKING MODE

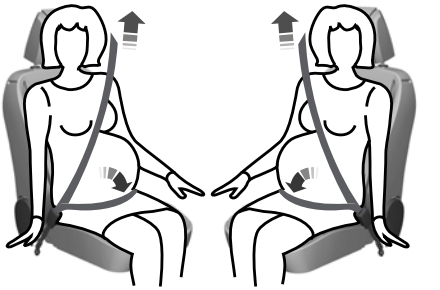
1. Fasten the combination lap and shoulder belt.
2. Grasp the shoulder portion and pull downward until you pull the entire belt out.
3. Allow the belt to retract. As the belt retracts, you will hear a clicking sound. This indicates the seatbelt is now in the automatic locking mode.

DISENGAGING AUTOMATIC LOCKING MODE

Unbuckle the combination lap and shoulder belt and allow it to retract completely to disengage the automatic locking mode and activate the vehicle sensitive locking mode.

ADJUSTING THE SEATBELTS DURING PREGNANCY

WARNING: Position the seatbelt correctly for your safety and that of your unborn child. Do not use only the lap strap or the shoulder strap.



Pregnant women should always wear their seatbelt. The lap belt portion of a combination lap and shoulder belt should be positioned low across the hips below the belly and worn as tight as comfort will allow. The shoulder belt portion of a combination lap and shoulder belt should be positioned to cross the middle of the shoulder and the center of the chest.

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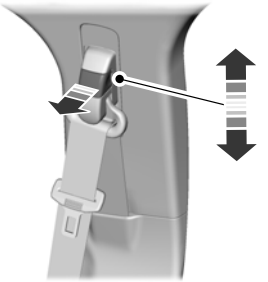
ADJUSTING THE SEATBELT HEIGHT

WARNING: Position the seatbelt height adjuster so that the seatbelt rests across the middle of your shoulder. Failure to adjust the seatbelt correctly could reduce its effectiveness and increase the risk of injury in a crash.



1. Pull the button and slide the height adjuster up or down.
2. Release the button and pull down on the height adjuster to make sure it is locked in place.

ADJUSTING THE SEATBELT LENGTH

1. Pull some seatbelt webbing out of the shoulder belt retractor.
2. While holding the webbing below the tongue, grasp the metal tip of the tongue so that it is parallel to the webbing and slide the tongue up.
3. Provide enough lap belt length so that the tongue can reach the buckle.

SEATBELT REMINDER

HOW DOES THE SEATBELT REMINDER WORK

This feature supplements the seatbelt warning function by providing additional reminders that intermittently sound a tone and illuminate the seatbelt warning lamp when you are in the driver seat or you have a front seat passenger and a seatbelt is unbuckled.

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The system uses information from the front passenger sensing system to determine if a front seat passenger is present and therefore potentially in need of a warning. To avoid the system switching on the Belt-Minder feature for objects you place on the front passenger seat, only the front seat passengers receive warnings as determined by the front passenger sensing system.

If the Belt-Minder warnings expire (warnings for about five minutes) for one passenger (driver or front passenger), the other passenger can still cause the Belt-Minder feature to switch on.

If	Then
You and the front seat passenger buckle your seatbelts before you switch the ignition on or less than 1–2 minutes elapse after you switch the ignition on...	The Belt-Minder feature will not activate.
You or the front seat passenger do not buckle your seatbelts before your vehicle reaches at least 6.0 mph (9.7 km/h) and 1–2 minutes elapse after you switch the ignition on...	The Belt-Minder feature activates, the seatbelt warning lamp illuminates and an indicator tone sounds for 6 seconds every 25 seconds, repeating for about 5 minutes or until you and the front seat passenger buckle your seatbelts.
The seatbelt for the driver or front passenger is unbuckled for about 1 minute while the vehicle is traveling at least 6.0 mph (9.7 km/h) and more than 1–2 minutes elapse after you switch the ignition on...	The Belt-Minder feature activates, the seatbelt warning lamp illuminates and an indicator tone sounds for 6 seconds every 25 seconds, repeating for about 5 minutes or until you and the front seat passenger buckle your seatbelts.

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SEATBELT REMINDER INDICATORS

A warning lamp illuminates if the ignition is on, a front seat is occupied and the seatbelt has not been fastened.

The warning lamp illuminates until you fasten your seatbelt.

SEATBELT REMINDER AUDIBLE WARNINGS

A warning tone sounds if the warning lamp illuminates and your vehicle exceeds a relatively low speed.

The warning tone sounds for up to five minutes or until you fasten your seatbelt.

SWITCHING THE SEATBELT REMINDER ON AND OFF

WARNING: While the system allows you to deactivate it, this system is designed to improve your chances of being safely belted and surviving an accident. We recommend you leave the system activated for yourself and others who may use the vehicle.

Note: *The driver and front passenger warnings switch off independently. When you perform this procedure for one seating position, do not buckle the other position as this cancels the process.*

Note: *If you are using MyKey, you cannot disable the seatbelt reminder. Also, if the seatbelt reminder has been previously disabled, it will be re-enabled during the use of MyKey. See* ***MyKey™*** *(page 83).*

Read Steps 1 - 4 before proceeding with the programming procedure.

Make sure that:

- The parking brake is set.
- The transmission is in park (P).
- The ignition is off.
- The driver and front passenger seatbelts are unfastened.

1. Switch the ignition on. Do not start the engine.
2. Wait about one minute until the seatbelt warning light switches off. After Step 2, wait an additional five seconds before proceeding with Step 3. Once you start Step 3, you must complete the procedure within 30 seconds.
3. For the seating position you are switching off, buckle then unbuckle the seatbelt three times at a moderate speed, ending in the unbuckled state. After Step 3, the seatbelt warning light switches on.
4. When the seatbelt warning light is on, buckle then unbuckle the seatbelt. After Step 4, the seatbelt warning light flashes for confirmation.

This switches the feature off for that seating position if it is currently on.

This switches the feature on for that seating position if it is currently off.

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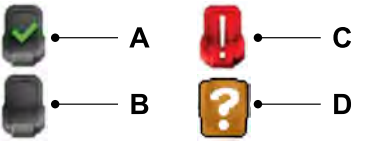
CHECKING SEATBELT STATUS - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC



A Seatbelt fastened.

B Seatbelt not fastened.

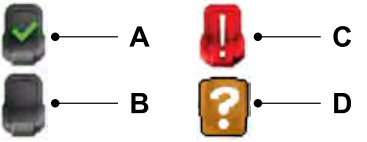
C Rear seatbelt recently unfastened.

D Fault.

Checking Seatbelt Status

1. Press the menu button on the steering wheel to enter the information display main menu.
2. Select ***Settings***.
3. Select ***Information***.
4. Select ***Seatbelts***.

CHECKING SEATBELT STATUS - VEHICLES WITH: SYNC 4



A Seatbelt fastened.

B Seatbelt not fastened.

C Rear seatbelt recently unfastened.

D Fault.

Checking Seatbelt Status

1. Press the menu button on the steering wheel to enter the information display main menu.
2. Select ***Select Screens***.
3. Select ***Seatbelts***.

CHECKING THE SEATBELTS

Check the seatbelts and child restraints periodically to make sure they work properly and are not damaged. Make sure there are no nicks, tears or cuts. Replace if necessary.

Check the following seatbelt assemblies after a crash.

- Retractors.
- Buckles.
- Front seatbelt buckle assemblies.
- Shoulder belt height adjusters.
- Shoulder belt guide on seat backrest.
- Child restraint LATCH and tether anchors.
- Attaching hardware.

Read the child restraint manufacturer's instructions for additional inspection and maintenance information specific to the child restraint.

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We recommend that all seatbelt assemblies in use in vehicles involved in a crash be replaced. However, if the crash was minor and an authorized dealer finds that the belts do not show damage and continue to operate properly, they do not need to be replaced. Seatbelt assemblies not in use during a crash should also be checked and replaced if either damage or improper operation is noted.

Properly care for seatbelts. See **Cleaning Seatbelts** (page 409).

SEATBELT EXTENSIONS

WARNING: Persons who fit into the vehicle's seatbelt should not use an extension. Unnecessary use could result in serious personal injury in the event of a crash.

WARNING: Only use extensions provided free of charge by our dealers. The dealer will provide an extension designed specifically for this vehicle, model year and seating position. The use of an extension intended for another vehicle, model year or seating position may not offer you the full protection of your vehicle's seatbelt restraint system.

WARNING: Never use seatbelt extensions to install child restraints.

WARNING: Do not use extensions to change the way the seatbelt fits across the torso, over the lap or to make the seatbelt buckle easier to reach.

If, because of body size or driving position, it is not possible to properly fasten the seatbelt over your lap and shoulder, an extension that is compatible with the seatbelts is available free of charge from our dealers. Only use our seatbelt extensions made by the original equipment seatbelt manufacturer with our seatbelts. Ask your authorized dealer if your extension is compatible with your vehicle restraint system.

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WHAT IS THE PERSONAL SAFETY SYSTEM

An advanced safety system that protects occupants in frontal crashes.

HOW DOES THE PERSONAL SAFETY SYSTEM WORK

This system provides an improved level of frontal crash protection to front seat occupants and is designed to reduce the risk of airbag-related injuries. The system analyzes occupant conditions and crash severity before activating the appropriate safety devices. During a crash, the restraints control module may deploy the seatbelt pretensioners, and one or both stages of the dual-stage airbags based on crash severity and occupant conditions.

PERSONAL SAFETY SYSTEM COMPONENTS

- Driver and passenger dual-stage airbag supplemental restraints.
- Front seat outermost seatbelts with pretensioners, energy management retractors and seatbelt usage sensors.
- Front passenger sensing system.
- Passenger airbag off and on indicators.
- Front crash severity sensors.
- Restraints control module with impact and safing sensors.
- Restraint system warning light and tone.
- The electrical wiring for the airbags, crash sensors, seatbelt pretensioners, front seatbelt usage sensors, front passenger sensing system and indicator lights.

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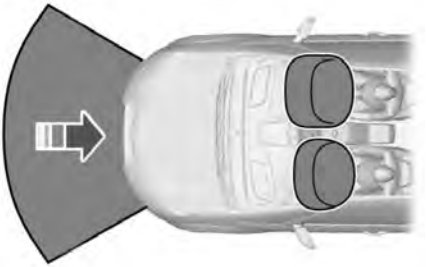
HOW DO THE FRONT AIRBAGS WORK



The driver and front passenger airbags deploy during significant frontal and near frontal crashes.

The driver and passenger front airbag system consists of:

- Driver and passenger airbag modules.
- Front passenger sensing system.
- Crash sensors and monitoring system with readiness indicator. See **Crash Sensors and Airbag Indicator** (page 72).

The airbags are a supplemental restraint system and are designed to work with the seatbelts to help protect the driver and right front passenger from certain upper body injuries. Airbags do not inflate slowly; there is a risk of injury from a deploying airbag.

Note: *You will hear a loud bang and see a cloud of harmless powdery residue if an airbag deploys. This is normal.*

The airbags inflate and deflate rapidly upon activation. After airbag deployment, it is normal to notice a smoke-like, powdery residue or smell the burnt propellant. This may consist of cornstarch, talcum powder (to lubricate the bag) or sodium compounds (for example, baking soda) that result from the combustion process that inflates the airbag. Small amounts of sodium hydroxide may be present which may irritate the skin and eyes, but none of the residue is toxic.

Contact with a deploying airbag may cause abrasions or swelling. Temporary hearing loss is also a possibility as a result of the noise associated with a deploying airbag.

Because airbags must inflate rapidly and with considerable force, there is the risk of death or serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of airbag deployment. Thus, it is extremely important that occupants be properly restrained as far away from the airbag module as possible while maintaining vehicle control.

Routine maintenance of the airbags is not required.

HOW DO THE SIDE AIRBAGS WORK

WARNING: Do not place objects or mount equipment on or near the airbag cover, on the side of the front or rear seatbacks, or in areas that may come into contact with a deploying airbag. Failure to follow these instructions may increase the risk of personal injury in the event of a crash.

WARNING: Accessory seat covers not released by Ford Motor Company could prevent the deployment of the airbags and increase the risk of injuries in a crash.

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WARNING: Do not lean your head on the door. The side airbag could injure you as it deploys from the side of the seatback.

The side airbags are on the outermost side of the seat backrests of the front seats. In certain sideways crashes or rollovers, the airbags will be inflated. The airbag was designed to inflate between the door panel and occupant to further enhance the protection provided to occupants in side impact crashes.

The system consists of the following:

- A label or embossed side panel indicating that side airbags are fitted to your vehicle.
- Side airbags inside the driver and front passenger seat backrests.
- Crash sensors and monitoring system with readiness indicator. See **Crash Sensors and Airbag Indicator** (page 72).

HOW DOES THE SAFETY CANOPY™ WORK

WARNING: Do not place objects or mount equipment on or near the headliner at the siderail that may come into contact with a deploying curtain airbag. Failure to follow these instructions may increase the risk of personal injury in the event of a crash.

WARNING: Do not lean your head on the door. The curtain airbag could injure you as it deploys from the headliner.

WARNING: To reduce risk of injury, do not obstruct or place objects in the deployment path of the airbag.

The Safety Canopy deploys during significant side crashes or when a certain likelihood of a rollover event is detected by the rollover sensor. The Safety Canopy is mounted to the roof side-rail sheet metal, behind the headliner, above each row of seats. In certain sideways crashes or rollover events, the Safety Canopy will be activated, regardless of which seats are occupied. The Safety Canopy inflates between the side window area and occupants to further enhance protection provided in side impact crashes and rollover events.

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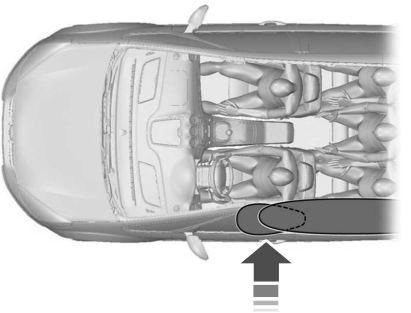

The system consists of the following:

- Safety Canopy curtain airbags above the trim panels over the front and rear side windows identified by a label or wording on the headliner or roof-pillar trim.
- A flexible headliner which opens above the side doors to allow air curtain deployment

· Crash sensors and monitoring system with a readiness indicator. See **Crash Sensors and Airbag Indicator** (page 72).

Properly restrain children 12 years old and under in the rear seats. The Safety Canopy will not interfere with children restrained using a properly installed child or booster seat because it is designed to inflate downward from the headliner above the doors along the side window opening.

AIRBAG PRECAUTIONS

WARNING: Airbags do not inflate slowly or gently, and the risk of injury from a deploying airbag is the greatest close to the trim covering the airbag module.

WARNING: All occupants of your vehicle, including the driver, should always properly wear their seatbelts, even when an airbag supplemental restraint system is provided. Failure to properly wear your seatbelt could seriously increase the risk of injury or death.

WARNING: Properly secure children 12 years old and under in a rear seating position whenever possible. If you are unable to properly secure all children in a rear seating position, properly secure the largest child on the front seat. If you must use a forward facing child restraint on the front seat, move the seat as far back as possible. Failure to follow these instructions could result in personal injury or death.

WARNING: Do not place your arms on the airbag cover or through the steering wheel. Failure to follow this instruction could result in personal injury.

WARNING: Keep the areas in front of the airbags free from obstruction. Do not affix anything to or over the airbag covers. Objects could become projectiles during airbag deployment. Failure to follow this instruction could result in personal injury or death.

WARNING: To reduce risk of injury, do not obstruct or place objects in the deployment path of the airbag.

WARNING: Do not place a rearward facing child restraint in front of an active airbag. Failure to follow this instruction could result in personal injury or death.

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WARNING: Do not attempt to service, repair, or modify the supplementary restraint system or associated components. Failure to follow this instruction could result in personal injury or death.

WARNING: Several airbag system components get hot after inflation. To reduce the risk of injury, do not touch them after inflation.

WARNING: If a supplementary restraint system component has deployed, it will not function again. Have the system and associated components inspected as soon as possible. Failure to follow this instruction could result in personal injury or death.

PROPERLY ADJUSTING THE DRIVER AND FRONT PASSENGER SEATS

WARNING: National Highway Traffic Safety Administration (NHTSA) recommends a minimum distance of at least 10 in (25 cm) between an occupant's chest and the driver airbag module.

To properly position yourself away from the airbag:

- Move your seat to the rear as far as you can while still reaching the pedals comfortably.
- Recline the seat slightly one or two degrees from the upright position.

After all occupants have adjusted their seats and put on seatbelts, it is very important that they continue to sit properly. Properly seated occupants sit upright, lean against the seat backrest, and center themselves on the seat cushion, with their feet comfortably extended on the floor. Sitting improperly can increase the chance of injury in a crash event. For example, if an occupant slouches, lies down, turns sideways, sits forward, leans forward or sideways, or puts one or both feet up, the chance of injury during a crash greatly increases.

CHILDREN AND AIRBAGS

WARNING: Do not place a rearward facing child restraint in front of an active airbag. Failure to follow this instruction could result in personal injury or death.

Children must always be properly restrained. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position. Failure to follow these instructions may increase the risk of injury in a crash.

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If two adults and a child occupy a vehicle without rear seats, properly restrain the child in the center front seat unless doing so would interfere with driving your vehicle. This provides lap and shoulder belt protection for all occupants, and airbag protection for the adults. A child or infant properly restrained in the center front seat should have a reduced risk to serious injury from the airbags.

CRASH SENSORS AND AIRBAG INDICATOR

WARNING: Modifying or adding equipment to the front end of your vehicle (including hood, bumper system, frame, front end body structure, tow hooks and hood pins) may affect the performance of the deployable hood system, increasing the risk of injury. Do not modify or add equipment to the front end of your vehicle.

Your vehicle has a collection of crash and occupant sensors. These sensors provide information to the restraints control module which activates the following:

- Front and rear seatbelt pretensioners.
- Driver airbag.
- Passenger airbag.
- Seat mounted side airbags.
- Safety Canopy.

Based on the type of crash, the restraints control module deploys the appropriate safety devices.

The restraints control module also monitors the readiness of the above safety devices plus the crash and occupant sensors. The readiness of the safety system is indicated by a warning indicator light in the instrument cluster or by a backup tone if the warning light is not working. Routine maintenance of the airbag is not required.

A difficulty with the system is indicated by one or more of the following:

The readiness light will not illuminate immediately after you switch the ignition on.

- The readiness light either flashes or stays on.
- You hear a series of five tones. The tone pattern repeats periodically until the problem, the light or both are repaired.

If any of these things happen, even intermittently, have the supplemental restraint system serviced immediately. Unless serviced, the system may not function properly in the event of a crash.

The fact that the seatbelt pretensioners or front airbags did not activate for both front seat occupants in a crash does not mean that something is wrong with the system. Rather, it means the restraints control module determined the accident conditions (crash severity, seatbelt usage) were not appropriate to activate these safety devices.

- The front airbags activate only in frontal and near-frontal crashes. Front airbags may activate in rollovers, side impacts or rear impacts if the crash causes sufficient frontal deceleration.
- The seatbelt pretensioners activate in frontal, near-frontal and side crashes, and in rollovers.

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- The side airbags inflate in certain side impact crashes or rollover events. Side airbags may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation.
- The Safety Canopy inflates in certain side impact crashes or rollover events. The Safety Canopy may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation, or a certain likelihood of rollover.

DISPOSING OF AIRBAGS

Contact your authorized dealer as soon as possible. Airbags must be disposed of by qualified personnel.

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WHAT IS THE PEDESTRIAN ALERT SYSTEM

Electric drive vehicles can be extremely quiet. The pedestrian alert system is designed to generate a sound to alert pedestrians to the presence of an electric drive vehicle.

PEDESTRIAN ALERT SYSTEM – TROUBLESHOOTING

PEDESTRIAN ALERT SYSTEM – INFORMATION MESSAGES

Message	Condition	Action
Pedestrian Sounder Fault Service Now	The system has malfunctioned.	Have your vehicle checked as soon as possible.

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WHAT IS 911 ASSIST

911 Assist is a SYNC system feature that can call for help.

For more information, visit www.owner.ford.com.

HOW DOES 911 ASSIST WORK - 3.5L DURATEC/3.5L ECOBOOST™

If a crash deploys an airbag, excluding knee airbags and rear inflatable seatbelts, or activates the fuel pump shut-off, your vehicle may be able to contact emergency services by dialing 911 through a paired and connected ***Bluetooth***®-enabled phone.

Not all crashes will deploy an airbag or activate the fuel pump shut-off. If a connected cell phone sustains damage or loses its connection to SYNC during a crash, SYNC will search for and try to connect to a previously paired cell phone. SYNC will then attempt to call the emergency services.

Before making the call:

- SYNC provides about 10 seconds to cancel the call. If you fail to cancel the call, SYNC attempts to dial 911.
- SYNC says the following, or a similar message: "SYNC will attempt to call 911, to cancel the call, press Cancel on your screen or press and hold the phone button on your steering wheel."

If you do not cancel the call and SYNC makes a successful call a pre-recorded message plays for the 911 operator. The occupants in your vehicle are able to talk with the operator. Be prepared to provide your name, phone number and location immediately because not all 911 systems are capable of receiving this information electronically.

During an emergency call the system transmits vehicle data to the emergency service.

HOW DOES 911 ASSIST WORK - ELECTRIC MOTOR

If a crash deploys an airbag, excluding knee airbags and rear inflatable seatbelts, or activates the battery shut-off, your vehicle may be able to contact emergency services by dialing 911 through a paired and connected ***Bluetooth***®-enabled phone.

Not all crashes will deploy an airbag or activate the battery shut-off. If a connected cell phone sustains damage or loses its connection to SYNC during a crash, SYNC will search for and try to connect to a previously paired cell phone. SYNC will then attempt to call the emergency services.

Before making the call:

- SYNC provides about 10 seconds to cancel the call. If you fail to cancel the call, SYNC attempts to dial 911.
- SYNC says the following, or a similar message: "SYNC will attempt to call 911, to cancel the call, press Cancel on your screen or press and hold the phone button on your steering wheel."

If you do not cancel the call and SYNC makes a successful call a pre-recorded message plays for the 911 operator. The occupants in your vehicle are able to talk with the operator. Be prepared to provide your name, phone number and location immediately because not all 911 systems are capable of receiving this information electronically.

During an emergency call the system transmits vehicle data to the emergency service.

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EMERGENCY CALL REQUIREMENTS

WARNING: Do not wait for 911 Assist to make an emergency call if you can do it yourself. Dial emergency services immediately to avoid delayed response time which could increase the risk of serious injury or death after a crash. If you do not hear 911 Assist within five seconds of the crash, the system or phone may be damaged or non-functional.

WARNING: Always place your phone in a secure location in your vehicle so it does not become a projectile or get damaged in a crash. Failure to do so may cause serious injury to someone or damage the phone which could prevent 911 Assist from working properly.

WARNING: Unless the 911 Assist setting is set on before a crash, the system will not dial for help which could delay response time, potentially increasing the risk of serious injury or death after a crash.

- SYNC must be powered and working properly at the time of the incident and throughout feature activation and use.
- The 911 Assist feature must be set on before the incident.
- You must pair and connect a ***Bluetooth®*** enabled and compatible cell phone to SYNC.
- A connected ***Bluetooth®*** enabled phone must have the ability to make and maintain an outgoing call at the time of the incident.
- A connected ***Bluetooth®*** enabled phone must have adequate network coverage, battery power and signal strength.
- The vehicle must have battery power and be located in the U.S., Canada or in a territory in which 911 is the emergency number.

Note: *If any user sets 911 Assist to on or off, that setting applies for all paired phones. If 911 Assist is switched off and the phone is connected to SYNC, an icon displays on the status bar.*

Note: *Every phone operates differently. While SYNC 911 Assist works with most cellular phones, some may have trouble using this feature.*

EMERGENCY CALL LIMITATIONS

The SYNC 911 Assist feature only operates in the U.S., Canada or in a territory in which 911 is the emergency number.

- Your cellular phone or 911 Assist hardware sustains damage in a crash.
- The vehicle's battery or the SYNC system has no power.
- The phone(s) thrown from your vehicle are the ones paired and connected to the system.

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REMOTE CONTROL LIMITATIONS

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). 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.

Make sure a valid remote control is within 5 ft (1.5 m) from the front door handles and rear of vehicle.

The system may not function if:

- The remote control remains stationary for about a minute.
- The vehicle battery has no charge.
- The remote control battery has no charge.
- There is interference causing issues with the remote control frequencies.
- The remote control is too close to metal objects or electronic devices, for example keys or a cell phone.

OPENING AND CLOSING THE FLIP KEY

Press the button to release the key. Press and hold the button to fold the key back when not in use.

REMOVING THE KEY BLADE - VEHICLES WITH: PUSH BUTTON START

Push the release button and pull the key blade out.

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SOUNDING THE PANIC ALARM

Press the button to sound the panic alarm. Press the button again or switch the vehicle on to turn it off.

Note: *The panic alarm only operates when the vehicle is off.*

LOCATING YOUR VEHICLE

Press the lock button on the key twice within three seconds. The direction indicators will flash.

CHANGING THE REMOTE CONTROL BATTERY - VEHICLES WITH: KEYED IGNITION

WARNING: Keep batteries away from children to prevent ingestion. Failure to follow this instruction could result in personal injury or death. If ingested, immediately seek medical attention.

WARNING: If the battery compartment does not securely close, stop using the remote control and replace it as soon as possible. In the meantime, keep the remote control away from children. Failure to follow this instruction could result in personal injury or death.

CAUTION: The battery can cause severe or fatal injuries in two hours or less if swallowed or placed inside any part of the body. Seek medical attention immediately.

Make sure that you dispose of old batteries in an environmentally friendly way. Seek advice from your local authority about recycling old batteries.

The remote control uses one coin-type three-volt lithium battery CR2032 or equivalent.

1. Press the key release button.

2. Insert a suitable tool, for example a screwdriver, in the position shown and gently push the clip.
3. Press the clip down to release the battery cover.

4. Carefully remove the cover.

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5. Insert a screwdriver as shown to release the battery.

Note: *Do not touch the battery contacts or the printed circuit board with the screwdriver.*

6. Remove the battery.
7. Install a new battery with the **+** facing upward.
8. Replace the battery cover.

CHANGING THE REMOTE CONTROL BATTERY - VEHICLES WITH: PUSH BUTTON START

WARNING: Keep batteries away from children to prevent ingestion. Failure to follow this instruction could result in personal injury or death. If ingested, immediately seek medical attention.

WARNING: If the battery compartment does not securely close, stop using the remote control and replace it as soon as possible. In the meantime, keep the remote control away from children. Failure to follow this instruction could result in personal injury or death.

Make sure that you dispose of old batteries in an environmentally friendly way. Seek advice from your local authority about recycling old batteries.

The remote control uses one coin-type three-volt lithium battery CR2450 or equivalent.

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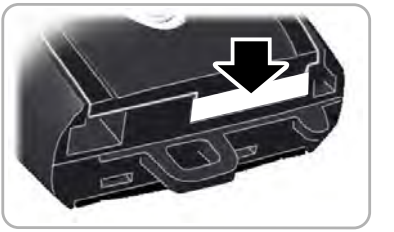
1. Push the release button and pull the key blade out.



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2. Twist a thin coin under the tab hidden behind the key blade head to remove the battery cover.

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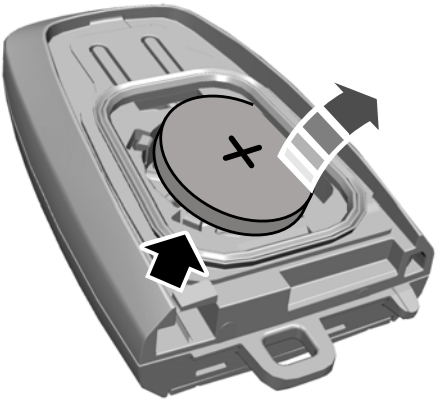

3. Insert a suitable tool, for example a screwdriver, in the position shown and carefully remove the battery.

4. Install a new battery with the + facing upward.

Note: *Do not wipe off any grease on the battery terminals or on the back surface of the circuit board.*

5. Reinstall the battery cover and the key blade.

REPLACING A LOST KEY OR REMOTE CONTROL

You can purchase replacement keys or remote controls from an authorized dealer. If possible, provide them with the key number from the tag provided with the original key. You can also obtain extra keys.

PROGRAMMING THE REMOTE CONTROL

Contact an authorized dealer to program remote controls for your vehicle.

KEYS AND REMOTE CONTROLS – TROUBLESHOOTING

KEYS AND REMOTE CONTROLS – INFORMATION MESSAGES

Message	Action
Key Battery Low Replace Soon	Displays when the remote control battery requires replacing.

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FREQUENTLY ASKED QUESTIONS

Question	Answer
What is the fan noise I hear when I press the unlock button on the remote control?	This is the blower motor pushing fresh air into the cabin and out through cabin exhaust vents. Your vehicle has air purge that could turn on when you press the unlock button on the remote control or when certain conditions are met.

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WHAT IS MYKEY

MyKey allows you to program keys with restricted settings to promote good driving habits.

MYKEY SETTINGS

NON-CONFIGURABLE MYKEY SETTINGS

Seatbelt Reminder or Belt-Minder™

MyKey mutes the audio system until the front seat belts are buckled.

Note: *If your vehicle includes an AM/FM radio or a very basic audio system, then the radio may not mute.*

Satellite Radio (If Equipped)

Some Satellite radio channels have restricted access to adult radio content.

Driving and Parking Aids

Settings for parking aids, blind spot information system, and cross traffic alert cannot be configured. These systems turn on when the vehicle turns on and cannot be switched off with a MyKey.

Settings for pre-collision assist and lane keeping cannot be configured. These systems turn on when the vehicle turns on but can be switched off with a MyKey.

A new destination in the navigation system can only be set using voice commands when using a MyKey, and with your vehicle moving.

Note: *MyKey drivers may be able to turn the lane departure warning feature off, but this feature turns back on automatically with every new key cycle.*

CONFIGURABLE MYKEY SETTINGS

You can configure the following settings after creating a MyKey. See **Creating a MyKey** (page 84).

Speed Limit

WARNING: Do not set MyKey maximum speed limit to a limit that will prevent the driver from maintaining a safe speed considering posted speed limits and prevailing road conditions. The driver is always responsible to drive in accordance with local laws and prevailing conditions. Failure to do so could result in accident or injury.

You can set a speed limit for your vehicle. Warning messages appear in the information display and a tone sounds if your vehicle reaches the set speed. You cannot override the set speed when using a MyKey.

Speed Reminder

You can set a speed reminder for your vehicle. Warning messages appear in the information display and a tone sounds if your vehicle exceeds the set speed.

Audio System Volume Limit

The audio system maximum volume is reduced. A message appears in the information display if you attempt to exceed the volume limit. Automatic volume control turns off.

Emergency Assistance

If you set emergency assistance to be always on, it cannot be switched off with a MyKey.

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Do Not Disturb

If you set do not disturb to be always on, it cannot be switched off with a MyKey.

Traction and Stability Control

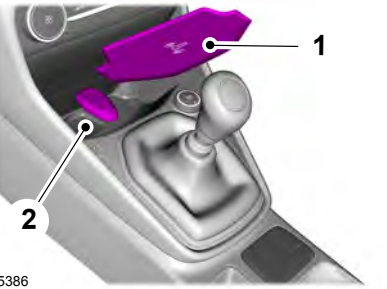
If you set traction control or stability control to be always on, you cannot switch it off with a MyKey.

CREATING A MYKEY - VEHICLES WITH: KEYED IGNITION

1. Switch the ignition on using an admin key.
2. Using the information display controls on the steering wheel, select ***Settings***.
3. Select ***MyKey***.
4. Select ***Create MyKey***.
5. Press and hold the ***OK*** button until a confirmation message appears in the information display.
6. Switch the ignition off.

Note: *We recommend that you label this key.*

CREATING A MYKEY - VEHICLES WITH: PUSH BUTTON START



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1. Remove the rubber mat.
2. Place the admin key in the position shown, with the buttons facing upward.
3. Switch the ignition on.
4. Using the information display controls on the steering wheel, select ***Settings***.
5. Select ***MyKey***.
6. Select ***Create MyKey***.
7. Press and hold the ***OK*** button until a confirmation message appears in the information display.
8. Switch the ignition off.

Note: *We recommend that you label this key.*

PROGRAMMING A MYKEY

You can only program MyKeys to the same settings.

1. Switch the ignition on using an admin key.
2. Using the information display controls on the steering wheel, select ***Settings***.
3. Select ***MyKey***.

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4. Select a setting and press the ***OK*** button.
5. Configure the setting.
6. Switch the ignition off.

CLEARING ALL MYKEYS

When you clear all MyKeys, you remove all restrictions and return all MyKeys to their original admin key status.

1. Switch the ignition on using an admin key.
2. Using the information display controls on the steering wheel, select ***Settings***.
3. Select ***MyKey***.
4. Select ***Clear MyKeys***.
5. Press and hold the ***OK*** button until a confirmation message appears in the information display.

CHECKING MYKEY SYSTEM STATUS

You can find information about the distance traveled using a MyKey and also the number of admin keys and MyKeys created for your vehicle.

1. Switch the ignition on.
2. Using the information display controls on the steering wheel, select ***Settings***.
3. Select ***MyKey***.
4. Select ***MyKey Info***.

USING MYKEY WITH REMOTE START SYSTEMS

The system is not compatible with non-Ford remote start systems.

MYKEY – TROUBLESHOOTING

MYKEY – INFORMATION MESSAGES - VEHICLES WITH: KEYED IGNITION

Message	Description
Key is Already a MyKey	Displays when trying to create a MyKey with a key already designated as a MyKey.
This Key restricted at Next Key Cycle. Label Key as MyKey	Displays to confirm that the key is restricted after you switch the ignition off.

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MYKEY – INFORMATION MESSAGES - VEHICLES WITH: PUSH BUTTON START

Message	Description
Place Key in Backup Location	Displays when trying to create a MyKey and the admin key is not placed in the backup position. See **Creating a MyKey** (page 84).
Key is Already a MyKey	Displays when trying to create a MyKey with a key already designated as a MyKey.
This Key restricted at Next Key Cycle. Label Key as MyKey	Displays to confirm that the key is restricted after you switch the ignition off.

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MYKEY – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: KEYED IGNITION

What is an admin key?

- An admin key is a key that has not been created as a MyKey. See **Creating a MyKey** (page 84).

Why can I not create a MyKey?

- The key used to switch the ignition on is not an admin key.
- The key used to switch the ignition on is the only admin key. There always has to be at least one admin key.

Why can I not program a MyKey?

- The key used to switch the ignition on is not an admin key.
- No MyKeys are created. See **Creating a MyKey** (page 84).

Why can I not clear the MyKeys?

- The key used to switch the ignition on is not an admin key.
- No MyKeys are created. See **Creating a MyKey** (page 84).

Why does the MyKey distance not accumulate?

- The key used to start the engine is an admin key.
- No MyKeys are created. See **Creating a MyKey** (page 84).
- The MyKeys have been cleared.

MYKEY – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: PUSH BUTTON START

What is an admin key?

- An admin key is a key that has not been created as a MyKey. See **Creating a MyKey** (page 84).

Why can I not create a MyKey?

- The admin key is not placed in the backup position. See **Creating a MyKey** (page 84).
- The key used to switch the ignition on is not an admin key.
- The key used to switch the ignition on is the only admin key. There always has to be at least one admin key.
- The last MyKey was created without switching the ignition off.

Why can I not program a MyKey?

- The admin key is not inside your vehicle.
- The key used to switch the ignition on is not an admin key.
- No MyKeys are created. See **Creating a MyKey** (page 84).

Why can I not clear the MyKeys?

- The admin key is not inside your vehicle.
- The key used to switch the ignition on is not an admin key.
- No MyKeys are created. See **Creating a MyKey** (page 84).

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Why does the MyKey distance not accumulate?

- The key used to start the engine is an admin key.
- An admin key and a MyKey are inside your vehicle.
- No MyKeys are created. See **Creating a MyKey** (page 84).
- The MyKeys have been cleared.

Why can I not start the engine with a MyKey?

- An admin key and a MyKey are inside your vehicle.

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OPERATING THE DOORS FROM OUTSIDE YOUR VEHICLE

UNLOCKING AND LOCKING THE DOORS USING THE REMOTE CONTROL

You can only use the remote control when your vehicle is stationary.

Unlocking the Doors

Press the button to unlock all doors.

Locking the Doors

Press the button to lock all doors. One short flash of the turn signal lamps confirms that your vehicle has locked.

Note: *For more information on operating the doors from outside your vehicle See* ***Keyless Entry*** *(page 101).*

UNLOCKING AND LOCKING THE DOORS USING THE KEY BLADE

Unlocking the Doors

1. Release the key blade from the remote control.
2. Fully insert the key into the driver door lock cylinder.
3. Turn the top of the key toward the front of your vehicle.

Locking the Doors

1. Release the key blade from the remote control.
2. Fully insert the key into the driver door lock cylinder.
3. Turn the top of the key toward the rear of your vehicle.

OPENING AND CLOSING THE DOORS

Opening the Double Rear Doors

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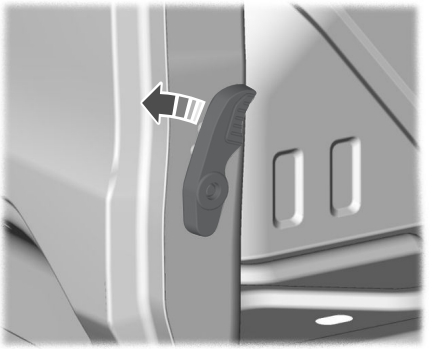

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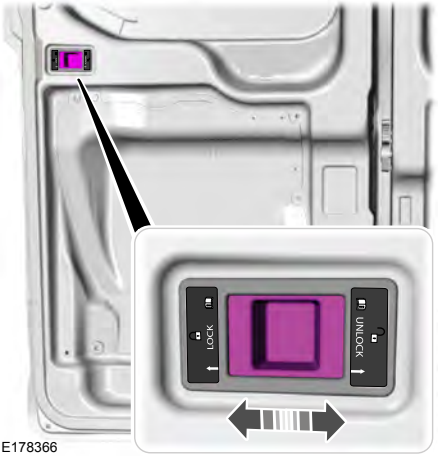
Fully Opening the Double Rear Doors



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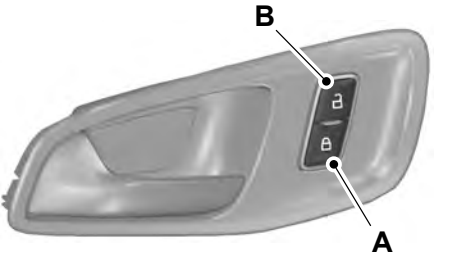
1. Slide the lever to release the catch.
2. Fully open the cargo door.

OPERATING THE DOORS FROM INSIDE YOUR VEHICLE

UNLOCKING AND LOCKING THE DOORS USING THE CENTRAL LOCKING



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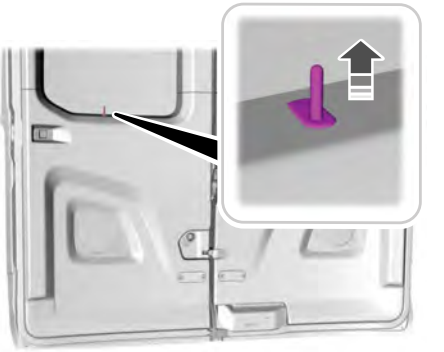
A	Lock
B	Unlock

OPENING THE REAR DOORS FROM INSIDE YOUR VEHICLE IN AN EMERGENCY

Wagon and Bus



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1. Lift the locking button up.

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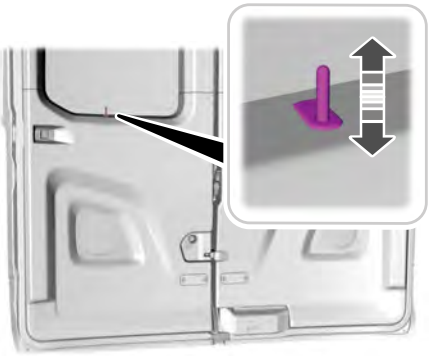
2. Pull the interior handle up to open the door in an emergency.

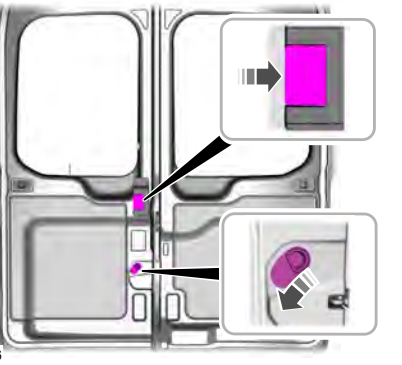
OPENING THE DOORS FROM INSIDE YOUR VEHICLE

Double Rear Door



E175828

1. Lift the locking button up.



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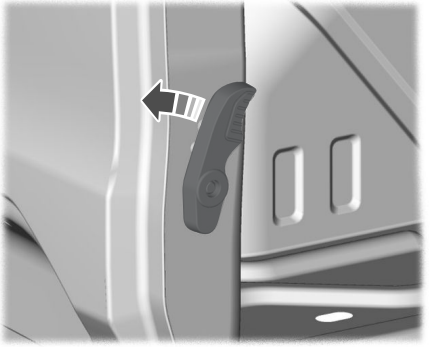
2. Pull the upper release lever toward you or slide the lower release lever downward to open the door.



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3. Pull the release lever to open the other door.

REPROGRAMMING THE UNLOCKING FUNCTION

You can program the unlocking function so that only the driver door, or cabin door unlocks.

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Press and hold the unlock and lock buttons on the remote control simultaneously for at least four seconds with the ignition off. The direction indicators flash twice to confirm the change.

To return to the original unlocking function, repeat the process.

If you program the unlocking function so that only the driver door, or cabin door unlocks, the following occurs:

- If you unlock the driver door, or cabin door first, all other doors remain locked. You can unlock all of the other doors from inside your vehicle using the power door lock control on the driver door or cabin door. Doors can be individually unlocked by pulling the interior door handles on those doors.
- If you press the unlocking button on the remote control once, only the driver door, or cabin door unlocks. Press the unlocking button on the remote control twice within three seconds to unlock all doors.
- If you unlock any other door first, all other doors and the liftgate unlock.

Note: *Depending on the locking mechanism, you can program the unlocking function to unlock the driver door or the cabin doors.*

You can also change between the unlocking modes in the information display.

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Locks***.
4. Select ***Remote Unlock***.
5. Select ***All Doors*** or ***Driver's Door***.

AUTOUNLOCK

WHAT IS AUTOUNLOCK

Autounlock is an unlocking feature that unlocks the vehicle doors when your vehicle comes to a stop.

AUTOUNLOCK REQUIREMENTS

Autounlock unlocks all the doors when all of the following occur:

- The ignition is on, all the doors are closed and your vehicle is moving at a speed greater than 12 mph (20 km/h).
- Your vehicle comes to a stop.
- You open the driver door within 10 minutes of switching the ignition off or to the accessory position.

SWITCHING AUTOUNLOCK ON AND OFF

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Locks***.
4. Switch ***Autounlock*** on or off.

AUTOLOCK

WHAT IS AUTOLOCK

Autolock is a locking feature that locks the vehicle doors when you start driving.

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AUTOLOCK REQUIREMENTS

Autolock locks all the doors when all of the following occur:

- All doors are closed.
- The ignition is on.
- Your vehicle reaches a speed greater than 12 mph (20 km/h).

AUTORELOCK (IF EQUIPPED)

HOW DOES AUTORELOCK WORK

The doors automatically relock if you do not open a door within 30 seconds of unlocking the doors with the remote control. The door locks and the alarm return to their previous state.

DOOR LOCK INDICATORS

An LED on the power door lock control illuminates when you lock the door. It remains on for up to five minutes after you switch the ignition off.

DOORS AND LOCKS AUDIBLE WARNINGS

Door Ajar Audible Warning

Sounds when a door is not fully closed and your vehicle is moving.

DOORS AND LOCKS – TROUBLESHOOTING

DOORS AND LOCKS – WARNING LAMPS

Door Ajar Warning Lamp

It illuminates when you switch the ignition on and remains on if any door or the hood is open.

DOORS AND LOCKS – INFORMATION MESSAGES

Message	Action
Driver Door Ajar	Displays if a door is open. Fully close the door.
Passenger Door Ajar	
Rear Left Door Ajar	
Rear Right Door Ajar	

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SLIDING DOOR PRECAUTIONS

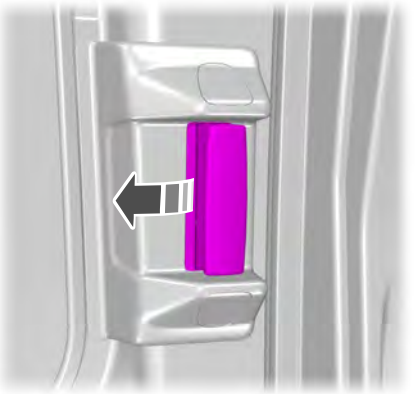
WARNING: Fully close the sliding door before driving, to prevent passengers and cargo from falling out. Failure to follow this instruction could result in personal injury or death.

WARNING: Do not open or close the sliding door when your hands are near the tracks or rollers. Failure to follow this instruction could result in personal injury.

Note: *Do not leave the sliding door open when you are driving. This could damage the sliding door and its components.*

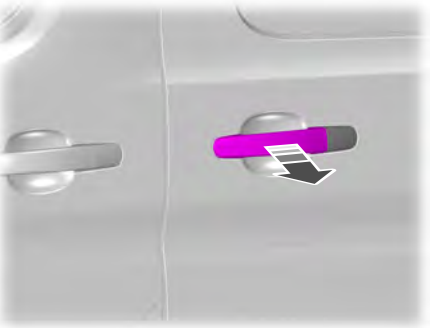
OPENING THE SLIDING DOOR

OPENING THE SLIDING DOOR FROM INSIDE YOUR VEHICLE



Pull the interior door handle to open the sliding door.

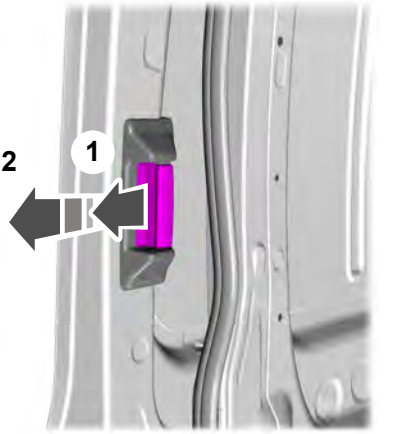
OPENING THE SLIDING DOOR FROM OUTSIDE YOUR VEHICLE



Pull the exterior door handle to open the sliding door.

CLOSING THE SLIDING DOOR

CLOSING THE SLIDING DOOR FROM INSIDE YOUR VEHICLE



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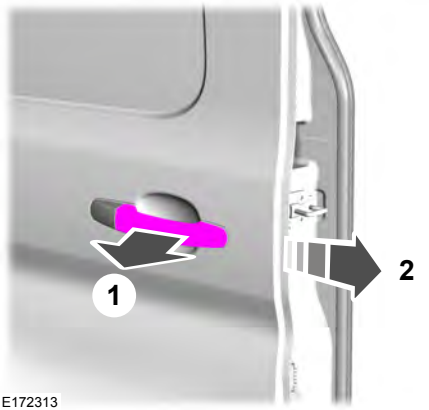
1. Pull the interior door handle to release the door check feature.
2. Slide the door to close.

CLOSING THE SLIDING DOOR FROM OUTSIDE YOUR VEHICLE



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1. Pull the exterior door handle to release the door check feature.
2. Slide the door to close.

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SLIDING DOOR PRECAUTIONS

WARNING: Fully close the power sliding door before driving, to prevent passengers and cargo from falling out. Failure to follow this instruction could result in personal injury or death.

WARNING: Do not open or close the power sliding door when your hands are near the tracks or rollers. Failure to follow this instruction could result in personal injury.

WARNING: When closing the power sliding door, verify that it is free of obstruction and make sure that people and pets are not in the proximity of the sliding door opening.

Note: *Do not leave the sliding door open when you are driving. This could damage the sliding door and its components.*

Note: *If you operate the sliding door often during a short period of time, the system could become not available for a certain time to prevent damage due to overheating.*

Allow the system to open the sliding door. Do not manually push or pull the sliding door when it is moving. This could damage the sliding door and its components.

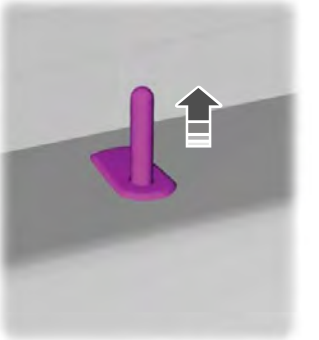
OPENING THE SLIDING DOOR

OPENING THE SLIDING DOOR FROM INSIDE YOUR VEHICLE

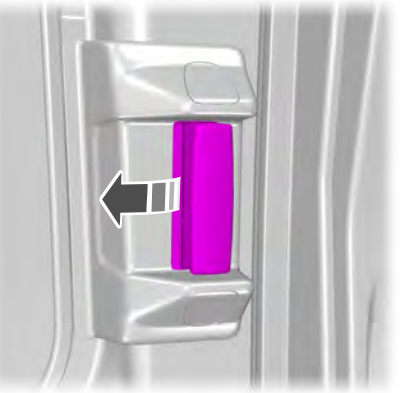
Opening the Sliding Door From Inside Your Vehicle Using the Instrument Panel Button

Press the button on the instrument panel twice to open the sliding door.

Opening the Sliding Door From Inside Your Vehicle Using the Sliding Door Handle



1. Lift the locking button up.



2. Pull and release the interior sliding door handle to open the sliding door.

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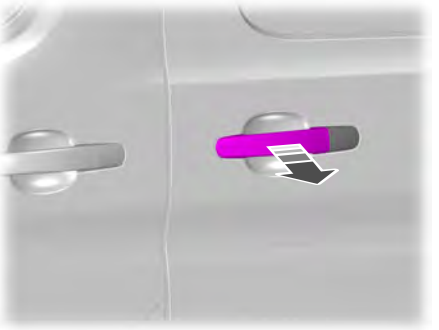
OPENING THE SLIDING DOOR FROM OUTSIDE YOUR VEHICLE



Pull and release the exterior door handle to open the sliding door.

OPENING THE SLIDING DOOR WITH THE REMOTE CONTROL

Press the button on the remote control twice within three seconds.

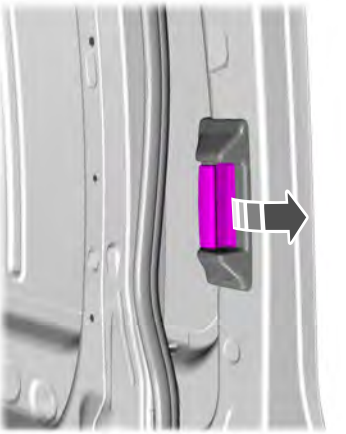
CLOSING THE SLIDING DOOR

CLOSING THE SLIDING DOOR FROM INSIDE YOUR VEHICLE

Closing the Sliding Door From Inside Your Vehicle Using the Instrument Panel Button

Press the button on the instrument panel to close the sliding door. A tone sounds when the sliding door begins to close.

Closing the Sliding Door From Inside Your Vehicle Using the Sliding Door Handle



Pull and release the interior sliding door handle to close the sliding door.

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CLOSING THE SLIDING DOOR FROM OUTSIDE YOUR VEHICLE

Pull and release the exterior door handle to close the sliding door.

CLOSING THE SLIDING DOOR WITH THE REMOTE CONTROL

Press the button on the remote control twice within three seconds. A tone sounds when the sliding door begins to close.

STOPPING THE SLIDING DOOR MOVEMENT

You can stop the sliding door movement by doing any of the following:

- Pressing the sliding door button on the remote control twice within three seconds.
- Pressing the sliding door button on the instrument panel.
- Pulling the sliding door interior or exterior door handle.

RESETTING THE POWER SLIDING DOOR

Make sure that you complete the procedure within 10 seconds.

To reset the power sliding door do the following:

1. Manually close the sliding door.

Note: *Make sure that the sliding door is fully closed.*

2. Pull the interior door handle in closing direction three times within three seconds.

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SLIDING DOOR – TROUBLESHOOTING

SLIDING DOOR – INFORMATION MESSAGES

Message	Action
Right Power Sliding Door Calibration Needed	The system has malfunctioned. Manually close the power sliding door. Pull and release the power sliding door handle to open the power sliding door. If the message continues to appear, have your vehicle checked as soon as possible.
Left Power Sliding Door Calibration Needed	
Right Rear Door Motor Disconnected See Manual	The system has malfunctioned. Reset the power sliding door. See **Resetting the Power Sliding Door** (page 98). If the message continues to appear, have your vehicle checked as soon as possible.
Left Rear Door Motor Disconnected See Manual	

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SLIDING DOOR — FREQUENTLY ASKED QUESTIONS

Why does the power sliding door stop moving?

The power sliding door stops when it detects an obstacle. A tone sounds and the power sliding door starts moving in the opposite direction. After you remove the obstacle, you can continue to operate the power sliding door.

Why is the power sliding door moving with reduced speed?

You let the power sliding door open for more than five minutes. Fully close the power sliding door using the button on the instrument panel or the power sliding door handles. Open the power sliding door as normal.

Why can I not close the power sliding door?

If the power sliding door does not close, restart the engine and then close it as normal. See **Closing the Sliding Door From Inside Your Vehicle** (page 97). If the power sliding door still does not close, manually close the power sliding door and then open it as normal. If the power sliding door still does not close the system has malfunctioned. Have your vehicle checked as soon as possible.

What can I do if the power sliding door does not operate as normal?

If there is a malfunction on the power sliding door, restart the engine.

How can I open the sliding door if the system loses power?

If the sliding door loses power, you could need to apply more force when trying to open it. Push the back of the sliding door and the interior sliding door handle in opening direction at the same time and open it as normal.

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WHAT IS KEYLESS ENTRY

The system allows you to lock and unlock your vehicle without taking the passive key out of your pocket or purse.

KEYLESS ENTRY LIMITATIONS

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A valid passive key must be within one of the three external detection ranges. These are approximately 5 ft (1.5 m) from the front door handles and the liftgate.

The system could not function if:

- The passive key remains stationary for about a minute.
- The vehicle battery has no charge.
- The passive key battery has no charge.
- The passive key frequencies are jammed.
- The passive key is too close to metal objects or electronic devices, for example keys or a cell phone.

KEYLESS ENTRY SETTINGS

Switching Keyless Entry On and Off

1. Using the instrument cluster controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Locks***.
4. Switch ***Intelligent Access*** on or off.

Reprogramming the Unlocking Function

You can program the unlocking function so that only the driver door unlocks when you touch the unlock sensor on the exterior door handle.

If you program the unlocking function so that only the driver door unlocks, the following occurs:

- If you open the driver door first, all other doors remain locked. You can unlock all of the other doors from inside your vehicle using the power door lock control on the driver door. You can unlock individual doors by pulling the interior door handles on those doors.
- If you open any other door first, all other doors and the liftgate unlock.

You can change between the unlocking modes in the information display.

1. Using the instrument cluster controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Locks***.
4. Select ***Remote Unlock***.
5. Select ***All Doors*** or ***Driver's Door***.

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USING KEYLESS ENTRY

Unlocking the Doors

Unlock sensors are on the back of the exterior front door handles.

Touch the unlock sensor to unlock your vehicle and disarm the alarm. The direction indicators flash. Do not touch the lock sensor on the outer surface of the door handle.

Keep the door handle clean to make sure the system correctly operates.

After unlocking the doors with the unlock sensor, there is a brief delay before you can lock your vehicle. When the delay period is over, you can lock the doors again, provided the passive key is within the respective detection range.

Locking the Doors

Lock sensors are on the top of the exterior front door handles.

Touch a lock sensor once to lock your vehicle and arm the alarm. The direction indicators flash.

Keep the door handle clean to make sure the system correctly operates.

Note: *Your vehicle does not automatically lock. If you do not touch a lock sensor your vehicle remains unlocked.*

After locking the doors with the lock sensor, there is a brief delay before you can unlock your vehicle. This delay lets you pull the handle to make sure your vehicle is locked. When the delay period is over, you can unlock the doors again, provided the passive key is within the respective detection range.

KEYLESS ENTRY – TROUBLESHOOTING

KEYLESS ENTRY – FREQUENTLY ASKED QUESTIONS

Why does the keyless entry system not function?

If the system does not function it may be limited. See **Keyless Entry Limitations** (page 101). If the system still does not function use the remote control or the key blade to lock and unlock your vehicle.

Why can I not lock my vehicle?

If you electronically lock your vehicle with a rear door open, the system searches for a passive key inside your vehicle after you close the last door. If the system detects a key, all doors unlock indicating that a key is inside. Your vehicle locks if another passive key is within the detection range after you close the last door.

Why does the passive key not work?

The system deactivates passive keys left inside your vehicle when you lock it. You cannot switch the ignition on using a deactivated passive key. Press the unlock button on the remote control to reactivate a passive key.

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WHAT IS THE KEYLESS ENTRY KEYPAD

The keyless entry keypad allows you to lock and unlock your vehicle using the keypad under the driver door window.

KEYLESS ENTRY KEYPAD LIMITATIONS

The system may not function if:

- The vehicle battery has no charge.

LOCATING THE KEYLESS ENTRY KEYPAD

The keypad is under the driver door window. It may illuminate when you press a button.

KEYLESS ENTRY KEYPAD MASTER ACCESS CODE

The master access code is a factory-set five-digit entry code. You can operate the keypad with the master access code at any time.

KEYLESS ENTRY KEYPAD PERSONAL ACCESS CODES

Reprogramming the Unlocking Function

You can program the unlocking function so that only the driver door, or cabin door unlocks.

Note: *Depending on the locking mechanism, you can program the unlocking function to unlock the driver door or the cabin doors.*

Press and hold the unlock and lock buttons on the remote control simultaneously for at least four seconds with the ignition off. The direction indicators flash twice to confirm the change.

To return to the original unlocking function, repeat the process.

You can also change between the unlocking modes in the instrument cluster display.

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Locks***.
4. Select ***Remote Unlock***.
5. Select ***All Doors*** or ***Driver's Door***.

Creating Personal Access Codes

1. Enter the master access code.

Note: *You can find the master access code on the owner's wallet card or at an authorised dealer.*

2. Within five seconds press and hold the 1·2 button for one second.

Note: *A red light flashes twice.*

3. Enter your personal access code.

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Note: *Your personal access code must be a five-digit code. You must enter each number within five seconds of each other.*

The doors unlock, lock and then unlock and the red light flashes twice to confirm that a personal access code has been created.

Clearing All Personal Access Codes

1. Enter the master access code.
2. Within five seconds press and hold the 1·2 button for five seconds.

USING THE KEYLESS ENTRY KEYPAD

Unlocking the Doors

Enter the master access code or your personal access code to unlock the driver door or cabin door, then press the 3·4 button within five seconds to unlock all doors.

Note: *If you program the unlocking function so that all doors unlock, you do not have to press the 3·4 button. See* ***Reprogramming the Unlocking Function*** *(page 91).*

The interior lamps illuminate to confirm that the doors have been unlocked.

Note: *Depending on the locking mechanism, you can program the unlocking function to unlock the driver door or the cabin doors.*

Unlocking the Rear Cargo Doors

Enter the master access code or your personal access code, then press the 5·6 button within five seconds.

Locking the Doors

Press and hold the 7·8 and 9·0 buttons at the same time with the driver door, or cabin door closed.

Note: *Depending on the locking mechanism, you can program the unlocking function to unlock the driver door or the cabin doors.*

KEYLESS ENTRY KEYPAD – TROUBLESHOOTING

KEYLESS ENTRY KEYPAD – FREQUENTLY ASKED QUESTIONS

Why does the keypad not accept the access code?

If you enter the access code too fast on the keypad, the unlock function may not work. Slowly re-enter the access code.

Why does the keypad not function?

The keypad goes into an anti-scan mode if you enter a wrong code seven times. The anti-scan mode disables the keypad for one minute and the red light flashes.

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PASSIVE ANTI-THEFT SYSTEM

WHAT IS THE PASSIVE ANTI-THEFT SYSTEM

The passive anti-theft system prevents someone from starting the vehicle with an incorrectly coded key.

Note: *The system is not compatible with non-Ford aftermarket remote start systems.*

Note: *Do not leave a duplicate coded key in your vehicle. Always take the keys and lock all doors when leaving your vehicle.*

ARMING THE PASSIVE ANTI-THEFT SYSTEM

The passive anti-theft system arms your vehicle after a short period of time when you switch the power off.

DISARMING THE PASSIVE ANTI-THEFT SYSTEM

The passive anti-theft system disarms when you switch the power on with a correctly coded key.

Note: *You could have difficulty starting the vehicle if you have metallic objects, electronic devices or a second coded key on the same key chain.*

ANTI-THEFT ALARM SYSTEM

WHAT IS THE ANTI-THEFT ALARM SYSTEM

The Anti-Theft Alarm System warns you of an unauthorized entry to your vehicle.

HOW DOES THE ANTI-THEFT ALARM SYSTEM WORK

When armed, the anti-theft alarm is triggered in any of the following ways:

- If someone opens a door, the liftgate or the hood without a correctly coded key or remote control.
- If you turn the power on without a correctly coded key.
- If the interior sensors detect movement inside your vehicle.
- If the inclination sensors detect an attempt to raise your vehicle.
- If someone disconnects the vehicle battery or the battery backup alarm.

If the anti-theft alarm is triggered, the alarm horn sounds for 30 seconds and the direction indicators flash for 5 minutes.

Any further attempts to carry out one of the above sounds the alarm again.

WHAT IS THE PERIMETER ALARM

The perimeter alarm is designed to detect unauthorized access to your vehicle.

WHAT ARE THE INTERIOR SENSORS

The interior sensors are designed to detect any movement inside your vehicle.

The interior sensors are in the overhead console.

Note: *Do not cover the interior sensors.*

WHAT ARE THE INCLINATION SENSORS

The inclination sensor is designed to detect an attempt to raise your vehicle, for example to remove a wheel or to tow it away.

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WHAT IS THE BATTERY BACKUP ALARM

The battery backup alarm is an additional alarm sounder that has its own battery. It can detect if the vehicle battery is disconnected to overcome the alarm system.

ARMING THE ANTI-THEFT ALARM SYSTEM

The alarm is ready to arm when your vehicle is switched off.

Lock your vehicle with your remote control to arm the alarm.

DISARMING THE ANTI-THEFT ALARM SYSTEM

Disarm the alarm by performing any of the following actions:

- Unlock the doors or luggage compartment with the remote control.
- Switch your vehicle on or start your vehicle.

ANTI-THEFT ALARM SYSTEM SETTINGS

WHAT ARE THE ALARM SECURITY LEVELS

You can select two levels of alarm security, full guard and reduced guard.

Full Guard

Full guard is the standard setting.

In full guard, all equipped sensors are on when you arm the alarm.

Note: *Do not arm the alarm with full guard if passengers, animals or other moving objects are inside your vehicle.*

Reduced Guard

In reduced guard, only the perimeter sensors are on when you arm the alarm.

Note: *The alarm security level will switch back to full guard once the power is turned on.*

SETTING THE ALARM SECURITY LEVEL - VEHICLES WITH: SYNC 4

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle Settings***.
3. Press ***Alarm System***.
4. Press ***Motion Sensors***.
5. Press a setting.

SETTING THE ALARM SECURITY LEVEL - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Alarm system***.
4. Select ***Alarm Settings***.
5. Select a setting and press the ***OK*** button.

WHAT IS ASK ON EXIT

You can choose which level of security you require after you switch the ignition off.

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After you switch the ignition off, use the information display controls on the steering wheel to select the following:

Menu Item	Action
Full guard	Press the toggle button upward or downward to choose your required setting. Press the ***OK*** button.
Reduced guard	

Note: *If you do not choose a setting, the system defaults to full guard.*

SWITCHING ASK ON EXIT ON AND OFF - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Alarm system***.
4. Select ***Ask on Exit***.
5. Switch ***Ask on Exit*** on or off.

SWITCHING ASK ON EXIT ON AND OFF - VEHICLES WITH: SYNC 4

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle Settings***.
3. Press ***Alarm System***.
4. Switch ***Ask on Exit*** on or off.

SECURITY – TROUBLESHOOTING

SECURITY – INFORMATION MESSAGES

Message	Action
No Key Detected	The system has not detected a correctly coded key.
Starting System Fault	The system has malfunctioned. Have your vehicle checked as soon as possible.
Vehicle Alarm To Stop Alarm, Start Vehicle.	Displays when the alarm has been triggered due to unauthorized entry.
Alarm Announcement	

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SECURITY – FREQUENTLY ASKED QUESTIONS

What should I do if there is any potential alarm problem with my vehicle?

Take all remote controls to an authorized dealer if there is any potential alarm problem with your vehicle.

What should I do if the vehicle is unable to start with a correctly coded key?

Have your vehicle checked as soon as possible.

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POWER RUNNING BOARD PRECAUTIONS

WARNING: In extreme climates, excessive ice buildup may occur, causing the running boards not to deploy. Make sure that the running boards have deployed, and have finished moving before attempting to step on them. The running boards will resume normal function once the blockage is cleared.

WARNING: Switch off the running boards before jacking or placing any object under your vehicle. Never place your hand between the extended running board and your vehicle. A moving running board may cause injury.

Do not use the running boards, front and rear hinge assemblies, running board motors, or the running board underbody mounts to lift your vehicle when jacking. Use proper jacking points.

The running boards could move slower in cold temperatures.

POWER RUNNING BOARD SETTINGS

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Power Steps***.
4. Select a setting.

Power Running Board Settings

Off

The power running boards remain stowed, regardless of door position.

Auto

The power running boards deploy when you open the door and stow when you close the door.

Out

The power running boards remain deployed, regardless of door position.

DEPLOYING AND STOWING THE POWER RUNNING BOARDS

The power running boards deploy when you open the door and stow when you close the door.

Note: *The power running boards reverse direction and move to the end of travel if they encounter an object when moving.*

POWER RUNNING BOARDS – TROUBLESHOOTING

POWER RUNNING BOARDS – FREQUENTLY ASKED QUESTIONS

Why is there unwanted noise coming from my power running boards?

The power running board mechanism could trap debris such as mud, dirt, snow, ice and salt. If this happens, set the running boards to the deployed position. Then, wash the system, in particular the front and rear hinge arms, with a high-pressure car wash wand.

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ADJUSTING THE STEERING WHEEL

WARNING: Do not adjust the steering wheel when your vehicle is moving.

Note: *Make sure that you are sitting in the correct position. See* ***Sitting in the Correct Position*** *(page 154).*

E95178

1. Unlock the steering column.
2. Adjust the steering wheel to the desired position.

E95179

3. Lock the steering column.

LOCKING THE STEERING WHEEL

1. Remove the key from the ignition.
2. Slightly rotate the steering wheel to engage the lock.

Unlocking the Steering Wheel

WARNING: Always check that the steering is unlocked before attempting to move your vehicle.

1. Insert the key in the ignition.
2. Turn the key to position ***I***.

Note: *You may have to slightly rotate the steering wheel to assist unlocking it.*

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WIPERS

WIPER PRECAUTIONS

Fully defrost the windshield before you switch the windshield wipers on.

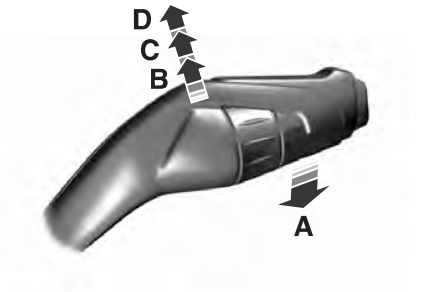
Make sure that you switch the windshield wipers off before entering a car wash.

If streaks or smears appear on the windshield, clean the windshield and the wiper blades. See **Checking the Wiper Blades** (page 112). If that does not resolve the issue, install new wiper blades. See **Replacing the Front Wiper Blades** (page 112).

Do not operate the wipers on a dry windshield. This may scratch the glass or damage the wiper blades. Always use the windshield washers before wiping a dry windshield.

When your vehicle speed increases, the interval between intermittent wipes may decrease.

SWITCHING WINDSHIELD WIPERS ON AND OFF



A Single wipe.

B Intermittent wipe.

C Normal wipe.

D High-speed wipe.

AUTOWIPERS

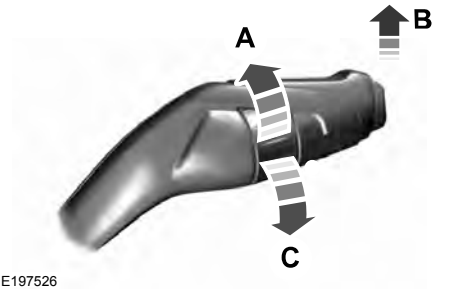
WHAT ARE AUTOWIPERS

Autowipers turns on and controls the speed and frequency of the windshield wipers.

AUTOWIPERS SETTINGS

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Wipers***.
4. Switch ***Rain Sensing*** on or off.

ADJUSTING THE SENSITIVITY OF THE RAIN SENSOR



A High sensitivity.

B Autowipers on.

C Low sensitivity.

Use the rotary control to adjust the sensitivity of the autowipers.

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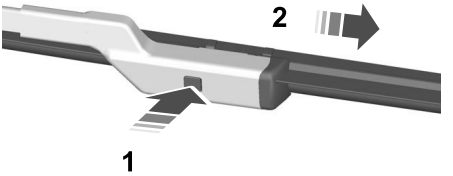
Note: *Keep the outside of the windshield clean. The rain sensor is very sensitive and the wipers may operate if dirt, mist or insects hit the windshield.*

CHECKING THE WIPER BLADES

Run the tip of your fingers over the edge of the blade to check for roughness.

REPLACING THE FRONT WIPER BLADES



1. Lift the wiper arm. Press the wiper blade locking button.

Note: *Do not hold the wiper blade when lifting the wiper arm.*

2. Remove the wiper blade

Note: *Make sure that the wiper arm does not spring back against the glass when the wiper blade is not attached.*

3. To install, reverse the removal procedure.

Note: *Make sure that the wiper blade locks into place.*

WASHERS

WASHER PRECAUTIONS

Do not operate the washers when the washer reservoir is empty. This could cause the washer pump to overheat.

USING THE WINDSHIELD WASHER

Pull the lever toward you to operate the windshield washer.

Note: *A courtesy wipe occurs a short time after the wipers stop to clear any remaining washer fluid when switched on. See* ***Switching the Courtesy Wipe On and Off*** *(page 112).*

SWITCHING THE COURTESY WIPE ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Wipers***.
4. Switch ***Courtesy Wipe*** on or off.

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ADDING WASHER FLUID

1. Remove the washer fluid reservoir cap.
2. Add washer fluid that meets our specification. See **Washer Fluid Specification** (page 462).
3. Install the washer fluid reservoir cap.

Note: *The reservoir supplies the front and rear washer systems.*

WIPERS AND WASHERS – TROUBLESHOOTING

WIPERS AND WASHERS – WARNING LAMPS

Illuminates when the windshield washer fluid is low.

WIPERS AND WASHERS – FREQUENTLY ASKED QUESTIONS

Why are there streaks and smears on the windshield?

The wiper blades could be dirty, worn or damaged. Check the wiper blades. See **Checking the Wiper Blades** (page 112). If the wiper blades are dirty, clean them with washer fluid or water applied with a soft sponge or cloth. If the wiper blades are worn or damaged, install new ones. See **Replacing the Front Wiper Blades** (page 112).

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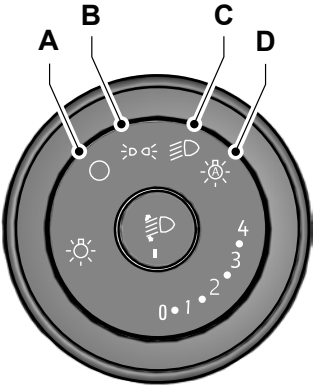
EXTERIOR LIGHTING CONTROL



A Lamps off.

B Parking lamps, instrument panel lamps and license plate lamps.

C Headlamps.

D Autolamps. See **What Are Autolamps** (page 115).

Rotate the control to make a selection.

HEADLAMPS

USING THE HIGH BEAM HEADLAMPS

Push the lever away from you to switch the high beams on.

Push the lever forward again or pull the lever toward you to switch the high beams off.

Slightly pull the lever toward you and release it to flash the headlamps.

HEADLAMP INDICATORS

Lamps On

Illuminates when you switch the low beam headlamps or the parking lamps on.

Headlamp High Beam

Illuminates when you switch the high beam headlamps on.

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HEADLAMPS – TROUBLESHOOTING

HEADLAMPS – FREQUENTLY ASKED QUESTIONS

Why is there condensation in the headlamps?

Headlamps have vents to accommodate normal changes in air pressure. Condensation can be a natural by-product of this design. When moist air enters the lamp assembly through the vents, there is a possibility that condensation can occur when the temperature is cold. When normal condensation occurs, a fine mist can form on the interior of the lens. The fine mist eventually clears and exits through the vents during normal operation.

How much condensation is acceptable?

The presence of a fine mist, for example no streaks, drip marks or large droplets. A fine mist covers less than 50% of the lens.

How long may it take for the acceptable condensation to be cleared?

Clearing time may take as long as 48 hours under dry weather conditions.

How much condensation is unacceptable?

A water puddle inside the lamp. Streaks, drip marks or large droplets present on the interior of the lens.

What should I do if unacceptable condensation is present?

Have your vehicle checked as soon as possible.

Why do my headlamps turn off when I have them switched on when I switch my vehicle off?

The battery saver turns the headlamps off after a short period of time after you switch your vehicle off.

AUTOLAMPS

WHAT ARE AUTOLAMPS

WARNING: The system does not relieve you of your responsibility to drive with due care and attention. You may need to override the system if it does not turn the headlamps on in low visibility conditions, for example daytime fog.

Autolamps turn the headlamps on in low light situations or when the windshield wipers operate.

AUTOLAMP SETTINGS

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Lighting***.
4. Select ***Autolamp Delay***.
5. Select a setting and press the ***OK*** button.

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EXTERIOR LAMPS

SWITCHING THE TURN SIGNAL LAMPS ON AND OFF

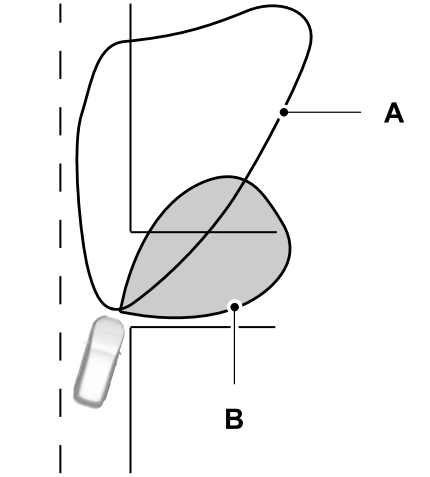
Push the lever up or down to switch the turn signal lamps on.

Set the lever to the middle position to switch the turn signal lamps off.

Note: *Tap the lever up or down to make the turn signal lamps flash three times.*

HOW DO CORNERING LAMPS WORK

The cornering lamps illuminate the inside of a corner when you are turning the steering wheel or when you switch the turn signal lamps on.



A Headlamp beam.

B Cornering lamp beam.

SWITCHING THE DAYTIME RUNNING LAMPS ON AND OFF - VEHICLES WITH: DAYTIME RUNNING LAMPS (DRL)

WARNING: The daytime running lamps system does not activate the rear lamps and may not provide adequate lighting during low visibility driving conditions. Make sure you switch the headlamps on, as appropriate, during all low visibility conditions. Failure to do so may result in a crash.

Daytime running lamps are always on unless you switch on the headlamps or your vehicle is in park (P).

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SWITCHING THE DAYTIME RUNNING LAMPS ON AND OFF - VEHICLES WITH: CONFIGURABLE DAYTIME RUNNING LAMPS

WARNING: The daytime running lamps system does not activate the rear lamps and may not provide adequate lighting during low visibility driving conditions. Make sure you switch the headlamps on, as appropriate, during all low visibility conditions. Failure to do so may result in a crash.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Lighting***.
4. Switch ***Daytime Running Lights*** on or off.

The daytime running lamps turn on when all of the following occur:

- You switch the system on.
- You switch your vehicle on.
- The transmission is not in park (P).
- The lighting control is in the autolamps position.
- The headlamps are off.

Note: *Other lighting control positions do not turn on the daytime running lamps.*

SWITCHING THE FRONT FOG LAMPS ON AND OFF

The front fog lamp button is on the lighting control.

Press the button to switch the front fog lamps on or off.

Note: *Only switch the front fog lamps on during reduced visibility.*

Note: *The brightness of the daytime running lamps may decrease when the front fog lamps are switched on.*

Note: *When the lighting control is in the autolamps position, you cannot switch the fog lamps on unless the headlamps are on.*

EXTERIOR LAMP INDICATORS

Front Fog Lamp

It illuminates when you switch the front fog lamps on.

Turn Signal Lamp

It flashes when you switch the turn signal lamps on.

Note: *An increase in the rate of flashing warns of a failed turn signal lamp.*

EXTERIOR LAMP AUDIBLE WARNING

Exterior Lamps On

Sounds when you open the driver door and the exterior lamps are on.

AUTOMATIC HIGH BEAM CONTROL

HOW DOES AUTOMATIC HIGH BEAM CONTROL WORK

Automatic high beam control turns the high beams on if it is dark enough and no other traffic is present. If it detects an approaching vehicle's headlamps or tail lamps, or street lighting ahead, the system turns the high beams off.

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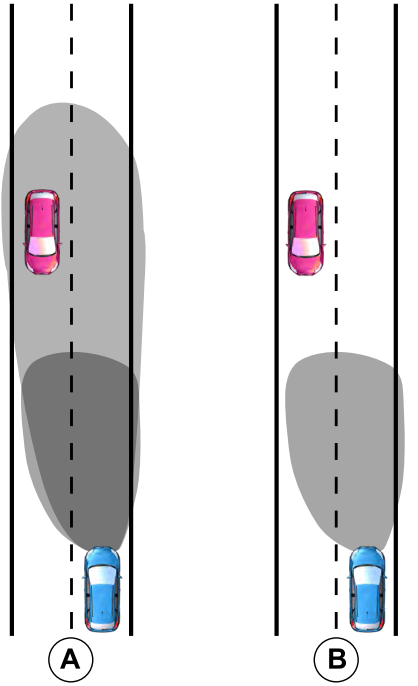
A camera sensor, centrally mounted behind the windshield of your vehicle, continuously monitors conditions to turn the high beams on and off.



A Without automatic high beam control.

B With automatic high beam control.

AUTOMATIC HIGH BEAM CONTROL PRECAUTIONS

WARNING: The system does not relieve you of your responsibility to drive with due care and attention. You may need to override the system if it does not turn the high beams on or off.

WARNING: Do not use the system in poor visibility, for example fog, heavy rain, spray or snow.

WARNING: You may need to override the system when approaching other road users.

WARNING: You may need to override the system during inclement weather.

AUTOMATIC HIGH BEAM CONTROL REQUIREMENTS

The system turns the high beams on if all of the following occur:

- You switch the system on.
- You set the lighting control to the autolamps position.
- The ambient light level is low enough that you require high beams.
- There is no traffic in front of your vehicle.
- The vehicle speed is greater than approximately 32 mph (52 km/h).

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AUTOMATIC HIGH BEAM CONTROL LIMITATIONS

The system turns the high beams off if any of the following occur:

- You switch the system off.
- You set the lighting control to any position except autolamps.
- The ambient light level is high enough that you do not require high beams.
- The system detects an approaching vehicle's headlamps or a leading vehicle's tail lamps.
- The system detects severe rain, snow or fog.
- The system detects street lighting.
- The camera has reduced visibility.
- The vehicle speed falls below approximately 27 mph (44 km/h).

SWITCHING AUTOMATIC HIGH BEAM CONTROL ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Lighting***.
4. Switch ***Auto Highbeam*** on or off.

AUTOMATIC HIGH BEAM CONTROL INDICATORS

Illuminates to confirm when the system is ready to assist.

OVERRIDING AUTOMATIC HIGH BEAM CONTROL

Push the lever away from you to switch between high beam and low beam.

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AUTOMATIC HIGH BEAM CONTROL – TROUBLESHOOTING

AUTOMATIC HIGH BEAM CONTROL – INFORMATION MESSAGES

Message	Description
Front Camera Low Visibility Clean Screen	The camera has reduced visibility. Clean the windshield. If the message continues to appear, have your vehicle checked as soon as possible.
Front Camera Temporarily Not Available	The camera has malfunctioned. Wait a short period of time for the camera to cool down. If the message continues to appear, have your vehicle checked as soon as possible.
Front Camera Malfunction Service Required	The camera has malfunctioned. Have your vehicle checked as soon as possible.

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SWITCHING ALL OF THE INTERIOR LAMPS ON AND OFF

INTERIOR LAMP FUNCTION

WHAT IS THE INTERIOR LAMP FUNCTION

The interior lamp function switches the courtesy and door lamps on or off.

SWITCHING THE INTERIOR LAMP FUNCTION ON AND OFF - BUS/ VAN

When you set the switch to the middle position, the interior lamps turn on if:

- You open any door.
- You press the unlock button on the remote control.
- You switch the ignition off.

Note: *If you switch the ignition off, the interior lamps could turn off after a short time to prevent the vehicle battery from running out of charge.*

ADJUSTING THE INSTRUMENT PANEL LIGHTING BRIGHTNESS

The instrument lighting dimmer buttons are on the lighting control.

Repeatedly press one of the buttons to adjust the brightness.

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CARGO LAMPS - VAN

SWITCHING THE CARGO LAMPS ON AND OFF

Press the button to switch the cargo lamps on. Press the button again to switch the cargo lamps off.

The cargo lamps turn off after a short period of time to prevent the battery from running out of charge.

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OPENING AND CLOSING THE WINDOWS

WARNING: Do not leave children unattended in your vehicle and do not let them play with the power windows. Failure to follow this instruction could result in personal injury.

WARNING: When closing the power windows, verify they are free of obstruction and make sure that children and pets are not in the proximity of the window openings.

Press the window control switch to open the window. Lift the window control switch to close the window.

Note: *The power windows operate with the ignition on, and for several minutes after you switch the ignition off or until you open a front door.*

To reduce wind noise or pulsing noise when one window is open, slightly open the opposite window.

Driver Side One-Touch Open

Fully press the window control switch and release it. Press again or lift it to stop the window.

Driver Side One-Touch Close

Fully lift the window control switch and release it. Press again or lift it to stop the window.

Resetting Driver Side One-Touch Close

1. Lift and hold the window control switch until the window is fully closed.
2. Release the window control switch.
3. Lift the window control switch for one more second.
4. Release the window control switch.
5. Lift the window control switch again for one more second.

Note: *Repeat the procedure if the window does not close when you use one-touch.*

WINDOW BOUNCE-BACK

WHAT IS WINDOW BOUNCE-BACK

The window stops and reverses if it detects an obstruction when closing.

OVERRIDING WINDOW BOUNCE-BACK

WARNING: If you override bounce-back, the window does not reverse if it detects an obstacle. Take care when closing the windows to avoid personal injury or damage to your vehicle.

1. Close the window twice until it reaches the point of resistance and let it reverse.
2. Close the window a third time to the point of resistance. Bounce-back is now disabled and you can close the window manually.

Note: *The window goes past the point of resistance and you can fully close it.*

Note: *If the window does not close, have your vehicle checked as soon as possible.*

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RESETTING WINDOW BOUNCE-BACK

WARNING: Bounce-back is off until you reset the memory. Take care when closing the windows to avoid personal injury or damage to your vehicle.

1. Lift and hold the switch until the window is fully closed.
2. Release the switch.
3. Lift the switch again for one more second.
4. Release the switch.
5. Lift the switch again for one more second.

Note: *Repeat the procedure if the window does not close when you use one-touch.*

Note: *If you have disconnected the battery, you must reset the bounce-back memory.*

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INTERIOR MIRROR PRECAUTIONS

WARNING: Do not adjust the mirrors when your vehicle is moving. This could result in the loss of control of your vehicle, serious personal injury or death.

Note: *Do not clean the mirror housing or glass with harsh abrasives, fuel or other petroleum-based cleaning products.*

MANUALLY DIMMING THE INTERIOR MIRROR

Pull the tab below the mirror toward you to reduce glare at night.

AUTO-DIMMING INTERIOR MIRROR

WHAT IS THE AUTO-DIMMING INTERIOR MIRROR

The mirror dims to reduce the effect of bright light from behind. It returns to normal when the bright light from behind is no longer present or if you shift into reverse (R).

AUTO-DIMMING INTERIOR MIRROR LIMITATIONS

Do not block the sensors on the front and back of the mirror.

Note: *A rear center passenger or raised rear center head restraint could prevent light from reaching the sensor.*

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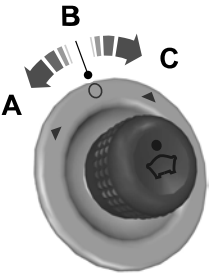
ADJUSTING THE EXTERIOR MIRRORS

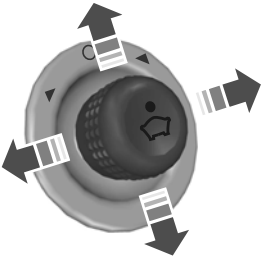
WARNING: Do not adjust the mirrors when your vehicle is moving. This could result in the loss of control of your vehicle, serious personal injury or death.



A Left-hand mirror switch.

B Neutral.

C Right-hand mirror switch.



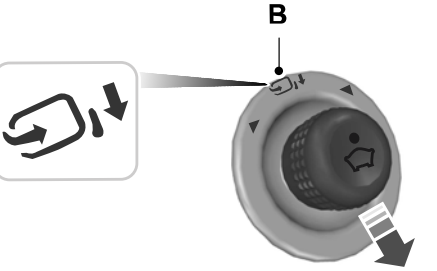
Move the adjustment control in the direction of the arrows to adjust the mirror.

FOLDING THE EXTERIOR MIRRORS - VEHICLES WITH: MANUAL FOLD EXTERIOR MIRRORS

Push the mirror toward the door window glass.

Make sure that you fully engage the mirror in its support when returning it to its original position.

FOLDING THE EXTERIOR MIRRORS - VEHICLES WITH: POWER FOLD EXTERIOR MIRRORS



Move the adjustment control downward to fold or unfold the mirrors.

Note: *The power folding mirrors operate with the ignition on, and for several minutes after you switch the ignition off.*

Note: *You can only fold the mirrors when the adjustment control is set to position B.*

Note: *If you fold and unfold the mirrors several times within one minute, the power fold function could turn off to protect the motors from overheating.*

Note: *Do not manually fold or unfold power folding mirrors.*

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Loose Mirror

If your power-folding mirrors are manually folded, they may not work properly, even after you re-position them. You need to reset them if:

- The mirrors vibrate when you drive.
- The mirrors feel loose.
- The mirrors do not stay in the folded or unfolded position.
- One of the mirrors is not in its normal driving position.

To reset the power-fold feature, use the power-folding mirror control to fold and unfold the mirrors. You may hear a loud noise as your reset the power-folding mirrors. This sound is normal. Repeat this process as needed each time the mirrors are manually folded.

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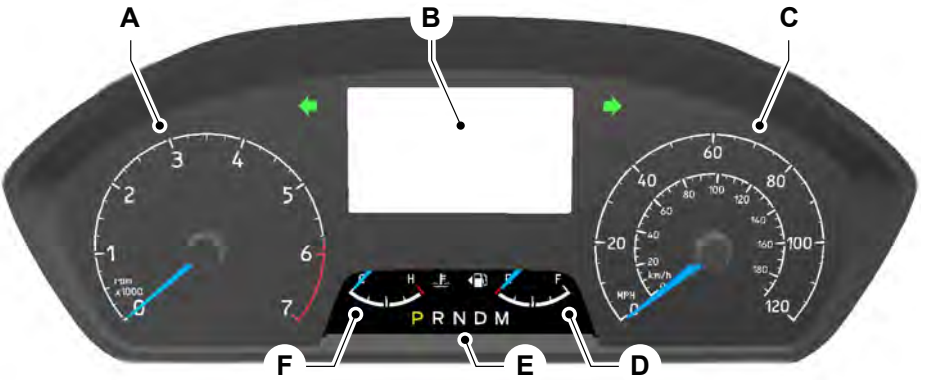
INSTRUMENT CLUSTER OVERVIEW - 3.5L DURATEC/3.5L ECOBOOST™



A Tachometer.
B Instrument cluster display.
C Speedometer.
D Fuel gauge.
E Automatic transmission position indicators.
F Engine coolant temperature gauge.

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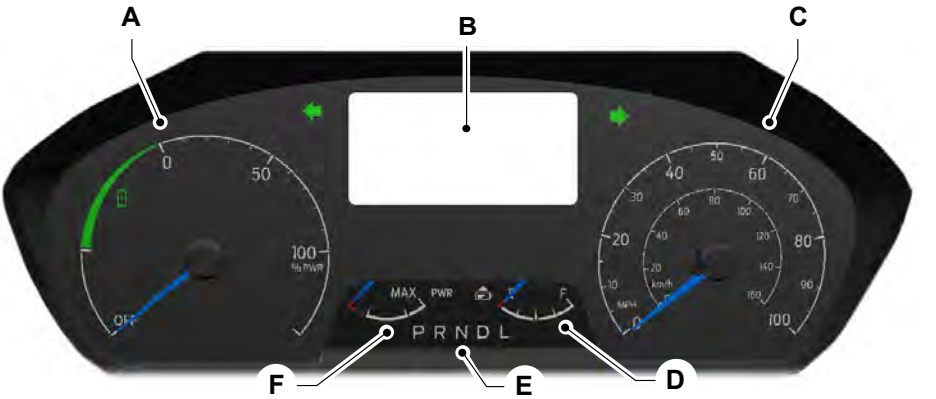
INSTRUMENT CLUSTER OVERVIEW - ELECTRIC MOTOR



A Power gauge.
B Instrument cluster display.
C Speedometer.
D High voltage battery gauge.
E Automatic transmission position indicators.
F Power availability.

WHAT IS THE TACHOMETER - 3.5L DURATEC/3.5L ECOBOOST™

Indicates the engine speed.

WHAT IS THE POWER GAUGE - ELECTRIC MOTOR

The Power Gauge displays power to the wheels when accelerating or maintaining speed. When slowing down by lifting your foot off the accelerator pedal or pressing the brake, the gauge displays the power captured by the regenerative braking system and returned to the high voltage battery.

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What is Power Availability Gauge

Displays total available vehicle power. Available power may be limited due to temperature or low battery state of charge. See **Maximizing Your Driving Range** (page 344).

WHAT IS THE SPEEDOMETER

Indicates the vehicle speed.

FUEL GAUGE - 3.5L DURATEC/ 3.5L ECOBOOST™

WHAT IS THE FUEL GAUGE

Indicates approximately how much fuel is in the fuel tank.

FUEL GAUGE LIMITATIONS

The fuel gauge may not provide an accurate reading when your vehicle is on an incline.

LOCATING THE FUEL FILLER DOOR

The arrow adjacent to the fuel pump symbol indicates on which side of your vehicle the fuel filler door is located.

WHAT IS THE LOW FUEL REMINDER

A low fuel level reminder displays and sounds when the distance to empty reaches 75 mi (120 km) to empty for MyKey, and at 50 mi (80 km), 25 mi (40 km), 12 mi (20 km) and 0 mi (0 km) for all vehicle keys.

Note: *The low fuel reminder can appear at different fuel gauge positions depending on fuel economy conditions. This variation is normal.*

WHAT IS DISTANCE TO EMPTY

Indicates the approximate distance your vehicle can travel on the fuel remaining in the tank.

WHAT IS THE VEHICLE RANGE DISPLAY - ELECTRIC MOTOR

Displays the approximate range your vehicle can travel on the battery power that remains. Estimates vary based on the energy used when driving.

The amount of energy being used when driving is affected by:

- Mild or aggressive acceleration or braking.
- Your vehicle's speed.
- Use of accessories, such as climate control.
- Ambient temperature and weather conditions.
- Driving in a city or on a highway.
- Driving on hilly road conditions.
- Driving while carrying a heavy load.

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Changes in driving patterns can cause the values to not only decrease but also increase, or stay constant for periods of time.

Note: *It is normal for vehicle range estimates to vary due to changes in average energy usage. This could cause different range estimates each time you fully charge your battery. See* ***Maximizing Your Driving Range*** *(page 344).*

Note: *After a high voltage to low voltage energy transfer occurs, the high voltage battery level decreases, resulting in a reduction in the vehicle range by a few miles or kilometers per transfer.*

WHAT IS THE HIGH VOLTAGE BATTERY GAUGE - ELECTRIC MOTOR

Displays the high voltage battery state of charge in the form of a gauge or a percentage. A full fill or 100% charge represents the total amount of energy you can get from plugging your vehicle in.

The indicator is normally white. When a low battery condition is reached the indicator is amber.

Charging Status

Additional charge information displays when you power on your vehicle without pressing the brake pedal and your vehicle is plugged in. Charging status includes the charge start or charge end time as appropriate. When DC charging, the time at 80% displays followed by the time at 100%. You can modify your vehicle charge settings on the information and entertainment display. See **Setting the Charging Schedule and Preferences** (page 222).

Charge Required to Reach Destination

When the navigation system has an active route, the instrument cluster displays the charge level required in order to reach your destination and the time when that charge level is available.

WHAT IS THE ENGINE COOLANT TEMPERATURE GAUGE - 3.5L DURATEC/3.5L ECOBOOST™

Indicates the engine coolant temperature.

WHAT ARE THE INSTRUMENT CLUSTER WARNING LAMPS

Warning lamps alert you to a vehicle condition that could become serious. Some lamps illuminate when you start your vehicle to make sure they work. If any lamps remain on after starting your vehicle, refer to the respective system warning lamp for further information.

INSTRUMENT CLUSTER WARNING LAMPS

Airbag Warning Lamp

If it does not illuminate when you switch the ignition on, continues to flash or remains on when the engine is running, this indicates a malfunction. Have your vehicle checked as soon as possible.

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Anti-Lock Brake System Warning Lamp

If it illuminates when you are driving, this indicates a malfunction. Your vehicle continues to have normal braking without the anti-lock brake system function. Have your vehicle checked as soon as possible.

Blind Spot Information System And Cross Traffic Alert Warning Lamp

If the system malfunctions, the warning lamp illuminates in the instrument cluster and a message appears in the information display. Have your vehicle checked as soon as possible.

Brake Pad Wear Warning Lamp

It illuminates when the brake pads have worn down to a predetermined limit. Have your vehicle checked as soon as possible.

Door Ajar Warning Lamp

It illuminates when you switch the ignition on and remains on if any door or the hood is open.

Electric Park Brake Warning Lamp

It illuminates or flashes yellow when the electric parking brake requires service.

Engine Coolant Temperature Warning Lamp

If it illuminates when your vehicle is moving, this indicates that the engine is overheating. Stop your vehicle as soon as it is safe to do so and switch the engine off. Have your vehicle checked as soon as possible.

Engine Oil Pressure Warning Lamp

It illuminates when you switch the ignition on. If it illuminates when the engine is running this indicates a malfunction. Stop your vehicle as soon as it is safe to do so and switch the engine off. Check the engine oil level. If the oil level is sufficient, this indicates a system malfunction. Have your vehicle checked as soon as possible.

Engine Warning Lamp

If both lamps illuminate when the engine is running, stop your vehicle as soon as it is safe to do so. Continuing to drive your vehicle may cause reduced power or the engine to stop. Switch the ignition off and attempt to restart the engine. Have your vehicle checked as soon as possible.

Fasten Seatbelt Warning Lamp

It illuminates until you fasten your seatbelt.

High Voltage Battery

It illuminates white under normal conditions. If it illuminates amber, then the battery is low on charge.

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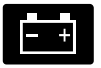
Ignition Warning Lamp



It illuminates when you switch the ignition on. If it illuminates when the engine is running this indicates a malfunction. Have your vehicle checked as soon as possible.

Lane Keeping System Warning Lamp

It could illuminate when you switch the system off. If it illuminates when you are driving, this indicates a malfunction. Have your vehicle checked as soon as possible.

Low Beam Warning

Illuminates when the low beam headlamp bulb is not functioning properly.

Low Fuel Level Warning Lamp

If it illuminates when you are driving, refuel as soon as possible.

Parking Brake Warning Lamp

It illuminates when you engage the parking brake and the ignition is on. If it illuminates when your vehicle is moving, make sure the parking brake is disengaged. If the parking brake is disengaged, this indicates low brake fluid level or a brake system fault. Have your vehicle checked as soon as possible.

Powertrain Warning Lamp

If it illuminates when the engine is running this indicates a malfunction. If it flashes when you are driving, immediately reduce the vehicle speed. Avoid heavy acceleration and deceleration and have your vehicle checked as soon as possible.

Pre-Collision Assist Warning Lamp

It illuminates if your vehicle rapidly approaches another vehicle, to warn you of the risk of a crash with the vehicle in front of you. It could illuminate red if the distance to the vehicle ahead is small. It illuminates amber when you switch the system off or if the system is not available.

Stability Control and Traction Control Indicator

Flashes during operation.

If it does not illuminate when you switch the ignition on, or remains on when the engine is running, this indicates a malfunction. Have your vehicle checked as soon as possible.

Note: *The system is designed to turn off if it detects a malfunction.*

Stability Control And Traction Control Off Warning Lamp

It illuminates when you switch the system off.

Stop Safely Warning Lamp

It illuminates if an electrical component requires service or a failure that causes your vehicle to shutdown or enter into a limited operating mode.

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Tire Pressure Monitoring System Warning Lamp

It illuminates if the tire pressure in one or more tires is below the correct tire pressure. If it does not illuminate when you switch the ignition on, or flashes when the engine is running, this indicates a malfunction. Have your vehicle checked as soon as possible.

WHAT ARE THE INSTRUMENT CLUSTER INDICATORS

Indicators notify you of various features that are active on your vehicle.

INSTRUMENT CLUSTER INDICATORS

Adaptive Cruise Control Indicator

It illuminates when you switch the system on. It illuminates white when the system is in standby mode. It illuminates green when you set the adaptive cruise speed.

Auto-Start-Stop Indicators

It illuminates green when the engine stops. It flashes amber and a message appears when you need to take action. It illuminates gray with a strikethrough when the system is not available.

Automatic High Beam Control On Indicator

It illuminates to confirm when the system is ready to assist.

Blind Spot Information System Indicator

When the system detects a vehicle, the indicator illuminates in the exterior mirror on the side the approaching vehicle is coming from. If you turn the direction indicator on for that side of your vehicle, the indicator flashes.

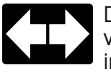
Cross Traffic Alert Indicator

When the system detects an approaching vehicle a tone sounds, the indicator illuminates in the relevant exterior mirror and arrows appear in the information display to show which side the approaching vehicle is coming from.

Cruise Control Indicator

It illuminates when you switch the system on.

Direction Indicator



Direction indicator. It flashes when you switch the direction indicators on.

Eco Mode Indicator

It illuminates when the drive mode is selected.

Efficient Drive Mode Indicator

It indicates that you have to slowly decelerate.

Front Fog Lamp Indicator

It illuminates when you switch the front fog lamps on.

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Hazard Flasher Indicator

It flashes when you switch the hazard flashers on.

High Beam Headlamp Indicator

It illuminates when you switch the high beam headlamps on.

Lamps On Iindicator

It illuminates when you switch the low beam headlamps or the side and rear lamps on.

Lane Keeping Aid Indicator

It illuminates in the information display when you switch the system on and Aid Mode or Alert and Aid Mode are selected.

Lane Keeping Alert Indicator

It illuminates in the information display when you switch the system on and Alert Mode is selected.

Malfunction Indicator Lamp

If it illuminates when the engine is running this indicates a malfunction. If it flashes, engine misfire may be occurring. Increased exhaust gas temperatures could damage the diesel particulate filter or other vehicle components. Avoid heavy acceleration and deceleration and have your vehicle checked as soon as possible.

Mud/Ruts Mode Indicator

It illuminates when the drive mode is selected.

Ready to Drive Indicator

Illuminates when you have switched on your vehicle and it is ready to drive. A corresponding message may appear stating ready to drive.

Slippery Mode Indicator

It illuminates when the drive mode is selected.

Stability Control And Traction Control Indicator

It flashes during operation. If it does not illuminate when you switch the ignition on, or remains on when the engine is running, this indicates a malfunction. Have your vehicle checked as soon as possible.

Tow/Haul Mode Indicator

It illuminates when the drive mode is selected.

Vehicle Plugged In Indicator

It illuminates when your vehicle is plugged in.

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USING THE INSTRUMENT CLUSTER DISPLAY CONTROLS

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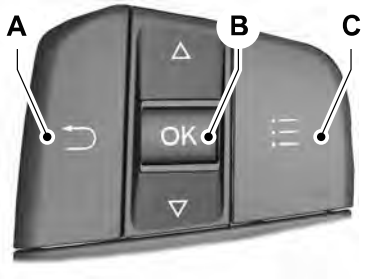

A Return button.

B OK button.

C Menu button.

Return Button

Use the return button to go back or to exit.

OK Button

Use the ***OK*** button to make a selection.

You can also use it to scroll through a menu.

Menu button

Use the menu button on the main screen to display the submenu.

INSTRUMENT CLUSTER DISPLAY MAIN MENU

Menu Item
Trip 1 or ***Trip 2***
MyView
Driver Assist.
Navigation
Audio
Phone
Settings

CUSTOMIZING THE INSTRUMENT CLUSTER DISPLAY

1. Using the information display controls on the steering wheel, select ***MyView***.
2. Select a screen.
3. Press the ***OK*** button.

PERSONALIZED SETTINGS

CHANGING THE INSTRUMENT CLUSTER DISPLAY LANGUAGE

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Language***.
4. Choose your applicable setting.

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CHANGING THE MEASURE UNIT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Measurement Unit***.
4. Choose your applicable setting.

CHANGING THE TEMPERATURE UNIT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Temperature Unit***.
4. Choose your applicable setting.

CHANGING THE TIRE PRESSURE UNIT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Tire Pressure***.
4. Choose your applicable setting.

SWITCHING THE INSTRUMENT CLUSTER DISPLAY AUDIBLE WARNINGS ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle***.
3. Select ***Chimes***.
4. Choose your applicable setting.

FUEL ECONOMY DISPLAY

An instant fuel economy gauge is provided along with average fuel economy. Average fuel economy is continuously averaged since the last reset.

Note: *Press and hold the **OK** button on the controls on the steering wheel to reset your average fuel economy.*

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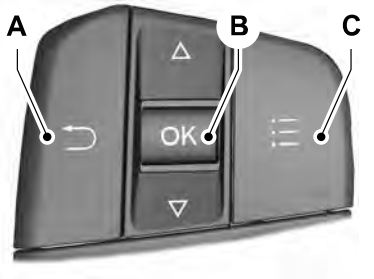
USING THE INSTRUMENT CLUSTER DISPLAY CONTROLS



A Return button.

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Return Button

Use the return button to go back or to exit.

OK Button

Use the ***OK*** button to make a selection.

You can also use it to scroll through a menu.

Menu button

Use the menu button on the main screen to display the submenu.

INSTRUMENT CLUSTER DISPLAY MAIN MENU

Menu Item
Trip 1 or ***Trip 2***
MyView
Driver Assist.
Navigation
Audio
Phone
Settings

CUSTOMIZING THE INSTRUMENT CLUSTER DISPLAY

1. Using the information display controls on the steering wheel, select ***MyView***.
2. Select a screen.
3. Press the ***OK*** button.

PERSONALIZED SETTINGS

CHANGING THE INSTRUMENT CLUSTER DISPLAY LANGUAGE

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Language***.
4. Choose your applicable setting.

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CHANGING THE MEASURE UNIT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Measurement Unit***.
4. Choose your applicable setting.

CHANGING THE TEMPERATURE UNIT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Temperature Unit***.
4. Choose your applicable setting.

CHANGING THE TIRE PRESSURE UNIT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Display***.
3. Select ***Tire Pressure***.
4. Choose your applicable setting.

SWITCHING THE INSTRUMENT CLUSTER DISPLAY AUDIBLE WARNINGS ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle***.
3. Select ***Chimes***.
4. Choose your applicable setting.

WHAT IS THE TRIP SUMMARY

Displays the trip summary when you switch off your vehicle. The values are cumulative since you last started your vehicle.

VEHICLE CHARGING STATUS

The vehicle charge status displays when you switch off your vehicle and when you switch on your vehicle when plugged in. Charging status includes the charge start or charge end time as appropriate. You can modify your charge settings though the touchscreen.

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ACCESSING THE TRIP COMPUTER

1. Navigate to the trip screen.
2. Press the menu button.
3. Select ***Trip 1*** or ***Trip 2***.

RESETTING THE TRIP COMPUTER

1. Navigate to the trip screen.
2. Press the menu button.
3. Select ***Trip 1*** or ***Trip 2***.
4. Press and hold the ***OK*** button for a few seconds.

RESETTING THE INDIVIDUAL TRIP VALUES

1. Navigate to the trip screen.
2. Press the menu button.
3. Select ***Trip 1*** or ***Trip 2***.
4. Select ***Reset Individual Values***.
5. Select the value to reset.
6. Press and hold the ***OK*** button for a few seconds.

CONFIGURING THE TRIP COMPUTER

1. Navigate to the trip screen.
2. Press the menu button.
3. Select ***Trip 1*** or ***Trip 2***.
4. Select ***Configure View***.
5. Select the value to display.
6. Press the ***OK*** button.

TRIP DATA

Trip data includes distance, time and energy economy. Better energy economy, meaning greater efficiency or lower consumption, results in increased driving range.

How Is My Driving

Display's scores for trip driving behavior. Higher scores result in better energy economy.

- Acceleration – Light to moderate acceleration improves your score.
- Braking – We recommend slow and steady braking.
- Speed – Maintain reasonable vehicle speeds for best scores.

You can view additional trip data by pressing the icon on your touchscreen.

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WHAT IS REMOTE START

The system allows you to remotely start your vehicle and therefore to heat or cool the interior to a predetermined temperature.

REMOTE START LIMITATIONS - 3.5L DURATEC/3.5L ECOBOOST™

Remote start does not work if:

- The alarm horn is sounding.
- The hood is open.
- The transmission is not in park (P).
- Remote start is not enabled.
- The ignition is on.

Note: *Do not use remote start if your fuel level is low.*

REMOTE START LIMITATIONS - ELECTRIC MOTOR

Remote start does not work if:

- The alarm horn is sounding.
- The hood is open.
- The transmission is not in park (P).
- Remote start is not enabled.
- The vehicle is switched on.
- The vehicle battery is below the minimum operating voltage.

ENABLING REMOTE START

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Remote Start***.
4. Switch ***System*** on.

Note: *To use remote start, make sure that the modem is enabled. See* ***Enabling and Disabling the Modem*** *(page 466).*

REMOTELY STARTING AND STOPPING THE VEHICLE - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Do not start the engine in a closed garage or in other enclosed areas. Exhaust fumes are toxic. Always open the garage door before you start the engine. Failure to follow this instruction could result in personal injury or death.

Use the FordPass App to start the vehicle.

Note: *The turn signal lamps flash twice.*

Note: *The parking lamps turn on when the vehicle is running.*

Note: *The horn sounds if the system fails to start.*

Note: *All other vehicle systems remain off when you have remotely started the vehicle.*

Note: *You may have to wait a short period of time before remotely starting the vehicle after the vehicle stops running.*

Note: *The vehicle remains secured when you have remotely started it. A valid key must be inside your vehicle to switch the ignition on and drive your vehicle.*

Note: *A maximum of two remote starts are allowed. After that you need to turn the ignition on and off before you can use remote start again.*

Use the FordPass App to switch the vehicle off.

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REMOTELY STARTING AND STOPPING THE VEHICLE - ELECTRIC MOTOR

Use the FordPass App to start the vehicle.

Note: *The turn signal lamps flash twice.*

Note: *The parking lamps turn on when the vehicle is running.*

Note: *The horn sounds if the system fails to start.*

Note: *All other vehicle systems remain off when you have remotely started the vehicle.*

Note: *You may have to wait a short period of time before remotely starting the vehicle after the vehicle stops running.*

Note: *The vehicle remains secured when you have remotely started it. A valid key must be inside your vehicle to switch the vehicle on and drive your vehicle.*

Note: *A maximum of two remote starts, or one remote start with an extention are allowed. To reset the restart procedure switch the vehicle on, then off.*

Note: *If your vehicle is plugged in during remote start it uses energy from your charging source.*

Use the FordPass App to switch the vehicle off.

EXTENDING THE REMOTE START DURATION

Use your FordPass App to extend the remote start duration.

If the duration is set to 15 minutes, the duration extends by another 15 minutes. This provides a total of 30 minutes.

Note: *Remote start can only be extended once.*

REMOTE START SETTINGS

Climate Control Settings

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Remote Start***.
4. Select ***Climate Control***.
5. Select ***Auto*** or ***Last Settings***.

Note: *If you select **Auto**, the system attempts to heat or cool the interior to 72ºF (22ºC).*

Note: *If you select **Last Settings**, the system remembers the last used settings.*

Note: *You cannot adjust the climate control settings when you have remotely started the vehicle.*

Note: *When you switch the ignition on, the climate control system returns to the last used settings.*

Heated Seat Settings

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Select ***Remote Start***.
4. Select ***Seats***.
5. Select ***Auto*** or ***Off***.

Note: *If you switch the heated seat settings to **Auto**, the heated seats turn on during cold weather.*

Note: *You cannot adjust the heated seat settings when you have remotely started the vehicle.*

Setting the Remote Start Duration

You can set a duration for Remote Start to run.

1. Using the information display controls on the steering wheel, select ***Settings***.

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2. Select ***Vehicle Settings***.
3. Select ***Remote Start***.
4. Select ***Duration***.

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SWITCHING CLIMATE CONTROL ON AND OFF

Press the button to activate the selection screen.

Press the button.

SWITCHING RECIRCULATED AIR ON AND OFF

Press the button to activate the selection screen.

Press the button to recirculate air currently in the passenger compartment.

Note: *Recirculated air may turn off automatically, or prevent you from switching on in all air flow modes except MAX A/C to reduce the risk of fogging. Recirculation may also turn on and off automatically in various air distribution control combinations to improve heating or cooling efficiency.*

SWITCHING AIR CONDITIONING ON AND OFF

Press the button.

Note: *Under certain conditions, the air conditioning compressor could continue to operate after you switch air conditioning off.*

SWITCHING DEFROST ON AND OFF

Press the button to activate the selection screen.

Press the button on the touchscreen to switch the windshield air vents on.

Make sure that the instrument panel air vents are switched off.

Make sure that the footwell air vents are switched off.

SWITCHING MAXIMUM DEFROST ON AND OFF

Press the button on the touchscreen.

Air flows through the windshield air vents, and the blower motor adjusts to the highest speed.

You can also use this setting to defog and clear the windshield of a thin covering of ice.

Note: *You can also press the button on the instrument panel to switch the maximum defrost on or off.*

Note: *To prevent window fogging, you cannot select recirculated air when maximum defrost is on.*

Note: *The heated rear window and air conditioning also turn on when you select maximum defrost.*

SWITCHING MAXIMUM COOLING ON AND OFF

Press the button to activate the selection screen.

Press the button.

Note: *When you switch maximum cooling off, air conditioning remains on.*

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Note: *In certain conditions, for example, cold weather, maximum cooling may not activate or could run slow when switched on. This helps reduce power consumption from the battery.*

SWITCHING THE ELECTRIC HEATER ON AND OFF - ELECTRIC MOTOR

Press the button to switch the electric heater on or off.

Note: *The default setting is on.*

Note: *Disabling the system helps maximize your driving range.*

Note: *The system does not work in some climate control modes.*

Note: *This button does not switch off the climate control system.*

Note: *In certain conditions, for example warm weather, the system could not activate or could run with reduced performance when switched on.*

SWITCHING THE HEATED REAR WINDOW ON AND OFF - VEHICLES WITH: HEATED REAR WINDOW

Press the button to clear the rear window of thin ice and fog. The heated rear window turns off after a short period of time.

Note: *Do not use harsh chemicals, razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window as this could cause damage to the heated rear window grid lines not covered by the vehicle Warranty.*

Note: *The engine must be running or your vehicle must be ready to drive to switch the system on.*

SETTING THE BLOWER MOTOR SPEED

Press the button to set the blower motor speed.

Slide the control to set the blower motor speed.

Note: *You can press **+** or **-** to set the blower motor speed.*

SWITCHING THE HEATED MIRRORS ON AND OFF - VEHICLES WITHOUT: HEATED REAR WINDOW

Press the button to clear the heated mirror of thin ice and fog. The system turns off after a short period of time.

Note: *Do not remove ice from the mirrors with a scraper or adjust the mirror glass when it is frozen in place.*

Note: *Do not clean the mirror housing or glass with harsh abrasives, fuel or other petroleum-based cleaning products. The vehicle warranty may not cover damage caused to the mirror housing or glass.*

Note: *The engine must be running or your vehicle must be ready to drive to switch the system on.*

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SWITCHING THE HEATED MIRRORS ON AND OFF - VEHICLES WITH: HEATED REAR WINDOW

When you switch the heated rear window on, the heated exterior mirrors turn on.

Note: *Do not remove ice from the mirrors with a scraper or adjust the mirror glass when it is frozen in place.*

Note: *Do not clean the mirror housing or glass with harsh abrasives, fuel or other petroleum-based cleaning products. The vehicle warranty may not cover damage caused to the mirror housing or glass.*

Note: *The engine must be running or your vehicle must be ready to drive to switch the system on.*

SETTING THE TEMPERATURE

Press the temperature control to access the temperature settings.

Slide the control to set the temperature.

Note: *You can press **+** or **-** to set the temperature.*

DIRECTING THE FLOW OF AIR

Directing Air to the Windshield Air Vents

Press the button to activate the selection screen.

Press the button on the touchscreen.

Directing Air to the Instrument Panel Air Vents

Press the button to activate the selection screen.

Press the button on the touchscreen.

Directing Air to the Footwell Air Vents

Press the button to activate the selection screen.

Press the button on the touchscreen.

AUTO MODE

SWITCHING AUTO MODE ON AND OFF

Press the button to switch auto mode on. Repeatedly press the button to adjust auto mode.

Adjust the blower motor control or air distribution control to switch auto mode off.

AUTO MODE INDICATORS

The indicators are on the Auto Mode button.

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Auto Mode Indicator Status	Description
One indicator illuminated.	The blower motor speed is reduced. Use this setting to minimize the amount of noise from the blower motor. This setting increases the time taken to cool the interior.
Two indicators illuminated.	The blower motor speed is moderate.
Three indicators illuminated.	The blower motor speed is increased. Use this setting to reduce the time taken to cool the interior. This setting increases the amount of noise from the blower motor.

CLIMATE CONTROL HINTS - 3.5L DURATEC/3.5L ECOBOOST™

General Hints

- Prolonged use of recirculated air may cause the windows to fog up.
- You may feel a small amount of air from the footwell air vents regardless of the air distribution setting.
- To reduce humidity build-up inside your vehicle, do not drive with the system switched off or with recirculated air always switched on.
- Do not place objects under the front seats as this may interfere with the airflow to the rear seats.
- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

Automatic Climate Control

- Adjusting the settings when your vehicle interior is extremely hot or cold is not necessary. Automatic mode is best recommended to maintain set temperature.
- The system adjusts to heat or cool the interior to the temperature you select as quickly as possible.
- For the system to function efficiently, the instrument panel and side air vents should be fully open.
- If you press ***AUTO*** during cold outside temperatures, the system directs air flow to the windshield and side window air vents.In addition, the blower motor may run at a slower speed until the engine warms up.
- If you press ***AUTO*** during hot temperatures and the inside of the vehicle is hot, the system uses recirculated air to maximize interior cooling. Blower motor speed may also reduce until the air cools.

Quickly Heating the Interior

1. Press ***AUTO***.
2. Adjust the temperature function to the setting you prefer.

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Recommended Settings for Heating

1. Press ***AUTO***.
2. Adjust the temperature function to the setting you prefer. Use 72ºF (22ºC) as a starting point, then adjust the setting as necessary.

Quickly Cooling the Interior

1. Press ***MAX A/C***.
2. Drive with the windows open for a short period of time.

Recommended Settings for Cooling

1. Press ***AUTO***.
2. Adjust the temperature function to the setting you prefer. Use 72ºF (22ºC) as a starting point, then adjust the setting as necessary.

Defogging the Side Windows in Cold Weather

1. Press and release defrost or maximum defrost.
2. Adjust the temperature control to the setting you prefer. Use 72ºF (22ºC) as a starting point, then adjust the setting as necessary.

CLIMATE CONTROL HINTS - ELECTRIC MOTOR

General Hints

- Use of the climate system will reduce your vehicles driving range. Conserve battery charge by using climate control features when necessary.
- Prolonged use of recirculated air may cause the windows to fog up.
- You may feel a small amount of air from the footwell air vents regardless of the air distribution setting.
- To reduce humidity build-up inside your vehicle, do not drive with the system switched off or with recirculated air always switched on.
- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

Automatic Climate Control

- Adjusting the settings when your vehicle interior is extremely hot or cold is not necessary. Automatic mode is best recommended to maintain set temperature.
- The system adjusts to heat or cool the interior to the temperature you select as quickly as possible.
- For the system to function efficiently, the instrument panel and side air vents should be fully open.
- If you press ***AUTO*** during cold outside temperatures, the system directs air flow to the windshield and side window air vents. The blower motor speed may reduce until the air warms.
- If you press ***AUTO*** during hot temperatures and the inside of the vehicle is hot, the system uses recirculated air to maximize interior cooling. Blower motor speed may also reduce until the air cools.

Quickly Heating the Interior

1. Press ***AUTO***.
2. Adjust the temperature function to the setting you prefer.

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Recommended Settings for Heating

1. Press ***AUTO***.
2. Adjust the temperature function to the setting you prefer. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.

Quickly Cooling the Interior

Press ***MAX A/C***.

Recommended Settings for Cooling

1. Press ***AUTO***.
2. Adjust the temperature function to the setting you prefer. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.

Defogging the Side Windows in Cold Weather

1. Press and release defrost or maximum defrost.
2. Adjust the temperature control to the setting you prefer. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.

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SWITCHING CLIMATE CONTROL ON AND OFF

Press the button.

SWITCHING RECIRCULATED AIR ON AND OFF

Press the button to recirculate air currently in the passenger compartment.

Note: *Recirculated air may turn off automatically, or prevent you from switching on in all air flow modes except MAX A/C to reduce the risk of fogging. Recirculation may also turn on and off automatically in various air distribution control combinations to improve heating or cooling efficiency.*

SWITCHING AIR CONDITIONING ON AND OFF

Press the button.

Note: *Under certain conditions, the air conditioning compressor could continue to operate after you switch air conditioning off.*

SWITCHING DEFROST ON AND OFF

Press the button to switch the windshield air vents on.

Make sure that the instrument panel air vents are switched off.

Make sure that the footwell air vents are switched off.

SWITCHING MAXIMUM DEFROST ON AND OFF

Turn the temperature control clockwise past the highest setting to maximize defrosting.

Note: *The temperature control springs back to the highest setting.*

Air flows through the windshield air vents, and the blower motor adjusts to the highest speed.

Note: *To prevent window fogging, you cannot select recirculated air when maximum defrost is on.*

Note: *The heated rear window and air conditioning also turn on when you select maximum defrost.*

SWITCHING MAXIMUM COOLING ON AND OFF

Turn the temperature control counterclockwise past the lowest setting to maximize cooling.

Note: *The temperature control springs back to the lowest setting.*

Note: *When you switch maximum cooling off, air conditioning remains on.*

SWITCHING THE HEATED REAR WINDOW ON AND OFF

Press the button to clear the rear window of thin ice and fog. The heated rear window turns off after a short period of time.

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Note: *Do not use harsh chemicals, razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window as this could cause damage to the heated rear window grid lines not covered by the vehicle Warranty.*

SETTING THE BLOWER MOTOR SPEED

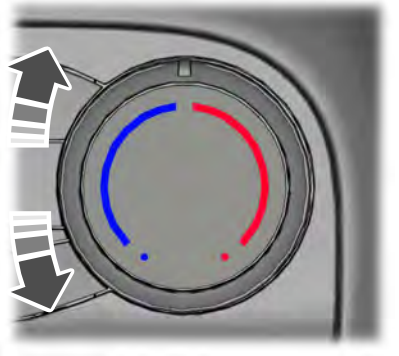
Note: *Lights on the control illuminate to indicate the blower motor speed.*

Note: *When you switch the blower motor off, air conditioning turns off and the windows could fog up.*

SWITCHING THE HEATED MIRRORS ON AND OFF

Press the button.

SETTING THE TEMPERATURE



Turn the temperature control counterclockwise for cooler temperature settings.

Turn the temperature control clockwise for warmer temperature settings.

DIRECTING THE FLOW OF AIR

Directing Air to the Windshield Air Vents

Press the button.

Directing Air to the Instrument Panel Air Vents

Press the button.

Directing Air to the Footwell Air Vents

Press the button.

CLIMATE CONTROL HINTS

General Hints

- Prolonged use of recirculated air may cause the windows to fog up.
- You may feel a small amount of air from the footwell air vents regardless of the air distribution setting.
- To reduce humidity build-up inside your vehicle, do not drive with the system switched off or with recirculated air always switched on.
- Do not place objects under the front seats as this may interfere with the airflow to the rear seats.

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- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

Quickly Heating the Interior

1. Adjust the blower motor speed to the highest speed setting.
2. Adjust the temperature control to the highest setting.
3. Direct air to the footwell air vents.

Recommended Settings for Heating

1. Adjust the blower motor speed to the center setting.
2. Adjust the temperature control to the midway point of the hot settings.
3. Direct air to the footwell air vents.

Quickly Cooling the Interior

1. Press ***MAX A/C***.
2. Drive with the windows open for a short period of time.

Recommended Settings for Cooling

1. Adjust the blower motor speed to the center setting.
2. Adjust the temperature control to the midway point of the cold settings.
3. Direct air to the instrument panel air vents.

Defogging the Side Windows in Cold Weather

1. Direct air to the instrument panel and windshield air vents.
2. Press and release ***A/C***.
3. Adjust the temperature control to the setting you prefer.
4. Adjust the blower motor speed to the highest setting.
5. Direct air toward the side windows.
6. Close the instrument panel air vents.

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SETTING THE BLOWER MOTOR SPEED

DIRECTING THE FLOW OF AIR

Directing Air to the Overhead Air Vents

When you direct air to the overhead air vents, the system distributes cold air.

Directing Air to the Footwell Air Vents

When you direct air to the footwell air vents, the system distributes hot air.

Directing Air to the Overhead Air Vents and the Footwell Air Vents

When you direct air to the Overhead and footwell air vents, the system distributes warm air.

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FRONT SEAT PRECAUTIONS

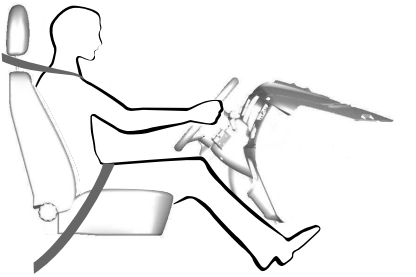
WARNING: Sitting improperly, out of position or with the seatback reclined too far can take weight off the seat cushion and affect the decision of the passenger sensing system, resulting in serious injury or death in the event of a crash. Always sit upright against your seat back, with your feet on the floor.

WARNING: Do not recline the seat backrest too far as this can cause the occupant to slide under the seatbelt, resulting in personal injury in the event of a crash.

WARNING: Do not place objects higher than the top of the seat backrest. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.

WARNING: Do not adjust the driver seat or seat backrest when your vehicle is moving. This may result in sudden seat movement, causing the loss of control of your vehicle.

SITTING IN THE CORRECT POSITION



When you use them properly, the seat, head restraint, seatbelt and airbags will provide optimum protection in the event of a crash.

We recommend that you follow these guidelines:

- Sit in an upright position with the base of your spine as far back as possible.
- Do not recline the seat backrest so that your torso is more than 30 degrees from the upright position.
- Adjust the head restraint so that the top of it is level with the top of your head and as far forward as possible. Make sure that you remain comfortable.
- Keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 10 in (25 cm) between your breastbone and the airbag cover.
- Hold the steering wheel with your arms slightly bent.

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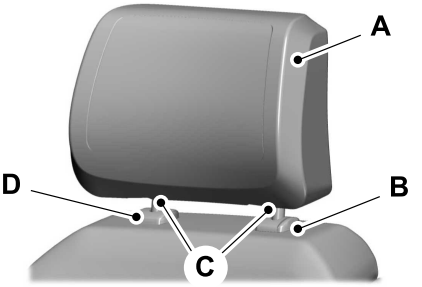
- Bend your legs slightly so that you can press the pedals fully.
- Position the shoulder strap of the seatbelt over the center of your shoulder and position the lap strap tightly across your hips.

Make sure that your driving position is comfortable and that you can maintain full control of your vehicle.

MANUAL SEATS

HEAD RESTRAINT COMPONENTS



The head restraints consist of:

A	An energy absorbing head restraint.
B	Guide sleeve adjust and release button.
C	Two steel stems.
D	Guide sleeve unlock and remove button (If equipped).

ADJUSTING THE HEAD RESTRAINT

WARNING: Fully adjust the head restraint before you sit in or operate your vehicle. This will help minimize the risk of neck injury in the event of a crash. Do not adjust the head restraint when your vehicle is moving.

WARNING: The head restraint is a safety device. Whenever possible it should be installed and properly adjusted when the seat is occupied. Failure to adjust the head restraint properly could reduce its effectiveness during certain impacts.

WARNING: Adjust the head restraints for all passengers before you drive your vehicle. This will help minimize the risk of neck injury in the event of a crash. Do not adjust the head restraints when your vehicle is moving.

Adjust the head restraint so that the top of it is level with the top of your head.

Raising the Head Restraints

1. Pull the head restraint upward.
2. Make sure that the head restraint locks into place.

Lowering the Head Restraints

1. Press and hold the locking button.
2. Push the head restraint downward.
3. Make sure that the head restraint locks into place.

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REMOVING THE HEAD RESTRAINT

WARNING: Do not remove the head restraint from an occupied seat.

1. Recline the seat backrest so that there is enough room for you to remove the head restraint.

E265266

2. Press the locking button and remove the head restraint.

INSTALLING THE HEAD RESTRAINT

Align the steel stems into the guide sleeves and push the head restraint down until it locks.

MOVING THE SEAT BACKWARD AND FORWARD

WARNING: Do not place cargo or any objects behind the seatback before returning it to the original position.

WARNING: Make sure the seat fully locks into place by rocking it backward and forward. Not securing the seat into the locked position can be dangerous in a crash and could cause serious personal injury or death.

E177638

Note: *The driver seat has removable stop bolts on the track to enable access to the vehicle battery. See* ***Changing the 12V Battery*** *(page 386).*

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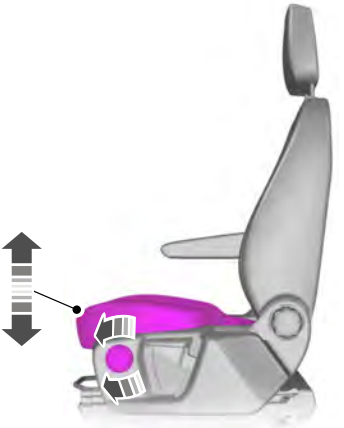
ADJUSTING THE SEAT CUSHION



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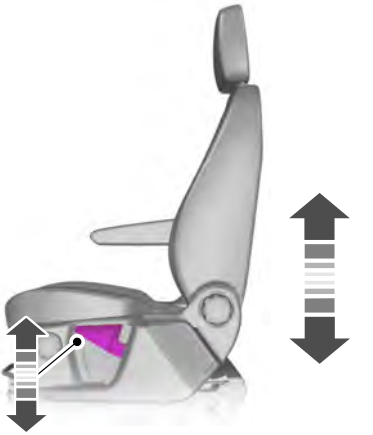
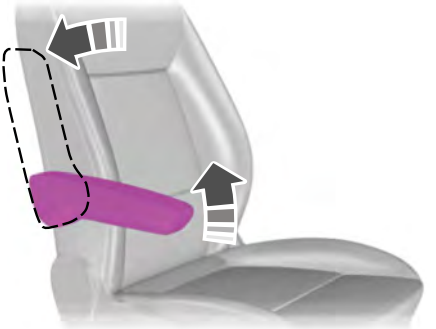
ADJUSTING THE SEAT HEIGHT



E146384

FOLDING THE SEAT ARMREST

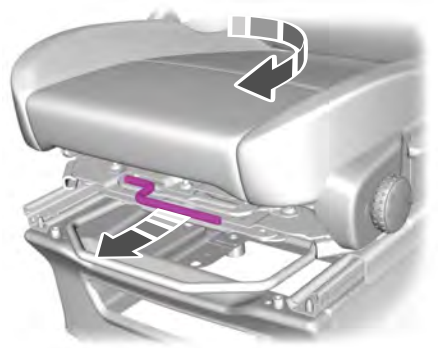


ADJUSTING THE LUMBAR SUPPORT

E146386

SWIVELING THE SEAT

WARNING: Make sure the seat locks into place and is facing forward when your vehicle is moving.



The seat can swivel through 180 degrees in an inboard direction.

You may need to adjust the seat to allow sufficient clearance for it to swivel in a single motion.

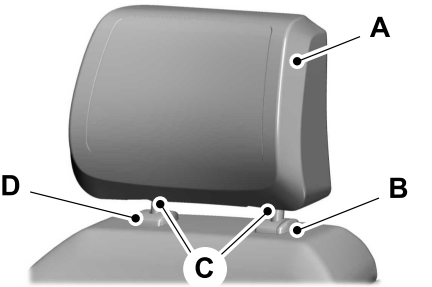
Note: *We recommend that the seat is unoccupied.*

Swivel Seat Audible Warning

Sounds when the driver or passenger seat is not locked into place, and the ignition is on.

POWER SEATS

HEAD RESTRAINT COMPONENTS



The head restraints consist of:

A	An energy absorbing head restraint.
B	Guide sleeve lock and release button.
C	Two steel stems.
D	Guide sleeve.

ADJUSTING THE HEAD RESTRAINT

WARNING: Fully adjust the head restraint before you sit in or operate your vehicle. This will help minimize the risk of neck injury in the event of a crash. Do not adjust the head restraint when your vehicle is moving.

WARNING: The head restraint is a safety device. Whenever possible it should be installed and properly adjusted when the seat is occupied. Failure to adjust the head restraint properly could reduce its effectiveness during certain impacts.

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WARNING: Adjust the head restraints for all passengers before you drive your vehicle. This will help minimize the risk of neck injury in the event of a crash. Do not adjust the head restraints when your vehicle is moving.

Adjust the head restraint so that the top of it is level with the top of your head.

Raising the Head Restraints

1. Pull the head restraint upward.
2. Make sure that the head restraint locks into place.

Lowering the Head Restraints

1. Press and hold the locking button.
2. Push the head restraint downward.
3. Make sure that the head restraint locks into place.

REMOVING THE HEAD RESTRAINT

WARNING: Do not remove the head restraint from an occupied seat.

1. Do not remove the head restraint from an occupied seat.

E265266

2. Press the locking button and remove the head restraint.

INSTALLING THE HEAD RESTRAINT

Align the steel stems into the guide sleeves and push the head restraint down until it locks.

MOVING THE SEAT BACKWARD AND FORWARD

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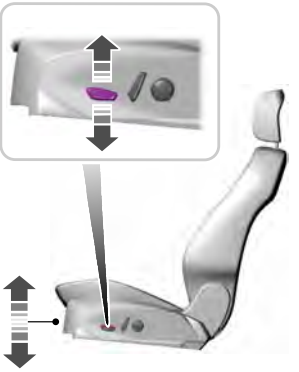
ADJUSTING THE SEAT BACKREST

ADJUSTING THE SEAT HEIGHT



ADJUSTING THE LUMBAR SUPPORT

HEATED SEATS

HEATED SEAT PRECAUTIONS

WARNING: Use caution when using the heated seat if you are unable to feel pain to your skin because of advanced age, chronic illness, diabetes, spinal cord injury, medication, alcohol use, exhaustion or other physical conditions. The heated seat could cause burns even at low temperatures, especially if used for long periods of time. Failure to follow this instruction could result in personal injury.

WARNING: Do not poke sharp objects into the seat cushion or seat backrest. This could damage the heated seat element and cause it to overheat. Failure to follow this instruction could result in personal injury.

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WARNING: Do not place anything on the seat that blocks the heat, for example a seat cover or a cushion. This could cause the seat to overheat. Failure to follow this instruction could result in personal injury.

Do not:

- Place heavy objects on the seat.
- Operate the heated seat if water or any other liquid spills on the seat. Allow the seat to dry.

SWITCHING THE HEATED SEATS ON AND OFF

The vehicle must be on to use this feature.

Press the heated seat symbol to cycle through the various heat settings and off. The more indicators that display, the warmer the temperature of the seat.

Note: *Based on your remote start settings, the heated seats may remain on after you remote start your vehicle. The heated seats may also turn on when you start your vehicle if they were on when you switched your vehicle off.*

Automatic Heated Seats (If Equipped)

When you switch on the auto setting, the heated seats switch on to match your climate control setting.

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REAR SEAT PRECAUTIONS

WARNING: Do not use the bench seats as a bed when your vehicle is moving. Failure to follow this warning could result in serious personal injury or death.

WARNING: Do not place any objects on a folded seat. Hard objects may become projectiles in a crash or sudden stop, which may increase the risk of serious personal injury.

WARNING: When reclining the backrest forward and backward, take care not to get your hands caught between the seat backrest and the frame, catches or mechanism. Failure to take care may result in personal injury.

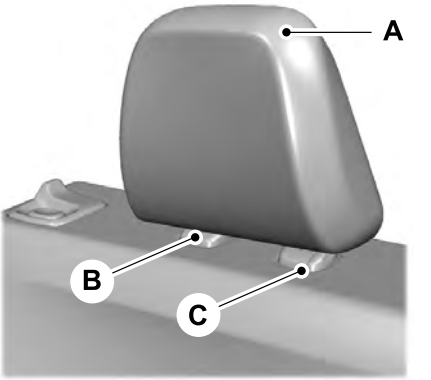
WARNING: Do not place cargo or any objects behind the seat backrest before returning it to the original position. Pull on the seat backrest to make sure that it has fully latched after returning the seat backrest to its original position. An unlatched seat may become dangerous if you stop suddenly or have a crash.

WARNING: When unfolding the seat backrests, make sure that the seatbelts are not trapped behind the seat.

MANUAL SEATS

HEAD RESTRAINT COMPONENTS

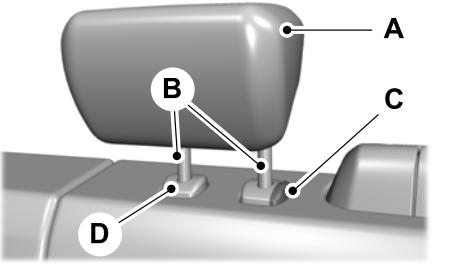
Rear Seat Outermost Head Restraints



The head restraints consist of:

A	An energy absorbing head restraint.
B	Guide sleeve.
C	Locking guide sleeve.

Rear Seat Center Head Restraint



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The head restraint consists of:

A An energy absorbing head restraint.

B Two steel stems.

C Guide sleeve adjust and release button.

D Guide sleeve unlock and remove button (If equipped).

ADJUSTING THE HEAD RESTRAINT

The outermost head restraints are non-adjustable.

Pull the center head restraint up to raise it.

To lower the center head restraint:

1. Press and hold the unlock and remove button.
2. Push the head restraint down.

REMOVING THE HEAD RESTRAINT

1. Fold the seat backrest forward before removing the head restraint.
2. Pull up the head restraint until it reaches its highest position.
3. Press and hold the adjust and release button and the unlock and remove button.
4. Pull up the head restraint.

INSTALLING THE HEAD RESTRAINT

1. Fold the seat backrest forward before installing the head restraint.
2. Align the steel stems into the guide sleeves and push the head restraint down until it locks.

ADJUSTING THE SEAT BACKREST

E175474

REMOVING THE SEATS

WARNING: Seats can weigh up to 132 lb (60 kg). Do not attempt to lift or carry any seat on your own.

WARNING: Do not use the release handles to lift or carry the seat.

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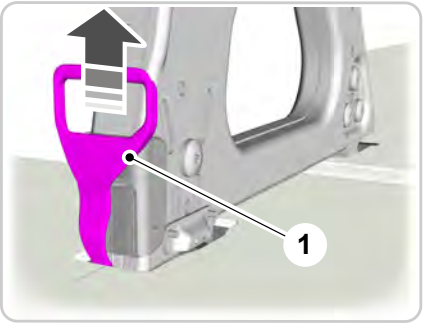

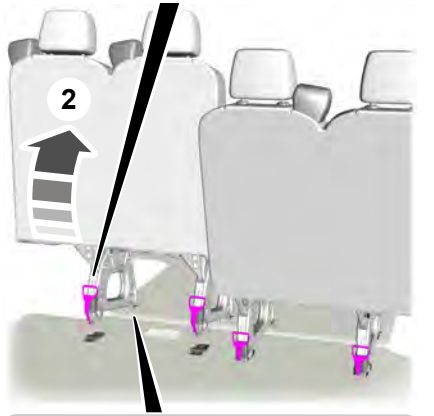

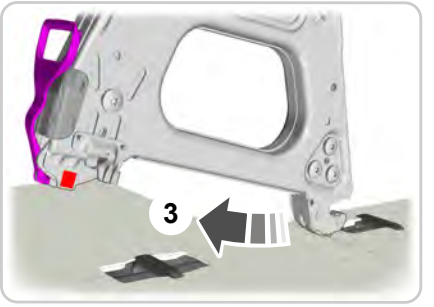

E173870

1. Pull the release handle up at an angle from the floor.
2. While holding the handle in this position, tilt the top of the seat forward to release the seat frame rear catches from the floor.
3. When the rear seat latches are clear of the floor, release the handle.
4. Pull the seat backward to release the seat frame front catches.
5. Remove the seat from the vehicle.

Note: *Two persons are required to release the seat handles and remove the seat.*

Note: *You can only remove seats that have integral release handles.*

Note: *The seatback does not fold forward.*

INSTALLING THE SEATS

WARNING: Make sure that the floor catches are free from obstruction before installing the seats.

WARNING: Make sure that you securely fasten the seat catches when installing. Make sure that the latches are correctly engaged by checking the red latch indicators.

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1. Align the seat frame front catches.
2. Push the seat forward to engage the seat frame front catches.
3. Align the seat frame rear catches.
4. Allow the seat to drop under its own weight for the last 6-8 in (15-20 cm).

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WHAT IS THE REAR OCCUPANT ALERT SYSTEM

The rear occupant alert system monitors vehicle conditions and notifies you to check for rear seat occupants when you switch the ignition off.

HOW DOES THE REAR OCCUPANT ALERT SYSTEM WORK

The system monitors when rear doors have been opened and closed to indicate the potential presence of an occupant in the rear seat.

A message displays in the information and entertainment display screen and an audible warning sounds when you switch the ignition off after any of the following conditions have been met:

- A rear door is opened or closed while the ignition is on.
- You switch the ignition on within 15 minutes of a rear door opening and closing.
- You switch the ignition on within 15 minutes of the alert having displayed or sounded.

REAR OCCUPANT ALERT SYSTEM PRECAUTIONS

WARNING: On hot days, the temperature inside the vehicle can rise very quickly. Exposure of people or animals to these high temperatures for even a short time can cause death or serious heat related injuries, including brain damage. Small children are particularly at risk.

WARNING: Do not leave children or pets unattended in your vehicle. Failure to follow this instruction could result in personal injury or death.

REAR OCCUPANT ALERT SYSTEM LIMITATIONS

The system does not detect the presence of objects or passengers in the rear seat. It monitors when rear doors are opened and closed.

Note: *It is possible to receive an alert when there is no rear seat occupant, but alert conditions are met.*

Note: *It is possible to receive no alert when there is an occupant in the rear seat, if alert conditions are not met. For example, if a rear seat occupant does not enter the vehicle through a rear door.*

Note: *The audible warning does not sound when the front door is opened before you switch the ignition off.*

SWITCHING REAR OCCUPANT ALERT SYSTEM ON AND OFF

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle***.
3. Switch ***Rear Occupant Alert*** on or off.

Note: *The default setting is on.*

Note: *Performing a master reset causes the system to switch on again.*

Semiannual Reminder (If Equipped)

When you switch the system off, a message appears every six months as a reminder that the system is off. You can switch the system back on or leave it off.

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REAR OCCUPANT ALERT SYSTEM INDICATORS

Message
Check rear seats for occupants.

Displays when you switch your vehicle off after the alert conditions are met.

The message displays for a short period of time. Press ***Close*** to acknowledge and remove the message.

Note: *Depending on your SYNC version, the graphic may look different from what you see here.*

REAR OCCUPANT ALERT SYSTEM AUDIBLE WARNINGS

Sounds when you switch your vehicle off after the alert conditions are met.

The warning sounds for a short period of time.

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WHAT IS THE MEMORY FUNCTION

The memory function recalls the position of these features:

- Driver seat.
- Power mirrors.
- Optional power steering column.
- Optional power adjustable pedals.

MEMORY FUNCTION PRECAUTIONS

WARNING: Before activating the memory seat, make sure that the area immediately surrounding the seat is clear of obstructions and that all occupants are clear of moving parts.

WARNING: Do not use the memory function when your vehicle is moving.

LOCATING THE MEMORY FUNCTION BUTTONS

The memory function buttons are on the driver door.

SAVING A PRESET POSITION

1. Adjust the memory features to your preferred position.
2. Press and hold the preferred preset button until you hear a single tone.

A confirmation message appears in the information display.

You can save up to three preset memory positions at any time.

RECALLING A PRESET POSITION

Press and release a preset button.

Note: *You can recall a preset memory position when the ignition is off, or when you place the transmission in park (P) or neutral (N) if the ignition is on and the vehicle is not moving.*

Note: *Pressing any of the preset buttons or any memory feature control during a memory recall cancels the operation.*

You can also recall a preset memory position by:

- Pressing the unlock button on your remote control if you linked it to a preset position.
- Unlocking the intelligent driver door handle if a linked remote control is present.

Using a linked remote control to recall your memory position when the ignition is off moves the seat and steering column to the easy entry position.

Linking a Preset Position to Your Remote Control or Passive Key

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LOCATING THE USB PORTS

Data Transfer USB Ports

The USB ports could be in the following locations:

- On the lower instrument panel below the climate control.
- Inside the center console.

Note: *These USB ports can also charge devices.*

Note: *Not all USB ports in your vehicle have data transfer capabilities.*

Note: *We recommend using only USB-IF certified cables and adapters. Non-certified cables and adapters may not work.*

Charge Only USB Ports

The USB ports could be in the following locations:

- On the lower instrument panel.
- On the upper instrument panel.
- Inside the media bin.
- Inside the center console.
- On the rear of the center console.
- In the cargo area.

PLAYING MEDIA USING THE USB PORT - VEHICLES WITH: SYNC 4

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

1. Connect your device to a USB port.
2. Press the audio system tile on the touchscreen.
3. Press ***Sources***.

Press the USB option.

Press to play a track. Press again to pause the track.

Press to skip to the next track.

Press and hold to fast forward through the track.

Press once to return to the beginning of a track. Repeatedly press to return to previous tracks.

Press and hold to fast rewind through the track.

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CHARGING A DEVICE

Connect your device to the USB port.

Data Transfer USB Ports

You can charge your device through the data transfer USB port when SYNC is on.

Charge Only USB Ports

You can charge your device through the charge only USB port when the vehicle is in accessory mode or when the vehicle is running.

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WHAT IS THE POWER OUTLET

The power outlet can power devices that require up to the rating on the outlet cover.

Note: *The total power delivered is divided if more than one outlet is used.*

POWER OUTLET PRECAUTIONS

WARNING: Do not keep electrical devices plugged into the power outlet whenever the device is not in use. The outlet provides power when the vehicle is on. Failure to follow this instruction could result in personal injury.

WARNING: Do not use an extension cord or connect multiple devices to the power outlet. Doing so could result in overloading the power outlet. Failure to follow this instruction could result in fire, personal injury or property damage.

Note: *This feature has a maximum output of 400 watts when the vehicle is in park (P).*

Note: *While in drive (D), the maximum outlet output is 300 watts.*

POWER OUTLET LIMITATIONS

Devices could exceed the power rating shown the device label when plugged in. Unplug the device and switch the ignition on and off to reset the system.

Do not use the power outlet for these types of electric devices:

- Cathode ray tube type televisions.
- Motor loads, for example vacuum cleaners, electric saws and other electric power tools, or compressor-driven refrigerators.
- Measuring devices which process precise data, for example medical equipment or measuring equipment.
- Other appliances requiring an extremely stable power supply, for example microcomputer-controlled electric blankets or touch sensor lamps.

LOCATING THE POWER OUTLETS

The power outlet could be located on both sides of the passenger seats.

POWER OUTLET INDICATORS

The power outlet indicator illuminates to let you know the status of the system.

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Indicator Status	Description
On	The power outlet is on.
Off	The power outlet is off.
Flashing	The power outlet is in fault mode.

Note: *Due to different technologies used on its construction, some devices may exceed the capacity shown on its label when they are initially plugged in.*

Note: *The power outlet temporarily turns off power when in fault mode if the device exceeds the Watt limit. Unplug your device and switch the ignition off. Open the driver door to reset the power outlet. Switch the ignition back on and make sure the indicator light remains on. Do not plug your device back in if it exceeds the maximum outlet output.*

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WHAT IS THE POWER OUTLET

The vehicle functions as a portable generator and can power devices that require up to the rating listed on power outlet label.

POWER OUTLET PRECAUTIONS

WARNING: Do not connect any vehicle power outlets to any premises. This can create a backfeed to utility lines. Failure to follow this instruction could result in property damage, fire, electrical shock or death.

WARNING: Do not keep electrical devices plugged in the power point whenever the device is not in use. Power points power up during remote start.

When you switch the rear power outlet on, the vehicle power down timer is disabled and the vehicle continues to be powered on.

Note: *We recommend using UL approved devices for use with the power outlet.*

Note: *Make sure there is no damage to the outlets before driving your vehicle.*

Note: *Power could be limited during extreme hot or cold temperatures to optimize the performance of the system.*

Note: *Make sure the windows of the vehicle are closed and the doors are locked if you are using the outlets and leave your vehicle unattended.*

Note: ***Pro Power Onboard*** *is unavailable when your vehicle is charging.*

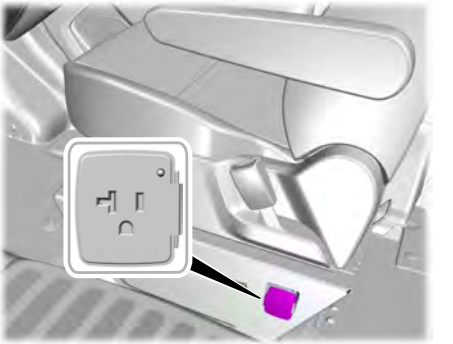
Grounding Type

Neutral bonded: The neutral of the inverter generator is bonded to system ground. Connecting loads that also have neutral bonded to ground causes the ground fault detection to trip.

Note: *If additional grounding measures are required, consult with a qualified electrician.*

LOCATING THE POWER OUTLETS

Front Location



The front power outlet is on the inner side of the passenger seat.

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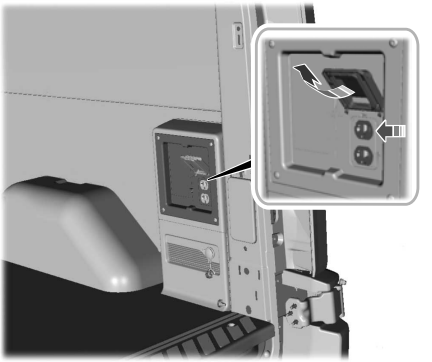
Rear Location



The rear power outlet could be in the rear of the vehicle.

POWER OUTLET INDICATORS

Power Outlet Status Indicator

The power outlet indicator illuminates to let you know the status of the system.

Indicator Status	Description
On	The power point is working and the vehicle is on.
Off	The power point is off and the vehicle is off.
Flashing	The power point is in fault mode.

Power Mode Indicator

The power mode indicator displays the currently used power and total available power level on the touchscreen. When you switch the power outlets off, the indicator displays a reduced available power level. When you switch the power outlets on, the indicator displays the full available power.

Note: *Make sure that plugged in devices do not exceed the available power displayed on the power mode indicator.*

SWITCHING THE REAR POWER OUTLET ON AND OFF

Using the Center Display

1. Press ***Features*** on the touchscreen.
2. Press ***Pro Power Onboard***.
3. Switch ***Rear Outlets*** on or off.

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Using the Rear Outlet Control

Press the button to switch the rear outlet on and off.

SETTING THE HIGH VOLTAGE BATTERY RESERVE LIMIT

When the vehicle is in Park (P) you can set a high voltage battery reserve limit to save a range which you can drive your vehicle before recharging.

You can set the high voltage battery reserve limit on the touchscreen.

A notification indicates when the vehicle reaches the pre-set limit and ***Pro Power Onboard*** turns off.

Note: *After your vehicle reaches the pre-set limit, the vehicle power down timer is enabled again. See* ***What Is the Vehicle Power Down Timer*** *(page 192).*

RESETTING GROUND FAULT DETECTION

Disconnect all electrical loads before you reset the ground fault.

Use the controls on the touchscreen to test the ground fault detection circuit.

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POWER OUTLET – TROUBLESHOOTING

POWER OUTLET – INFORMATION MESSAGES

Message	Description
Item(s) plugged in exceeded the system's maximum capacity. Try unplugging one or more items and reset. See owner's manual for details.	Make sure that plugged in devices do not exceed the available power displayed. Devices could exceed the power rating shown the device label when plugged in. Unplug the device and switch the vehicle on and off to reset the system.
Generator system is outside its operating temperature and capability is reduced. See owner's manual for details.	Power could be limited during extreme hot or cold temperatures to optimize the performance of the system.
Another power source is trying to supply power to your vehicle's AC outlets. Disconnect vehicle from that power source. See owner's manual for details.	Do not plug in any device that supplies power to the vehicle through the power outlets. This could result in damage to vehicle systems.
This button tests outlets for proper operation of ground fault detection. In a successful test, Pro Power Onboard detects the ground fault and turns off. See owner's manual for details.	The power outlet is in fault mode. Make sure that all devices are unplugged from the system. Use the controls on the touchscreen to reset the system. Switch your vehicle on and off if the touchscreen controls are unable to reset the system. See an authorized dealer if these steps do not fix the fault.

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POWER OUTLET – FREQUENTLY ASKED QUESTIONS

Why is there a warning about something being plugged into the rear power outlet when I do not have anything plugged in?

One or more of the rear power outlet covers could be ajar or broken. Make sure the generator is off and check the outlet covers. Select OK on the instrument cluster display to acknowledge the warning.

Why can I not shift my vehicle out of Park (P)?

Make sure the rear power outlet covers are closed and not damaged. Press OK on the instrument cluster display to acknowledge the warning to be able to move the transmission from Park (P).

What do I do when my instrument cluster display is malfunctioning and I cannot acknowledge the warning to put the transmission in Drive (D).

Power the vehicle off and make sure nothing is plugged into the rear power outlet and all outlet covers are closed. Start the vehicle and select OK on the instrument cluster display to acknowledge the warning. Have your vehicle serviced soon.

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WHAT IS THE POWER OUTLET

The power outlet can power devices using a 12 V outlet adapter.

POWER OUTLET PRECAUTIONS

WARNING: Do not use a power point for operating a cigar lighter. Incorrect use of the power points can cause damage not covered by the vehicle warranty, and can result in fire or serious injury.

When you switch the vehicle on, you can use the socket to power 12 V appliances with a maximum current rating of 15 A. Do not use the power point over the vehicle capacity of 12 V DC 180 W or a fuse could blow. Do not plug in any device that supplies power to the vehicle through the power points. This could result in damage to vehicle systems. Do not hang any accessory from the accessory plug. Always keep the power point caps closed when not in use. Do not insert objects other than an accessory plug into the power point.

To prevent the battery from running out of charge:

- Do not use the power point longer than necessary when the vehicle is off.
- Do not leave devices plugged in overnight or when you park your vehicle for extended periods.

LOCATING THE POWER OUTLETS

Power outlets are in the following locations:

- On the instrument panel.
- Inside the center console.
- On the rear of the center console.

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CIGAR LIGHTER PRECAUTIONS

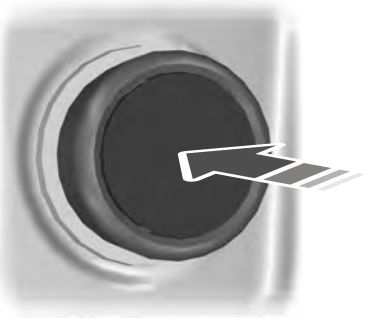
WARNING: Do not plug optional electrical accessories into the cigar lighter socket. Incorrect use of the cigar lighter can cause damage not covered by the vehicle warranty, and can result in fire or serious injury.

Note: *If the power supply does not work after you switch the ignition off, switch the ignition on.*

Note: *If you use the socket when the engine is not running, the battery may run out of charge.*

Note: *When you switch the ignition on, you can use the socket to power 12 V appliances with a maximum current rating of 15 A.*

USING THE CIGAR LIGHTER



E103382

Press the element in to use the cigar lighter. It pops out after a short period of time.

Do not hold the cigar lighter element pressed in.

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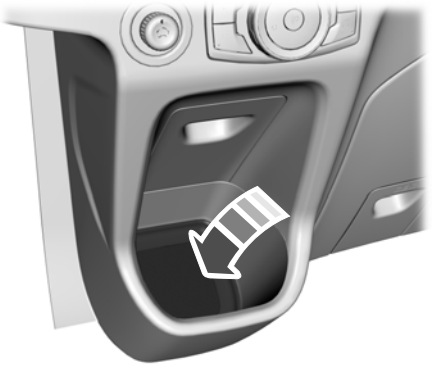
BOTTLE HOLDERS

BOTTLE HOLDER PRECAUTIONS

WARNING: Do not place glass objects in the bottle holder. Items could become loose during hard braking, acceleration or crashes. Failure to follow this instruction could result in personal injury.

LOCATING THE BOTTLE HOLDERS



E171160

OVERHEAD STORAGE

LOCATING THE OVERHEAD STORAGE

WARNING: Do not place heavy objects in the overhead console. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.

E169073

OVERHEAD STORAGE LOAD CAPACITIES

The maximum evenly distributed shelf load is 44 lb (20 kg).

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STARTING AND STOPPING THE ENGINE – PRECAUTIONS

WARNING: Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment. If you smell exhaust fumes inside your vehicle, have your vehicle inspected immediately. Do not drive if you smell exhaust fumes.

WARNING: Extended idling at high engine speeds can produce very high temperatures in the engine and exhaust system, creating the risk of fire or other damage.

WARNING: Do not park, idle or drive your vehicle on dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, creating the risk of fire.

WARNING: Do not start the engine in a closed garage or in other enclosed areas. Exhaust fumes are toxic. Always open the garage door before you start the engine. Failure to follow this instruction could result in personal injury or death.

If you stop your vehicle and then leave the engine idling for long periods, we recommend that you do one of the following:

- Open the windows at least 1 in (3 cm).
- Set your climate control to outside air.

IGNITION SWITCH

E247596

Note: *Make sure the key is clean before inserting it into any lock cylinder.*

Note: *Do not leave the key in the ignition for an extended period of time when the engine is not running. This is to prevent the vehicle battery from losing charge.*

Switching the Ignition Off

Turn the key to position ***0***.

Switching the Ignition to Accessory Mode

Turn the key to position ***I***. Electrical accessories, for example the radio, operate without the engine running.

Switching the Ignition On

Turn the key to position ***II***. All electrical circuits and accessories are operational and the warning lamps and indicators illuminate.

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Starting the Engine

Turn the key to position ***III***. Release the key when the engine starts.

PUSH BUTTON IGNITION SWITCH

Switching the Ignition Off

When the ignition is on or in accessory mode, press the push button ignition switch once without your foot on the brake or clutch pedal.

Switching the Ignition to Accessory Mode

When the ignition is off, press the push button ignition switch once without your foot on the brake or clutch pedal.

All electrical circuits and accessories are operational and the warning lamps and indicators illuminate.

Starting the Engine

Press the brake or clutch pedal and press the push button ignition switch. An indicator light on the button illuminates when then ignition is on and when the engine starts.

Note: *The system may not function if the passive key is close to metal objects or electronic devices, for example keys or a cell phone.*

Note: *A valid key must be inside your vehicle to switch the ignition on and start the engine.*

STARTING THE ENGINE

STARTING A GASOLINE ENGINE - VEHICLES WITH: KEYED IGNITION

Before starting your vehicle, check the following:

- Make sure that the headlamps and electrical accessories are off.
- Make sure that the parking brake is on.
- Make sure that the transmission is in park (P).

1. Fully press the brake pedal.

Note: *Do not touch the accelerator pedal.*

2. Turn the key to position ***III***.

Note: *The engine may continue cranking for up to 15 seconds or until it starts.*

Note: *The engine takes longer to start at lower temperatures. It may crank for several seconds when very cold.*

STARTING A GASOLINE ENGINE - VEHICLES WITH: PUSH BUTTON START

Before starting your vehicle, check the following:

- Make sure that the headlamps and electrical accessories are off.
- Make sure that the parking brake is on.
- Make sure that the transmission is in park (P).

1. Fully press the brake pedal.

Note: *Do not touch the accelerator pedal.*

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2. Press the push button ignition switch.

Note: *The engine may continue cranking for up to 15 seconds or until it starts.*

Note: *The engine takes longer to start at lower temperatures. It may crank for several seconds when very cold.*

RESTARTING THE ENGINE AFTER STOPPING IT

The system allows you to start the engine within 10 seconds of switching it off, even if it does not detect a valid passive key.

Within 10 seconds of switching the engine off, fully press the brake or clutch pedal and press the push button ignition switch. After 10 seconds, you can no longer start the engine if the system does not detect a valid passive key.

When you start the engine, it remains running until you press the push button ignition switch, even if your vehicle does not detect a valid passive key. If you open and close a door when the engine is running, the system searches for a valid passive key.

STARTING A FLOODED ENGINE - VEHICLES WITH: KEYED IGNITION

If you cannot start the engine after 3 attempts, wait 10 seconds and do the following:

1. Fully press the brake pedal or the clutch pedal.

Note: *Make sure that the parking brake is applied.*

Note: *Make sure that the transmission is in park (P) or neutral (N).*

2. Fully press the accelerator pedal and hold it there.

3. Turn the key to position ***III*** and wait until the engine stops cranking.
4. Release the accelerator pedal.
5. Turn the key to position ***III***.

STARTING A FLOODED ENGINE - VEHICLES WITH: PUSH BUTTON START

If you cannot start the engine after 3 attempts, wait 10 seconds and do the following:

1. Fully press the brake pedal or the clutch pedal.

Note: *Make sure that the parking brake is applied.*

Note: *Make sure that the transmission is in park (P) or neutral (N).*

2. Fully press the accelerator pedal and hold it there.
3. Press the push button ignition switch.

Note: *The engine cranks for a short period of time and then it stops.*

4. Release the accelerator pedal.

5. Press the push button ignition switch.

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ENGINE BLOCK HEATER

ENGINE BLOCK HEATER PRECAUTIONS

WARNING: Failure to follow engine block heater instructions could result in property damage or serious personal injury.

WARNING: Do not use your heater with ungrounded electrical systems or two-pronged adapters. There is a risk of electrical shock.

WARNING: Do not fully close the hood, or allow it to drop under its own weight when using the engine block heater. This could damage the power cable and may cause an electrical short resulting in fire, injury and property damage.

We recommend that you do the following for a safe and correct operation:

- Use a 16-gauge outdoor extension cord that is product certified by Underwriter's Laboratory (UL) or Canadian Standards Association (CSA). This extension cord must be suitable for use outdoors, in cold temperatures, and be clearly marked Suitable for Use with Outdoor Appliances. Do not use an indoor extension cord outdoors. This could result in an electric shock or become a fire hazard.
- Use as short an extension cord as possible.
- Do not use multiple extension cords.
- Make sure that when in operation, the extension cord plug and engine block heater cord plug connections are free and clear of water. This could cause an electric shock or fire.
- If the engine block heater cord is under the hood, do not remove the wiring from its original location. Do not close the hood on the extension wiring.
- Park your vehicle in a clean area, clear of combustible materials.
- Firmly connect the engine block heater cord and the extension cord.
- Check the extension cord for heat anywhere when the system has been operating for approximately 30 minutes.
- Unplug and properly stow the system before starting and driving your vehicle. The protective cover seals the terminals of the engine block heater cord plug when not in use.
- Check the engine block heater system for proper operation before winter.

HOW DOES THE ENGINE BLOCK HEATER WORK

The engine block heater warms the engine coolant. This allows the climate control system to quickly respond. The equipment includes a heater element installed in the engine block and a wire harness. You can connect the system to a grounded 110 volt AC electrical source.

Note: *The engine block heater is most effective when outdoor temperatures are below 0ºF (-18ºC).*

USING THE ENGINE BLOCK HEATER

Make sure the receptacle terminals are clean and dry prior to use. Clean them with a dry cloth if necessary.

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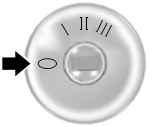
The heater uses 0.4 to 1.0 kilowatt-hours of energy per hour of use. The system does not have a thermostat. It achieves maximum temperature after approximately three hours of operation. Using the engine block heater longer than three hours does not improve system performance and unnecessarily uses electricity.

STOPPING THE ENGINE

STOPPING THE ENGINE WHEN YOUR VEHICLE IS STATIONARY - VEHICLES WITH: KEYED IGNITION

1. Shift into park (P).
2. Apply the parking brake.
3. Wait until the engine reaches idle speed.



4. Turn the key to position ***0***.

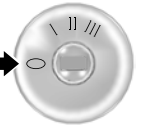
STOPPING THE ENGINE WHEN YOUR VEHICLE IS STATIONARY - VEHICLES WITH: PUSH BUTTON START

1. Shift into park (P).
2. Apply the parking brake.
3. Wait until the engine reaches idle speed.

4. Press the push button ignition switch.

STOPPING THE ENGINE WHEN YOUR VEHICLE IS MOVING - VEHICLES WITH: KEYED IGNITION

WARNING: Switching off the engine when your vehicle is still moving results in a significant decrease in braking assistance. Higher effort is required to apply the brakes and to stop your vehicle. A significant decrease in steering assistance could also occur. The steering does not lock, but higher effort could be required to steer your vehicle. When you switch the ignition off, some electrical circuits, for example airbags, also turn off. If you unintentionally switch the ignition off, shift into neutral (N) and restart the engine.



1. Turn the key to position ***0***.
2. Shift into neutral and use the brakes to bring your vehicle to a safe stop.
3. Shift into park (P).
4. Apply the parking brake.

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STOPPING THE ENGINE WHEN YOUR VEHICLE IS MOVING - VEHICLES WITH: PUSH BUTTON START

WARNING: Switching off the engine when your vehicle is still moving results in a significant decrease in braking assistance. Higher effort is required to apply the brakes and to stop your vehicle. A significant decrease in steering assistance could also occur. The steering does not lock, but higher effort could be required to steer your vehicle. When you switch the ignition off, some electrical circuits, for example airbags, also turn off. If you unintentionally switch the ignition off, shift into neutral (N) and restart the engine.

1. Press and hold the push button ignition switch until the engine stops, or press it three times within two seconds.
2. Shift into neutral and use the brakes to bring your vehicle to a safe stop.
3. Shift into park (P).
4. Apply the parking brake.

AUTOMATIC ENGINE STOP - VEHICLES WITH: PUSH BUTTON START

WHAT IS AUTOMATIC ENGINE STOP

Automatic engine stop automatically shuts down your vehicle if it has been idling for an extended period of time. The ignition also turns off in order to save battery power.

HOW DOES AUTOMATIC ENGINE STOP WORK

Before your vehicle shuts down, a message appears in the information display showing a timer counting down from 30 seconds. If you do not intervene within 30 seconds, your vehicle shuts down.

After the shutdown, another message appears in the information display to inform you that your vehicle has shut down in order to save fuel.

Start your vehicle as normal.

SWITCHING AUTOMATIC ENGINE STOP ON AND OFF

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Switch ***30min Max Idle*** on or off.

Note: *You cannot permanently switch off the automatic shutdown. If you switch it off, it turns on each time you switch the ignition on.*

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OVERRIDING AUTOMATIC ENGINE STOP

You can stop the shutdown, or reset the timer, at any point before the 30-second countdown has expired by doing any of the following:

- Pressing the brake or accelerator pedal.
- Pressing the ***OK*** or ***RESET*** button during the 30-second countdown.

ACCESSING THE PASSIVE KEY BACKUP POSITION

If you are unable to start your vehicle, follow the steps below.

1. Place the remote control in the instrument panel slot as shown with the buttons facing upward.
2. Press and hold the brake pedal.
3. Press the push button start to switch the power on and start your vehicle.

STARTING AND STOPPING THE ENGINE – TROUBLESHOOTING

STARTING AND STOPPING THE ENGINE – WARNING LAMPS

Malfunction Indicator Lamp

Check Engine

If it illuminates when the engine is running this indicates a malfunction. The On Board Diagnostics system has detected a malfunction of the vehicle emission control system.

If it flashes, engine misfire may be occurring. Increased exhaust gas temperatures could damage the catalytic converter or other vehicle components. Avoid heavy acceleration and deceleration and have your vehicle immediately serviced.

Powertrain Warning Lamp

If it illuminates when the engine is running this indicates a malfunction. If it flashes when you are driving, immediately reduce the vehicle speed. Avoid heavy acceleration and deceleration and have your vehicle immediately serviced.

If both lamps illuminate when the engine is running, stop your vehicle as soon as it is safe to do so. Continuing to drive your vehicle may cause reduced power or the engine to stop. Switch the ignition off and attempt to restart the engine. Have your vehicle immediately checked.

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STARTING AND STOPPING THE ENGINE – INFORMATION MESSAGES

Message	Action
Cranking Time Exceeded	Displays if you exceed the starting time limit. You cannot attempt to start the engine for 15 minutes. If you cannot start the engine after 15 minutes passes, have your vehicle immediately checked.
Starting System Fault	Displays if you are unable to start your vehicle with a correctly coded key. The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
No Key Detected	Displays if the system does not detect a valid passive key.

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STARTING AND STOPPING THE ENGINE – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: KEYED IGNITION

Why is the engine idle speed high when I am starting the engine?

The speed at which the engine idles immediately after starting is optimized to minimize vehicle emissions and maximize cabin comfort and fuel economy.

Why does the engine not crank?

You can only attempt to start the engine for a limited amount of time before the starting system temporarily disables. If you exceed the starting time limit, a message may appear and you cannot attempt to start the engine for at least 15 minutes.

Why do I experience different driving characteristics?

If you disconnect the battery, your vehicle may exhibit some unusual driving characteristics for approximately 5 mi (8 km) after you reconnect it. This is because the engine management system must realign itself with the engine. You can disregard any unusual driving characteristics during this period.

Why can I not start the engine?

If you cannot start the engine after 3 attempts, wait 10 seconds and do the following:

1. Fully press the brake pedal or the clutch pedal.

Note: *Make sure that the parking brake is applied.*

Note: *Make sure that the transmission is in park (P) or neutral (N).*

2. Fully press the accelerator pedal and hold it there.

3. Turn the key to position ***III*** and wait until the engine stops cranking.
4. Release the accelerator pedal.
5. Turn the key to position ***III***.

STARTING AND STOPPING THE ENGINE – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: PUSH BUTTON START

Why is the engine idle speed high when I am starting the engine?

The speed at which the engine idles immediately after starting is optimized to minimize vehicle emissions and maximize cabin comfort and fuel economy.

Why does the engine not crank?

You can only attempt to start the engine for a limited amount of time before the starting system temporarily disables. If you exceed the starting time limit, a message may appear and you cannot attempt to start the engine for at least 15 minutes.

Why do I experience different driving characteristics?

If you disconnect the battery, your vehicle may exhibit some unusual driving characteristics for approximately 5 mi (8 km) after you reconnect it. This is because the engine management system must realign itself with the engine. You can disregard any unusual driving characteristics during this period.

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Why can I not start the engine?

If you cannot start the engine after 3 attempts, wait 10 seconds and do the following:

1. Fully press the brake pedal or the clutch pedal.

Note: *Make sure that the parking brake is applied.*

Note: *Make sure that the transmission is in park (P) or neutral (N).*

2. Fully press the accelerator pedal and hold it there.
3. Press the push button ignition switch.

Note: *The engine cranks for a short period of time and then it stops.*

4. Release the accelerator pedal.

5. Press the push button ignition switch.

Why does the system not detect a passive key?

If the system does not detect a passive key and you are unable to start the engine, insert the passive key into the backup position and press the push button ignition switch to start the engine. See **Accessing the Passive Key Backup Position** (page 187).

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STARTING AND POWERING OFF PRECAUTIONS

- The system may not function if the remote control is close to metal objects or electronic devices, for example, keys or a cell phone.
- A valid remote control must be inside your vehicle to switch the power on and start your vehicle.
- Remote controls left inside your vehicle when locked are disabled. A message may appear in the information display indicating that there is no key detected when you try to start your vehicle. Press the unlock button on the remote control to enable it, and then start your vehicle.
- Make sure all occupants fasten their seat belt.
- Make sure the headlamps and electrical accessories are off.
- Make sure the parking brake is on.
- Make sure the transmission is in park (P).

STARTING THE VEHICLE

1. Fully press the brake pedal.

Note: *Do not touch the accelerator pedal.*

2. Press the push button start.

You can also start your vehicle using Valet Mode or a Backup Start Passcode.

POWERING OFF

WARNING: Do not switch off your vehicle when it is moving. This results in a significant decrease in braking and steering assistance. If the vehicle is switched off, some electrical circuits, for example airbags, could also turn off. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

Note: *If you unintentionally switch your vehicle off, shift into neutral (N) and restart your vehicle.*

When your vehicle is not moving and is started, or the power is in accessory mode, press and release the push button start without pressing the brake pedal. This shuts off the vehicle and all electrical accessories.

When your vehicle is moving, press the push button start three times within two seconds, or press and hold for at least one second. Shift into neutral (N) and use the brakes to bring your vehicle to a safe stop. When your vehicle comes to a complete stop, shift into park (P).

RESTARTING THE VEHICLE AFTER POWERING OFF

Fast Restart

The fast restart feature allows you to restart your vehicle within 10 seconds of switching it off, even if it does not detect a valid remote control.

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Within 10 seconds of switching your vehicle off, press the brake pedal and press the push button start. After 10 seconds, you can no longer start your vehicle if it does not detect a valid remote control.

Once your vehicle starts, it remains on until you press the push button start, even if it does not detect a valid remote control.

If you open and close a door while your vehicle is on, the system searches for a valid remote control. You cannot start your vehicle if the system does not detect a valid remote control within 10 seconds.

VEHICLE POWER DOWN TIMER

WHAT IS THE VEHICLE POWER DOWN TIMER

Vehicle power down timer automatically shuts down your vehicle if it has been idling for an extended period of time. The ignition also turns off in order to save battery power.

HOW DOES THE VEHICLE POWER DOWN TIMER WORK

Before your vehicle shuts down, a message appears in the information display showing a timer counting down from 30 seconds. If you do not intervene within 30 seconds, your vehicle shuts down.

After the shutdown, another message appears in the information display to inform you that your vehicle has shut down in order to save battery power.

Start your vehicle as normal.

SWITCHING THE VEHICLE POWER DOWN TIMER ON AND OFF

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Vehicle Settings***.
3. Switch ***30min Max Idle*** on or off.

Note: *You cannot permanently switch off the vehicle power down timer. If you switch it off, it turns on each time you switch the ignition on.*

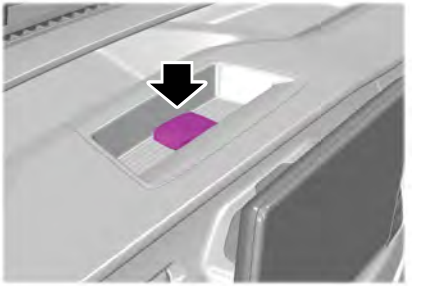
OVERRIDING THE VEHICLE POWER DOWN TIMER

You can stop the shutdown or reset the timer before the 30-second countdown has expired by doing any of the following:

- Pressing the brake or accelerator pedal.
- Pressing the ***OK*** or ***RESET*** button during the 30-second countdown.

ACCESSING THE PASSIVE KEY BACKUP POSITION

If you are unable to start your vehicle, follow the steps below.



1. Place the remote control in the instrument panel slot as shown with the buttons facing upward.
2. Press and hold the brake pedal.
3. Press the push button start to switch the power on and start your vehicle.

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STARTING AND POWERING OFF – TROUBLESHOOTING

STARTING AND POWERING OFF – FREQUENTLY ASKED QUESTIONS

Why does the vehicle not start?

The system does not function if the remote control frequencies are jammed, or if the remote control battery has no charge. See **Accessing the Passive Key Backup Position** (page 192).

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WHAT IS AUTO-START-STOP

The system is designed to help reduce fuel consumption and CO_2 emissions by stopping the engine when it is idling, for example at traffic lights.

AUTO-START-STOP PRECAUTIONS

WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you leave your vehicle. Failure to follow this instruction could result in personal injury or death.

WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you open the hood or have any service or repair work completed. If you do not switch the ignition off, the engine could restart at any time. Failure to follow this instruction could result in personal injury or death.

SWITCHING AUTO-START-STOP ON AND OFF (IF EQUIPPED)

The system turns on when you switch the ignition on.

Press the switch to switch the system off.

Note: *OFF illuminates in the switch.*

Press the switch again to switch the system back on.

Note: *The system is designed to turn off if it detects a malfunction. If the system malfunctions, have your vehicle checked as soon as possible.*

STOPPING THE ENGINE

Stop your vehicle, keep your foot on the brake pedal and the transmission in drive (D).

Note: *Power assist steering turns off when the engine stops.*

RESTARTING THE ENGINE

Release the brake pedal or press the accelerator pedal.

A message appears in the information display if the system requires you to take action.

Message	Condition	Action
Auto StartStop Press Brake to Start Engine	The system needs to restart the engine but requires your confirmation.	Press the brake pedal to restart the engine.
Auto StartStop Press a Pedal to Start Engine	The system needs to restart the engine but requires your confirmation.	Press the brake pedal or the accelerator pedal to restart the engine.

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AUTO-START-STOP INDICATORS

WARNING: The system may require the engine to automatically restart when the auto-start-stop indicator illuminates green or flashes amber. Failure to follow this instruction could result in personal injury.

The Auto-Start-Stop indicator illuminates green when the engine stops. It flashes amber and a message appears when you need to take action.

The Auto-Start-Stop indicator illuminates gray with a strikethrough when the system is not available.

Note: *You can display the reason why the system is not available in the information display.*

AUTO-START-STOP – TROUBLESHOOTING

AUTO-START-STOP – INFORMATION MESSAGES

Message	Condition	Action
Auto StartStop Shift to P, then Restart Engine	The system is not functioning.	Shift into park (P) and restart the engine yourself.
Auto StartStop Manual Restart Required	The system is not functioning.	Restart the engine yourself.

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AUTO-START-STOP – FREQUENTLY ASKED QUESTIONS

Why does the engine not always stop when I expect it to?

The system is designed to work in a way that complements other vehicle systems, allowing them to operate at optimum performance.

The system does not stop the engine if:

- The driver door is open.
- The driver seatbelt is unfastened.
- Your vehicle is at high altitude.
- The heated windshield is on.
- The transmission is in manual (M).
- Your vehicle is on a steep grade.
- The engine is warming up.
- The outside temperature is too low or too high.
- The battery charge is low.
- The battery temperature is outside the optimal operating range.
- The engine is required to run to maintain interior climate and reduce fogging.

Why does the engine sometimes restart when I do not expect it to?

The system is designed to work in a way that complements other vehicle systems, allowing them to operate at optimum performance.

The system restarts the engine if:

- You switch the heated windshield on.
- You switch maximum defrost on.
- Your vehicle starts to roll downhill in neutral.
- The engine is required to run to maintain adequate brake system assistance.
- The engine is required to run to maintain interior climate and reduce fogging.

Can I permanently switch the system off?

No. The system plays an important role in reducing the fuel consumption and the CO_2 emissions.

Will the frequent engine starts cause parts to wear out?

Your vehicle has an enhanced battery and starter motor that are designed for the increased number of engine starts.

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FUEL AND REFUELING PRECAUTIONS

WARNING: Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.

WARNING: The fuel system may be under pressure. If you hear a hissing sound near the fuel filler inlet, do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.

WARNING: Fuels can cause serious injury or death if misused or mishandled.

WARNING: Fuel may contain benzene, which is a cancer-causing agent.

WARNING: When refueling always shut the engine off and never allow sparks or open flames near the fuel tank filler valve. Never smoke or use a cell phone while refueling. Fuel vapor is extremely hazardous under certain conditions. Avoid inhaling excess fumes.

WARNING: Read and follow all the instructions on the pump island.

Follow these guidelines when refueling:

- Extinguish all smoking materials and any open flames before refueling your vehicle.
- Switch the engine off before refueling.
- Automotive fuels can be harmful or fatal if swallowed. Fuel is highly toxic and if swallowed can cause death or permanent injury. If fuel is swallowed immediately call a physician, even if no symptoms are immediately apparent. The toxic effects of fuel may not be apparent for hours.
- Avoid inhaling fuel vapors. Inhaling fuel vapor can lead to eye and respiratory tract irritation. In severe cases, excessive or prolonged breathing of fuel vapor can cause serious illness and permanent injury.
- Avoid getting fuel in your eyes. If you splash fuel in your eyes, immediately remove contact lenses, if worn, flush with water for 15 minutes and seek medical attention. Failure to seek proper medical attention could lead to permanent injury.
- Fuels can be harmful if absorbed through the skin. If you splash fuel on your skin, clothing or both, promptly remove contaminated clothing and thoroughly wash your skin with soap and water. Repeated or prolonged skin contact causes skin irritation.
- Be particularly careful if you are taking Antabuse or other forms of Disulfiram for the treatment of alcoholism. Breathing fuel vapors could cause an adverse reaction, serious personal injury or sickness. Immediately call a physician if you experience any adverse reactions.

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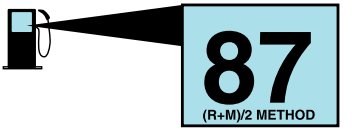
FUEL QUALITY

SELECTING THE CORRECT FUEL - 3.5L DURATEC, E85

Flex fuel vehicles have one of the following identifiers:

- Yellow fuel filler cap.
- Yellow bezel around the fuel filler inlet.
- Yellow fuel filler housing.
- Yellow E85 label on the fuel tank filler door.



Your vehicle is designed to operate on regular unleaded gasoline with a minimum pump (R+M)/2 octane rating of 87 or regular unleaded gasoline blended with a maximum of 85% ethanol (E85).

Some fuel stations, particularly those in high altitude areas, offer fuels posted as regular unleaded gasoline with an octane rating below 87. The use of these fuels could result in engine damage that will not be covered by the vehicle warranty.

For best overall vehicle and engine performance, premium fuel with an octane rating of 91 or higher is recommended. The performance gained by using premium fuel is most noticeable in hot weather as well as other conditions, for example when towing a trailer.

Do not be concerned if the engine sometimes knocks lightly. However, if the engine knocks heavily while using fuel with the recommended octane rating, contact an authorized dealer to prevent any engine damage.

We recommend Top Tier detergent gasolines, where available to help minimize engine deposits and maintain optimal vehicle and engine performance. For additional information, refer to www.toptiergas.com.

Note: *Use of any fuel for which the vehicle was not designed can impair the emission control system, cause loss of vehicle performance, and cause damage to the engine which may not be covered by the vehicle Warranty.*

Do not use:

- Diesel fuel.
- Fuels containing kerosene or paraffin.
- Fuels containing more than 85% ethanol or E100 fuel.
- Fuels containing methanol.
- Fuels containing metallic-based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT).
- Leaded fuel, using leaded fuel is prohibited by law.

The use of fuels with metallic compounds such as methylcyclopentadienyl manganese tricarbonyl (commonly known as MMT), which is a manganese-based fuel additive, will impair engine performance and affect the emission control system.

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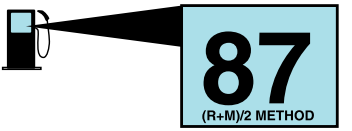
SELECTING THE CORRECT FUEL - GASOLINE



Your vehicle is designed to operate on regular unleaded gasoline with a minimum pump (R+M)/2 octane rating of 87.

Some fuel stations, particularly those in high altitude areas, offer fuels posted as regular unleaded gasoline with an octane rating below 87. The use of these fuels could result in engine damage that will not be covered by the vehicle warranty.

For best overall vehicle and engine performance, premium fuel with an octane rating of 91 or higher is recommended. The performance gained by using premium fuel is most noticeable in hot weather as well as other conditions, for example when towing a trailer.

Do not be concerned if the engine sometimes knocks lightly. However, if the engine knocks heavily while using fuel with the recommended octane rating, contact an authorized dealer to prevent any engine damage.

We recommend Top Tier detergent gasolines, where available to help minimize engine deposits and maintain optimal vehicle and engine performance. For additional information, refer to www.toptiergas.com.

Note: *Use of any fuel for which the vehicle was not designed can impair the emission control system, cause loss of vehicle performance, and cause damage to the engine which may not be covered by the vehicle Warranty.*

Do not use:

- Diesel fuel.
- Fuels containing kerosene or paraffin.
- Fuel containing more than 15% ethanol or E85 fuel.
- Fuels containing methanol.
- Fuels containing metallic-based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT).
- Leaded fuel, using leaded fuel is prohibited by law.

The use of fuels with metallic compounds such as methylcyclopentadienyl manganese tricarbonyl (commonly known as MMT), which is a manganese-based fuel additive, will impair engine performance and affect the emission control system.

SWITCHING BETWEEN E85 AND GASOLINE - 3.5L DURATEC

We do not recommend repeatedly alternating between E85 and gasoline. If you switch from using E85 to gasoline, or from gasoline to E85, add as much fuel as possible, at least half a tank. Drive your vehicle immediately for a minimum of 5 mi (8 km) to allow it to adapt to the change in ethanol concentration. If you use E85 exclusively, we recommend that you fill the fuel tank with regular unleaded gasoline at each scheduled oil change.

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LOCATING THE FUEL FILLER FUNNEL

The fuel filler funnel is in the glove compartment or in the front right-hand side stepwell storage compartment.

RUNNING OUT OF FUEL

FILLING A PORTABLE FUEL CONTAINER

WARNING: Flow of fuel through a fuel pump nozzle can produce static electricity. This can cause a fire if you are filling an ungrounded fuel container.

Use the following guidelines to avoid electrostatic charge build-up, which can produce a spark, when filling an ungrounded fuel container:

- Only use an approved fuel container to transfer fuel to your vehicle. Place the container on the ground when filling it.
- Do not fill a fuel container when it is inside your vehicle (including the cargo area).
- Keep the fuel pump nozzle in contact with the fuel container when filling it.
- Do not use a device that holds the fuel pump nozzle lever in the fill position.

ADDING FUEL FROM A PORTABLE FUEL CONTAINER

WARNING: Do not insert the nozzle of a fuel container or an aftermarket funnel into the fuel filler neck. This may damage the fuel system filler neck or its seal and cause fuel to run onto the ground.

WARNING: Do not pry open the fuel tank filler valve. This could damage the fuel system. Failure to follow this instruction could result in fire, personal injury or death.

WARNING: Do not dispose of fuel in the household refuse or the public sewage system. Use an authorized waste disposal facility.

When refueling the vehicle fuel tank from a fuel container, use the fuel filler funnel included with your vehicle. See **Locating the Fuel Filler Funnel** (page 200).

Note: *Do not use aftermarket funnels as they may not work with the capless fuel system and can damage it.*

When refueling the vehicle fuel tank from a fuel container, do the following:

1. Fully open the fuel filler door.

2. Fully insert the fuel filler funnel into the fuel filler inlet.
3. Add fuel to your vehicle from the fuel container.
4. Remove the fuel filler funnel.
5. Fully close the fuel filler door.

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6. Clean the fuel filler funnel and place it back in your vehicle or correctly dispose of it.

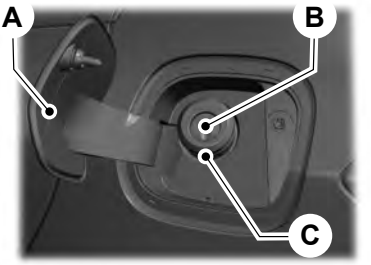
Note: *If your vehicle runs out of fuel add a minimum of 1.3 gal (5 L) of fuel to restart the engine.*

Note: *You may need to switch the ignition from off to on several times after refueling to allow the fuel system to pump the fuel from the tank to the engine. When restarting, cranking time takes a few seconds longer than normal.*

Note: *Extra funnels can be purchased from an authorized dealer if you choose to dispose of the funnel.*

REFUELING

REFUELING SYSTEM OVERVIEW



A Fuel filler door.

B Fuel filler inlet.

C Fuel tank filler pipe.

REFUELING YOUR VEHICLE

WARNING: When refueling always shut the engine off and never allow sparks or open flames near the fuel tank filler valve. Never smoke or use a cell phone while refueling. Fuel vapor is extremely hazardous under certain conditions. Avoid inhaling excess fumes.

WARNING: The fuel system may be under pressure. If you hear a hissing sound near the fuel filler inlet, do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.

WARNING: Do not pry open the fuel tank filler valve. This could damage the fuel system. Failure to follow this instruction could result in fire, personal injury or death.

WARNING: Do not remove the fuel pump nozzle from its fully inserted position when refueling.

WARNING: Stop refueling when the fuel pump nozzle automatically shuts off for the first time. Failure to follow this will fill the expansion space in the fuel tank and could lead to fuel overflowing.

WARNING: Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.

WARNING: Wait at least five seconds before removing the fuel pump nozzle to allow any residual fuel to drain into the fuel tank.

WARNING: Read and follow all the instructions on the pump island.

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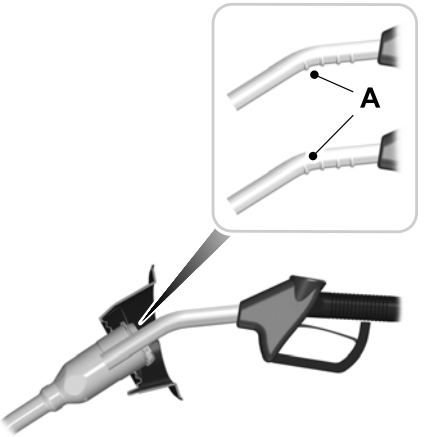
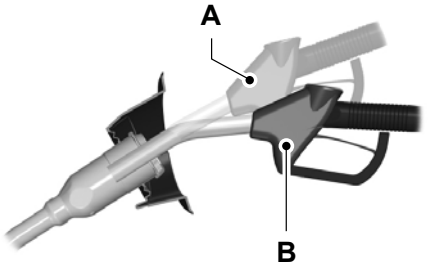
1. Fully open the fuel filler door.
2. Select the correct fuel pump nozzle for your vehicle.



3. Insert the fuel pump nozzle up to the first notch on the nozzle A. Keep the fuel pump nozzle resting on the fuel tank filler pipe.



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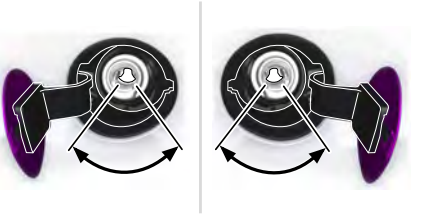
4. Hold the fuel pump nozzle in position B when refueling. Holding the fuel pump nozzle in position A can affect the flow of fuel and shut off the fuel pump nozzle before the fuel tank is full.



5. Operate the fuel pump nozzle within the area shown.

6. When the nozzle shuts off, wait at least 5 seconds, then slightly raise the fuel pump nozzle and slowly remove it.
7. Fully close the fuel filler door.

Do not attempt to start the engine if you have filled the fuel tank with incorrect fuel. Incorrect fuel use could cause damage not covered by the vehicle Warranty. Have your vehicle immediately checked.

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FUEL TANK CAPACITY - 3.5L DURATEC

Variant	Quantity
Vehicles with standard fuel tank.	25.1 gal (95 L)
Vehicles with larger fuel tank.	30.5 gal (115.4 L)

FUEL TANK CAPACITY - 3.5L ECOBOOST™

Variant	Quantity
Vehicles with standard fuel tank.	25.1 gal (95 L)
Vehicles with larger fuel tank.	30.5 gal (115.4 L)

FUEL AND REFUELING – TROUBLESHOOTING

FUEL AND REFUELING – WARNING LAMPS

If it illuminates when you are driving, refuel as soon as possible.

FUEL AND REFUELING – INFORMATION MESSAGES

Message	Action
Fuel Level Low	An early reminder of a low fuel condition.
Check Fuel Fill Inlet	The fuel fill inlet may not be properly closed.
Fuel door ajar Close fully to avoid ""Check Engine"" light	A reminder to close the fuel door. Failure to follow this instruction can cause the check engine light to illuminate.
Refuel Error See Manual	There is an error in attempting to refill your vehicle.

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WHAT IS THE CATALYTIC CONVERTER

The catalytic converter is part of your vehicle's emissions system and filters harmful pollutants from the exhaust gas.

CATALYTIC CONVERTER PRECAUTIONS

WARNING: Do not park, idle or drive your vehicle on dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, creating the risk of fire.

WARNING: The normal operating temperature of the exhaust system is very high. Never work around or attempt to repair any part of the exhaust system until it has cooled. Use special care when working around the catalytic converter. The catalytic converter heats up to a very high temperature after only a short period of engine operation and stays hot after the engine is switched off.

WARNING: Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment. If you smell exhaust fumes inside your vehicle, have your vehicle inspected immediately. Do not drive if you smell exhaust fumes.

To avoid damaging the catalytic converter:

- Do not crank the engine for more than 10 seconds at a time.
- Do not run the engine with a spark plug lead disconnected.
- Do not push-start or tow-start your vehicle. Use booster cables. See **Jump Starting the Vehicle** (page 350).
- Use the correct fuel. See **Fuel and Refueling** (page 197).
- Do not switch the ignition off when your vehicle is moving.
- Avoid running out of fuel.
- Have the items listed in scheduled maintenance information performed according to the specified schedule.

Note: *Do not make any unauthorized changes to your vehicle or engine. By law, vehicle owners and anyone who manufactures, repairs, or services a fleet of vehicles are not permitted to intentionally remove an emission control device or prevent it from working.*

CATALYTIC CONVERTER – TROUBLESHOOTING

CATALYTIC CONVERTER – WARNING LAMPS

Your vehicle has an on-board diagnostics system that monitors the emission control system. If any of the following warning lamps illuminate, this may indicate that the on-board diagnostics system has detected an emission control system malfunction.

Continuing to drive your vehicle may cause reduced power or the engine to stop. Failure to respond to a warning lamp may cause damage that your vehicle Warranty may not cover. Have your vehicle checked as soon as possible.

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WHAT IS THE HIGH VOLTAGE BATTERY

The high voltage battery is a highly sophisticated lithium ion battery system, used to store electrified energy to power the vehicle.

HIGH VOLTAGE BATTERY PRECAUTIONS

WARNING: This battery pack should only be serviced by an authorized electric vehicle technician. Improper handling can result in personal injury or death.

WARNING: Keep your hands and clothing clear of the cooling fan.

Your vehicle consists of various high-voltage components and wiring. All of the high-voltage power flows through specific wiring assemblies labeled as such or covered with a solid orange convolute, or orange striped tape, or both. Do not come in contact with these components.

PRESERVING YOUR HIGH VOLTAGE BATTERY

When using the battery at a low state of charge, your vehicle could start disabling accessory features to protect battery life.

If your vehicle reaches a 0% state of charge, recharge your vehicle as soon as possible.

In everyday use it is acceptable to use the full state of charge window, however there are a few best practices we recommend in order to maintain the health and life of your battery.

Overnight Charging

You can increase the longevity and performance of your high voltage battery by using the charge scheduling and departure and comfort settings on your touchscreen or in the FordPass app.

With Charge Scheduling you can improve the high voltage battery's longevity by delaying the start of charging and setting a maximum charging limit. We recommend to set your preferred charging times to start at least 2-3 hours after your typical plug in time. This allows the battery to cool before charging begins. Additionally, setting the maximum charge level to be less than 100% for everyday usage reduces strain on the battery.

You can improve driving range and performance by scheduling departure times and cabin comfort level with the Departure and Comfort features. This not only warm or cool the cabin but also condition the battery to ensure best driving range and performance by the set departure time.

DC Charging

Frequent use of DC charging could result in reducing your battery's efficiency and lifespan. See **What is DC Charging** (page 207).

Storage Temperature

Storing your vehicle in temperatures between 32ºF (0ºC) and 113ºF (45ºC) is the most beneficial for the high voltage battery.

Plug in your vehicle at temperatures just above the freezing point or lower to maintain battery performance and maximize driving range.

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Storage State of Charge

You can increase the battery life by maintaining your state of charge below 100%. When you park your vehicle for an extended period of 30 days or more, we recommend your battery be at an approximately 50% state of charge. Storing your vehicle's high voltage battery at higher states of charge is less favorable than storing at lower states of charge.

Note: *To achieve this state of charge for storage, you can drive your vehicle down to 50% and set a charge limit for your location. See* ***Setting the Charging Schedule and Preferences*** *(page 222).*

RECYCLING AND DISPOSING OF THE HIGH VOLTAGE BATTERY

Please recycle in accordance with local regulations.

HIGH VOLTAGE BATTERY – TROUBLESHOOTING

HIGH VOLTAGE BATTERY – WARNING LAMPS

Illuminates when the powertrain requires service. Have the system checked as soon as possible.

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WHAT IS AC CHARGING

AC charging is the preferred method of charging. AC charging preserves the health of the high voltage battery for longer high voltage battery life.

WHAT IS DC CHARGING

DC charging allows you to charge the vehicle's high voltage battery in significantly less time than the standard charge method. You can charge on the go before the battery has exhausted all of its power, or when traveling using the trip planner as part of your FordPass App.

For the convenience of DC charging and time, there is a different fee structure depending on the charging station and network you choose.

Note: *Charge times could vary depending on ambient air temperature, power level, charger type, and location in which you are charging.*

Note: *The DC charging rate could be reduced to maximize the life of the battery.*

CHARGING YOUR VEHICLE PRECAUTIONS

WARNING: Do not allow charging equipment to be immersed in water or liquids. Failure to follow this warning could result in fire, serious personal injury or death.

WARNING: Do not attempt to open the charging equipment. Failure to follow this instruction could result in personal injury, death or property damage.

WARNING: Do not use the charging equipment if it is faulty or has been damaged. Failure to follow this instruction could result in personal injury, death or property damage.

WARNING: Install charging equipment in compliance with local regulations. Failure to follow this warning could result in fire, serious personal injury or death.

CHARGING EQUIPMENT

WARNING: Do not use an ungrounded wall outlet. The wall outlet must be in good condition and meet up-to-date local codes. Have a qualified electrician check the wall outlet, if you suspect that it is not properly grounded. Failure to follow this instruction could result in electric shock, personal injury, or death.

WARNING: It is recommended that electrical outlets for use with your charging equipment be installed by a licensed, qualified electrician. Installations must comply with the provisions of all local codes. Failure to follow this warning could result in personal injury or death.

WARNING: Do NOT DROP the control box or coupler.

WARNING: Do NOT use if stored outside temperature range specified.

WARNING: Do not attempt to repair the charging equipment. Contact your local dealer for assistance.

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WARNING: Read all warnings on the charging equipment before using for the first time.

WARNING: Read all instructions in this publication before using the charging equipment.

WARNING: To reduce the risk of fire, connect only to a circuit provided with 40 amps maximum branch circuit overcurrent protection installed in accordance with NEC and local electrical code.

WARNING: Do not use the charging equipment with an extension cord, surge protector, timer or other adapter. Failure to follow this instruction could result in electric shock or fire.

WARNING: The wall plug must fit firmly into the outlet. If the connection feels loose, worn or the outlet is damaged, have a qualified electrician replace the outlet. Using charging equipment with a worn outlet may cause burns, property damage and increase the risk of electric shock.

WARNING: Fully insert the plug into the wall outlet. Failure to follow this instruction could result in electric shock.

WARNING: Children should be supervised when in the vicinity of the charging equipment while plugged in.

WARNING: Do not put fingers into the electric charge coupler. Failure to follow this instruction could result in electric shock.

WARNING: This equipment has arcing or sparking parts. Do not expose to flammable vapors. Position this equipment at least 18 in (450 mm) above the floor.

WARNING: Do not connect or disconnect any pluggable components of the charging equipment when in use or charging. Failure to follow this instruct can cause damage to the charging equipment.

WARNING: Do not use the charging equipment in temperatures outside of the operation range of -22ºF (-30ºC) to 122ºF (50ºC).

WARNING: Store the charging equipment in a clean dry place between the temperatures of -22ºF (-30ºC) to 185ºF (85ºC).

WARNING: Do not plug the charging equipment into an electrical outlet that is submerged in water or covered in snow.

WARNING: Do not use charging equipment in severe rain, snow or electrical storm.

WARNING: Do not allow charging equipment to be immersed in water or liquids. Failure to follow this warning could result in fire, electric shock, or serious personal injury or death.

WARNING: When using the charging equipment avoid moisture, water, snow and foreign objects at all times.

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WARNING: Do not replace the plug on the connector. There are critical safety devices in the plug, and the charging equipment will not operate, if the plug is replaced. Failure to follow this instruction could result in electric shock, personal injury, death, or fire.

WARNING: Charging equipment contains no user modifiable or repairable parts. If the charging equipment plug does not properly fit into the wall outlet, have a qualified electrician install the correct wall outlet. Failure to follow this instruction could result in personal injury or death.

WARNING: High voltage is present in your electric meter housing and power distribution service panel. Contact with high voltage can cause death or serious personal injury.

WARNING: Visually inspect the charging equipment before each use. Do not use the charging equipment if it is damaged.

WARNING: Keep charging equipment inside when not in use. Stow the control box on the hanger or all the charging equipment in the bag after use to prevent damage to the charging equipment and personal injury.

Your vehicle comes with a mobile charger that has a low power connector to use with a 120V plug NEMA 5-15 and a high power connector to use with a 240V plug NEMA 14-50.

Specification Type	Specification Value
Charger Model	SAE
Voltage	120-240 VAC
Maximum Current	32 amps max continuous
Frequency	60Hz
Power draw when idle	< 2 Watts
Power draw when charging	< 4 Watts
Cable length	Approximately 20 ft (6.1 m)
Weight	8.6 lb (3.9 kg)
Operating temperature	-22°F (-30°C) to 122°F (50°C)
Storage temperature	-22°F (-30°C) to 185°F (85°C)
CCID Environmental	IP67
Ventilation	Not required

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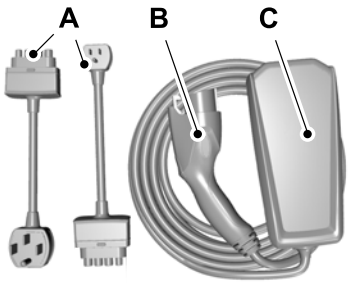


A Connector.

B Coupler.

C Control Box.

The mobile charger is located under the passenger seat and allows you to charge the vehicle's battery using a standard household outlet.

You must plug the connector into the control box first. Then plug the connector into the household outlet, and then plug the coupler into the vehicle charge port.

The power indicator illuminates blue when the connector is properly inserted into the control box and dedicated wall outlet.

Note: *To insert the connector, firmly grasp the connector by the cable or plug and push into the control box until an audible click is heard. Make sure the connector is fully inserted and flush with the control box before inserting it into the outlet. Improper insertion will cause a longer charge session.*

Note: *Follow the installation instructions provided with the mobile charger.*

Note: *We recommend using the supplied plugs and connectors.*

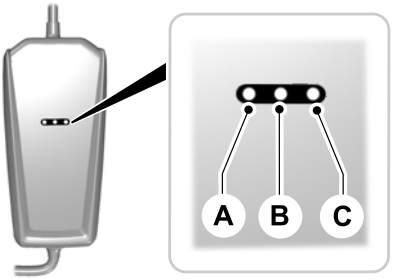
Note: *If you do not use a dedicated circuit, the circuit breaker could trip or open. If a dedicated circuit is not available, contact a licensed professional electrician regarding the installation of a dedicated outlet.*

Note: *The mobile charger does not charge and gives a fault indication, if ground is not present.*

Note: *Plug the connector for the mobile charger directly into the wall plug receptacle. Do not plug the mobile charger into any form of extension cord.*

Note: *If the wall bracket is not used for mounting the charging equipment, plug the charging equipment into an outlet closer to ground.*

Mobile Charger Indicator Lights



A Amber Fault Indicator Light.

B Blue Status Indicator Light.

C Red Trouble Indicator Light.

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Mobile Charger Fault Indicator Type	Indicator Description
AMBER	The amber fault indicator illuminates to communicate that the charger is rebooting after an error.
BLUE	When plugged into the wall outlet, the blue indicator illuminates to communicate that the charger is ready to use.
RED	The red indicator illuminates when the charger has detected an error. If the red indicator is illuminated, the charger will not deliver power to the vehicle. The error must be corrected before a charging cycle can begin or continue.

Note: *When first plugged into a wall outlet the amber, blue and red indicators will blink once. Then the blue indicator turns on, followed by a blink of the red indicator. After, the blue indicator turns off then back on. This cycle will happen twice if a different connector is used from a previous charge.*

AMBER	BLUE	RED	MODE	ACTION
OFF	OFF	OFF	UNPOWERED; The mobile charger is not powered.	Make sure the outlet is operational, and the circuit breaker is in the ON position or try using another outlet. Ensure the connector is fully inserted into the mobile charger. Ensure the plug is not severely degraded. If the error persists, contact us.
OFF	PULSING	OFF	CHARGING; The mobile charger is charging.	No action required.
OFF	ON	OFF	STANDBY; The mobile charger is powered and ready to charge. At the current time the mobile charger is not charging the vehicle.	If you expect the mobile charger to be charging the vehicle, make sure the vehicle coupler is properly inserted into the vehicle. Check and adjust your charging time preferences in the on-screen display. If your vehicle is still not charging, contact us.

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AMBER	BLUE	RED	MODE	ACTION
ON	ON	ON	REBOOTING; The mobile charger is recovering after encountering an error.	Wait for the mobile charger to return to standby. If the mobile charger cycles for more than 2-3 minutes, unplug the vehicle coupler. Unplug and replug in the connector. If the issue persists, contact us.
ON	PULSING	OFF	CHARGING REDUCED; The mobile charger is charging at a reduced rate due to overheating.	Make sure the connector and the control box are properly connected. Unplug and replug in the connector. If the mobile charger is warm or in a hot environment, try charging in a cooler area. Try a different outlet. Try a different connector if you have one available. If the error persists, contact us.
1 FLASH	PULSING	OFF	CHARGING REDUCED, AC PLUG OR WALL OUTLET; The mobile charger is charging at a reduced rate due to overheating of the connector or the wall outlet.	Make sure the connector and control box are properly connected. Unplug and replug in the connector. If the mobile charger is warm or in a hot environment, try charging in a cooler area. Try a different outlet. Try a different connector if you have one available. If the error persists, contact us.
ON	OFF	OFF	USER TROUBLESHOOTING; The mobile charger has encountered a fault that requires troubleshooting.	Make sure the connector and control box are properly connected. Unplug and replug in the connector. If the mobile charger is warm or in a hot environment, try charging in a cooler area. Try a different outlet. Try a different connector if you have one available. If the error persists, contact us.

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AMBER	BLUE	RED	MODE	ACTION
OFF	OFF	ON	NON - RECOVERABLE FAULT; There is an internal fault in the mobile charger that cannot be recovered.	Try a different connector if you have one available. If the error persists, contact us.
OFF	OFF	1 FLASH	NON - RECOVERABLE FAULT; There is an internal fault in the connector that cannot be recovered.	Try using another connector if you have one available. If not, contact us about obtaining a replacement. If your warranty has expired, you can order a replacement from your Ford dealer.
OFF	OFF	PULSING	GROUND LEAKAGE FAULT; Electrical current is leaking through a potentially unsafe path.	Potential shock hazard - immediately turn off circuit breaker for the outlet within home. Discontinue use. Contact us about obtaining a replacement.

Note: *When plugging into an unfamiliar wall outlet, let the vehicle charge for several minutes before leaving it unattended. The red indicator will illuminate if not charging. The unit will turn off if breaker or infrastructure ground fault circuit interrupter (GFCI) is tripped. You can view vehicle charging status remotely via the Ford Pass App.*

Mobile Charger Auto-Restart

Auto-restart helps to make sure that your vehicle will be charged and ready for use when needed. A charge could be interrupted if errors are detected. Charging resumes once the error is no longer detected. The red indicator illuminates during an error condition.

The exception to the immediate auto-restart is when the interruption is due to a charger ground fault circuit interrupter (GFCI) event. The charger attempts to restart 15 minutes after a ground fault circuit interrupter (GFCI) event. After the fourth attempt to restart, the charger shuts down and the red indicator stays on.

If the fault persists, do not continue to try to charge your vehicle. Contact your authorized dealer.

MOVING AND STORAGE INSTRUCTIONS

Make sure you wrap the mobile charger after charging. Store the mobile charger in the storage bag supplied with the mobile charger.

When charging is complete, replace the mobile charger under the passenger seat.

Note: *Do not hold the mobile charger by the power cable. Hold the complete unit and carefully place back in the storage bag.*

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Note: *To remove the connector, firmly grasp the connector by the cable or plug and pull away from the control box.*

CARE INSTRUCTIONS

Do not use cleaners or solvents as this could damage your mobile charger. Do not place stress on the charger cables. If unit overheats, remove the mobile charger from direct sunlight.

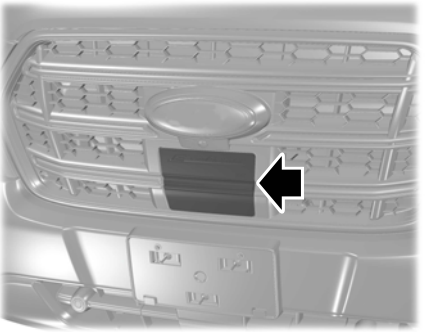
SAFETY FEATURES

The charger includes the following safety features to protect against the risk of electric shock:

- Service Ground Check: The charger constantly checks for the presence of a service ground connection. If the service ground ever fails, the charger red indicator turns ON and shuts down power to the vehicle.
- Thermal Event Sensor: Charger module senses out-of-ordinary thermal events and decreases the charging current or shuts the unit down if required.
- Ground fault circuit interrupter (GFCI) Protection: The charger has a ground fault circuit interrupter (GFCI) reaction system to protect against electric shock. If the charger module detects an output ground fault, it shuts down power to the output cable and illuminates the red indicator.
- Insulation: The charger module, connector, cable assembly, and charge coupler are completely insulated. There are no exposed live parts, to protect against electric shock.
- Unintentional Disconnection: The charge coupler is designed to minimize unintentional disconnection. A pilot signal wire in the cable and charge coupler eliminates the possibility of electric shock when not connected to a vehicle or if an unintended disconnect occurs during a charge. Disconnection during charging is safe.

LOCATING THE CHARGE PORT

The charge port is on the front of the vehicle. To open, press the center right-hand edge of the charge port door and then release.



Note: *Do not apply excessive force. Forcing the door open or closed damages the charge port.*

CHARGE PORT INDICATORS

The charge status indicator is next to the charging port behind the charge port door. It indicates the charge status of the high voltage battery in your vehicle.

Divided into five zones, the charge status indicator displays the state of charge in 20 percent increments.

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The charge status indicator displays how far along the charge is:

- When zone A is pulsing, the charge is between 0-20 percent.
- When zone A illuminates, and zone B is pulsing, the charge is between 20-40 percent.
- When zones A and B illuminate and zone C is pulsing, the charge is between 40-60 percent.
- When zones A, B, and C illuminate, and zone D is pulsing, the charge is between 60-80 percent.
- When zones A, B, C, and D illuminate, and zone E is pulsing, the charge is between 80-100 percent.
- When all zones illuminate, the charge is 100 percent.

Note: *When charging stops, the charge status indicator shows all the completed zones solidly illuminated up in a blue color for 30 seconds before turning off. For example, if charging stops at 70 percent, then A, B, and C light up solidly to indicate a battery charge level of at least 60 percent but less than 80 percent. Charging stops when complete or when paused due to charge settings or charge station actions.*

Note: *If the charge status indicator does not light up or pulse after plugging in, please verify that the charge port light setting is On. If you do not wish to have the charge status indicator light up at all while charging, then you can turn it Off. Locate the charge port light under the vehicle settings on your in-vehicle touchscreen.*

There are three charge port indicator light colors, which indicate a specific action:

White is used as a courtesy light to help with plugging in and to acknowledge actions such as plugging in and unplugging.

Blue is used when the vehicle is plugged in and either charging or waiting to charge.

Amber is used to indicate charge faults.

Note: *Charging faults are identified by the color amber on the charge status indicator. Faults can occur within the vehicle charging system or outside the vehicle, such as with the mobile charger, charge station or electrical supply.*

Note: *If the system detects a fault in the vehicle charging system at any point in a charge cycle, the entire charge status indicator illuminates solidly in an amber color for 30 seconds and then turns off. If this happens, unplug the charge coupler and then plug it back into the charge port receptacle. If the problem persists, have your vehicle serviced as soon as possible.*

Note: *If the system detects a fault outside the vehicle, such as with the charge station or mobile charger, the entire charge status indicator flashes amber continuously for 30 seconds and then turns off. If this happens check the mobile charger, charge station or electrical supply.*

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AC CHARGING

CONNECTING THE CHARGER

WARNING: Do not use the charging equipment if it is faulty or has been damaged. Failure to follow this instruction could result in personal injury, fire, electric shock, death or property damage.

Charging Using the Mobile Charger

CAUTION: TO REDUCE THE RISK OF FIRE- The plug must be properly grounded. Use a dedicated circuit. If you do not use a dedicated circuit, the circuit breaker could trip or open. If you do not have a dedicated circuit, contact a licensed professional electrician for proper installation.

To charge the high voltage battery:

You must unwrap the mobile charger completely before charging.

1. Put your vehicle in park (P).

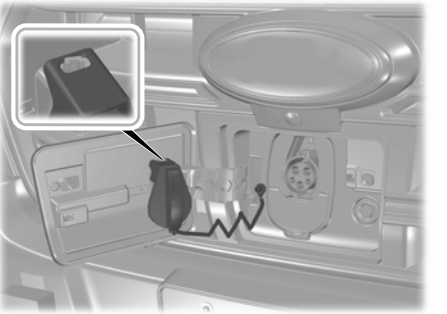
Note: *Your vehicle must be in park (P) to charge.*

2. Plug the connector into the control box.

Note: *To insert the connector, firmly grasp the connector by the cable or plug and push into the control box until an audible click is heard. Make sure the connector is fully inserted and flush with the control box before inserting it into the outlet. Improper insertion will cause a longer charge session or faults.*

3. Plug the connector into the wall outlet.
4. Confirm that the mobile charger indicator lights illuminate.

5. Press the center right hand edge of the charge port door and then release to open the door.



6. Remove the charge port dust cap and hang it on the pin.

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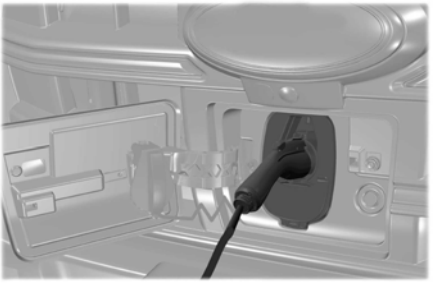


7. Plug the charge coupler into the charge port receptacle on your vehicle.

Note: *Make sure the button clicks confirming that you have completely engaged the coupler. When you plug in your vehicle, it starts charging to 100% by default unless scheduled charging has been set up for this location. See* ***Setting the Charging Schedule and Preferences*** *(page 222).*

Note: *Plug the connector into the wall outlet before connecting the charge coupler handle to your vehicle's charge port.*

Note: *When the handle is properly engaged the light ring illuminates. This indicates the beginning of a normal charge cycle.*

Note: *There could be a delay in light ring illumination due to vehicle internal communications.*

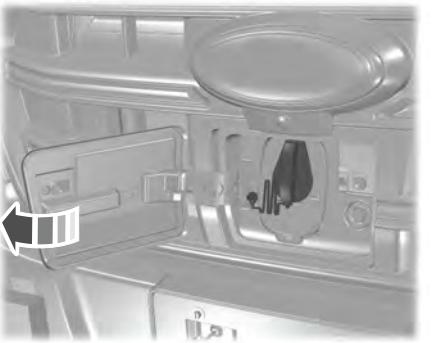
Note: *If charging for your vehicle fails, please contact the Customer Relationship Center, or click on Live chat. To ensure superior service, please take note of your serial number when contacting customer support.*

For more information, visit www.owner.ford.com.

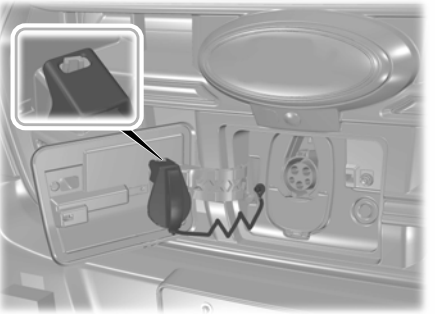
Charging At a Charge Station

1. Put your vehicle in park (P).

Note: *Your vehicle must be in park (P) to charge.*



2. Press the center right hand edge of the charge port door and then release to open the door.



3. Remove the charge port dust cap and hang it on the pin.

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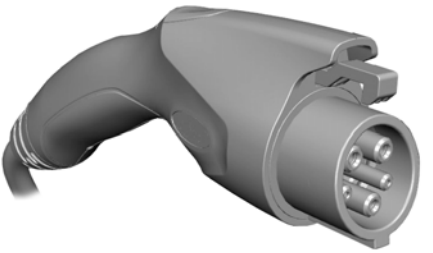
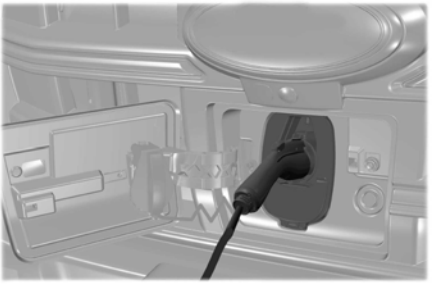


4. Select the appropriate charge station coupler.



5. Plug the charge coupler handle into the charge port receptacle on your vehicle.

Note: *Make sure the button clicks confirming that you have completely engaged the coupler. When you plug in your vehicle, it starts charging to 100% by default unless scheduled charging has been set up for this location. See* ***Setting the Charging Schedule and Preferences*** *(page 222).*

Note: *When the handle is properly engaged the light ring illuminates. This indicates the beginning of a normal charge cycle.*

Note: *There could be a delay in light ring illumination due to vehicle internal communications.*

Information about public charge stations is available through the in-vehicle screen as well as the FordPass app with pricing, power levels, and real time availability. Rates for charging varies by power level, provider, location, and time of day.

When charging your vehicle at a FordPass Charging Network station, use the FordPass App to activate and pay for charging. You can also just plug in to activate charging at Plug & Charge capable stations. If the charging station is not in the FordPass Charging Network, use the directions on the charge station to activate the charger.

For more information, visit *www.owner.ford.com*.

STOPPING CHARGING

WARNING: To safely discontinue charging at any time, follow the disconnect instructions in stopping charging. Charging will automatically and safely come to a stop. The BLUE STATUS indicator remains ON solid when the coupler is removed.

Using the mobile charger:

1. Press the latch on the charge coupler and remove it from the vehicle charge port.
2. Remove the connector plug from the wall outlet.

Note: *Do not pull the wall plug from the wall outlet or the connector from the mobile charger control box, while your vehicle is charging. Doing so could damage the outlet and the cord.*

Note: *You cannot shift your vehicle out of park (P) until you remove the charge coupler.*

3. Reinstall the charge port dust cap.

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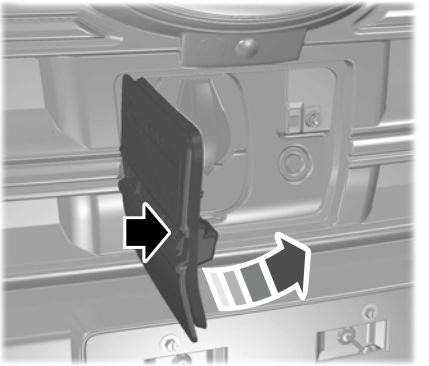


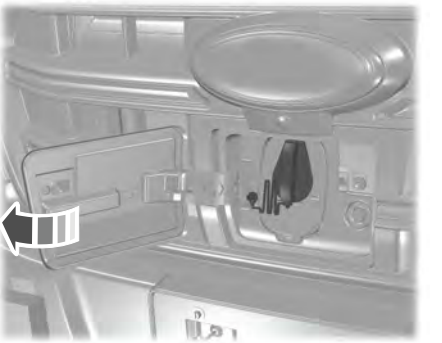
4. Press the center right-hand edge of the charge port door to close.

DC CHARGING

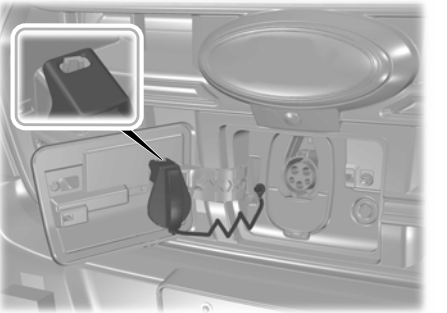
CONNECTING THE CHARGER

1. Put your vehicle in park (P).

Note: *Your vehicle must be in park (P) to charge and for the charge status indicator to illuminate.*



2. Press the center right hand edge of the charge port door and then release to open the door.



3. Remove the charge port dust cap and hang it on the pin.

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4. Open the additional dust cap on the charge port to expose lower connectors.

5. Plug the charge coupler into the charge port receptacle on your vehicle.

Note: *Make sure the button clicks confirming that you have completely engaged the coupler. Your vehicle locks to the charge coupler.*

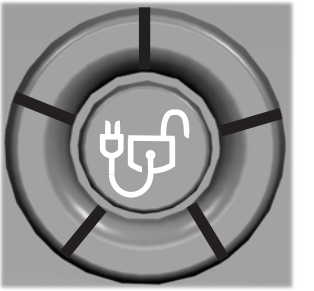
Note: *When the handle is properly engaged, the light ring illuminates. This indicates the beginning of a normal charge cycle.*

Note: *The vehicle monitors battery health and may take actions including, but not limited to, reducing the DC fast charge rate to protect the battery hardware from damage, and to maintain battery health.*

Information about public charge stations is available through the in-vehicle screen as well as the FordPass app with pricing, power levels, and real time availability. Rates for charging varies by power level, provider, location, and time of day.

Note: *When charging your vehicle at a public charge station, follow the directions on the charge station.*

STOPPING CHARGING



1. Push the coupler unlock button on the light ring.
2. Press the latch on the charge coupler and remove it from the vehicle charge port.

Note: *Do not attempt to remove the charge coupler before you unlock it. Do not use any kind of tool to try and remove a locked charge coupler. Doing so can lead to damage to your vehicle and the charge coupler.*

Note: *You cannot unlock the charge coupler unless the vehicle remote is near the vehicle.*

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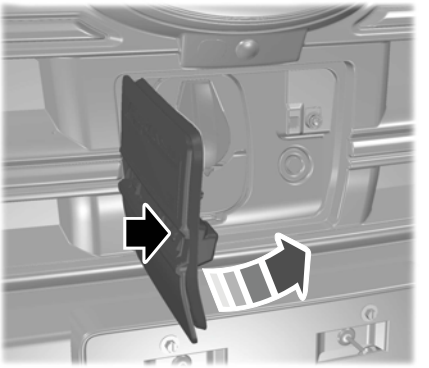
Note: *You can also unlock the cord through the vehicle access menu. If the cord still does not unlock, please contact roadside assistance.*

Note: *You cannot shift your vehicle out of park (P) until you remove the charge coupler.*

3. Close the dust cap for the lower connectors.
4. Reinstall the dust cap for the upper connectors.

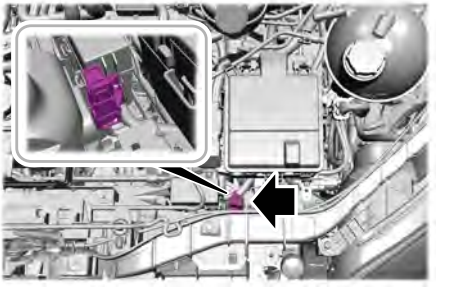


5. Press the center right-hand edge of the charge port door to close.

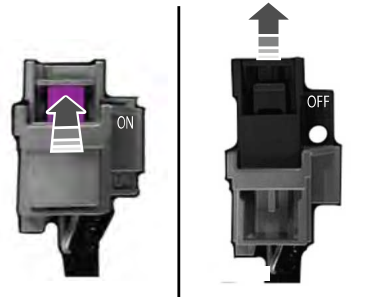
Charge Coupler Manual Release

In the event that your vehicle does not unlock the charge coupler, you can manually release it.

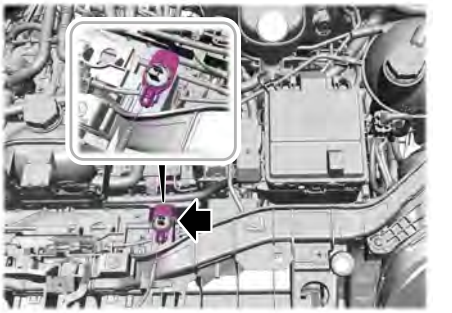
1. Switch your vehicle off.
2. Open the hood.



3. Locate the low voltage service disconnect.



4. Press the latch and pull the low voltage service disconnect to the off position.



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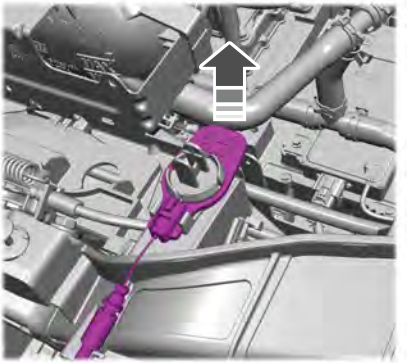
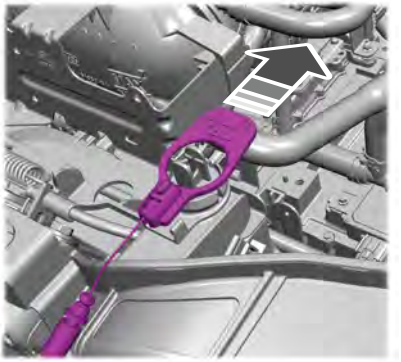
5. Locate the manual release mechanism.



6. Pull the manual release ring upward to detach from grommet.



7. Pull the manual release ring firmly in the direction shown.
8. Press the latch on the charge coupler and remove it from the vehicle charge port.
9. Reinstall the manual release ring to the grommet.
10. Push the low voltage service disconnect to the on position.
11. Close the hood.

SETTING THE CHARGING SCHEDULE AND PREFERENCES

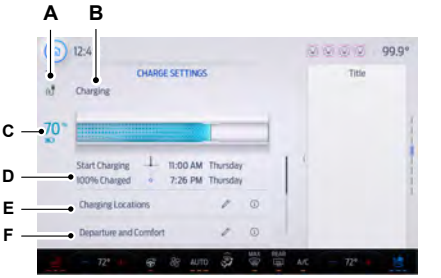
You can schedule charging to take advantage of lower-cost electricity rates during off-peak hours if you have signed up for a time of use pricing plan with your utility provider. You can also set an upper charge limit for your battery and a departure time and cabin temperature so your vehicle is ready to go when you are.

Scheduled charging can be set up in the on vehicle display or in the FordPass app.

To view your charge settings:

1. Press ***Features*** on the touchscreen.
2. Press Charge Settings on the touchscreen.

Charge Settings Screen



A	Charge status icon.
B	Charge status.
C	High voltage battery state of charge.
D	Charging time information.

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E Charging location preferences.

F Departure and comfort preferences.

Charge Status Icons

Displays when your vehicle is plugged in.

Not charging due to a fault.

Not currently charging.

Charging.

Waiting to charge based on charge time settings.

Charge Status

Shows the present state of charging system.

Charge Status	Action
Will charge when plugged in	The vehicle is unplugged and will start charging once plugged in.
Will wait for preferred charge time	The vehicle is unplugged at a location with charge times enabled. Charging is scheduled to start at the time displayed based on your settings. You must plug in prior to the start time shown for the vehicle to begin charging at that time.
Waiting for preferred charge time	The vehicle is plugged in at a location with charge times enabled. Charging will start at the time displayed, which is based on your charge time settings.
Charging stopped	The vehicle is plugged in and charging has been stopped through the FordPass mobile app.
Charging	The vehicle is plugged in and charging.
Fast charging	The vehicle is plugged into a DC Fast Charge station and charging.
Charged	The vehicle finished charging to the target state of charge setting.
Charging 12V battery	The vehicle is plugged in and charging the 12V battery.
Cabin conditioning	The vehicle is plugged in and the climate control system is operating according to the departure and comfort settings.

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Charge Status	Action
Battery conditioning	The vehicle is plugged in and conditioning the high voltage battery.
Vehicle charge fault	The vehicle is plugged in and there is a fault within the vehicle charging system. Unplug and plug back in. If the fault is still present, contact your authorized EV certified dealer.
Charge station fault	The vehicle is plugged in and a fault has been detected with the charge station or charging cord. Please check the charging cord and the charging station or electrical supply.
Charge station not detected	A charging coupler has been plugged into the vehicle but there is no connection with a charging power source.
Charge station paused	The vehicle is plugged in and charging has been paused at the charge station.

High Voltage Battery State of Charge

Displays the remaining charge percentage with 100% representing the total amount of energy you can get from an external charge.

Charging Time Information

When charging, the start and estimated end time displays. When fast charging, the end time is replaced with the estimated time at 80% charge until the charge reaches 80%, then the estimated time at 100% charge is displayed.

When your vehicle is at a stored charging location and not plugged in, the start and end times display based on known charging infrastructure.

Note: *Charging time information is estimated. Certain conditions could result in longer charging times. See* ***Charging Your Vehicle*** *(page 207).*

Charging Locations

Press the edit button to set preferred charge times for a specific charging location.

Your vehicle prioritizes charging based on your preferred time settings. You can set two preferred charging time windows for weekdays and two for weekends. This feature allows you to take advantage of electric utility rate plans that offer lower pricing during certain times of day. Contact your utility company to see what plans are available.

Note: *Your vehicle will charge during your preferred time windows. Charging outside these windows only occurs when additional charging time is needed to reach the maximum charge level set for this location by your next departure time.*

Note: *You can also access this feature using the FordPass app.*

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Charging Location Setup

Follow these steps to set time and charge level preferences for a charging location.

Press the edit button for charging locations on the charge settings screen.

1. Select an address from the list of recent charge locations. If the previously saved charge locations are not listed, then you must first select add new location. You can also edit settings for previously saved locations.

Note: *In order to save a charge location, the vehicle must have previously charged at that location.*

2. Confirm that this is the location you want to save with the help of the map view. Edit the location name if desired and set a maximum charge level. Press next.

Note: *Depending on the GPS location, the address on the navigation may not precisely match up with your charging location. Confirm on the map that the pin is in the expected location.*

Note: *Charging will stop when your vehicle reaches the maximum charge level setting.*

3. Set preferred charging times for weekday and/or weekend by pressing and dragging along the 24 hour time wheel. You can set up to two blocks of time (charge windows). Press next once you have your desired time settings for weekday and weekend.

Note: *Selecting all or none of the 24 hours results in any time of day given equal priority for charging.*

4. The summary screen displays your settings for this location. Press save or press the left arrow to go back and change your settings. Whenever your vehicle is at a saved charging location, the charge settings screen displays the location name, and the charging times are based on your preferred time settings for that location plus the next departure time.

Note: *Reaching your max charge level by your next departure time is always the priority. When charge times are set, charging outside your preferred charging time windows could be necessary in order to finish by your next departure time. In this case, the vehicle will typically begin charging right away after plugging in. Charging will pause when the rest of the charge can be done within the preferred charge windows.*

Departure and Comfort

Press the edit button for departure and comfort settings.

Setting departure times allows you to control charging schedules and warm or cool your cabin and the high voltage battery when your vehicle is plugged in, so your vehicle is ready to drive when you are. By setting a departure time, your vehicle

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can use your charge time settings to minimize your electricity costs but still prioritize finishing charging before your scheduled departure. The calendar view allows you to program two departure times per day for each day of the week.

Note: *By using energy from your charging source while plugged in, battery temperature can be managed for best driving performance and less energy will be needed for heating or cooling of the cabin at the start of your drive. This helps maximize your driving range.*

Note: *You can also access this feature using the FordPass app.*

Departure and Comfort Setup

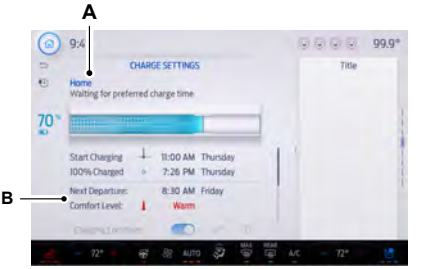
Follow these steps to set departure times and cabin comfort level.

1. Press the edit button for departure and comfort on the charge settings screen.
2. Select a time for each day of the week you want your settings to apply. Select the hour and minutes as well as your desired comfort level. Your selected days/times now display your departure and comfort settings. Press Save to apply your settings. The next departure display on the charge settings screen will update appropriately.

Note: *Save your departure settings before selecting additional days/times. The process must be repeated in order to add additional unique departure times and comfort levels.*

Note: *Cabin conditioning comfort level may vary depending on whether you plug into a normal household outlet or a higher power outlet or charging station. The power available for conditioning is limited to the charging station power available. At low ambient temperatures and low charge power, a small amount of high voltage battery power in addition to the charging power could be used to heat the cabin.*

Additional information and settings are displayed on the charge settings screen once charging locations and departure and comfort have been set up.



A Charging location name.

B Next departure time and cabin temperature.

A On/Off switch for charging locations.

B On/Off switch for departure and comfort.

Charging Location Name

Displays when your vehicle is at a stored charging location.

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Next Departure Time and Cabin Comfort Level

Displays the next departure time and associated cabin comfort setting.

On/Off Switch for Charging Locations

This switch is visible when your vehicle is at a saved charging location. Use this switch to turn your settings off and on for this location only. Switching off for this location does not delete your settings, however, you must switch back on to re-enable them.

Note: *If the charging locations switch is off, the target state of charge returns to 100%.*

On/Off Switch for Departure and Comfort

This switch is visible when you have at least one departure time set. Use this switch to turn all departure times off and on. Switching off departure and comfort does not delete your settings, however, you must switch back on to re-enable them.

USING FORDPASS AND CHARGING

The FordPass App allows you to do the following:

- Monitor and manage your vehicle's charging, including charge schedules and preferences.
- Locate a charger and activate a charger on the FordPass Charging Network.
- Plan a trip and charging options along your route.
- Check charging station plug availability.
- Initiate a charge session automatically at Plug and Charge capable charge stations.
- Control your Ford Connected Charge Station remotely.
- Override charge preferences and starting and stopping charging.

For more information, visit *www.owner.ford.com*.

CHARGING YOUR VEHICLE HINTS

We recommend limiting the amount of DC charges, and ending DC charges at 80% state of charge as charging between 80 and 100% can incur high charging costs due to the time to completion. Frequent use of DC charging could result in reducing your battery's efficiency and lifespan.

In cold temperatures, you may notice that DC charging takes longer when the outside temperature drops below 50°F (10°C). Shutting off climate control or reducing climate control temperature and fan settings for the first 10 to 15 minutes of DC charging will allow the battery to warm up and improve the charging rate.

Keep your vehicle plugged in when the outside temperatures are very high or low. This enables the system to maintain the high voltage battery at the best condition for your next drive.

Note: *When the temperature is below freezing, fully turning off cabin heat for the first 10 to 15 minutes of DC charging could significantly improve the charging rate.*

CHARGING YOUR VEHICLE – TROUBLESHOOTING

CHARGING YOUR VEHICLE – WARNING LAMPS

Plugged into charger.

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CHARGING YOUR VEHICLE – INFORMATION MESSAGES

Message	Action
Vehicle Plugged In ? Yes No	Your vehicle needs confirmation it is unplugged before allowing a start. You must make sure your vehicle is unplugged and you respond to the message promptly before starting your vehicle.
Plug in to Maintain 12V Battery	Indicates that HV battery can no longer support the 12V battery. Plug In your vehicle to charge the high voltage battery and maintain the 12V battery at a healthy state.
Charge Station Fault See Manual	The vehicle is plugged in and a fault has been detected with the charge station or charging cord. Please check the charging cord and the charging station or electrical supply.

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CHARGING YOUR VEHICLE – FREQUENTLY ASKED QUESTIONS

Why does my vehicle not charge with the mobile charger?

Ensure you properly connect the connector and control box. Unplug the charge coupler from the vehicle and unplug the connector from the wall outlet. Then check the connector to be sure that the connector is connected properly into the mobile charger control box. If the mobile charger is warm or in a hot environment, try charging in a cooler area. Try a different outlet or a different connector if you have one available. If the problem persists, contact an authorized EV certified dealer.

Why does my vehicle have a hum or fan noise when charging?

A hum or a fan noise could be present when charging the high voltage battery. This is a normal operation as your vehicle is keeping the battery cool while charging.

Why does my information display say that the vehicle is charged when it is still pulling power from the charging source?

In order to keep your battery at the current level, a small amount of power needs to be sourced from the wall to power the vehicle electronics. Once the vehicle is shut down, the vehicle will stop drawing power.

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AUTOMATIC TRANSMISSION PRECAUTIONS

WARNING: When your vehicle is stationary, keep the brake pedal fully pressed when shifting gears. Failure to follow this instruction could result in personal injury, death or property damage.

WARNING: Do not apply the brake pedal and accelerator pedal simultaneously. Applying both pedals simultaneously for more than a few seconds will limit power, which may result in difficulty maintaining speed in traffic and could lead to serious injury.

WARNING: Apply the parking brake, shift into park (P), switch the vehicle off and remove the key or remote control before you leave your vehicle. Failure to follow this instruction could result in personal injury or death.

Note: *You may not be able to shift out of park (P) unless the intelligent access key is inside your vehicle.*

AUTOMATIC TRANSMISSION POSITIONS

PARK (P)

WARNING: Shift into park (P) only when your vehicle is stationary.

In park (P), power is not transmitted to the driven wheels.

Note: *A tone sounds if you attempt to exit your vehicle without the transmission in park (P).*

Note: *Your vehicle may not shift out of park (P) if the vehicle battery has run out of charge. See* ***Jump Starting the Vehicle*** *(page 349).*

Note: *You may not be able to shift out of park (P) if a fuse is blown. See* ***Fuses*** *(page 358).*

Note: *Your vehicle may not shift out of park (P) unless the key or remote control is inside your vehicle.*

REVERSE (R)

WARNING: Shift into reverse (R) only when your vehicle is stationary.

In reverse (R) power is transmitted to the driven wheels.

NEUTRAL (N)

WARNING: In neutral (N) your vehicle is free to roll.

In neutral (N), power is not transmitted to the driven wheels.

DRIVE (D)

In drive (D) power is transmitted to the driven wheels.

LOW (L)

In low (L) your vehicle holds low gears.

Note: *We recommend using this mode for driving on hilly or mountainous roads or when towing a trailer. See* ***Towing a Trailer*** *(page 332).*

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SHIFTING YOUR VEHICLE INTO GEAR - 1-SPEED AUTOMATIC TRANSMISSION

The transmission selector is on the center console.

1. Press and hold the brake pedal.
2. Rotate the outer ring to select a position.

Note: *The position illuminates on the transmission selector.*

3. Press the low (L) button when your vehicle is in drive (D) to enter or exit mode.

Note: *Your vehicle cannot shift from drive (D) to park (P) with a clockwise rotation. Your vehicle cannot shift from park (P) to drive (D) with a counter-clockwise rotation.*

AUTOMATIC TRANSMISSION POSITION INDICATORS

The instrument cluster displays the current position.

TEMPORARY NEUTRAL MODE - 1-SPEED AUTOMATIC TRANSMISSION

WHAT IS TEMPORARY NEUTRAL MODE

This mode keeps your vehicle in neutral (N) when you switch your vehicle off. Use this mode at an automatic car wash if you exit your vehicle, or switch your vehicle off.

Note: *Do not tow your vehicle in this mode.*

Note: *Automatic return to park (P) is delayed when your vehicle is in this mode. See* ***How Does Automatic Return to Park (P) Work*** *(page 232).*

TEMPORARY NEUTRAL MODE LIMITATIONS

Your vehicle could shift to park (P) after 30 minutes, or when the vehicle battery charge level is low. Prolonged use of this mode can cause the vehicle battery to run out of charge.

Do not tow your vehicle in this mode. Failure to follow these instructions could result in vehicle damage not covered by the vehicle warranty.

ENTERING TEMPORARY NEUTRAL MODE

1. Power your vehicle on.
2. Bring your vehicle to a complete stop.
3. Press and hold the brake pedal.
4. Shift into neutral (N).

Note: *An instructional message appears.*

5. Press the low (L) button.

Note: *A confirmation message appears when your vehicle enters the mode.*

6. Release the brake pedal.

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Note: *Your vehicle is free to roll.*

7. Switch your vehicle off.

Note: *Do not tow your vehicle in this mode.*

Note: *The neutral (N) indicator on the transmission selector may flash in this mode.*

EXITING TEMPORARY NEUTRAL MODE

1. Press the brake pedal.
2. Shift into park (P), or power your vehicle on and shift into drive (D) or reverse (R).

AUTOMATIC RETURN TO PARK (P) - 1-SPEED AUTOMATIC TRANSMISSION

HOW DOES AUTOMATIC RETURN TO PARK (P) WORK

Your vehicle shifts into park (P) when your vehicle is stationary and any of the following occur:

- You switch the vehicle off.
- You unfasten the driver seatbelt and exit the driver seat.

AUTOMATIC RETURN TO PARK (P) LIMITATIONS

Automatic return to park could not work if any of the following occur:

- The driver seat sensor is malfunctioning.
- The driver seatbelt buckle switch is malfunctioning.

BRAKE SHIFT INTERLOCK - 10-SPEED AUTOMATIC TRANSMISSION

WHAT IS BRAKE SHIFT INTERLOCK

Brake shift interlock prevents you from shifting out of park (P) when you have switched the ignition on and not pressed the brake pedal.

BRAKE SHIFT INTERLOCK PRECAUTIONS

WARNING: Do not drive your vehicle until you verify that the stoplamps are working.

WARNING: When doing this procedure, you need to take the transmission out of park (P) which means your vehicle can roll freely. To avoid unwanted vehicle movement, always fully apply the parking brake prior to doing this procedure. Use wheels chocks if appropriate.

WARNING: If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. Have your vehicle checked as soon as possible.

In the event of an electrical malfunction, it is possible that a fuse has blown or the stoplamps are not working. See **Identifying the Fuses in the Under Hood Fuse Box** (page 359).

If the vehicle battery has no charge, jump start your vehicle. See **Jump Starting the Vehicle** (page 350).

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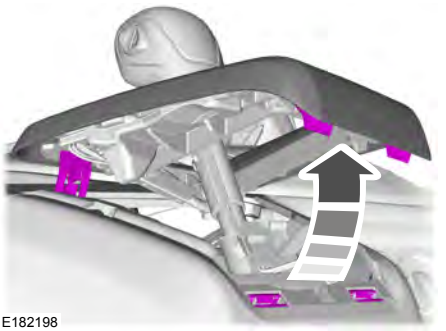
USING BRAKE SHIFT INTERLOCK

Use the brake shift interlock lever to move the selector lever out of park (P) if you cannot start the engine.



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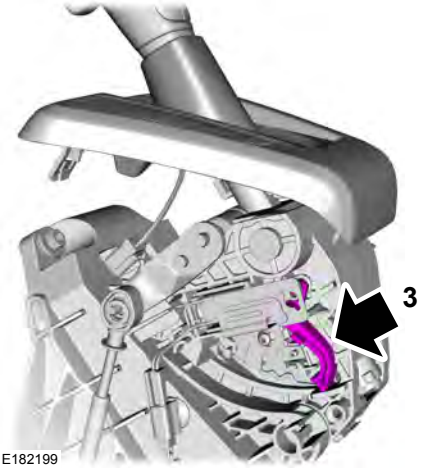
1. Using a flat-bladed screwdriver, remove the panel.



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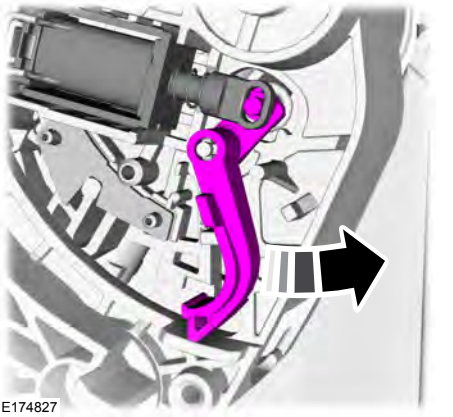
2. Locate the brake shift interlock lever.



E174827

3. Push the brake shift interlock lever toward the rear of your vehicle and hold it there.
4. Move the selector lever from park (P) to neutral (N).
5. Install the panel.
6. Press the brake pedal, start the engine and release the parking brake.

AUTOMATIC TRANSMISSION AUDIBLE WARNINGS - 1-SPEED AUTOMATIC TRANSMISSION

Transmission Not in Park (P) Audible Warning

Sounds when you open the driver door and you have not moved the transmission selector to park (P).

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AUTOMATIC TRANSMISSION AUDIBLE WARNINGS - 10-SPEED AUTOMATIC TRANSMISSION

Transmission Not in Park (P) Audible Warning

Sounds if any of the following occur:

- You switch your vehicle off before shifting into park (P).
- You open the driver door before shifting into park (P).

AUTOMATIC TRANSMISSION – TROUBLESHOOTING

AUTOMATIC TRANSMISSION – INFORMATION MESSAGES

Message	Details
Transmission Service Required	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
Transmission Not in Park	Displays as a reminder to shift into park (P).
Press Brake to Unlock Gearshift Lever	Press the brake pedal to unlock the transmission.

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HOW DOES ALL-WHEEL DRIVE WORK

The all-wheel drive system is designed to continuously monitor and adjust power delivery to the front and rear wheels to optimize both traction and handling.

There is further information on driving in unique driving conditions. See **Driving Hints** (page 342).

ALL-WHEEL DRIVE PRECAUTIONS

WARNING: Do not become overconfident in the ability of all-wheel drive vehicles. Although an all-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in low traction situations, it won't stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

- Drive slower in strong crosswinds that can affect the normal steering characteristics of your vehicle.
- When driving your vehicle on surfaces made slippery by loose sand, water, gravel, snow or ice, proceed with care.

ALL-WHEEL DRIVE LIMITATIONS

The all-wheel drive system is not intended for use with mismatched tires.

Different tire sizes between the front and rear axles can cause system damage.

ALL-WHEEL DRIVE – TROUBLESHOOTING

ALL-WHEEL DRIVE – INFORMATION MESSAGES

Message	Action
AWD Temporarily Disabled	The all-wheel drive system temporarily turns off to protect itself from overheating.
AWD Off	The all-wheel drive system is not operating properly. If the warning stays on or continues to come on, contact an authorized dealer.
AWD Restored	The all-wheel drive system will resume normal function.

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BRAKE PRECAUTIONS

WARNING: Driving your vehicle with the warning lamp on is dangerous. A significant decrease in braking performance may occur. It may take you longer to stop your vehicle. Have your vehicle checked as soon as possible. Driving extended distances with the parking brake engaged can cause brake failure and the risk of personal injury.

Wet brakes result in reduced braking efficiency. Gently press the brake pedal a few times when leaving a car wash or driving from standing water to dry the brakes.

Note: *Depending on applicable laws and regulations in the country for which your vehicle was originally built, the stoplamps could flash during heavy braking. Following this the hazard warning flashers could also turn on when your vehicle comes to a stop.*

ANTI-LOCK BRAKING SYSTEM

ANTI-LOCK BRAKING SYSTEM LIMITATIONS

The anti-lock braking system does not eliminate the risk of crash when:

- You drive too closely to the vehicle in front of you.
- Your vehicle is hydroplaning.
- You take corners too fast.
- The road surface is poor.

Note: *If the system activates, the brake pedal could pulse and travel further. Maintain pressure on the brake pedal.*

BRAKE OVER ACCELERATOR

In the event the accelerator pedal becomes stuck or entrapped, apply steady and firm pressure to the brake pedal to slow the vehicle and reduce engine power. If you experience this condition, apply the brakes and bring your vehicle to a safe stop. Move the transmission to park (P), switch the engine off and apply the parking brake. Inspect the accelerator pedal for any interference. If none are found and the condition persists, have your vehicle towed to the nearest authorized dealer.

LOCATING THE BRAKE FLUID RESERVOIR

See **Under Hood Overview** (page 376).

CHECKING THE BRAKE FLUID

WARNING: Do not use any fluid other than the recommended brake fluid as this will reduce brake efficiency. Use of incorrect fluid could result in the loss of vehicle control, serious personal injury or death.

WARNING: Only use brake fluid from a sealed container. Contamination with dirt, water, petroleum products or other materials may result in brake system damage or failure. Failure to adhere to this warning could result in the loss of vehicle control, serious personal injury or death.

WARNING: Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your physician.

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WARNING: The brake system could be affected if the brake fluid level is below the ***MIN*** mark or above the ***MAX*** mark on the brake fluid reservoir.

1. Park your vehicle on a level surface.
2. Look at the brake fluid reservoir to see where the brake fluid level is relative to the **MIN** and the **MAX** marks on the reservoir.

Note: *To avoid fluid contamination, the reservoir cap must remain in place and fully tight, unless you are adding fluid.*

Only use fluid that meets our specifications. See **Brakes** (page 236).

BRAKE FLUID SPECIFICATION

See **Brake Fluid Specification** (page 237).

BRAKES – TROUBLESHOOTING

BRAKES – WARNING LAMPS

If the ABS indicator illuminates when you are driving, this indicates a malfunction. Your vehicle continues to have normal braking without the anti-lock braking system function. See an authorized dealer.

It also momentarily illuminates when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked by an authorized dealer.

The brake indicator momentarily illuminates when you switch the ignition on to confirm the lamp is functional. It may also illuminate when you apply the parking brake and the ignition is on. If it illuminates when your vehicle is moving, make sure the parking brake is disengaged. If the parking brake is disengaged, this indicates low brake fluid level or a brake system fault. See an authorized dealer.

BRAKES – FREQUENTLY ASKED QUESTIONS

Is it normal for my brakes to make noise?

Occasional brake noise is normal. If a metal-to-metal, continuous grinding, or continuous squeal sound is present, the brake lining could be worn-out. Have your vehicle checked as soon as possible.

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There is an electrical motor sound after I press the brake pedal or activate the electric parking brake. Is this normal?

Yes, those sounds are from the brake system operating.

Note: *Brake dust could accumulate on the wheels, even under normal driving conditions. Some dust is normal as the brakes wear and does not contribute to brake noise. See* ***Cleaning Wheels*** *(page 406).*

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APPLYING THE PARKING BRAKE

WARNING: Always fully apply the parking brake and make sure you shift into park (P). Failure to follow this instruction could result in personal injury or death.

1. Firmly press the brake pedal.
2. Pull the parking lever upward to its fullest extent.

Note: *Do not press the release button while pulling the parking brake lever upward.*

Note: *If you park your vehicle on a hill and facing uphill, shift into park (P) and turn the steering wheel away from the curb.*

Note: *If you park your vehicle on a hill and facing downhill, shift into park (P) and turn the steering wheel toward the curb.*

RELEASING THE PARKING BRAKE

1. Firmly press the brake pedal.
2. Slightly pull the parking brake lever upward.
3. Press the release button and push the parking brake lever downward.

PARKING BRAKE AUDIBLE WARNING

Sounds when the parking brake is on and your vehicle is moving.

If the warning tone continues after you have released the parking brake, this indicates a malfunction. Have your vehicle checked as soon as possible.

PARKING BRAKE – TROUBLESHOOTING

PARKING BRAKE – WARNING LAMPS

WARNING: If you drive extended distances with the parking brake applied, you could cause damage to the brake system.

It illuminates when you engage the parking brake and the ignition is on.

If it illuminates when your vehicle is moving, make sure the parking brake is disengaged. If the parking brake is disengaged, this indicates low brake fluid level or a brake system fault. Have your vehicle checked as soon as possible.

PARKING BRAKE – INFORMATION MESSAGES

Message	Description
Park Brake Engaged	You have not released the parking brake and your vehicle reaches 3 mph (5 km/h). If the message continues to appear after you have released the parking brake, have your vehicle checked as soon as possible.

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APPLYING THE PARKING BRAKE

WARNING: Always fully apply the parking brake and make sure you shift into park (P). Failure to follow this instruction could result in personal injury or death.

1. Firmly press the brake pedal.
2. Pull the parking lever upward to its fullest extent.

Note: *Do not press the release button while pulling the parking brake lever upward.*

Note: *If you park your vehicle on a hill and facing uphill, shift into park (P) and turn the steering wheel away from the curb.*

Note: *If you park your vehicle on a hill and facing downhill, shift into park (P) and turn the steering wheel toward the curb.*

RELEASING THE PARKING BRAKE

1. Firmly press the brake pedal.
2. Pull the parking brake lever upward to its fullest extent.
3. Press the release button and push the parking brake lever downward.

PUSHING THE PARKING BRAKE LEVER DOWN

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If required, you can lower the parking brake lever to the fully down position, for example to swivel the seat. Push the parking brake lever downward without pressing the release button. The parking brake remains applied until you release it.

PARKING BRAKE AUDIBLE WARNING

Sounds when the parking brake is on and your vehicle is moving.

If the warning tone continues after you have released the parking brake, this indicates a malfunction. Have your vehicle checked as soon as possible.

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PARKING BRAKE – TROUBLESHOOTING

PARKING BRAKE – WARNING LAMPS

WARNING: If you drive extended distances with the parking brake applied, you could cause damage to the brake system.

It illuminates when you engage the parking brake and the ignition is on.

If it illuminates when your vehicle is moving, make sure the parking brake is disengaged. If the parking brake is disengaged, this indicates low brake fluid level or a brake system fault. Have your vehicle checked as soon as possible.

PARKING BRAKE – INFORMATION MESSAGES

Message	Description
Park Brake Engaged	You have not released the parking brake and your vehicle reaches 3 mph (5 km/h). If the message continues to appear after you have released the parking brake, have your vehicle checked as soon as possible.

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WHAT IS THE ELECTRIC PARKING BRAKE

The electric parking brake is used to hold your vehicle on slopes and flat roads.

APPLYING THE ELECTRIC PARKING BRAKE

WARNING: Always fully apply the parking brake and make sure you shift into park (P). Failure to follow this instruction could result in personal injury or death.

WARNING: If you drive extended distances with the parking brake applied, you could cause damage to the brake system.

The switch is next to the steering wheel on the lower part of the instrument panel.

1. Pull the switch up.

The red warning lamp flashes during operation and illuminates when the parking brake is applied.

Note: *You can apply the electric parking brake when the ignition is off.*

Note: *The electric parking brake could apply when you shift into park (P). See* ***Park (P)*** *(page 230).*

APPLYING THE ELECTRIC PARKING BRAKE IN AN EMERGENCY

You can use the electric parking brake to slow or stop your vehicle in an emergency.

1. Pull the switch up and hold it.

The electric parking brake continues to slow your vehicle down unless you release the switch.

The red warning lamp illuminates, a tone sounds and the stoplamps turn on when you use the electric parking brake in an emergency.

Note: *Do not apply the electric parking brake when your vehicle is moving, except in an emergency. If you repeatedly use the electric parking brake to slow or stop your vehicle, you could cause damage to the brake system.*

MANUALLY RELEASING THE ELECTRIC PARKING BRAKE

1. Switch the ignition on.
2. Press and hold the brake pedal.
3. Push the switch down.

The red warning lamp turns off.

Pulling Away on a Hill When Towing a Trailer

1. Press and hold the brake pedal.
2. Pull the switch upward and hold it.
3. Shift into gear.
4. Press the accelerator pedal until engine has developed sufficient torque to prevent your vehicle from rolling down the hill.
5. Release the switch and pull away in a normal manner.

AUTOMATICALLY RELEASING THE ELECTRIC PARKING BRAKE

1. Close the driver door.
2. Fasten the driver seatbelt.
3. Shift into gear.

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4. Press the accelerator pedal and pull away in a normal manner.

ELECTRIC PARKING BRAKE AUDIBLE WARNING

Sounds when the parking brake is on and your vehicle is moving. If the warning tone continues after you have released the parking brake, this indicates a malfunction. Have your vehicle checked as soon as possible.

RELEASING THE ELECTRIC PARKING BRAKE IF THE VEHICLE BATTERY HAS RUN OUT OF CHARGE

WARNING: The electric parking brake does not operate if the vehicle battery has run out of charge.

Connect a booster battery to the vehicle battery to release the electric parking brake if the vehicle battery has run out of charge. See **Jump Starting the Vehicle** (page 350).

ELECTRIC PARKING BRAKE – TROUBLESHOOTING

ELECTRIC PARKING BRAKE – WARNING LAMPS

The red warning lamp illuminates when the electronic parking brake is applied or for a few seconds on start up.

If it remains illuminated or flashes when the electronic parking brake is not applied, it indicates a malfunction. Have your vehicle checked as soon as possible.

ELECTRIC PARKING BRAKE – INFORMATION MESSAGES

Message	Action
Park Brake Malfunction Service Now	The electric parking brake has malfunctioned. Have your vehicle checked as soon as possible.
Park Brake Not Released	The electric parking brake has not released. Manually release the electric parking brake. If the message continues to appear, have your vehicle checked as soon as possible.
Park Brake Not Applied	The electric parking brake has not applied. Apply the electric parking brake. If the message continues to appear, have your vehicle checked as soon as possible.
Park Brake Use Switch to Release	The electric parking brake has not automatically released. Manually release the electric parking brake.
To Release: Press Brake and Switch	You have not pressed the brake pedal. Press the brake pedal to release the parking brake.

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Message	Action
Park Brake Limited Function Service Required	The electric parking brake has malfunctioned. Have your vehicle checked as soon as possible.
Park Brake System Overheated	The electric parking brake has overheated. Wait for the electric parking brake to cool down.
Park Brake Off	The electric parking brake is released.
Release Park Brake	The electric parking brake has not released. Manually release the electric parking brake. If the message continues to appear, have your vehicle checked as soon as possible.
Park Brake On	The electric parking brake is applied.

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WHAT IS REVERSE BRAKING ASSIST

The system uses sensors on the rear of your vehicle to detect a possible collision and applies the brakes to either reduce the damage from impact, or to assist in avoiding the collision.

HOW DOES REVERSE BRAKING ASSIST WORK

Reverse Braking Assist functions when in reverse (R) and traveling at a speed of 1–7 mph (1.5–12 km/h).

If the system detects an obstacle behind your vehicle, it provides a warning through the rear parking aid or cross traffic alert system.

REVERSE BRAKING ASSIST PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: To help avoid personal injury, always use caution when in reverse (R) and when using the sensing system.

WARNING: The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.

WARNING: Traffic control systems, inclement weather, air brakes, external motors and fans may affect the correct operation of the sensing system. This may cause reduced performance or false alerts.

WARNING: Some situations and objects prevent hazard detection. For example low or direct sunlight, inclement weather, unconventional vehicle types, and pedestrians. Apply the brakes when necessary. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not use the system with accessories that extend beyond the front or rear of your vehicle, for example a trailer hitch or bike rack. The system is not able to make corrections for the additional length of the accessories.

The system only applies the brakes for a short period of time when an event occurs. Act as soon as you notice the brakes apply in order to remain in control of the vehicle.

Note: *Certain add-on devices around the bumper or fascia may create false alerts. For example, large trailer hitches, bicycle or surfboard racks, license plate brackets, bumper covers or any other device that may block the normal detection zone of the system. Remove the add-on device to prevent false alerts.*

Note: *The system does not react to small or moving objects, particularly those close to the ground.*

Note: *The system does not operate during hard acceleration or steering.*

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Note: *If your vehicle sustains damage to the bumper or fascia leaving it misaligned or bent, it could alter the sensing zone causing inaccurate measurement of obstacles or false alerts.*

Note: *Vehicle loading and suspension changes can impact the angle of the sensors and may change the normal detection zone of the system resulting in inaccurate measurement of obstacles or false alerts.*

Note: *When you connect a trailer, the system may detect the trailer and provide an alert, or the system turns off. If the system does not turn off, switch the system off manually after you connect the trailer.*

Note: *You may experience reduced system performance on road surfaces that limit deceleration. For example, roads with ice, loose gravel, mud or sand.*

SWITCHING REVERSE BRAKING ASSIST ON AND OFF

1. Press ***Features*** on the touchscreen.
2. Press ***Driver Assistance***.
3. Switch ***Reverse Brake Assist*** on or off.

Note: *The system is unavailable when rear parking aid or cross traffic alert is off.*

OVERRIDING REVERSE BRAKING ASSIST

There could be instances when unexpected or unwanted braking occurs. Firmly pressing the accelerator pedal or switching the feature off overrides the system.

REVERSE BRAKING ASSIST INDICATORS

If the system determines that a collision with an obstacle may occur, full braking may apply. Bring your vehicle to a stop a safe distance away from the obstacle.

A message and warning indicator appear when the system applies the brakes.

REVERSE BRAKING ASSIST – TROUBLESHOOTING

REVERSE BRAKING ASSIST – INFORMATION MESSAGES

Message	Action
Reverse Brake Assist Not Available See Manual	Make sure that all doors, liftgate and hood are closed. Drive the vehicle on a straight road for a short period. Make sure the parking aids and cross traffic alert systems are on. If the message remains on, have the system checked as soon as possible.
Reverse Brake Assist Fault	Displays when a system error has occurred. Have your vehicle checked as soon as possible.
Reverse Brake Assist Off	Displays when reverse brake assist is off.

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REVERSE BRAKING ASSIST – FREQUENTLY ASKED QUESTIONS

Why is reverse braking assist unavailable?

- Make sure that all doors, liftgate and hood are closed. Drive the vehicle on a straight road for a short period. If the message remains, contact an authorized dealer.
- Make sure the cross traffic alert system is on. See **Locating the Rear Parking Aid Sensors** (page 258).
- Make sure the rear parking aid system is on. See **Switching Parking Aid On and Off** (page 257).
- Make sure traction control is on. See **Traction Control** (page 251).
- The vehicle has sustained a rear end impact. Contact an authorized dealer to have the sensors checked for proper coverage and operation.
- An ABS, traction control or stability control event may have occurred. Reverse braking assist resumes operation when the event is complete.
- Make sure the rear view camera and 360 degree camera are not dirty or obstructed. If dirty, clean the camera. If the message still appears after cleaning the camera, wait a short time and the message should clear. If the message does not clear, contact an authorized dealer.
- Make sure there are no blocked or faulted sensors. See **Locating the Rear Parking Aid Sensors** (page 258).
- You recently had your vehicle serviced, or the battery disconnected. Drive your vehicle a short distance to resume system operation.
- Reverse braking assist does not function when you connect a trailer. Operation resumes when you disconnect the trailer.

Note: *If the answers to why the system is unavailable do not assist in returning reverse braking assist to available, have the system checked as soon as possible.*

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WHAT IS HILL START ASSIST

Hill Start Assist makes it easier for you to pull away when your vehicle is on a slope without using the parking brake.

HOW DOES HILL START ASSIST WORK

When the system activates, your vehicle remains stationary for a few seconds after you release the brake pedal. This gives you time to move your foot from the brake pedal to the accelerator pedal. The brakes release when the engine has developed sufficient torque to prevent your vehicle from rolling down the slope.

HILL START ASSIST PRECAUTIONS

WARNING: The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake.

WARNING: You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

WARNING: The system will turn off if a malfunction is apparent. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

HILL START ASSIST – TROUBLESHOOTING

HILL START ASSIST – INFORMATION MESSAGES

Message	Action
Hill Start Assist Not Available	Displays when system is not available. Have your vehicle checked as soon as possible.

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HOW DOES AUTO HOLD WORK

Auto Hold applies the brakes to hold your vehicle after you stop it and release the brake pedal. This can help when waiting on a hill or in traffic.

SWITCHING AUTO HOLD ON AND OFF - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

WARNING: The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake.

WARNING: You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

WARNING: The system will turn off if a malfunction is apparent. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

Close the driver door and fasten your seatbelt before you switch the system on.

Press the button on the center console.

Note: *The system remembers the last setting when you start your vehicle.*

Note: *Make sure you switch the system off before using an automatic car wash.*

SWITCHING AUTO HOLD ON AND OFF - VEHICLES WITH: SYNC 4

WARNING: The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake.

WARNING: You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

WARNING: The system will turn off if a malfunction is apparent. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

Close the driver door and fasten your seatbelt before you switch the system on.

Press the button on the instrument panel.

Note: *The system remembers the last setting when you start your vehicle.*

Note: *Make sure you switch the system off before using an automatic car wash.*

USING AUTO HOLD

1. Bring your vehicle to a complete stop. The auto hold active indicator illuminates in the information display.
2. Release the brake pedal. The system holds your vehicle at a standstill. The auto hold active indicator remains illuminated in the information display.

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3. Pull away in the normal manner. The system releases the brakes and the auto hold active indicator switches off.

Note: *The system only activates if you apply enough brake pressure on the brake pedal.*

Note: *Under certain conditions, the system could apply the electric parking brake. The brake system warning lamp illuminates. The electric parking brake releases when you press the accelerator pedal. See* ***Automatically Releasing the Electric Parking Brake*** *(page 242).*

Note: *The system switches off if you shift into reverse (R) and press the brake pedal.*

There could be actions that can cause the auto hold system not to work when the following occur:

- When you use active park assist.
- Your vehicle is in stay in neutral mode.
- The driver door is open.
- You have not fastened your seatbelt.
- You shift into reverse (R) before the system is active.

AUTO HOLD INDICATORS

Illuminates when the system is active. Your vehicle remains stationary after you release the brake pedal.

Illuminates when the system is on but unavailable to hold your vehicle at a standstill.

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WHAT IS TRACTION CONTROL

The traction control system helps to avoid drive wheel spin and loss of traction.

HOW DOES TRACTION CONTROL WORK

If your vehicle begins to slide, the system applies the brakes to individual wheels and, when needed, reduces power at the same time. If the wheels spin when accelerating on slippery or loose surfaces, the system reduces power in order to increase traction.

SWITCHING TRACTION CONTROL ON AND OFF - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

WARNING: Operating your vehicle with the traction control disabled could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

The traction control system turns on each time you switch the power on.

If your vehicle is stuck in mud or snow, switching traction control off may be beneficial as this allows the wheels to spin.

Press the traction control button on the instrument panel to switch the system off or on.

Note: *When you switch traction control off, stability control remains partially active.*

Note: *Your vehicle could have MyKey restrictions regarding this feature. See* ***What Is MyKey*** *(page 83).*

SWITCHING TRACTION CONTROL ON AND OFF - VEHICLES WITH: SYNC 4

WARNING: Operating your vehicle with the traction control disabled could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

The traction control system turns on each time you switch the power on.

If your vehicle is stuck in mud or snow, switching traction control off may be beneficial as this allows the wheels to spin.

1. Press the menu button on the steering wheel to enter the instrument cluster display main menu.
2. Using the information display controls on the steering wheel, select ***Driver Assist.***.
3. Switch ***Traction Control*** on or off.

Note: *When you switch traction control off, stability control remains partially active.*

Note: *Your vehicle could have MyKey restrictions regarding this feature. See* ***What Is MyKey*** *(page 83).*

TRACTION CONTROL INDICATOR

Flashes during operation.

If it does not illuminate when you switch the ignition on, or remains on when the engine is running, this indicates a malfunction. Have your vehicle checked as soon as possible.

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TRACTION CONTROL – TROUBLESHOOTING

TRACTION CONTROL – WARNING LAMPS

It illuminates when you switch the system off.

TRACTION CONTROL – INFORMATION MESSAGES

Message	Details
Traction Control Off	The status of the traction control system after you switched it off.
Traction Control On	The status of the traction control system after you switched it on.
Turn Off Traction Control To Aid in Getting Unstuck?	You can switch off traction control on the steering wheel to allow the wheels to spin. If you switched traction control off, the system turns on when your vehicle speed is greater than 15 mph (25 km/h).

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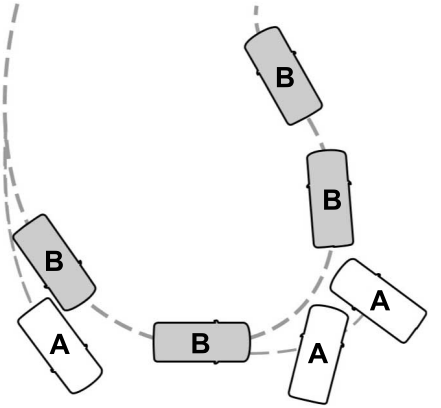
WHAT IS STABILITY CONTROL

The system is designed to support stability when your vehicle starts to slide away from your intended path.



A Without stability control.

B With stability control.

HOW DOES STABILITY CONTROL WORK

The system works by braking individual wheels and reducing engine speed.

SWITCHING STABILITY CONTROL ON AND OFF

WARNING: Vehicle modifications involving braking system, aftermarket roof racks, suspension, steering system, tire construction and wheel and tire size may change the handling characteristics of your vehicle and may adversely affect the performance of the electronic stability control system. In addition, installing any stereo speakers may interfere with and adversely affect the electronic stability control system. Reducing the effectiveness of the electronic stability control system could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

WARNING: Remember that even advanced technology cannot defy the laws of physics. It's always possible to lose control of a vehicle due to inappropriate driver input for the conditions. Aggressive driving on any road condition can cause you to lose control of your vehicle increasing the risk of personal injury or property damage. Activation of the electronic stability control system is an indication that at least some of the tires have exceeded their ability to grip the road; this could reduce the operator's ability to control the vehicle potentially resulting in a loss of vehicle control, vehicle rollover, personal injury and death.

The system turns on when you switch the power on and you cannot switch the system off.

The system is disabled when you shift into reverse (R).

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STABILITY CONTROL INDICATOR

If it does not illuminate when you switch the power on, or remains on, this indicates a malfunction. Have your vehicle checked by an authorized dealer as soon as possible.

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ELECTRIC POWER STEERING

ELECTRIC POWER STEERING PRECAUTIONS

WARNING: The electric power steering system has diagnostic checks that continuously monitor the system. If a fault is detected, a message displays in the information display. Stop your vehicle as soon as it is safe to do so. Switch the vehicle off. After at least 10 seconds, switch the vehicle on and watch the information display for a steering system warning message. If a steering system warning message returns, have the system checked as soon as possible.

WARNING: If the system detects an error, you may not feel a difference in the steering, however a serious condition may exist. Have your vehicle checked as soon as possible. Failure to do so may result in loss of steering control.

Adapt your speed and driving behavior according to reduced steering assist.

Extreme continuous steering may increase the effort to steer. This occurs to prevent internal overheating and damage to the steering system. If this occurs, you will not lose the ability to steer your vehicle manually nor will it cause damage to the system. Normal steering and driving allows the system to cool down and steering assist returns to normal.

Note: *There is no fluid reservoir to check or fill.*

ELECTRIC POWER STEERING ADAPTIVE STEERING

The adaptive steering system changes the steering ratio with changes to vehicle speed, optimizing the steering response in all conditions. The system also changes when you switch on the transmission tow/haul feature. When you select the tow/haul button, the adaptive steering system reduces vehicle sensitivity to steering inputs at higher vehicle speeds, while maintaining the ease of parking and maneuverability at low speeds.

Note: *The adaptive steering system continuously monitors for faults. If the system detects a fault, a message appears in the information display. If a red warning message displays, stop your vehicle as soon as it is safe to do so. The message could clear if the fault is no longer present. If an adaptive steering system warning message appears each time you start your vehicle, have the system checked as soon as possible.*

Note: *The system has a locking device. It remains mechanically locked at a fixed steering ratio with the lock engaged. You may notice a click when you turn your vehicle on or off.*

Note: *If your vehicle loses electrical power or detects a fault when you are driving, the system shuts down and you retain a normal steering function with a fixed steering ratio. During this time, it is possible that the steering wheel could not be straight when the vehicle is driving straight ahead. In addition, you could notice that the steering wheel angle required to steer your vehicle could be different.*

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Note: *During parking maneuvers, the adaptive steering system balances the driver workload for various steering wheel inputs and vehicle loading conditions. Under extreme operating conditions the system locking device could engage. This strategy prevents overheating and permanent damage to the adaptive steering system. Typical steering and driving maneuvers allow the system to cool and return to normal operation.*

Adaptive Learning

Adaptive learning helps correct road irregularities and improves overall handling and steering. It communicates with the brake system to help operate advanced stability control and crash avoidance systems. Additionally, whenever you disconnect the battery or install a new battery, you must drive your vehicle a short distance before the system relearns the strategy and reactivates all systems.

STEERING – TROUBLESHOOTING

STEERING – WARNING INDICATORS

The adaptive steering system indicator illuminates if the system detects a fault during the continuous diagnostic checks.

Note: *If a red warning message displays, stop your vehicle as soon as it is safe to do so.*

STEERING – INFORMATION MESSAGES

Message	Action
Steering Fault Service Now	The power steering system has detected a condition that requires service. Have your vehicle checked as soon as possible.
Steering Loss Stop Safely	The power steering system is not working. Stop your vehicle in a safe place. Have your vehicle checked as soon as possible.
Steering Assist Fault Service Required	The power steering system has detected a condition that requires service. Have your vehicle checked as soon as possible.
Steering Lock Malfunction Service Now	The steering system has detected a condition that requires service. Have your vehicle checked as soon as possible.

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PARKING AID PRECAUTIONS

WARNING: To help avoid personal injury, always use caution when in reverse (R) and when using the sensing system.

WARNING: The system may not detect objects with surfaces that absorb reflection. Always drive with due care and attention. Failure to take care may result in a crash.

WARNING: Traffic control systems, fluorescent lamps, inclement weather, air brakes, external motors and fans may affect the correct operation of the sensing system. This may cause reduced performance or false alerts.

WARNING: The system may not detect small or moving objects, particularly those close to the ground.

WARNING: The parking aid system can only assist you to detect objects when your vehicle is moving at parking speeds. To help avoid personal injury you must take care when using the parking aid system.

WARNING: The system may not function if the sensor is blocked.

WARNING: In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.

WARNING: If damage occurs in the immediate area surrounding the sensor, have your vehicle checked as soon as possible.

Note: *If your vehicle sustains damage leaving the sensors misaligned, this will cause inaccurate measurements or false alerts.*

When you connect a trailer to your vehicle, the rear parking aid detects the trailer and provides an alert. Disable the parking aid when you connect a trailer to prevent the alert.

Note: *Certain add-on devices installed around the bumper or fascia may create false alerts, for example, large trailer hitches, bike or surfboard racks, license plate brackets, bumper covers or any other device that could block the normal detection zone of the parking aid system. Aftermarket spare tires or spare tire covers mounted to the rear tailgate could cause false alerts from the park aid system. Remove the add-on device to prevent false alerts.*

Note: *Keep the sensors free from snow, ice and large accumulations of dirt. If the sensors are covered, the system's accuracy can be affected.*

Do not clean the sensors with sharp objects.

Note: *When using a programmed MyKey, you cannot switch the parking aids off. See* ***MyKey™*** *(page 83).*

SWITCHING PARKING AID ON AND OFF - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

You can turn the system on or off by pressing the parking aid button. If your vehicle does not have a parking aid button, the system can be switched off through the information display menu or from the pop-up message that appears once you shift the transmission into reverse (R).

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SWITCHING PARKING AID ON AND OFF - VEHICLES WITH: SYNC 4

Press the parking aid button and use the menu to turn the system on and off.

The system can also be turned off using the pop-up message that appears when you are in reverse (R).

REAR PARKING AID

WHAT IS THE REAR PARKING AID

Rear parking sensors detect objects behind your vehicle when in reverse (R).

REAR PARKING AID LIMITATIONS

There is a decreased coverage area at the outer corners.

When using a programmed MyKey, you cannot switch the rear parking aid off.

The rear parking aid sensors are active when your vehicle is in reverse (R) and the vehicle speed is less than 5 mph (8 km/h).

The sensor coverage area is up to 71 in (180 cm) from the rear bumper.

The rear parking aid detects large objects when you shift into reverse (R) and any of the following occur:

- Your vehicle is moving backward at a low speed.
- Your vehicle is stationary but an object is approaching the rear of your vehicle at a low speed.
- Your vehicle is moving backward at a low speed and an object is moving towards your vehicle, for example another vehicle at a low speed.

LOCATING THE REAR PARKING AID SENSORS

The rear parking aid sensors are in the rear bumper.

REAR PARKING AID AUDIBLE WARNINGS

A warning tone sounds when your vehicle approaches an object. As your vehicle moves closer to an object, the rate of the tone increases. The warning tone continuously sounds when an object is 12 in (30 cm) or less from the rear bumper.

If your vehicle remains stationary for a few seconds, the audible warning turns off. If your vehicle moves backward the tone sounds again.

Note: *When the parking aid system sounds a tone, the audio system could reduce the set volume.*

FRONT PARKING AID

WHAT IS THE FRONT PARKING AID

Front parking sensors detect objects in front of your vehicle.

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FRONT PARKING AID LIMITATIONS

The front parking aid sensors are active when your vehicle is in any position other than park (P) and the vehicle speed is less than 5 mph (8 km/h).

The sensor coverage area is up to 28 in (70 cm) from the bumper.

If your vehicle is in reverse (R), the front parking aid detects objects when your vehicle is moving at a low speed or an object is moving toward your vehicle and provides an audio warning, for example another vehicle at a low speed. Once your vehicle reaches a stop, the audio warning stops after a few seconds. Visual indication is always active in reverse (R).

If your vehicle is in any forward gear, the front parking aid provides audible warnings and visual indication when your vehicle is moving at a speed of 5 mph (8 km/h) or below and the system detects an object within the detection zone. Once your vehicle reaches a stop, the visual indication and audio warning stops after a few seconds.

If your vehicle is in neutral (N), the front and rear sensors provide visual indication only when your vehicle is moving below a speed of 5 mph (8 km/h) and obstacles are detected inside the detection areas. Once your vehicle stops, the visual indication and audio warning stops after a few seconds.

LOCATING THE FRONT PARKING AID SENSORS

The front parking aid sensors are in the front bumper.

FRONT PARKING AID AUDIBLE WARNINGS

A warning tone sounds when there is an object within 28 in (70 cm) from the front bumper. As your vehicle moves closer to an object, the rate of the tone increases.

The warning tone continuously sounds when an object is 12 in (30 cm) or less from the front bumper.

Note: *If the detected object is 12 in (30 cm) or less from your vehicle, visual indication remains on.*

SIDE PARKING AID

WHAT IS THE SIDE PARKING AID

The front and rear outermost parking aid sensors map objects that are near to the sides of your vehicle.

SIDE PARKING AID LIMITATIONS

The sensor coverage is up to 24 in (60 cm) from the sides of your vehicle.

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The side parking aid may not function if:

- Your vehicle remains stationary for over two minutes.
- The anti-lock brake system activates.
- The traction control system activates.
- Your vehicle is in park (P).
- The steering wheel angle information is not available. You must drive at least 492 ft (150 m) above 19 mph (30 km/h) to reset the steering wheel angle information.

Note: *If you switch traction control off, the side sensing system also turns off.*

To reinitialize the system, drive the length of your vehicle.

The side parking aid does not detect an object that is moving toward the side of your vehicle, for example another vehicle moving at a low speed, if it does not pass a front or rear parking aid sensor.

If the transmission is in reverse (R), the side sensing system provides audible warnings. When your vehicle is moving slowly, obstacles are detected within 24 in (60 cm) and are inside the driving path of your vehicle. Once your vehicle reaches a standstill condition, the audible warning stops after a few seconds. Visual indication is always present in reverse (R).

If your vehicle is in neutral (N), the side sensing system provides visual indication only when your vehicle is moving slowly and there is a front or rear park aid obstacle detected, and the side obstacle is within 24 in (60 cm) from the side of your vehicle. Once your vehicle reaches a stop, the visual indication stops after a few seconds.

If the transmission is in drive (D) or any other forward gear, the side sensing system provides audible and visual warnings. When your vehicle is moving slowly, obstacles are detected within 24 in (60 cm) and are inside the driving path of your vehicle. Once your vehicle reaches a standstill condition, the audible warning and visual indication stops after a few seconds.

LOCATING THE SIDE PARKING AID SENSORS

The side parking sensors are in the front and rear bumpers.

SIDE PARKING AID AUDIBLE WARNINGS

When the side parking aid detects an object within the coverage area and the driving path of your vehicle, an audible warning sounds. As your vehicle moves closer to the object, the rate of the tone increases.

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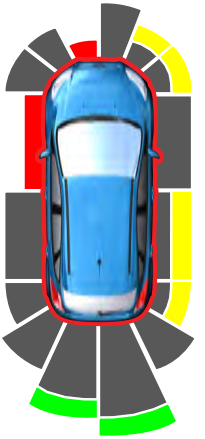
PARKING AID INDICATORS



The system provides object distance indication through the information display.

- As the distance to the object decreases, the indicator blocks illuminate and move toward the vehicle icon.
- If there is no object detected, the distance indicator blocks are grey.

Visual indication remains on when the transmission is in reverse (R). When you stop your vehicle, visual indication turns off after four seconds.

If the parking aids are not available, the side distance indicator blocks do not display.

PARKING AIDS – TROUBLESHOOTING

PARKING AIDS – INFORMATION MESSAGES

If a fault is present in the parking aids, a warning message appears in the instrument cluster or the information display.

Message	Action
Park Aid Fault	The system has malfunctioned. Have your vehicle checked as soon as possible.
Check Park Aid	The system has malfunctioned. Have your vehicle checked as soon as possible.
Front Park Aid Not Available Sensor Blocked See Manual	A sensor is blocked or the system has malfunctioned. Clean the bumper or remove any obstruction. If the message continues to appear, have your vehicle checked as soon as possible.
Check Front Park Aid	The system detects a condition that requires service. Have your vehicle checked as soon as possible.

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Message	Action
Check Rear Park Aid	The system detects a condition that requires service. Have your vehicle checked as soon as possible.
Front Park Aid On Off	Displays the park aid status.
Rear Park Aid On Off	Displays the park aid status.

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WHAT IS THE REAR VIEW CAMERA

The rear view camera provides a video image of the area behind your vehicle when the transmission is in reverse (R). During operation, guide lines appear in the display that represents the path of your vehicle and proximity to objects behind it.

REAR VIEW CAMERA PRECAUTIONS

WARNING: The rear view camera system is a reverse aid supplement device that still requires the driver to use it in conjunction with the interior and exterior mirrors for maximum coverage.

WARNING: Objects that are close to either corner of the bumper or under the bumper, might not be seen on the screen due to the limited coverage of the camera system.

WARNING: Reverse your vehicle slowly. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Use caution when the rear cargo door is ajar. If the rear cargo door is ajar, the camera will be out of position and the video image could be incorrect. All guide lines disappear when the rear cargo door is ajar. Failure to follow this instruction could result in personal injury.

WARNING: Use caution when turning camera features on or off when the transmission is not in park (P). Make sure your vehicle is not moving.

Note: *When towing, the camera only sees what you are towing. This might not provide adequate coverage and you might not see some objects. In some vehicles, the guide lines may disappear when you connect the trailer tow connector.*

REAR VIEW CAMERA LIMITATIONS

The system may not correctly operate in any of the following conditions:

- Nighttime or dark areas if the reverse lamps are not operating.
- If the camera is obstructed. Clean the lens with a soft, lint-free cloth and non-abrasive cleaner.
- The camera is misaligned due to damage to the rear of your vehicle.

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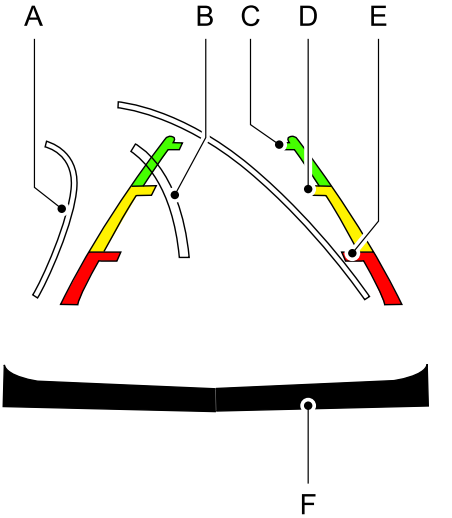
LOCATING THE REAR VIEW CAMERA

The rear view camera is below the central high mounted stop lamp or on the rear cargo door.

REAR VIEW CAMERA GUIDE LINES

Note: *Active guide lines are only available when the transmission is in reverse (R).*



A	Active guide lines.
B	Centerline.
C	Fixed guide line: Green zone.
D	Fixed guide line: Yellow zone.
E	Fixed guide line: Red zone.
F	Rear bumper.

Active guide lines only show with fixed guide lines. To use active guide lines, turn the steering wheel to point the guide lines toward an intended path. If the steering wheel position changes while reversing, your vehicle might deviate from the intended path.

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The fixed and active guide lines fade in and out depending on the steering wheel position. The active guide lines do not display when the steering wheel position is straight.

Use caution while reversing. Objects in the red zone are closest to your vehicle and objects in the green zone are farther away. Objects get closer to your vehicle as they move from the green zone to the yellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of your vehicle.

If the vehicle battery is disconnected, the guidelines are not fully functional directly after the battery is reconnected. The guidelines become fully functional after you drive your vehicle forward as straight as possible for five minutes at a minimum speed of 31 mph (50 km/h).

REAR VIEW CAMERA SETTINGS

ZOOMING THE REAR VIEW CAMERA IN AND OUT

WARNING: When manual zoom is on, the full area behind your vehicle may not show. Be aware of your surroundings when using the manual zoom feature.

Selectable settings for this feature are zoom in (+) and zoom out (-). Press the symbol on the camera screen to change the view. The default setting is zoom off.

This allows you to get a closer view of an object behind your vehicle. The zoomed image keeps the bumper in the image to provide a reference. The zoom is only active while the transmission is in reverse (R).

Note: *Manual zoom is only available when the transmission is in reverse (R).*

Note: *Only the centerline shows when you enable manual zoom.*

SWITCHING REAR VIEW CAMERA OBJECT DISTANCE INDICATOR ON AND OFF

You can switch this feature on or off in the settings. See **Instrument Cluster Display** (page 136).

When the system detects an object, it displays red, yellow and green distance indicators on the information display.

SWITCHING REAR VIEW CAMERA DELAY ON AND OFF

You can switch this feature on or off using the touchscreen. The default setting is off.

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If you switch this feature on, the image continues to display when you shift from reverse (R) until:

- You shift to a forward gear and the vehicle speed sufficiently increases.
- You shift in to park (P).

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WHAT IS THE 180 DEGREE CAMERA

The 180 degree camera provides an extended image of the area behind your vehicle.

HOW DOES THE 180 DEGREE CAMERA WORK

When you switch the 180 degree view on, the view splits into three images. You can use the right and left outer images when reversing to check for cross traffic and pedestrians.

When you use the 180 degree camera view, objects behind your vehicle are shown extremely stretched and do not appear as actual ratio.

180 DEGREE CAMERA PRECAUTIONS

WARNING: The rear view camera system is a reverse aid supplement device that still requires the driver to use it in conjunction with the interior and exterior mirrors for maximum coverage.

WARNING: Objects that are close to either corner of the bumper or under the bumper, might not be seen on the screen due to the limited coverage of the camera system.

WARNING: Reverse your vehicle slowly. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Use caution when the rear cargo door is ajar. If the rear cargo door is ajar, the camera will be out of position and the video image could be incorrect. All guide lines disappear when the rear cargo door is ajar. Failure to follow this instruction could result in personal injury.

WARNING: Use caution when turning camera features on or off when the transmission is not in park (P). Make sure your vehicle is not moving.

Note: *If the image comes on while the transmission is not in reverse (R), have the system inspected by your authorized dealer.*

Note: *When towing, the camera only sees what you are towing. This might not provide adequate coverage and you might not see some objects.*

Note: *Guide lines do not appear when you switch the 180 degree view on.*

SWITCHING THE 180 DEGREE CAMERA ON AND OFF

When you shift to reverse (R) and the rear view camera image appears, press the button in the upper left corner of the touch screen to switch the 180 degree view on. Press the button again to switch it off.

The 180 degree view turns off when you shift into park (P) or into any forward gear and the vehicle speed sufficiently increases.

Note: *Whenever you shift to reverse (R) the standard rear view camera image with guidelines is the default view.*

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WHAT IS THE 360 DEGREE CAMERA

The 360 degree camera system provides visibility around your vehicle in parking maneuvers such as:

- Centering in a parking space.
- Obstacles near your vehicle.
- Parallel parking.

The 360 degree camera system consists of front, side and rear cameras.

HOW DOES THE 360 DEGREE CAMERA WORK

The 360 Degree Camera system:

- Allows you to see what is directly in front of or behind your vehicle.
- Provides a cross traffic view in front of and behind your vehicle.
- Allows you to see a top-down view of the area outside your vehicle, including the blind spots and obstacles near your vehicle.

360 DEGREE CAMERA PRECAUTIONS

WARNING: The 360 degree camera system still requires the driver to use it in conjunction with looking out of the windows, and checking the interior and exterior mirrors for maximum coverage.

WARNING: Objects that are close to either corner of the bumper or under the bumper, might not be seen on the screen due to the limited coverage of the camera system.

WARNING: Use caution when turning camera features on or off when the transmission is not in park (P). Make sure your vehicle is not moving.

WARNING: Do not switch the camera features on or off when your vehicle is moving.

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

360 DEGREE CAMERA LIMITATIONS

Note: *Use caution if a door is ajar. The 360 degree camera could be out of position and the image could be incorrect.*

LOCATING THE 360 DEGREE CAMERAS

Rear View Camera

The rear view camera is on the liftgate. It provides a video image of the area behind your vehicle.

Front View Camera

The front view camera is in the grille. It provides a video image of the area in front of your vehicle.

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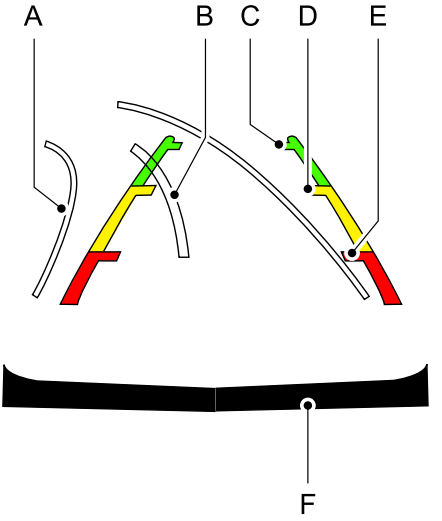
Side View Camera

The side view camera is on the outside mirror. It provides a video image of the area on the sides of your vehicle to aid you when parking.

360 DEGREE CAMERA GUIDE LINES

Note: *Active guide lines are only available when the transmission is in reverse (R).*



A Active guide lines.

B Centerline.

C Fixed guide line: Green zone.

D Fixed guide line: Yellow zone.

E Fixed guide line: Red zone.

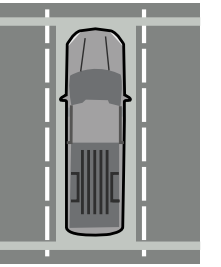
F Rear bumper.

Active guide lines only show with fixed guide lines. Turn the steering wheel to point the guide lines toward an intended path. If the steering wheel position changes when reversing, your vehicle could deviate from the intended path.

The fixed and active guide lines fade in and out depending on the steering wheel position. The active guide lines do not display when the steering wheel position is straight.

Objects in the red zone are closest to your vehicle and objects in the green zone are farther away. Objects get closer to your vehicle as they move from the green zone to the yellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of your vehicle.

Keep Out Zone



The keep out zone is represented by the yellow dotted lines running parallel to your vehicle.

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SWITCHING THE 360 DEGREE CAMERA ON AND OFF

The 360 degree camera system button is on the instrument panel. The front and rear cameras have multiple screens which consist of:

- Normal view.
- Normal view with 360.
- Split view.

Note: *The rear view camera activates when you switch into reverse (R). Additional views are then accessible on the touchscreen.*

When in park (P), neutral (N) or drive (D), the front images display when the button is pressed. When in reverse (R), only the rear images display when the button is pressed.

Note: *The 360 degree camera system turns off when your vehicle is in motion at low speed, except when in reverse (R).*

SWITCHING THE 360 DEGREE CAMERA VIEW

Press to access the different camera views.

Front normal view provides an image of what is directly in front of your vehicle.

Front split view provides an extended view of what is in front of your vehicle.

Normal + 360 degree view contains the normal camera view next to a 360 degree camera view.

Rear normal view provides an image of what is directly behind your vehicle.

Rear split view provides an extended view of what is behind your vehicle.

Zooms in on the 360 degree image.

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WHAT IS ACTIVE PARK ASSIST

Assists you with parking in and out of parking spaces.

ACTIVE PARK ASSIST PRECAUTIONS

WARNING: You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

WARNING: The sensors may not detect objects in heavy rain or other conditions that cause interference.

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not use the system with accessories that extend beyond the front or rear of your vehicle, for example a trailer hitch or bike rack. The system is not able to make corrections for the additional length of the accessories.

SWITCHING ACTIVE PARK ASSIST ON AND OFF - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

The active park assist button is next to the gearshift lever.

Press the button to activate active park assist. Press again to switch between parking modes.

Cancelling Active Park Assist

To cancel parking assistance at any time, press the active park assist button or turn the steering wheel.

Note: *It also cancels when your vehicle exceeds 6 mph (9 km/h).*

Brake System Intervention

When active park assist is controlling the steering, it may under certain conditions apply the brakes to slow or stop your vehicle.

Note: *This could cause the parking assistance to cancel.*

SWITCHING ACTIVE PARK ASSIST ON AND OFF - VEHICLES WITH: SYNC 4

Press the parking aid button, then press the active park assist icon on the touchscreen to bring up full screen notifications.

Press the soft keys on the touchscreen to switch between the parallel park in, perpendicular park in, or parallel park out parking modes.

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Cancelling Active Park Assist

To cancel parking assistance at any time, press the active park assist button or turn the steering wheel.

Note: *Active park assist also cancels when your vehicle exceeds 6 mph (9 km/h).*

Brake System Intervention

When active park assist is controlling the steering, it could under certain conditions apply the brakes to slow or stop your vehicle.

Note: *This could cause the parking assistance to cancel.*

ENTERING A PARALLEL PARKING SPACE

1. Press the active park assist button.

Note: *The system searches for parallel parking spaces on the passenger side. Press the active park assist button again to make the system search for perpendicular spaces.*

2. Use the direction indicator lever to search for a parking space on the driver or passenger side of your vehicle.
3. Drive your vehicle approximately 3 ft (1 m) away from and parallel to the other parked vehicles when searching for a parking space.

Note: *A tone sounds and a message appears in the information display when active park assist finds a suitable parking space.*

4. Bring your vehicle to a complete standstill.
5. Release the steering wheel and shift into reverse (R).
6. Drive backward and your vehicle steers itself into the parking space.

Note: *You can slow down your vehicle at any time by pressing the brake pedal.*

7. Follow the instructions on the information display.

Note: *When parking is complete, a tone sounds and an information message appears.*

ENTERING A PERPENDICULAR PARKING SPACE

1. Press the active park assist button twice.
2. Use the direction indicator lever to search for a parking space on the driver or passenger side of your vehicle.
3. Drive your vehicle approximately 3 ft (1 m) away from and parallel to the other parked vehicles when searching for a parking space.

Note: *A tone sounds and a message appears in the information display when active park assist finds a suitable parking space.*

4. Bring your vehicle to a complete standstill.
5. Release the steering wheel and shift into reverse (R).
6. Drive backward and your vehicle steers itself into the parking space.

Note: *You can slow down your vehicle at any time by pressing the brake pedal.*

7. Follow the instructions on the information display.

Note: *When parking is complete, a tone sounds and an information message appears.*

Note: *Active park assist does not recognize parking space lines and centers your vehicle between objects.*

Note: *When the system detects only one object, it allows enough distance to open the door on either side.*

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EXITING A PARKING SPACE

The system assists leaving only parallel parking spaces.

1. Press the active park assist button.
2. Use the turn signal lever to choose the direction to leave.
3. Release the steering wheel and shift into reverse (R).
4. Follow the instructions on the information display.

Note: *You can slow down your vehicle at any time by pressing the brake pedal.*

Note: *After the system drives your vehicle to a position where you can exit the parking space in a forward movement, a message appears instructing you to take full control of your vehicle.*

ACTIVE PARK ASSIST – TROUBLESHOOTING

ACTIVE PARK ASSIST – INFORMATION MESSAGES

Message	Action
Active Park Fault	The system requires service. Have your vehicle checked as soon as possible.

ACTIVE PARK ASSIST – FREQUENTLY ASKED QUESTIONS

Why does active park assist not operate correctly?

The system is unable to detect a vehicle, curb or object to park next to or in between. The system needs boundary objects to operate correctly.

Why does active park assist not search for a parking space?

You have switched traction control off.

Why does active park assist not search for a parking space?

The transmission is in reverse (R). Your vehicle must be moving forward to be able to detect a parking space.

Why does active park assist not offer a parking space?

The sensors could be blocked. For example, snow, ice or large accumulations of dirt. Blocked sensors can affect how the system functions.

Why does active park assist not offer a parking space?

The sensors in the front or rear bumper could be damaged.

Why does active park assist not offer a parking space?

There is not enough room in the parking space for your vehicle to safely park.

Why does active park assist not offer a parking space?

There is not enough space for the parking maneuver on the opposite side of the parking space.

Why does active park assist not offer a parking space?

The parking space is more than 5 ft (1.5 m) or less than 2 ft (0.5 m) away from your vehicle.

Why does active park assist not offer a parking space?

Your vehicle's speed is greater than 22 mph (35 km/h) for parallel parking or greater than 19 mph (30 km/h) for perpendicular parking.

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Why does active park assist not offer a parking space?

You recently disconnected or replaced the battery. After you reconnect the battery you must drive your vehicle on a straight road for a short period of time.

Why does active park assist not correctly position the vehicle into a parking space?

An irregular curb along the parking space prevents the system from correctly aligning your vehicle.

Why does active park assist not correctly position the vehicle into a parking space?

Vehicles or objects bordering the space could not be correctly parked.

Why does active park assist not correctly position the vehicle into a parking space?

Your vehicle stopped too far past the parking space.

Why does active park assist not correctly position the vehicle into a parking space?

The tires are not correctly installed or maintained. For example, using a spare tire, not inflated correctly, improper size, or of different sizes.

Why does active park assist not correctly position the vehicle into a parking space?

A repair or alteration changed the detection capabilities.

Why does active park assist not correctly position the vehicle into a parking space?

A parked vehicle has a high attachment. For example, a salt sprayer, snowplow or moving truck bed.

Why does active park assist not correctly position the vehicle into a parking space?

The parking space length, or position of parked objects, changes after your vehicle passes the space.

Why does active park assist not correctly position the vehicle into a parking space?

The temperature around your vehicle quickly changes. For example, driving from a heated garage into a cold outside temperature, or after leaving a car wash.

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WHAT IS CRUISE CONTROL

Cruise control lets you maintain a set speed without keeping your foot on the accelerator pedal.

Requirements

Use cruise control when the vehicle speed is greater than 15 mph in imperial units and 20 km/h in metric units.

SWITCHING CRUISE CONTROL ON AND OFF

WARNING: Do not use cruise control on winding roads, in heavy traffic or when the road surface is slippery. This could result in loss of vehicle control, serious injury or death.

The cruise controls are on the steering wheel.

Switching Cruise Control On

Press the button to put the system in standby mode.

Switching Cruise Control Off

Press the button when in standby mode or switch the ignition off.

Note: *When you switch cruise control off the set speed clears.*

SETTING THE CRUISE CONTROL SPEED

WARNING: When you are going downhill, your vehicle speed could increase above the set speed. The system does not apply the brakes.

Drive to the speed you prefer.

Press the buttons to set the current speed.

Take your foot off the accelerator pedal.

Note: *The set speed appears in the instrument cluster display.*

Changing the Set Speed

Press the button to increase the set speed in small increments. Press and hold the button to accelerate. Release the button when you have reached your preferred speed.

Press the button to decrease the set speed in small increments. Press and hold the button to decelerate. Release the button when you have reached your preferred speed.

Note: *If you accelerate by pressing the accelerator pedal, the set speed does not change. When you release the accelerator pedal, your vehicle returns to the speed that you previously set.*

CANCELING THE SET SPEED

Press the button, or tap the brake pedal to cancel the set speed.

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Note: *The system remembers the set speed.*

Note: *The system cancels if the vehicle speed drops below 10 mph (16 km/h) under the set speed when driving uphill.*

RESUMING THE SET SPEED

Press the button.

CRUISE CONTROL INDICATORS

Illuminates when you switch the system on.

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HOW DOES ADAPTIVE CRUISE CONTROL WORK

Adaptive cruise control uses radar and camera sensors to maintain a set gap between your vehicle and the vehicle in front of you.

ADAPTIVE CRUISE CONTROL PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not use adaptive cruise control on winding roads, in heavy traffic or when the road surface is slippery. This could result in loss of vehicle control, serious injury or death.

WARNING: Pay close attention to changing road conditions such as entering or leaving a highway, on roads with intersections or roundabouts, roads without visible lanes of travel, roads that are unpaved, or steep slopes. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: The system is not a crash warning or avoidance system.

WARNING: Do not use the system when towing a trailer that has aftermarket electronic trailer brake controls. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not use tire sizes other than those recommended because this can affect the normal operation of the system. Failure to do so may result in a loss of vehicle control, which could result in serious injury.

WARNING: Do not use the system with a snow plow blade installed.

WARNING: Do not use the system in poor visibility, for example fog, heavy rain, spray or snow.

When Following a Vehicle

WARNING: When following a vehicle that is braking, your vehicle does not always decelerate quickly enough to avoid a crash without driver intervention. Apply the brakes when necessary. Failure to follow this instruction could result in personal injury or death.

Hilly Condition Usage

Select a lower gear when the system is active in situations such as prolonged downhill driving on steep slopes, for example in mountainous areas.

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ADAPTIVE CRUISE CONTROL LIMITATIONS

Sensor Limitations

WARNING: On rare occasions, detection issues can occur due to the road infrastructures, for example bridges, tunnels and safety barriers. In these cases, the system may brake late or unexpectedly. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required.

WARNING: If the system malfunctions, have your vehicle checked as soon as possible.

WARNING: Large contrasts in outside lighting can limit sensor performance.

WARNING: The system only warns of vehicles detected by the radar sensor. In some cases there may be no warning or a delayed warning. Apply the brakes when necessary. Failure to follow this instruction could result in personal injury or death.

WARNING: The system may not detect stationary or slow moving vehicles below 6 mph (10 km/h).

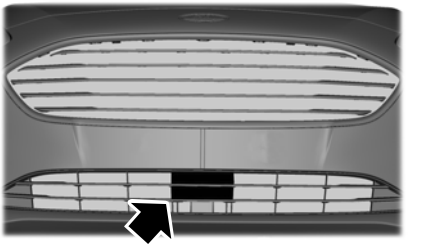
WARNING: The system does not detect pedestrians or objects in the road.

WARNING: The system does not detect oncoming vehicles in the same lane.

WARNING: The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.

WARNING: The sensor may incorrectly track lane markings as other structures or objects. This can result in a false or missed warning.

The camera is mounted behind the interior mirror.



E244279

The radar is behind the front grille below the license plate.

Note: *You cannot see the sensor. It is behind a fascia panel.*

Note: *Keep the front of your vehicle free of dirt, metal badges or objects. Vehicle front protectors, aftermarket lights, additional paint or plastic coatings could also degrade sensor performance.*

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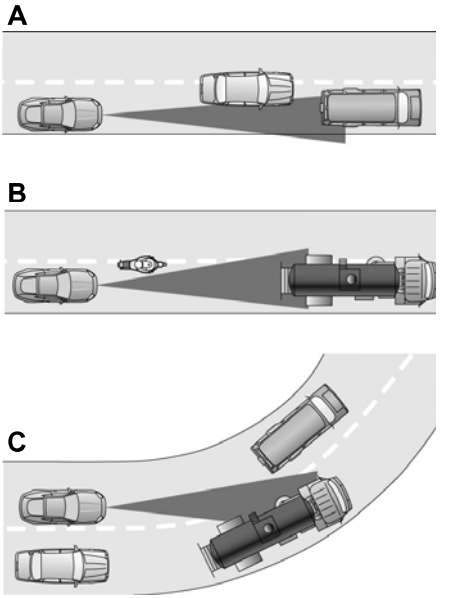
A message displays if something obstructs the camera or the sensor. When something blocks the sensor, the system cannot detect a vehicle ahead and does not function. See **Adaptive Cruise Control – Information Messages** (page 284).

The radar sensor has a limited field of view. It may not detect vehicles at all or detect a vehicle later than expected in some situations. The lead vehicle image does not illuminate if the system does not detect a vehicle in front of you.

Detection Issues Can Occur:



A When driving on a different lane than the vehicle in front.

B With vehicles that edge into your lane. The system can only detect these vehicles once they move fully into your lane.

C There may be issues with the detection of vehicles in front when driving into and coming out of a bend or curve in the road.

In these cases, the system may brake late or unexpectedly.

If something hits the front end of your vehicle or damage occurs, the radar-sensing zone may change. This could cause missed or false vehicle detection.

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Optimal system performance requires a clear view of the road by the windshield camera.

Optimal performance may not occur if:

- The camera is blocked.
- There is poor visibility or lighting conditions.
- There are bad weather conditions.

SWITCHING ADAPTIVE CRUISE CONTROL ON AND OFF

The cruise controls are on the steering wheel. See **What Is Cruise Control** (page 275).

Switching Adaptive Cruise Control On

Press the button to set the system in standby mode.

The indicator, current gap setting and set speed appear in the information display.

Switching Adaptive Cruise Control Off

Press the button when the system is in standby mode, or switch the ignition off.

Note: *You erase the set speed when you switch the system off.*

ADAPTIVE CRUISE CONTROL AUTOMATIC CANCELLATION

The system does not operate if the vehicle speed is below 15 mph when in imperial units or 20 km/h when in metric units. A tone sounds and adaptive braking releases if the vehicle speed falls below 15 mph when in imperial units or 20 km/h when in metric units.

Automatic cancellation can also occur when:

- The tires lose traction.
- You apply the parking brake.

Note: *If the engine speed drops too low, the instrument cluster display advises you to shift to a lower gear.*

The system could deactivate or prevent activating when requested if:

- The vehicle has a blocked sensor.
- The brake temperature is too high.
- There is a failure in the system.

SETTING THE ADAPTIVE CRUISE CONTROL SPEED

Drive to the speed you prefer.

Press the toggle button upward or downward to set the current speed.

Take your foot off the accelerator pedal.

The indicator, current gap setting and set speed appear in the information display.

A vehicle image illuminates if there is a vehicle detected in front of you.

Note: *When adaptive cruise control is active, the speedometer may vary slightly from the set speed displayed in the information display.*

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Manually Changing the Set Speed

SET+ Press and release the toggle button upward to increase the set speed in small increments.

Press and hold the toggle button upward to increase the set speed in large increments. Release the button when you reach the speed you prefer.

SET- Press and release the toggle button downward to decrease the set speed in small increments.

Press and hold the toggle button downward to decrease the set speed in large increments. Release the button when you reach the speed you prefer.

Press the accelerator or brake pedal until you reach the speed you prefer. Press the toggle button upward or downward to select the current speed as the set speed.

The system may apply the brakes to slow the vehicle to the new set speed. The set speed displays continuously in the information display when the system is active.

SETTING THE ADAPTIVE CRUISE CONTROL GAP

Press the button to cycle through the four gap settings.

The selected gap appears in the instrument cluster display as shown by the bars in the image.

Note: *The gap setting is time dependent and therefore, the distance adjusts with your vehicle speed.*

Note: *It is your responsibility to select a gap appropriate to the driving conditions.*

Adaptive Cruise Control Gap Settings

Graphic Display, Bars Indicated Between Vehicles	Gap Distance	Dynamic Behavior
1	Closest.	Sport.
2	Close.	Normal.
3	Medium.	Normal.
4	Far.	Comfort.

Each time you switch the system on, it selects the last chosen gap setting.

Following a Vehicle

When a vehicle ahead of you enters the same lane or a slower vehicle is ahead in the same lane, the vehicle speed adjusts to maintain the gap setting.

Note: *When you are following a vehicle and you switch on a turn signal lamp, adaptive cruise control may provide a small, temporary acceleration to help you pass.*

Your vehicle maintains a consistent gap from the vehicle ahead until:

- The vehicle in front of you accelerates to a speed above the set speed.
- The vehicle in front of you moves out of the lane you are in.
- You set a new gap distance.

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The system applies the brakes to slow down your vehicle to maintain a safe gap distance from the vehicle in front of you. The system only applies limited braking. You can override the system by applying the brakes.

Note: *The brakes may emit noise when applied by the system.*

If the system determines that its maximum braking level is not sufficient, an audible warning sounds, a message appears in the instrument cluster display and an indicator flashes when the system continues to brake. Take immediate action.

CANCELING THE SET SPEED

CAN Press the button, or tap the brake pedal.

The last set speed displays with a strikethrough and the last gap setting appears but does not erase.

Note: *The set speed also cancels if you press the clutch pedal for an extended period.*

RESUMING THE SET SPEED

RES Press the button.

Your vehicle speed returns to the previously set speed and gap setting. The set speed displays continuously in the information display when the system is active.

Note: *Only use resume if you are aware of the set speed and intend to return to it.*

OVERRIDING THE SET SPEED

WARNING: If you override the system by pressing the accelerator pedal, it does not automatically apply the brakes to maintain a gap from any vehicle ahead.

When you press the accelerator pedal, you override the set speed and gap distance.

Use the accelerator pedal to intentionally exceed the set speed limit.

When you override the system, the green indicator illuminates and the vehicle icon does not appear in the instrument cluster display.

The system resumes operation when you release the accelerator pedal. The vehicle speed decreases to the set speed, or a lower speed if following a slower vehicle.

ADAPTIVE CRUISE CONTROL INDICATORS

Illuminates when you switch adaptive cruise control on. The color of the indicator changes to indicate the system status.

White indicates the system is on but inactive.

Green indicates that you set the speed and the system is active.

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SWITCHING FROM ADAPTIVE CRUISE CONTROL TO CRUISE CONTROL

WARNING: Normal cruise control will not brake when your vehicle is approaching slower vehicles. Always be aware of which mode you have selected and apply the brakes when necessary.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Cruise Control***.
4. Select ***Mode***.
5. Select a setting and press the ***OK*** button.

The cruise control indicator replaces the adaptive cruise control indicator if you select normal cruise control. The gap setting does not display, and the system does not respond to lead vehicles. Automatic braking remains active to maintain the set speed. The system remembers the last setting when you start your vehicle.

INTELLIGENT ADAPTIVE CRUISE CONTROL

HOW DOES INTELLIGENT ADAPTIVE CRUISE CONTROL WORK

Intelligent adaptive cruise control combines speed sign recognition with adaptive cruise control to adjust the cruise set speed to the speed limit detected by the speed sign recognition system. As the system detects new speed signs, the set speed updates.

There are limitations that affect the accuracy of the speed sign recognition system and its ability to determine the current speed limit. The intelligent adaptive cruise control system and its ability to determine the current speed limit shares these limitations. See **Speed Sign Recognition** (page 320).

Note: *The adaptive cruise control gap setting operates normally.*

INTELLIGENT ADAPTIVE CRUISE CONTROL PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

INTELLIGENT ADAPTIVE CRUISE CONTROL LIMITATIONS

The speed limit information provided by the navigation map data could be inaccurate or out of date.

The system may not detect and read speed limit signs with conditional information, for example, when a sign is flashing, during specific time ranges, or when children are present.

Note: *The system does not set the vehicle speed to speed limits shown with a supplementary traffic sign.*

Under certain conditions, the system may not adjust the vehicle speed until after your vehicle passes the speed limit.

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SWITCHING INTELLIGENT MODE ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Cruise Control***.
4. Select ***Mode***.
5. Select a setting and press the ***OK*** button.

ADJUSTING THE SET SPEED TOLERANCE

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Cruise Control***.
4. Select ***Tolerance***.
5. Select a setting and press the ***OK*** button.

INTELLIGENT ADAPTIVE CRUISE CONTROL ALERTS

If the speed sign recognition system detects a speed limit below the minimum adaptive cruise control set speed, a tone sounds and the system returns to standby mode.

INTELLIGENT ADAPTIVE CRUISE CONTROL INDICATORS

If you select this mode, a bracket appears around the set speed and the detected speed limit sign in the instrument cluster display.

ADAPTIVE CRUISE CONTROL – TROUBLESHOOTING

ADAPTIVE CRUISE CONTROL – INFORMATION MESSAGES - VEHICLES WITH: ADAPTIVE CRUISE CONTROL

Note: *Depending on your vehicle options and instrument cluster type, not all messages display or are available.*

Note: *The system could abbreviate or shorten certain messages depending upon which cluster type you have.*

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Message	Action
Adaptive Cruise Not Available Sensor Blocked See Manual	Displays when the sensor has reduced visibility.
Adaptive Cruise Not Available	Displays when the system is not available.
Adaptive Cruise Malfunction	The system has malfunctioned. Have your vehicle checked as soon as possible.
Normal Cruise Active Adaptive Braking Off	You have switched normal cruise control on. Adaptive braking turns off.

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ADAPTIVE CRUISE CONTROL – INFORMATION MESSAGES - VEHICLES WITH: INTELLIGENT ADAPTIVE CRUISE CONTROL

Message	Action
Adaptive Cruise Control Speed Sign Recognition Not Available	Navigation system based speed limit information is not available. If the message continues to appear, have your vehicle checked as soon as possible.

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WHAT IS DRIVE MODE CONTROL

Your vehicle has various drive modes that you can select for different driving conditions. Depending on the drive mode that you select, the system adjusts various vehicle settings.

SELECTING A DRIVE MODE - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

Repeatedly press the button on the instrument panel to scroll through the available drive modes. Release the button to confirm your selected drive mode.

SELECTING A DRIVE MODE - VEHICLES WITH: SYNC 4

1. Press ***Features*** on the touchscreen.
2. Press ***DRIVE MODES***.
3. Select a setting.

You can press the button on the instrument panel to directly access the drive modes on the touchscreen.

DRIVE MODES - 3.5L DURATEC/3.5L ECOBOOST™

ECO

Vehicle settings suited for economical driving.

MUD/RUTS

Vehicle settings suited for driving through mud and ruts.

Note: *Auto-start-stop is disabled when you select this mode.*

NORMAL

Vehicle settings suited for balanced driving.

Note: *This is the default mode each time you switch the ignition on.*

SLIPPERY

Vehicle settings suited for driving on slippery roads.

TOW/HAUL

Vehicle settings suited for towing or hauling.

DRIVE MODES - ELECTRIC MOTOR

ECO

Vehicle settings suited for economical driving.

Note: *The system remembers the last setting when you start your vehicle.*

NORMAL

Vehicle settings suited for balanced driving.

Note: *The system remembers the last setting when you start your vehicle.*

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SLIPPERY

Vehicle settings suited for driving on slippery roads.

Note: *If you switch off your vehicle in* ***Slippery*** *mode, the system prompts you to return to this mode when you next start your vehicle. If you ignore the selection prompt, the system defaults to* ***Normal*** *mode.*

DRIVE MODE CONTROL – TROUBLESHOOTING

DRIVE MODE CONTROL – INFORMATION MESSAGES

Message	Description
Drive Mode Not Available	The system is not available. If it is still not available the next time you switch the ignition on, the system has malfunctioned. Have your vehicle checked as soon as possible.

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WHAT IS ECO COACH

Eco coach is designed to monitor certain driving characteristics to help you drive more efficiently.

HOW DOES ECO COACH WORK

Eco coach provides feedback through the instrument cluster display about your driving behaviour.

Note: *The efficiency levels do not result in a defined fuel consumption figure.*

Note: *The system only indicates the efficiency level for the current trip. The system resets each time you switch the ignition on.*

HOW DOES INSTANTANEOUS EFFICIENCY LEVEL WORK

The display ring increases as the instantaneous efficiency level increases and illuminates when it reaches maximum efficiency. The level continuously updates to indicate the efficiency level for the current trip.

VIEWING THE INSTANTANEOUS EFFICIENCY LEVEL

1. Using the information display controls on the steering wheel, select ***MyView***.
2. Select ***Eco Coach***.

HOW DOES TRIP SUMMARY WORK

The calculated trip summary is shown as four colored bars. The bars travel from left to right as the calculated efficiency levels increase. The bars indicate the average efficiency level for acceleration, deceleration, speed and gear shifting during the total distance traveled by your vehicle for the current trip.

Note: *Vehicles with an automatic transmission do not have a bar for gear shifting.*

VIEWING THE TRIP SUMMARY

1. Using the information display controls on the steering wheel, select ***MyView***.
2. Select ***Eco Coach***.

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HOW DOES THE SPEED LIMITER WORK

The system allows you to set a speed to which your vehicle becomes limited. The set speed sets the effective maximum speed of your vehicle. You can temporarily exceed the set speed if required, for example to overtake.

The controls are on the steering wheel.

SPEED LIMITER PRECAUTIONS

WARNING: When you are going downhill, your vehicle speed could increase above the set speed. The system does not apply the brakes.

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

SWITCHING THE SPEED LIMITER ON AND OFF

LIM

Press to set the system in standby mode. Press again to switch the system off.

SETTING THE SPEED LIMIT

SET+ SET-

Press the toggle button upward or downward with the system in standby mode to set the speed limiter to the current vehicle speed. The set speed is stored and displayed in the instrument cluster display.

CHANGING THE SET SPEED LIMIT

SET+ SET-

You can adjust the set speed in small or large increments. Press the toggle button upward or downward once to adjust the set speed in small increments. Press and hold the toggle button upward or downward to adjust the set speed in large increments.

CANCELING THE SET SPEED LIMIT

CAN

Press to cancel the set speed limiter. The system returns to standby mode.

Note: *The system does not limit the vehicle speed in standby mode.*

RESUMING THE SET SPEED LIMIT

RES

Press to resume the set speed limiter.

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INTENTIONALLY EXCEEDING THE SET SPEED LIMIT

Firmly press the accelerator pedal to temporarily exceed the set speed limit. The system resumes when the vehicle speed drops below the set speed limit, or when you press the ***RES*** button.

If you intentionally exceed the set speed, a warning appears in the instrument cluster display.

SPEED LIMITER INDICATORS

LIM It illuminates in the instrument cluster display when you switch the system on.

It illuminates grey if the system is in standby mode.

SPEED LIMITER AUDIBLE WARNINGS

If you unintentionally exceed the set speed, for example when you are going downhill, a warning appears in the instrument cluster display and a tone sounds.

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WHAT IS THE INTELLIGENT SPEED LIMITER

Intelligent speed limter is a driving aid that limits the vehicle speed to the maximum speed limit detected by the speed sign recognition system.

HOW DOES THE INTELLIGENT SPEED LIMITER WORK

The system allows you to limit the vehicle speed to the maximum speed limit detected by the speed sign recognition system. For example, if the speed sign recognition system detects a 50 mph (80 km/h) speed limit, the vehicle speed is limited to 50 mph (80 km/h). You can temporarily exceed the set speed if required, for example to overtake.

The controls are on the steering wheel.

A warning appears in the instrument cluster display if any of the following occur:

- The vehicle speed exceeds the current set speed.
- The system detects a maximum speed limit that is lower than the current vehicle speed.
- You intentionally exceed the set speed.
- You unintentionally exceed the set speed, for example when you are going downhill.

Note: *The system does not limit the vehicle speed to speed limits shown with a supplementary traffic sign in the instrument cluster display.*

INTELLIGENT SPEED LIMITER PRECAUTIONS

WARNING: When you are going downhill, your vehicle speed could increase above the set speed. The system does not apply the brakes.

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

SWITCHING THE INTELLIGENT SPEED LIMITER ON AND OFF - VEHICLES WITHOUT: LANE CENTERING

LIM

Press to set the system in standby mode. The system prompts you to set a speed or show the detected speed limit as the set speed. Press again to switch the system off.

Note: *The system does not limit the vehicle speed in standby mode.*

SWITCHING THE INTELLIGENT SPEED LIMITER ON AND OFF - VEHICLES WITH: LANE CENTERING

LIM

Press to set the system to standby mode. The system prompts you to set a speed or shows the detected speed limit as the set speed. Press again with the system in standby mode to switch the system off.

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Note: *The system does not limit the vehicle speed in standby mode.*

SETTING THE SPEED LIMIT

SET+ SET- Press the toggle button upward or downward with the system in standby mode to set the speed limiter to the current vehicle speed. The set speed is stored and displayed in the instrument cluster display.

Note: *The set speed limiter adjusts when the system detects a different maximum speed limit.*

Note: *If the system cannot detect a maximum speed limit, the system returns to standby mode.*

CHANGING THE SET SPEED LIMIT

SET+ SET- You can adjust the set speed in small or large increments. Press the toggle button upward or downward once to adjust the set speed in small increments. Press and hold the toggle button upward or downward to adjust the set speed in large increments.

ADJUSTING THE SPEED LIMIT TOLERANCE

You can set a permanent speed tolerance that is in addition to the detected speed limit.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Speed Limiter***.
4. Select ***Intelligent***.
5. Select ***Tolerance***.
6. Select a setting and press the ***OK*** button.

CANCELING THE SET SPEED LIMIT - VEHICLES WITHOUT: LANE CENTERING

CAN Press to cancel the set speed limiter. The system returns to standby mode.

Note: *The system does not limit the vehicle speed in standby mode.*

CANCELING THE SET SPEED LIMIT - VEHICLES WITH: LANE CENTERING

LIM Press to cancel the set speed limiter. The system returns to standby mode.

Note: *The system does not limit the vehicle speed in standby mode.*

RESUMING THE SET SPEED LIMIT

RES Press to resume the set speed limiter. The system sets the speed limiter to the detected maximum speed limit at the time it resumes.

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INTENTIONALLY EXCEEDING THE SET SPEED LIMIT

Firmly press the accelerator pedal to temporarily exceed the set speed limit. The system resumes when the vehicle speed drops below the set speed limit, or when you press the ***RES*** button.

If you intentionally exceed the set speed, a warning appears in the instrument cluster display.

INTELLIGENT SPEED LIMITER INDICATORS

LIM It illuminates in the instrument cluster display when you switch the system on.

It illuminates grey if the system is in standby mode.

INTELLIGENT SPEED LIMITER AUDIBLE WARNINGS

A tone sounds if:

- You unintentionally exceed the set speed, for example when you are going downhill.
- You continue to exceed the set speed.
- The speed sign recognition system detects a speed limit outside the operational speed range, a tone sounds and the system returns to standby mode.

SWITCHING FROM INTELLIGENT SPEED LIMITER TO SPEED LIMITER

You can change between intelligent speed limiter and normal speed limiter using the instrument cluster display. Intelligent speed limiter allows you to limit the vehicle speed to the maximum speed limit detected by the speed sign recognition system. Normal speed limiter allows you to manually limit the vehicle speed using controls on the steering wheel.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Speed Limiter***.
4. Switch ***Intelligent*** off.

Note: *If you switch intelligent speed limiter off, the system defaults to manual speed limiter. You can manually set the speed limiter using the controls on the steering wheel.*

INTELLIGENT SPEED LIMITER – TROUBLESHOOTING

INTELLIGENT SPEED LIMITER – FREQUENTLY ASKED QUESTIONS

Why does a warning appear in the instrument cluster display?

- The vehicle speed exceeds the current set speed.
- The system detects a maximum speed limit that is lower than the current vehicle speed.
- You intentionally exceed the set speed.

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WHAT IS THE LANE KEEPING SYSTEM

The lane keeping system is a driving aid designed to provide termporary steering assistance or steering wheel vibration when it detects an unintended lane departure.

HOW DOES THE LANE KEEPING SYSTEM WORK

The system is designed to alert you by providing temporary steering assistance or steering wheel vibration when it detects an unintended lane departure. The system detects and tracks the road lane markings using a camera mounted behind the interior mirror. When you switch the system on, a graphic of lane markings appears in the instrument cluster display.

Note: *The system works when the camera can detect at least one lane marking.*

LANE KEEPING SYSTEM PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: The system may not function if the sensor is blocked.

WARNING: The sensor may incorrectly track lane markings as other structures or objects. This can result in a false or missed warning.

WARNING: In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.

WARNING: Large contrasts in outside lighting can limit sensor performance.

WARNING: The system will not operate if the sensor cannot track the road lane markings.

WARNING: If damage occurs in the immediate area surrounding the sensor, have your vehicle checked as soon as possible.

WARNING: The system may not correctly operate if your vehicle is fitted with a suspension kit not approved by us.

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LANE KEEPING SYSTEM LIMITATIONS

The system only operates when the vehicle speed is greater than approximately 40 mph (65 km/h).

The system may not correctly operate in any of the following conditions:

- The system does not detect at least one lane marking.
- You switch the direction indicator on.
- You apply direct steering, accelerate fast or brake hard.
- The vehicle speed is less than 40 mph (65 km/h).
- The anti-lock brake, stability control or traction control system activates.
- Narrow lane width.

The system may not correct lane positioning in any of the following conditions:

- High winds.
- Uneven road surfaces.
- Heavy or uneven loads.
- Incorrect tire pressure.

SWITCHING THE LANE KEEPING SYSTEM ON AND OFF

E270719

Press the button on the turn signal stalk.

SWITCHING THE LANE KEEPING SYSTEM MODE

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Lane Keeping System***.
4. Select ***Mode***.
5. Select a setting and press the ***OK*** button.

LANE KEEPING SYSTEM SETTINGS

You can select one of the three modes in the instrument cluster display:

- Alert mode.
- Aid mode.
- Alert and aid mode.

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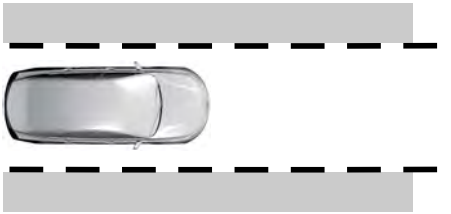
Note: *The system remembers the last mode when you start your vehicle. If the system detects a MyKey, the mode is set to alert.*

ALERT MODE

WHAT IS ALERT MODE

Alert mode provides steering wheel vibration when it detects an unintended lane departure.

HOW DOES ALERT MODE WORK



When in alert mode, the lane keeping system alerts you by vibrating the steering wheel if it detects an unintended lane departure.

ADJUSTING THE STEERING WHEEL VIBRATION INTENSITY

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Lane Keeping System***.
4. Select ***Intensity***.
5. Select a setting and press the ***OK*** button.

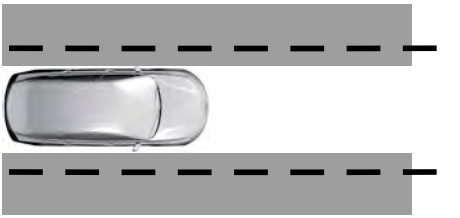
Note: *This setting does not affect the aid mode.*

AID MODE

WHAT IS AID MODE

Aid mode provides temporary steering assistance toward the center of the lane.

HOW DOES AID MODE WORK



The lane keeping system aids you when an unintentional lane departure occurs. The system provides a small steering input to move your vehicle towards the center of the lane.

Note: *When aid mode is on and the system does not detect any steering activity for a short period of time, for example lightly holding the steering wheel, the system alerts you to put your hands on the steering wheel.*

Note: *The aid mode becomes active again after you have returned your vehicle to the center of the lane.*

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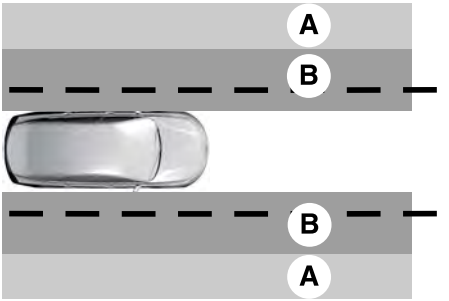
ALERT AND AID MODE

WHAT IS ALERT AND AID MODE

Alert and aid mode combines both, alert mode and aid mode.

HOW DOES ALERT AND AID MODE WORK

Alert and aid mode provides temporary steering assistance toward the lane center when the system detects an unintended lane departure. If your vehicle continues drifting out of the lane, the steering wheel vibrates.



A Alert.

B Aid.

Note: *The diagram illustrates general zone coverage. It does not provide exact zone parameters.*

LANE KEEPING SYSTEM INDICATORS

It illuminates in the instrument cluster display when you switch the system on and aid mode or alert and aid mode are selected.

It illuminates in the instrument cluster display when you switch the system on and alert mode is selected.

BLIND SPOT ASSIST - VEHICLES WITH: BLIND SPOT INFORMATION SYSTEM, VEHICLES WITHOUT: TRAILER TOW

WHAT IS BLIND SPOT ASSIST

Blind spot assist is an extension of the lane keeping system that provides a blind spot warning and steering assistance during lane changes if it detects adjacent vehicles.

HOW DOES BLIND SPOT ASSIST WORK

E270719

Activate and deactivate the system using the lane keeping system button on the turn signal stalk.

During lane changes, the design of the blind spot assist detects vehicles in, or approaching, your blind spot and provides a warning, plus steering assistance to direct your vehicle back into your lane.

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When active, this system functions with or without the use of turn signals and hazard flashers.

You must keep your hands on the steering wheel at all times.

BLIND SPOT ASSIST LIMITATIONS

All system limitations present in the basic lane keeping system also apply to blind spot assist.

Blind spot assist does not function under the following conditions:

- When none or only one of the two lane markings are detected.
- One or both rear radar sensors become blocked or faulty.
- A trailer is attached to your vehicle.

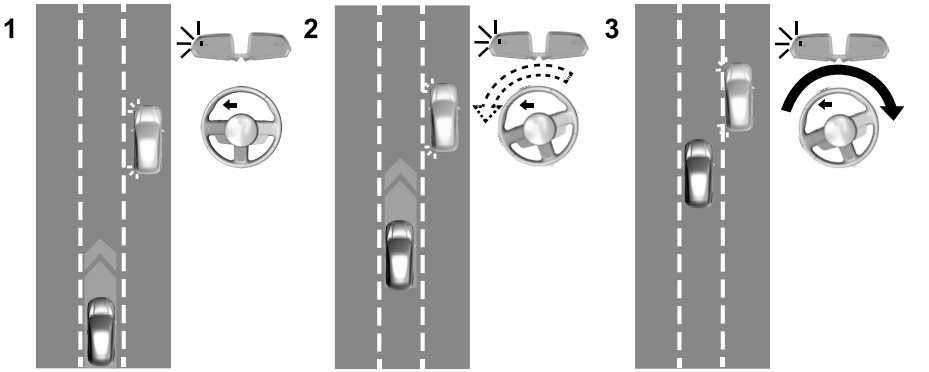
Note: *Bike carriers and cargo racks could cause false alerts due to obstruction of the sensor. We recommend switching the feature off when using a bike carrier or a cargo rack.*

Note: *The system does not recognize the trailer, if you attach a trailer without electrical connectors. We recommend to switch off blind spot assist if you attach a trailer without electrical connectors.*

Blind spot assist could have difficulty detecting hazards under the following conditions:

- If a vehicle is approaching in an adjacent lane at a relative speed much higher than your vehicle.
- Bad weather conditions are present that obstruct the sensors.

BLIND SPOT ASSIST INDICATORS



The lane keeping aid warning lamp or yellow lane marking in your instrument cluster indicate blind spot assist activation. In addition, the blind spot information system alert indicator flashes on the exterior mirror on the same side as the detection. For more information See **Blind Spot Information System** (page 304).

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Blind Spot Assist Information Messages

Message	Details
Blind Spot Assist Not Available Trailer Attached	Displays if you attach a trailer to your vehicle.
Blind Spot Assist Not Available Side Sensor Blocked	Displays if the blind spot information system sensors are blocked.
Blind Spot Assist System fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.

For more information See **Blind Spot Information System** (page 304).

BLIND SPOT ASSIST WITH TRAILER COVERAGE - VEHICLES WITH: BLIND SPOT INFORMATION SYSTEM/ TRAILER TOW

WHAT IS BLIND SPOT ASSIST WITH TRAILER COVERAGE

Blind spot assist with trailer coverage is an extension of the lane keeping system that provides a blind spot warning and steering assistance during lane changes if it detects adjacent vehicles.

Note: *When attaching a trailer you must configure it so the system can recognize it. See **Blind Spot Information System With Trailer Coverage** (page 306).*

HOW DOES BLIND SPOT ASSIST WITH TRAILER COVERAGE WORK

E270719

Activate and deactivate the system using the lane keeping system button on the turn signal stalk.

During lane changes, the design of the blind spot assist with trailer coverage detects vehicles in, or approaching, your blind spot and provides a warning, plus steering assistance to direct your vehicle back into your lane.

When active, this system functions with or without the use of turn signals and hazard flashers.

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You must keep your hands on the steering wheel at all times.

BLIND SPOT ASSIST WITH TRAILER COVERAGE LIMITATIONS

All system limitations present in the basic lane keeping system also apply to blind spot assist with trailer coverage.

Blind spot assist with trailer coverage does not function under the following conditions:

- When none or only one of the two lane markings are detected.
- One or both rear radar sensors become blocked or faulty.
- The attached trailer is not correctly configured or it is not supported by the system. See **Blind Spot Information System With Trailer Coverage** (page 306).

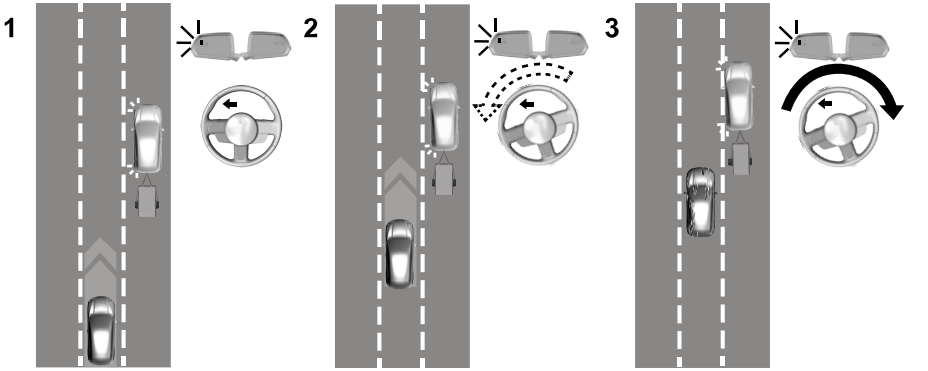
Note: *Blind spot assist with trailer coverage could have reduced performance if you attach a trailer to your vehicle.*

Note: *The system does not recognize the trailer, if you attach a trailer without electrical connectors. We recommend to switch off blind spot assist with trailer coverage if you attach a trailer without electrical connectors.*

Blind spot assist with trailer coverage could have difficulty detecting hazards under the following conditions:

- If a vehicle is approaching in an adjacent lane at a relative speed much higher than your vehicle.
- Bad weather conditions are present that obstruct the sensors.
- Attaching bike carriers or cargo racks could cause false alerts due to obstruction of the sensor.

BLIND SPOT ASSIST WITH TRAILER COVERAGE INDICATORS



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The lane keeping aid warning lamp or yellow lane marking in your instrument cluster indicate blind spot assist with trailer coverage activation. In addition, the blind spot information system alert indicator flashes on the exterior mirror on the same side as the detection. For more information See **Blind Spot Information System** (page 304).

Blind Spot Assist with Trailer Coverage Information Messages

Message	Details
Blind Spot Assist Not Available Trailer Attached	Displays if you attach a trailer wider than 7.9 ft (2.4 m), and the total length from the trailer hitch to the rear of the trailer is longer than 33 ft (10 m) to your vehicle. See **Blind Spot Information System With Trailer Coverage** (page 306).
Blind Spot Assist Not Available Side Sensor Blocked	Displays if the blind spot information system sensors are blocked.
Blind Spot Assist System fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.

For more information See **Blind Spot Information System** (page 304).

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LANE KEEPING SYSTEM – TROUBLESHOOTING

LANE KEEPING SYSTEM – INFORMATION MESSAGES

Message	Details
Lane Keeping Sys. Malfunction Service Required	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
Front Camera Temporarily Not Available	The system has detected a condition that has caused the system to be temporarily unavailable.
Front Camera Low Visibility Clean Screen	The system has detected a condition that requires you to clean the windshield in order for it to operate properly.
Front Camera Malfunction Service Required	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
Keep Hands on Steering Wheel	The system requests that you keep your hands on the steering wheel.

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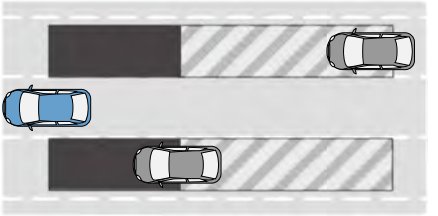
WHAT IS BLIND SPOT INFORMATION SYSTEM

Blind spot information system is designed to detect vehicles that may have entered the blind spot zone.

HOW DOES BLIND SPOT INFORMATION SYSTEM WORK

The system is designed to detect vehicles that may have entered the blind spot zone. The detection area is on both sides of your vehicle, extending rearward from the exterior mirrors to approximately 13 ft (4 m) beyond the rear bumper. The detection area extends to approximately 59 ft (18 m) beyond the rear bumper when the vehicle speed is greater than 30 mph (48 km/h) to alert you of faster approaching vehicles.



BLIND SPOT INFORMATION SYSTEM PRECAUTIONS

WARNING: Do not use the blind spot information system as a replacement for using the interior and exterior mirrors or looking over your shoulder before changing lanes. The blind spot information system is not a replacement for careful driving.

WARNING: The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.

BLIND SPOT INFORMATION SYSTEM LIMITATIONS

The system does not operate in park (P) or reverse (R).

Note: *The system does not prevent contact with other vehicles. It is not designed to detect parked vehicles, pedestrians, animals or other infrastructures.*

Note: *The system could not alert you if a vehicle quickly passes through the detection zone.*

Note: *Blocked sensors could affect system performance.*

Note: *The system may not correctly operate when towing a trailer. For vehicles with a trailer tow module and tow bar approved by us, the system turns off when you attach a trailer. For vehicles with an aftermarket trailer tow module or tow bar, we recommend that you switch the system off when you attach a trailer.*

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BLIND SPOT INFORMATION SYSTEM REQUIREMENTS

The system turns on when all of the following occur:

- You start your vehicle.
- You shift into drive (D).
- The vehicle speed is greater than 6 mph (10 km/h).

Note: *The system does not operate in park (P) or reverse (R).*

SWITCHING BLIND SPOT INFORMATION SYSTEM ON AND OFF

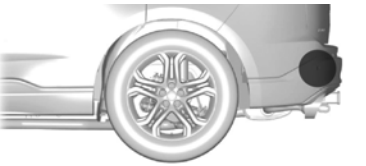
1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Switch ***Blind Spot*** on or off.

If you switch the system off, a warning lamp illuminates and a message displays. When you switch the system on or off, the alert indicators flash twice.

Note: *The system remembers the last setting when you start your vehicle.*

To permanently switch the system off, contact an authorized dealer.

LOCATING THE BLIND SPOT INFORMATION SYSTEM SENSORS



The sensors are behind the rear bumper on both sides of your vehicle.

Note: *Keep the sensors free from snow, ice and large accumulations of dirt.*

Note: *Do not cover the sensors with bumper stickers, repair compound or other objects.*

Note: *Blocked sensors could affect system performance.*

If the sensors are blocked, a message may appear in the instrument cluster display. The alert indicators remain illuminated but the system does not alert you.

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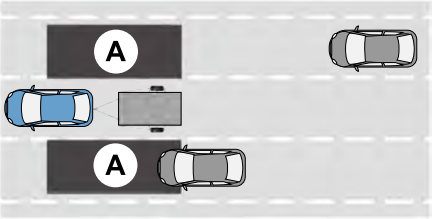
BLIND SPOT INFORMATION SYSTEM WITH TRAILER COVERAGE

WHAT IS BLIND SPOT INFORMATION SYSTEM WITH TRAILER COVERAGE



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The blind spot information system with trailer coverage is designed to detect vehicles that could have entered the blind spot zone.

HOW DOES BLIND SPOT INFORMATION SYSTEM WITH TRAILER COVERAGE WORK

The blind spot information system with trailer coverage is designed to detect vehicles that could have entered the blind spot zone. The detection area is on both sides of your vehicle and trailer, extending rearward from the exterior mirrors to the end of your trailer. When you attach a trailer and have set up a trailer, the blind spot information system with trailer tow becomes active when driving forward above 6 mph (10 km/h).

You can set up the trailer length, select a trailer or switch blind spot information system with trailer tow off.

Note: *The system remembers the last trailer setting when you start your vehicle.*

BLIND SPOT INFORMATION SYSTEM WITH TRAILER COVERAGE LIMITATIONS

Some trailers may cause a slight change in system performance:

- Wide box trailers, especially those wider than the towing vehicle, may cause false alerts to occur when driving next to infrastructure or near parked cars. A false alert may also occur while making a 90-degree turn or driving through a roundabout.
- Wide trailers that have a total length greater than 20 ft (6 m) may cause delayed alerts when a vehicle is passing at high speed.
- Box trailers that have a width greater than 7.9 ft (2.4 m) may cause early alerts when you pass a vehicle.
- Clam shell or V-Nose box trailers with a width greater than 7.9 ft (2.4 m) may cause delayed alerts when a vehicle traveling the same speed as your vehicle merges lanes.

SWITCHING BLIND SPOT INFORMATION SYSTEM WITH TRAILER COVERAGE ON AND OFF

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Blind Spot***.
4. Select ***Trailer***.
5. Select ***None***.
6. Press the ***OK*** button.

When you switch the system off, a warning lamp illuminates and the alert indicators flash twice.

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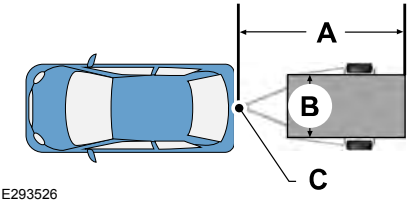
Note: *The system turns off and a message appears when a trailer is connected, but not set up or selected.*

SETTING A TRAILER LENGTH



A Trailer length.

B Trailer width.

C Trailer hitch.

The system operates only if the trailer front width is less than 7.9 ft (2.4 m), and the total length from the trailer hitch to the rear of the trailer is less than 33 ft (10 m).

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Blind Spot***.
4. Select ***Trailer Lengths***.
5. Select ***Trailer A***, ***Trailer B*** or ***Trailer C***.
6. Select the trailer length at the closest available value.

Note: *Proper measurement and measurement entry are required for the system to function as designed.*

7. Press the ***OK*** button.

Note: *If you attach load carriers such as bike racks or cargo racks with electrical lighting, enter a length of 3 ft (1 m). Cross Traffic Alert remains on.*

SELECTING A TRAILER

If you select a trailer in the instrument cluster display prior to connecting a trailer, the system loads that configuration and an information message appears in the instrument cluster display when you connect the trailer.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Blind Spot***.
4. Select ***Trailer***.
5. Select ***Trailer A***, ***Trailer B*** or ***Trailer C***.
6. Press the ***OK*** button.

BLIND SPOT INFORMATION SYSTEM INDICATORS

When the system detects a vehicle, an alert indicator illuminates in the exterior mirror on the side the approaching vehicle is coming from. If you turn the turn signals on for that side of your vehicle, the alert indicator flashes.

Note: *The system could not alert you if a vehicle quickly passes through the detection zone.*

BLIND SPOT INFORMATION SYSTEM – TROUBLESHOOTING

BLIND SPOT INFORMATION SYSTEM – WARNING LAMPS

If the system detects a fault, it illuminates in the instrument cluster and a message appears in the instrument cluster display. Have your vehicle checked as soon as possible.

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BLIND SPOT INFORMATION SYSTEM – INFORMATION MESSAGES

Message	Details
Blind Spot Not Available Sensor Blocked See Manual	Displays if the blind spot information system sensors are blocked.
Blis Deactivated Trailer Attached	Displays if you attach a trailer to your vehicle.
Blind Spot System Fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.

Note: *If you deactivate the blind spot information system but blind spot assist remains active the following messages are shown.*

Message	Details
Blind Spot Assist Not Available Trailer Attached	Displays if you attach a trailer to your vehicle.
Blind Spot Assist Not Available Side Sensor Blocked	Displays if the blind spot information system sensors are blocked.
Blind Spot Assist System fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.

For more information about blind spot assist See **Lane Keeping System** (page 295).

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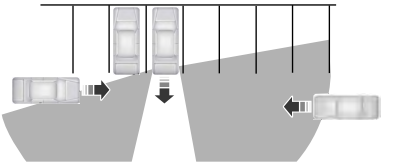
WHAT IS CROSS TRAFFIC ALERT

The system is designed to alert you of vehicles approaching from the sides behind your vehicle when you shift into reverse (R).

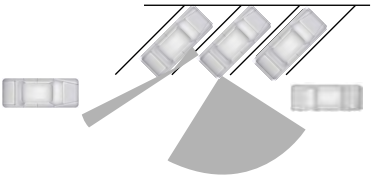
HOW DOES CROSS TRAFFIC ALERT WORK

The system is designed to detect vehicles that approach at a speed between 4 mph (6 km/h) and 37 mph (60 km/h). Coverage decreases when the sensors are partially, mostly or fully obstructed. Slowly reversing helps increase the coverage area and effectiveness.

The system turns on when you start the engine and you shift into reverse (R). The system turns off when you shift out of reverse (R).



The sensor on the left-hand side is only partially obstructed and zone coverage on the right-hand side is maximized.



Zone coverage also decreases when parking at narrow angles. The sensor on the left-hand side is mostly obstructed and zone coverage on that side is severely reduced.

CROSS TRAFFIC ALERT PRECAUTIONS

WARNING: Do not use the cross traffic alert system as a replacement for using the interior and exterior mirrors or looking over your shoulder before reversing out of a parking space. The cross traffic alert system is not a replacement for careful driving.

WARNING: The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.

CROSS TRAFFIC ALERT LIMITATIONS

The system may not correctly operate when any of the following occur:

- The sensors are blocked.
- Adjacently parked vehicles or objects are obstructing the sensors.
- Vehicles approach at speeds less than 4 mph (6 km/h) or greater than 37 mph (60 km/h).
- The vehicle speed is greater than 7 mph (12 km/h).
- You reverse out of an angled parking space.

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Note: *The system may not correctly operate when towing a trailer. For vehicles with a trailer tow module and tow bar approved by us, the system turns off when you attach a trailer. For vehicles with an aftermarket trailer tow module or tow bar, we recommend that you switch the system off when you attach a trailer.*

SWITCHING CROSS TRAFFIC ALERT ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Switch ***Cross Traffic Alert*** on or off.

Note: *If you temporarily switch the system off, it turns on the next time you switch the ignition on.*

To permanently switch the system off, contact an authorized dealer.

LOCATING THE CROSS TRAFFIC ALERT SENSORS

The sensors are behind the rear bumper on both sides of your vehicle.

Note: *Keep the sensors free from snow, ice and large accumulations of dirt.*

Note: *Do not cover the sensors with bumper stickers, repair compound or other objects.*

Note: *Blocked sensors could affect system performance.*

If the sensors are blocked, a message may appear in the instrument cluster display when you shift into reverse (R).

CROSS TRAFFIC ALERT WITH TRAILER COVERAGE

WHAT IS CROSS TRAFFIC ALERT WITH TRAILER COVERAGE

Cross traffic alert with trailer coverage allows the system to continue operating with a trailer or trailer hitch attachment.

CROSS TRAFFIC ALERT WITH TRAILER COVERAGE LIMITATIONS

Cross traffic alert remains on when you attach a trailer in vehicles that come with blind spot information system with trailer coverage under the following conditions:

- You connect a trailer.
- The trailer is a bike rack or cargo rack with a maximum length of 3 ft (1 m).
- You set the trailer length to 3 ft (1 m) in the center display.

Note: *The system may not correctly operate when towing a trailer. For vehicles with an approved trailer tow module and tow bar, the system turns off when you attach a trailer. For vehicles with an aftermarket trailer tow module or tow bar, we recommend that you switch the system off when you attach a trailer.*

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CROSS TRAFFIC ALERT INDICATORS

When the system detects an approaching vehicle a tone sounds, an indicator illuminates in the relevant exterior mirror and direction indicators appear in the center display to show which side the approaching vehicle is coming from.

Note: *If the direction indicators do not display, a message appears in the instrument cluster display.*

Note: *In exceptional conditions, the system could alert you even when there is nothing in the detection zone, for example a vehicle passing further away from your vehicle.*

CROSS TRAFFIC ALERT – TROUBLESHOOTING

CROSS TRAFFIC ALERT – WARNING LAMPS

If the system malfunctions, it illuminates in the instrument cluster and a message appears in the instrument cluster display. Have your vehicle checked as soon as possible.

CROSS TRAFFIC ALERT – INFORMATION MESSAGES

Message	Details
Cross Traffic Alert	Displays instead of direction indicators when the system detects a vehicle. Check for approaching traffic.
Cross Traffic Not Available Sensor Blocked See Manual	Displays if the cross traffic alert system sensors are blocked. Clean the sensors. If the message continues to appear, have your vehicle checked as soon as possible.
Cross Traffic System Fault	The system has malfunctioned. Have your vehicle checked as soon as possible.
Cross Traffic Alert Deactivated Trailer Attached	Displays if you attach a trailer to your vehicle.

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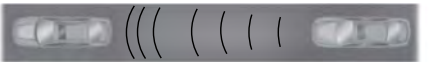
WHAT IS PRE-COLLISION ASSIST

Pre-collision assist detects vehicles, cyclists or pedestrians in the road ahead of you, or who could cross the vehicle's path, and warns you of their presence. If you do not respond, the system automatically applies the brakes.

HOW DOES PRE-COLLISION ASSIST WORK

The pre-collision assist system is active when your vehicle reaches a speed greater than approximately 6 mph (10 km/h). Pedestrian and cyclist detection is active at speeds up to 50 mph (80 km/h).



If your vehicle is rapidly approaching another stationary vehicle, a vehicle traveling in the same direction as yours, a pedestrian or a cyclist within your driving path, the system is designed to provide three levels of functionality.

Level of Functionality	Details
Alert	When activated, a warning lamp flashes and an audible warning sounds.
Brake support	The system is designed to help reduce the impact speed by preparing the brakes for rapid braking. The system does not automatically apply the brakes. If you press the brake pedal, the system could apply additional braking up to maximum braking force, even if you lightly press the brake pedal.
Automatic emergency braking - vehicles without adaptive cruise control	The system is designed to apply the brakes if it detects a crash is imminent. This may help reduce impact or avoid the crash. The system is active at speeds up to 80 mph (130 km/h).
Automatic emergency braking - vehicles with adaptive cruise control	The system is designed to apply the brakes if it detects a crash is imminent. This may help reduce impact or avoid the crash.

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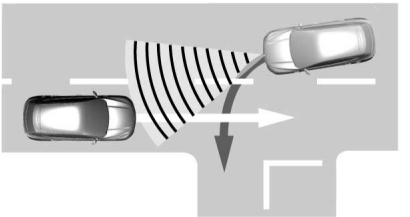
HOW DOES PRE-COLLISION ASSIST WITH INTERSECTION ASSIST WORK

The pre-collision assist system could apply brakes if you are turning across an oncoming vehicle's path. Detection of vehicles driving in an oncoming direction is active if your vehicle is driving at speeds up to 18.6 mph (30 km/h).



PRE-COLLISION ASSIST PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: The system does not operate during hard acceleration or steering. Failure to take care may lead to a crash or personal injury.

WARNING: The system may fail or operate with reduced function during cold and severe weather conditions. Snow, ice, rain, spray and fog can adversely affect the system. Keep the front camera and radar free of snow and ice. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

WARNING: The system may not operate properly if your vehicle has a non-Ford windshield. Do not carry out windshield repairs in the area around the sensor.

WARNING: System performance could be reduced in situations where the vehicle camera has limited detection capability. These situations include but are not limited to direct or low sunlight, vehicles at night without tail lights, unconventional vehicle types, pedestrians or cyclists with complex backgrounds, running pedestrians or fast moving cyclists, partly obscured pedestrians or cyclists, pedestrians or cyclists that the system cannot distinguish from a group. Failure to take care may result in the loss of control of your vehicle, personal injury or death.

WARNING: The Pre-Collision Assist system with brake support cannot help prevent all collisions. Do not rely on this system to replace your judgment and the need to maintain correct distance and speed.

PRE-COLLISION ASSIST LIMITATIONS

The system is not designed to detect animals.

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The system is not designed to detect vehicles that are traveling in a different direction.

LOCATING THE PRE-COLLISION ASSIST SENSORS - VEHICLES WITHOUT: ADAPTIVE CRUISE CONTROL

The camera is mounted behind the interior mirror.

Note: *Keep the sensors free from snow, ice and large accumulations of dirt.*

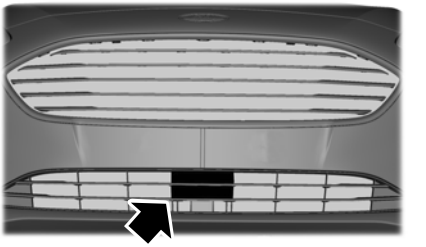
Note: *Do not clean the sensors with sharp objects.*

Note: *If your vehicle sustains damage leaving the sensors misaligned, this may cause inaccurate measurements or false alerts.*

Blocked sensors could affect system accuracy. A message could appear in the instrument cluster display.

LOCATING THE PRE-COLLISION ASSIST SENSORS - VEHICLES WITH: ADAPTIVE CRUISE CONTROL

The camera is mounted behind the interior mirror.



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The radar sensor is behind the front grille below the license plate.

Note: *Keep the sensors free from snow, ice and large accumulations of dirt.*

Note: *Do not clean the sensors with sharp objects.*

Note: *If your vehicle sustains damage leaving the sensors misaligned, this may cause inaccurate measurements or false alerts.*

Blocked sensors could affect system accuracy. A message could appear in the instrument cluster display.

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DISTANCE INDICATION

WHAT IS DISTANCE INDICATION

Distance indication displays in the instrument cluster display the time gap to vehicles ahead of you traveling in the same direction.

Note: *The graphic does not display if you switch on cruise control or adaptive cruise control.*

SWITCHING DISTANCE INDICATION ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Pre-Collision Assist***.
4. Switch ***Distance Indication*** on or off.

DISTANCE INDICATION INDICATOR

Vehicle Speed	System Sensitivity	Distance Indicator Color	Distance Gap	Time Gap
62 mph (100 km/h)	Normal.	Gray.	Greater than 82.0 ft (25 m) .	Greater than 0.9 seconds.
		Yellow.	55.8–82.0 ft (17–25 m).	0.6-0.9 seconds.
		Red.	Less than 55.8 ft (17 m).	Less than 0.6 seconds.

DISTANCE ALERT

WHAT IS DISTANCE ALERT

A warning lamp illuminates if the distance to the vehicle ahead is small.

Note: *The warning lamp does not illuminate if cruise control or adaptive cruise control is active.*

ADJUSTING THE SENSITIVITY OF DISTANCE ALERT

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Pre-Collision Assist***.
4. Select ***Alert Sensitivity***.
5. Select a setting and press the ***OK*** button.

AUTOMATIC EMERGENCY BRAKING

WHAT IS AUTOMATIC EMERGENCY BRAKING

Automatic emergency braking is an active safety system that activates the vehicle brakes when a potential crash is detected.

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SWITCHING AUTOMATIC EMERGENCY BRAKING ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Pre-Collision Assist***.
4. Switch ***Active Braking*** on or off.

PRE-COLLISION ASSIST – TROUBLESHOOTING

PRE-COLLISION ASSIST – WARNING LAMPS

It illuminates if your vehicle rapidly approaches another vehicle, to warn you of the risk of a crash with the vehicle in front of you.

It could illuminate red if the distance to the vehicle ahead is small.

It illuminates amber when you switch the system off or if the system is not available.

PRE-COLLISION ASSIST – INFORMATION MESSAGES

Message	Details
Pre-Collision Assist Not Available	The system has malfunctioned. Have your vehicle checked as soon as possible.
Pre-Collision Assist Not Available Sensor Blocked	The sensors are dirty. Clean the sensors. If the message continues to appear, have your vehicle checked as soon as possible.

The following table lists possible causes and actions for when a blocked sensor message could display.

Cause	Action
The surface of the radar in the radiator grille is dirty or obstructed.	Clean the radiator grille in front of the radar or remove any obstruction.
The surface of the radar is clean but the message remains in the display.	Wait for a short period of time. It may take several minutes for the system to detect that there is no obstruction.
Heavy rain, spray, snow, or fog is interfering with the radar signals.	The system is temporarily disabled. The system should reactivate after a short period of time when the weather conditions improve.
The radar is misaligned.	Have your vehicle checked as soon as possible.

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Cause	Action
The windshield in front of the camera is dirty or obstructed.	Clean the outside of the windshield in front of the camera.
The windshield in front of the camera is clean but the message remains in the display.	Wait for a short period of time. It may take several minutes for the camera to detect that there is no obstruction.
Excessive heat around the camera.	Wait for a short period of time. The message should clear when the temperature around the camera decreases.

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WHAT IS DRIVER ALERT

The system is designed to alert you if it calculates that you are becoming drowsy or if your driving deteriorates.

HOW DOES DRIVER ALERT WORK

The system calculates your alertness level based upon your driving behavior in relation to the lane markings and other factors when the vehicle speed is greater than approximately 40 mph (65 km/h).

The warning system has two stages:

1. A temporary warning is issued to advise you to take a rest. This message only appears for a short time.
2. If you do not rest and the system continues to detect that your driving deteriorates, it issues a further warning. This remains in the instrument cluster display until you cancel it.

DRIVER ALERT PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.

WARNING: Take regular rest breaks if you feel tired. Do not wait for the system to warn you.

WARNING: Certain driving styles may result in the system warning you even if you are not feeling tired.

WARNING: In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.

WARNING: The system will not operate if the sensor cannot track the road lane markings.

WARNING: If damage occurs in the immediate area surrounding the sensor, have your vehicle checked as soon as possible.

WARNING: The system may not correctly operate if your vehicle is fitted with a suspension kit not approved by us.

SWITCHING DRIVER ALERT ON AND OFF

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Switch ***Driver Alert*** on or off.

Note: *The system remains on or off depending on how it was last set.*

RESETTING DRIVER ALERT

You can reset driver alert by:

- Switching the ignition off and on when your vehicle is stationary.
- Opening and closing the driver door when your vehicle is stationary.

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DRIVER ALERT – TROUBLESHOOTING

DRIVER ALERT – INFORMATION MESSAGES

Message	Action
Driver Alert Warning Rest Suggested	Displays when we recommend that you take a break due to low alertness levels.
Driver Alert Warning Rest Now	Displays when you must take a break due to low alertness levels.

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WHAT IS SPEED SIGN RECOGNITION

The system is designed to detect speed limit signs to inform you of the current speed limit.

HOW DOES SPEED SIGN RECOGNITION WORK

Detected speed signs appear in the instrument cluster display. The sensor is behind the interior mirror.

The system turns on when you switch the ignition on and you cannot switch the system off.

Note: *Speed sign data provided by the navigation system contains information integrated to the data carrier release.*

SPEED SIGN RECOGNITION PRECAUTIONS

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.

Note: *Do not carry out windshield repairs in the immediate area surrounding the sensor.*

Note: *Always fit Ford approved parts when replacing headlamp bulbs. Other bulbs could reduce system performance.*

SPEED SIGN RECOGNITION LIMITATIONS

The system could not detect all speed signs and could incorrectly read signs.

In cold and severe weather conditions the system could not function. Rain, snow, spray and large contrasts in lighting can all prevent the sensor from correctly functioning.

If your vehicle has a suspension kit not approved by us, the system could not correctly function.

SPEED SIGN RECOGNITION INDICATORS

When the system detects a speed limit sign, the speed limit appears in the instrument cluster display.

Note: *If your vehicle has a navigation system, stored speed sign data could influence the indicated speed limit value.*

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SETTING THE SPEED SIGN RECOGNITION SPEED TOLERANCE

You can set the system speed warning to alert you when the vehicle speed exceeds the speed limit recognized by the system by a certain speed tolerance.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.
2. Select ***Driver Assistance***.
3. Select ***Traffic Sign Recognition***.
4. Select ***Activate TSR***.
5. Select ***Activate Speed Warning***.
6. Select ***Speed Warning***.
7. Select a setting and press the ***OK*** button.

Note: *The system remembers the last setting when you start your vehicle.*

SPEED SIGN RECOGNITION – TROUBLESHOOTING

SPEED SIGN RECOGNITION – INFORMATION MESSAGES

Message	Action
Traffic Sign Reduced Performance See Manual	The traffic sign data provided by the navigation system is unavailable due to weak or no signal. Wait for a short period of time for the signal to improve. If the message continues to appear, have your vehicle checked as soon as possible.

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LOAD CARRYING PRECAUTIONS

Keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle provides maximum return of vehicle design performance. Before you load your vehicle, become familiar with the following terms for determining your vehicle's weight rating, with or without a trailer, from the vehicle's Tire and Loading Information label or Safety Compliance Certification label.

WARNING: The appropriate loading capacity of your vehicle can be limited either by volume capacity (how much space is available) or by payload capacity (how much weight the vehicle should carry). Once you have reached the maximum payload of your vehicle, do not add more cargo, even if there is space available. Overloading or improperly loading your vehicle can contribute to loss of vehicle control and vehicle rollover.

WARNING: Exceeding the Safety Compliance Certification label vehicle weight limits can adversely affect the performance and handling of your vehicle, cause vehicle damage and can result in the loss of control of your vehicle, serious personal injury or death.

WARNING: Do not use replacement tires with lower load carrying capacities than the original tires because they may lower your vehicle's GVWR and GAWR limitations. Replacement tires with a higher limit than the original tires do not increase the GVWR and GAWR limitations.

WARNING: Do not exceed the GVWR or the GAWR specified on the certification label.

WARNING: Exceeding any vehicle weight rating can adversely affect the performance and handling of your vehicle, cause vehicle damage and can result in the loss of control of your vehicle, serious personal injury or death.

WARNING: When loading the roof racks, we recommend you evenly distribute the load, as well as maintain a low center of gravity. Loaded vehicles, with higher centers of gravity, may

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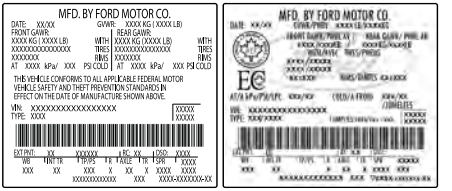
handle differently than unloaded vehicles. Take extra precautions, such as slower speeds and increased stopping distance, when driving a heavily loaded vehicle.

The gross combined weight must never exceed the Gross Combined Weight Rating.

LOCATING THE SAFETY COMPLIANCE CERTIFICATION LABELS

Safety Compliance Certification Label Example:



The Safety Compliance Certification label is located on the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver seating position.

WHAT IS THE GROSS AXLE WEIGHT RATING

GAWR (Gross Axle Weight Rating)

GAWR is the maximum allowable weight that a single axle (front or rear) can carry. These numbers are on the Safety Compliance Certification label.

WHAT IS THE GROSS VEHICLE WEIGHT RATING

GVWR is the maximum allowable weight of the fully loaded vehicle. This includes all options, equipment, passengers and cargo. It appears on the Safety Compliance Certification label.

WHAT IS THE GROSS COMBINED WEIGHT RATING

Gross Combined Weight Rating (GCWR) is the maximum allowable weight of the vehicle and the loaded trailer, including all cargo and passengers, that the vehicle can handle without risking damage. (Important: The towing vehicle's braking system is rated for operation at Gross Vehicle Weight Rating, not at Gross Combined Weight Rating.) Separate functional brakes should

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be used for safe control of towed vehicles and for trailers where the Gross Combined Weight of the towing vehicle plus the trailer exceed the Gross Vehicle Weight Rating of the towing vehicle.

Note: *For trailer towing information refer to the RV and Trailer Towing Guide available at an authorized dealer, or online at the website that follows.*

RV & Trailer Towing Guide Online	
Website	*www.fleet.ford.com/towing-guides*

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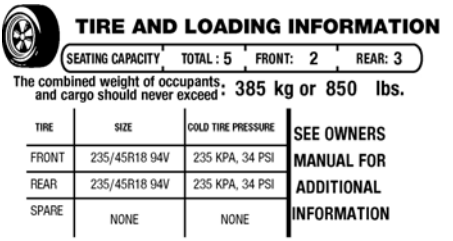
CALCULATING PAYLOAD

Tire and Loading Label Information Example:



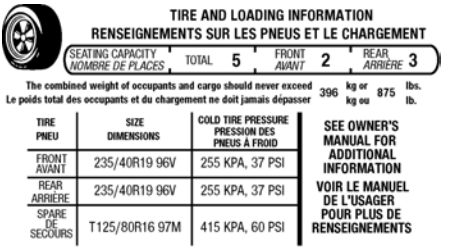
TIRE AND LOADING INFORMATION

SEATING CAPACITY | TOTAL : 5 | FRONT: 2 | REAR: 3

The combined weight of occupants and cargo should never exceed 385 kg or 850 lbs.

TIRE	SIZE	COLD TIRE PRESSURE
FRONT	235/45R18 94V	235 KPA, 34 PSI
REAR	235/45R18 94V	235 KPA, 34 PSI
SPARE	NONE	NONE

SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION



TIRE AND LOADING INFORMATION
RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY / NOMBRE DE PLACES | TOTAL 5 | FRONT / AVANT 2 | REAR / ARRIÈRE 3

The combined weight of occupants and cargo should never exceed 396 kg or kg ou 875 lbs. lb.
Le poids total des occupants et du chargement ne doit jamais dépasser

TIRE / PNEU	SIZE / DIMENSIONS	COLD TIRE PRESSURE / PRESSION DES PNEUS À FROID
FRONT / AVANT	235/40R19 96V	255 KPA, 37 PSI
REAR / ARRIÈRE	235/40R19 96V	255 KPA, 37 PSI
SPARE / DE SECOURS	T125/80R16 97M	415 KPA, 60 PSI

SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS

Payload is the combined weight of cargo and passengers that your vehicle is carrying. The maximum payload for your vehicle appears on the Tire and Loading label. The label is either on the B-pillar or the edge of the driver door. Vehicles exported outside the US and Canada may not have a tire and loading label. Look for “The combined weight of occupants and cargo should never exceed XXX kg or XXX lb” for maximum payload. The payload listed on the Tire and Loading Information label is the maximum payload for your vehicle as built by the assembly plant. If you install any additional equipment on your vehicle, you must determine the new payload. Subtract the weight of the equipment from the payload listed on the Tire and Loading label. When towing, trailer tongue weight or king pin weight is also part of payload.

CALCULATING THE LOAD LIMIT

Steps for determining the correct load limit:

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lb." on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lb.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1,400 lb. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lb. (1400-750 (5 x 150) = 650 lb.)

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5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Helpful examples for calculating the available amount of cargo and luggage load capacity

Suppose your vehicle has a 1400-pound (635-kilogram) cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, four of your friends and all the golf bags? You and four friends average 220 pounds (99 kilograms) each and the golf bags weigh approximately 30 pounds (13.5 kilograms) each. The calculation would be: 1400 - (5 x 220) - (5 x 30) = 1400 - 1100 - 150 = 150 pounds. Yes, you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be: 635 kilograms - (5 x 99 kilograms) - (5 x 13.5 kilograms) = 635 - 495 - 67.5 = 72.5 kilograms.

Suppose your vehicle has a 1400-pound (635-kilogram) cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past two years. Measuring the inside of the vehicle with the rear seat folded down, you have room for twelve 100-pound (45-kilogram) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 pounds (99 kilograms), the calculation would be: 1400 - (2 x 220) - (12 x 100) = 1400 - 440 - 1200 = - 240 pounds. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be: 635 kilograms - (2 x 99 kilograms) - (12 x 45 kilograms) = 635 - 198 - 540 = -103 kilograms. You will need to reduce the load weight by at least 240 pounds (104 kilograms). If you remove three 100-pound (45-kilogram) cement bags, then the load calculation would be: 1400 - (2 x 220) - (9 x 100) = 1400 - 440 - 900 = 60 pounds. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be: 635 kilograms - (2 x 99 kilograms) - (9 x 45 kilograms) = 635 - 198 - 405 = 32 kilograms.

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The above calculations also assume that the loads are positioned in your vehicle in a manner that does not overload the front or the rear gross axle weight rating specified for your vehicle on the Safety Compliance Certification label.

ROOF RACK - BUS

ROOF RACK PRECAUTIONS

WARNING: Your vehicle is not approved for roof racks. Never install a roof rack to your vehicle.

ROOF RACK - VAN

ROOF RACK PRECAUTIONS

WARNING: Read and follow the manufacturer's instructions when you are fitting a roof rack.

WARNING: When loading the roof racks, we recommend you evenly distribute the load, as well as maintain a low center of gravity. Loaded vehicles, with higher centers of gravity, may handle differently than unloaded vehicles. Take extra precautions, such as slower speeds and increased stopping distance, when driving a heavily loaded vehicle.

Note: *If you use a roof rack, the fuel consumption of your vehicle will be higher and you may experience different driving characteristics.*

Note: *Never place loads directly on the roof panel. The roof panel is not designed to directly carry a load.*

You must place loads directly on the crossbars fitted to the roof rack side rails. When using the roof rack system, we recommend that you use genuine Ford accessory crossbars specifically designed for your vehicle.

Make sure that you securely fasten the load. Check the tightness of the load before driving and at each fuel stop.

ROOF RACK LOAD CAPACITIES

Maximum Roof Load

Variant	lb (kg)
Low Roof.	419 (190)
Medium Roof.	331 (150)
High Roof.	220 (100)

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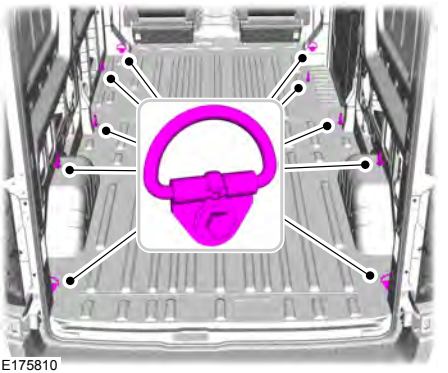
REAR CARGO AREA ANCHOR POINTS

LOCATING THE REAR CARGO AREA ANCHOR POINTS



Note: *The number of load retaining fixtures could vary depending on your vehicle model.*

REAR CARGO AREA ANCHOR POINT LOAD CAPACITIES

Variant	Maximum Load Value
All Van	1,125 lb (5,000 N)

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CONNECTING A TRAILER PRECAUTIONS

Do not tow a trailer until you drive your vehicle at least 1,000 mi (1,600 km).

Consult your local motor vehicle laws for towing a trailer.

See the instructions included with towing accessories for the proper installation and adjustment specifications.

Service your vehicle more frequently if you tow a trailer. See **Normal Scheduled Maintenance** (page 523).

If you use a rental trailer, follow the instructions the rental agency gives you.

When attaching the trailer wiring connector to your vehicle, only use a proper fitting connector that works with the vehicle and trailer functions.

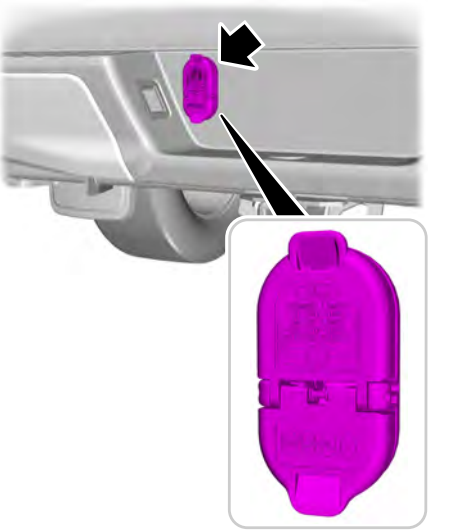
Account for the trailer coupler weight as part of your vehicle load when calculating the total vehicle weight.

Do not exceed the load limits. See **Calculating the Load Limit** (page 325).

CONNECTING A TRAILER

1. Attach the trailer and wiring connector to your vehicle.
2. Switch on your vehicle.
3. Set up the trailer brake controller using the instrument cluster display.

Note: *If your vehicle does not recognize the trailer, press and hold the brake pedal for a few seconds.*



When attaching the trailer wiring connector to your vehicle, only use a proper fitting connector that works with the vehicle and trailer functions.

Safety Chains

Install trailer safety chains to the trailer hitch as recommended by the manufacturer. Cross the chains under the trailer coupler and allow enough slack for turning tight corners. Do not allow the chains to drag on the ground.

Note: *Do not attach safety chains to the bumper. Always connect the safety chains to the frame or hook retainers of your trailer hitch.*

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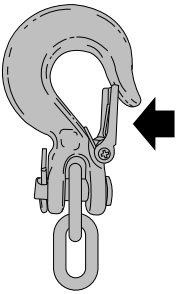

If the trailer safety chain hook has a latch, make sure the latch is fully closed.

Trailer Connection Checklist

1. Press ***Features*** on the touchscreen.
2. Press ***Towing***.
3. Press ***Connection Checklist***.

Trailer Light Check

WARNING: Never connect any trailer lamp wiring to the vehicle's tail lamp wiring; this may damage the electrical system resulting in fire. Contact your authorized dealer as soon as possible for assistance in proper trailer tow wiring installation. Additional electrical equipment may be required.

Perform a trailer light illumination sequence to confirm that all lights are functioning by using the FordPass app.

Note: *The FordPass app allows one person to confirm that all lights are functioning.*

Electronic Park Hold

Applies the electronic parking brake when you shift to park (P).

The electronic park hold button illuminates when activated.

The feature prevents your vehicle from moving in any direction when you are aligned with your trailer coupler and shift to park (P).

Note: *The feature is active for the current key cycle.*

You can also press a zoom button when using the camera views to switch the feature on.

Trailer Connection Alarm

The alarm is set when the following occur:

- Your vehicle detects the trailer.
- Your vehicle is locked.
- The alarm is armed.

When the trailer is disconnected in this state, the vehicle alarm sounds and an alert is sent to your FordPass app.

Note: *For reliable trailer detection, the trailer's lamps must be SAE certified for each intended purpose.*

Note: *If the trailer is not compatible with the feature, the turn signals flash twice.*

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CONNECTING A TRAILER – TROUBLESHOOTING

CONNECTING A TRAILER – INFORMATION MESSAGES

Message	Description
Trailer Disconnected	The system senses a trailer connection becomes disconnected, either intentionally or unintentionally, during a given ignition cycle.
Trailer Wiring Fault	There are certain faults in your vehicle wiring and trailer wiring or brake system.
Trailer Battery Not Charging See Manual	There is a fault with your trailer battery, or your trailer battery voltage is very low.
Trailer Tire Low Specified:	One or more tires on your trailer is below the specified tire pressure.
Trailer Tire Over Temperature	Displays when one or more tires on the trailer is above the recommended temperature.
Trailer Tire Pressure Sensor Fault	A trailer tire pressure sensor is malfunctioning. If the warning stays on or continues to come on, have the system checked as soon as possible.
Trailer Tire Pressure Monitor Fault	The trailer tire pressure monitoring system is malfunctioning. If the warning stays on or continues to come on, have the system checked.
Trailer Tire Pressure Monitor Capability Not Detected	The system cannot detect the trailer tire pressure monitoring system.
Trailer Tire Pressure Indication Not Setup See Manual	The trailer tire pressure monitoring system is not setup.

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TOWING A TRAILER PRECAUTIONS - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Do not exceed the GVWR or the GAWR specified on the certification label.

WARNING: Towing trailers beyond the maximum recommended gross trailer weight exceeds the limit of your vehicle and could result in engine damage, transmission damage, structural damage, loss of vehicle control, vehicle rollover and personal injury.

WARNING: Do not exceed the lowest rating capacity for your vehicle or trailer hitch. Overloading your vehicle or trailer hitch can impair your vehicle stability and handling. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Make sure that the vertical load on the tow ball is between the minimum and maximum recommended weight at all times. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not cut, drill, weld or modify the trailer hitch. Modifying the trailer hitch could reduce the hitch rating.

WARNING: The anti-lock brake system does not control the trailer brakes.

TOWING A TRAILER PRECAUTIONS - ELECTRIC MOTOR

WARNING: Your vehicle is not approved for trailer towing. Never tow a trailer with your vehicle.

TRAILER BRAKE PRECAUTIONS - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Do not connect a trailer's hydraulic brake system directly to your vehicle's brake system. Your vehicle may not have enough braking power and your chances of having a collision greatly increase.

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WARNING: Do not tow a trailer fitted with electric trailer brakes unless your vehicle is fitted with a compatible aftermarket electronic trailer brake controller. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death. For additional information and assistance, we recommend that you contact an authorized dealer.

Electric brakes and manual, automatic or surge-type trailer brakes are safe if you install them properly and adjust them to the manufacturer's specifications. The trailer brakes must meet local and federal regulations.

The rating for the tow vehicle's braking system operation is at the gross vehicle weight rating, not the gross combined weight rating.

Certain states require functioning trailer brakes for trailers over a specified weight. Be sure to check state regulations for this specified weight.

Ford Motor Company recommends separate functioning brake systems for trailers weighing more than 1,500 lb (680 kg) when loaded.

TOWING A TRAILER LIMITATIONS - 3.5L DURATEC/ 3.5L ECOBOOST™

The vehicle's load capacity designation is by weight, not by volume, so you cannot necessarily use all available space when loading a vehicle or trailer.

Note: *Your vehicle could have reduced performance when operating at high altitudes and when heavily loaded or towing a trailer. When driving at elevation, to match driving performance as perceived at sea level, reduce gross vehicle weight and gross combination weight by 2% per 1,000 ft (300 m) elevation.*

LOADING YOUR TRAILER - 3.5L DURATEC/3.5L ECOBOOST™

To help minimize how trailer movement affects your vehicle when driving:

- Load the heaviest items closest to the trailer floor.
- Load the heaviest items centered between the left and right side trailer tires.
- Load the heaviest items above the trailer axles or just slightly forward toward the trailer tongue. Do not allow the final trailer tongue weight to go above or below 10-15% of the loaded trailer weight. The trailer tongue weight should never exceed 10% of the maximum towing capacity.
- Select a ball mount with the correct rise or drop. When both the loaded vehicle and trailer are connected, the trailer frame should be level, or slightly angled down toward your vehicle, when viewed from the side.

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TRAILER TOWING HINTS - 3.5L DURATEC/3.5L ECOBOOST™

Towing a trailer places an extra load on your vehicle's engine, transmission, axle, brakes, tires and suspension. Periodically inspect these components during and after any towing operation.

When driving with a trailer or payload, a slight takeoff vibration or shudder may be present due to the increased payload weight.

Your vehicle may have a temporary or conventional spare tire. A temporary spare tire is different in diameter or width, tread-type, or is from a different manufacturer than the road tires on your vehicle. Consult information on the tire label or Safety Compliance label for limitations when using.

When towing a trailer:

- Obey country specific regulations for towing a trailer.
- Do not drive faster than 70 mph (113 km/h) during the first 500 mi (800 km).
- Do not make full-throttle starts.
- Check your hitch, electrical connections and trailer wheel lug nuts thoroughly after you have traveled 50 mi (80 km).
- When stopped in congested or heavy traffic during hot weather, place the transmission in park (P) to aid engine and transmission cooling and to help A/C performance.
- Turn off the speed control with heavy loads or in hilly terrain. The speed control may turn off when you are towing on long, steep slopes.
- Shift to a lower gear when driving down a long or steep hill. Do not continuously apply the brakes, as they may overheat and become less effective.
- If your transmission has Grade Assist or Tow/Haul, use this feature when towing. This provides engine braking and helps eliminate excessive transmission shifting for optimum fuel economy and transmission cooling.
- Your vehicle has AdvanceTrac with roll stability control. When towing a trailer, additional loads could cause the AdvanceTrac system to engage during cornering maneuvers. Reduce cornering speeds to make sure that you can maintain control of the vehicle and trailer if the AdvanceTrac system engages.
- Allow more distance for stopping with a trailer attached. Anticipate stops and gradually brake.
- Avoid parking on a slope. However, if you must park on a slope, turn the steering wheel to point your vehicle tires away from traffic flow, set the parking brake, place the transmission in park (P) and place wheel chocks in front and back of the trailer wheels.

Note: *Chocks are not included with your vehicle.*

LAUNCHING OR RETRIEVING A BOAT OR PERSONAL WATERCRAFT - 3.5L DURATEC/3.5L ECOBOOST™

When backing down a ramp during boat launching or retrieval:

- Do not allow the static water level to rise above the bottom edge of the rear bumper.
- Do not allow waves to break higher than 6 in (15 cm) above the bottom edge of the rear bumper.

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Exceeding 6 in (15 cm) could allow water to enter vehicle components, causing internal damage to the components and affecting driveability, emissions and reliability.

Note: *Replace the rear axle lubricant anytime the rear axle has been submerged in water.*

Note: *Disconnect the trailer wiring connector before backing the trailer into the water.*

Note: *Reconnect the trailer wiring connector after removing the trailer from the water.*

TOWING WEIGHTS AND DIMENSIONS

RECOMMENDED TOWING WEIGHTS

Market	Website
United States of America	https://www.fleet.ford.com/towing-guides/
Canada	https://www.fleet.ford.ca/towing-guides/

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WHAT IS THE MAXIMUM LOADED TRAILER WEIGHT - 3.5L DURATEC/3.5L ECOBOOST™

The maximum loaded trailer weight is the highest possible weight of a fully loaded trailer the vehicle can tow.

CALCULATING THE MAXIMUM LOADED TRAILER WEIGHT FOR YOUR VEHICLE - 3.5L DURATEC/ 3.5L ECOBOOST™

1. Start with the gross combined weight rating for your vehicle model and axle ratio.
2. Subtract all of the following that apply to your vehicle:

- Vehicle curb weight.
- Hitch hardware weight, for example a draw bar, ball, locks or weight distributing hardware.
- Driver weight.
- Passenger weight.
- Payload, cargo and luggage weight.
- Aftermarket equipment weight.

This equals the maximum loaded trailer weight for this combination.

Note: *The trailer tongue load is considered part of the payload for your vehicle. Reduce the total payload by the final trailer tongue weight.*

Note: *Consult an authorized dealer to determine the maximum trailer weight allowed for your vehicle if you are not sure.*

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WHAT IS THE INTEGRATED TRAILER BRAKE CONTROLLER

The trailer brake controller assists in smooth and effective trailer braking based on the towing vehicle's brake pressure.

INTEGRATED TRAILER BRAKE CONTROLLER PRECAUTIONS

WARNING: Use the integrated trailer brake controller to properly adjust the trailer brakes and check all connections before towing a trailer. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

- Only use the manual control lever for proper adjustment of the gain during trailer setup. Misuse, such as application during trailer sway, could cause instability of trailer or tow vehicle.
- Avoid towing in adverse weather conditions. The trailer brake controller does not provide anti-lock control of the trailer wheels. Trailer wheels can lock up on slippery surfaces, resulting in reduced stability of trailer and tow vehicle.
- The trailer brake controller is only a factory-installed or dealer-installed item. Ford is not responsible for warranty or performance of the controller due to misuse or customer installation.

Note: *Do not attempt removal of the trailer brake controller without consulting the Workshop Manual. Damage to the unit may result.*

USING THE INTEGRATED TRAILER BRAKE CONTROLLER

1. Make sure the trailer brakes are in good working condition, functioning normally and properly adjusted. See your trailer dealer if necessary.

Note: *An authorized dealer can diagnose the trailer brake controller to determine exactly which trailer fault has occurred. Your vehicle warranty does not cover issues with your trailer.*

2. Hook up the trailer and make the electrical connections according to the trailer manufacturer's instructions.

Note: *Select default mode if the trailer has surge brakes, or no brakes at all. The system has no effect on the braking performance of the trailer in either of these cases.*

Note: *If a trailer is connected by a four-pin connector, the trailer braking function will not be supported.*

3. When you plug in a trailer with electric or electric-over-hydraulic brakes, a message confirming connection appears in the information display.
4. Use the gain adjustment to find the desired starting point. A gain setting of 6.0 is a good starting point for heavier loads.

Note: *Use the following steps to adjust the gain setting whenever road, weather and trailer, or vehicle loading conditions, change from when you initially set the gain.*

5. In a traffic-free environment, tow the trailer on a dry, level surface and squeeze the manual control lever completely.

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6. If the trailer wheels lock up, indicated by squealing tires, reduce the gain setting. If the trailer wheels turn freely, increase the gain setting. Repeat Steps 5 and 6 until the gain setting is at a point just below trailer wheel lock-up. If towing a heavier trailer, trailer wheel lock-up may not be attainable even with the maximum gain setting of 10.

Note: *Only perform this procedure at speeds of approximately 20–25 mph (30–40 km/h).*

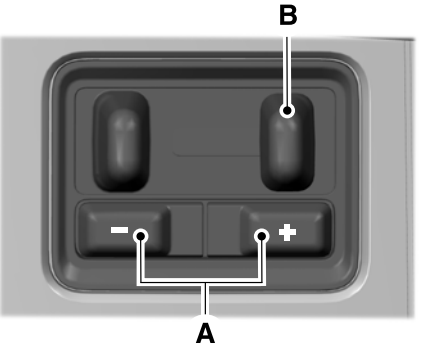
Note: *The trailer brake controller reduces output at vehicle speeds below 11 mph (18 km/h) so that trailer and vehicle braking is not jerky or harsh. This feature is only available when applying the brakes using your vehicle's brake pedal, not the controller.*

Note: *Your vehicle's brake system and the trailer brake system work independently of each other. Changing the gain setting on the controller does not affect the operation of your vehicle's brakes whether you attach a trailer or not.*

Note: *With the proper electrical connection, pressing your vehicle brake pedal or using the manual control lever illuminates both trailer and vehicle brake lamps.*

Note: *When you switch the engine off, the controller output is disabled and the display and module shut down. The controller module and display turn on when you switch the ignition on.*

Adjusting the Trailer Brake Gain



A Increase or decrease the amount of gain in set increments.

B Slide the control to engage the trailer brakes.

Note: *Adjust gain setting before using the trailer brake controller for the first time.*

Note: *The gain should be set to provide the maximum trailer braking assistance while making sure the trailer wheels do not lock when using the brakes. Locked trailer wheels may lead to trailer instability.*

Note: *Setting adjustments are saved when a trailer profile is selected.*

ADJUSTING THE INTEGRATED TRAILER BRAKE CONTROLLER MODE

Select the correct integrated trailer brake controller mode option using the touchscreen.

Note: *Trailer brake gain settings are saved to the active trailer profile.*

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Selecting the Trailer Brake Type

1. Press ***Default*** for trailers with electromagnetic drum brake systems or press ***Electric over Hydraulic*** for trailers with electrically actuated hydraulic brake systems.
2. Press ***Save***.

Selecting the Trailer Brake Effort

1. Select a setting for your trailer.

Note: *The default value is* ***Low*** *and is the recommended setting for most trailers. Select a different setting if your trailer's brakes require more initial voltage, or you prefer more aggressive trailer braking.*

2. Press ***Save***.

INTEGRATED TRAILER BRAKE CONTROLLER – TROUBLESHOOTING

INTEGRATED TRAILER BRAKE CONTROLLER – INFORMATION MESSAGES

Message	Action
Trailer Connected	The system detects a correct trailer connection during a given ignition cycle.
Trailer Disconnected	The system detects the trailer wiring connection is disconnected, during a given ignition cycle.
Trailer Wiring Fault	The system detects an electrical fault in the trailer brake circuit. If this message appears without a trailer attached, see your authorized dealer. If a trailer is attached, inspect and repair the trailer wiring.
Trailer Brake Gain: {trailer gain value:#0.0}	Displays the current gain setting for the trailer brake.
Trailer Brake Gain: {trailer gain value:#0.0} No Trailer	Displays the current gain setting for the trailer brake when you do not have a trailer connected.

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INTEGRATED TRAILER BRAKE CONTROLLER – FREQUENTLY ASKED QUESTIONS

How do I determine if there is an issue with the wiring on my vehicle?

A message displays accompanied by a single tone, when no trailer is connected. This indicates that the issue is between the trailer brake controller and the 7-pin connector at the bumper.

How do I determine if there is an issue with the wiring on my trailer?

A message only displays with a trailer connected. Consult your trailer dealer for assistance.

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HOW DOES TRAILER SWAY CONTROL WORK

The system applies the brakes to the individual wheels and reduces engine torque to aid vehicle stability.

If the trailer begins to sway, the stability control lamp flashes and the message ***Trailer Sway Reduce Speed*** appears in the information display.

Stop your vehicle as soon as it is safe to do so. Check the vertical weight on the tow ball and trailer load distribution.

TRAILER SWAY CONTROL PRECAUTIONS

WARNING: Turning off trailer sway control increases the risk of loss of vehicle control, serious injury or death. Ford does not recommend disabling this feature except in situations where speed reduction may be detrimental (such as hill climbing), the driver has significant trailer towing experience, and can control trailer sway and maintain safe operation.

Note: *This feature only activates when significant trailer sway occurs.*

Note: *This feature does not prevent trailer sway, but reduces it once it begins.*

Note: *This feature cannot stop all trailers from swaying.*

Note: *In some cases, if vehicle speed is too high, the system may activate multiple times, gradually reducing vehicle speed.*

SWITCHING TRAILER SWAY CONTROL ON AND OFF

1. Press ***Features*** on the touchscreen.
2. Press ***Towing***.
3. Switch ***Trailer Sway Control*** on or off.

The system turns on each time you start your vehicle.

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COLD WEATHER PRECAUTIONS

The functional operation of some components and systems can be affected at temperatures below approximately -13ºF (-25ºC).

DRIVING ON SNOW AND ICE

WARNING: If you are driving in slippery conditions that require tire chains or cables, then it is critical that you drive cautiously. Keep speeds down, allow for longer stopping distances and avoid aggressive steering to reduce the chances of a loss of vehicle control which can lead to serious injury or death. If the rear end of your vehicle slides while cornering, steer in the direction of the slide until you regain control of your vehicle.

On ice and snow, you should drive more slowly than usual. Your vehicle has a four wheel anti-lock brake system, do not pump the brake pedal. See **Anti-Lock Braking System Limitations** (page 236).

BREAKING-IN

Your vehicle requires a break-in period. For the first 1,000 mi (1,600 km), avoid driving at high speeds, heavy braking, aggressive shifting or using your vehicle to tow. During this time, your vehicle may exhibit some unusual driving characteristics.

DRIVING ECONOMICALLY

The following helps to improve fuel consumption:

- Drive smoothly, accelerate gently and anticipate the road ahead to avoid heavy braking.
- Regularly check your tire pressures and make sure that they are inflated to the correct pressure.
- Follow the recommended maintenance schedule and carry out the recommended checks.
- Plan your journey and check the traffic before you set off. It is more efficient to combine errands into a single trip whenever possible.
- Avoid idling the engine in cold weather or for extended periods. Start the engine only when you are ready to set off.
- Do not carry unnecessary weight in your vehicle as extra weight wastes fuel.
- Do not add unnecessary accessories to the exterior of your vehicle, for example running boards. If you use a roof rack, remember to fold it down or remove it when not in use.
- Do not shift into neutral when you are braking or when your vehicle is slowing down.
- Shut all windows when driving at high speeds.
- Switch off all electric systems when not in use, for example air conditioning. Make sure that you unplug any accessories from the auxiliary power points when not in use.

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DRIVING IN SPECIAL CONDITIONS

EMERGENCY MANEUVERS

In an unavoidable emergency where you must make a sudden sharp maneuver, turn the steering wheel only as rapidly and as far as required to avoid the emergency. Apply smooth pressure to the accelerator pedal or brake pedal as needed. Avoid abrupt steering, acceleration and braking changes. Abrupt changes could increase the risk of vehicle roll over, loss of vehicle control and personal injury. If possible, use any available road surfaces to bring your vehicle under control.

DRIVING THROUGH MUD AND WATER

Mud

Be cautious of sudden changes in vehicle speed or direction when you are driving in mud. Even all-wheel drive and four-wheel drive vehicles can lose traction in mud. If your vehicle slides, steer in the direction of the slide until you regain control of your vehicle. After driving through mud, clean off residue stuck to rotating driveshafts and tires. Excess residue can cause an imbalance that could damage drive components.

Note: *If your vehicle gets stuck in mud, it could be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.*

Water

If you must drive through water approach it cautiously. See **Driving Through Shallow Water** (page 344).

DRIVING ON HILLY OR SLOPING TERRAIN

Although natural obstacles could make it necessary to travel diagonally up or down a hill or steep incline, you should try to drive straight up or straight down.

Note: *Avoid turning on steep slopes or hills. A danger lies in losing traction, slipping sideways and possible vehicle roll over. Whenever driving on a hill, determine beforehand the route you can use. Do not drive over the crest of a hill without seeing what conditions are on the other side. Do not drive in reverse over a hill without the aid of an observer.*

Apply just enough power to the wheels to climb the hill. Too much power causes the tires to slip, spin or lose traction, and you could lose control of your vehicle. When descending a steep hill, do not descend the hill in neutral. Avoid sudden hard braking to keep the front wheels rolling and to maintain your vehicle's steering.

Note: *Your vehicle has anti-lock brakes, apply the brakes steadily. Do not pump the brakes.*

Note: *If your vehicle gets stuck driving on hilly or sloping terrain, it could be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.*

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DRIVING IN SAND

When driving over sand, try to keep all four wheels on the most solid area of the trail. Shift to a lower gear and drive steadily through the terrain. Apply the accelerator slowly and avoid excessive wheel slip. Do not drive your vehicle in deep sand for an extended period of time. This could overheat the system. A message appears in the information display. See **All-Wheel Drive – Information Messages** (page 235).

Note: *If your vehicle gets stuck driving on hilly or sloping terrain, it could be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.*

ELECTRIC VEHICLE

MAXIMIZING YOUR DRIVING RANGE

Driving in Cold Weather

Keep your vehicle charged before heading out into cold weather.

Use the heated seats and steering wheel for comfort along with moderate cabin temperature and fan settings to reduce energy needed for climate control.

Preconditioning Your Vehicle

You can precondition your vehicle by using departure and comfort settings to warm or cool your cabin and the high voltage battery when your vehicle is plugged in. By using energy from your charging source prior to your departure, battery temperature can be managed for best driving performance and less energy will be needed for heating or cooling of the cabin at the start of your drive. This helps maximize your driving range. See **Setting the Charging Schedule and Preferences** (page 222).

Note: *You can also access departure and comfort settings using the FordPass App.*

Note: *Lower cabin temperature settings on the climate control system results in better trip range.*

Parking Your Vehicle

At temperatures just above the freezing point and lower, plug your vehicle in when not in use to maintain high voltage battery performance.

When possible park your vehicle under a covered area or in a garage. This will help to moderate temperatures which affect performance of the high voltage battery and require energy to heat or cool the cabin.

Driving Style

Range is reduced when driving aggressively or at consistently high speeds. Aggressive driving for extended periods could also result in reducing your battery's efficiency and lifespan. Use the trip application on your touchscreen to see your driving scores. See **Trip Data** (page 140).

DRIVING THROUGH SHALLOW WATER - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Do not attempt to cross a deep or flowing body of water. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

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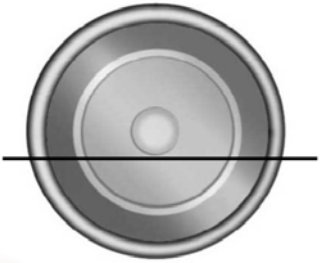
Note: *Driving through standing water can cause vehicle damage.*

Note: *Engine damage can occur if water enters the air filter.*

Before driving through standing water, check the depth. Never drive through water that is higher than the bottom of the wheel hubs.



When driving through standing water, drive very slowly and do not stop your vehicle. Your brake performance and traction could be limited. After driving through water and as soon as it is safe to do so:

- Lightly press the brake pedal to dry the brakes and to check that they work.
- Turn the steering wheel to check that the steering power assist works.

Check the function of the following:

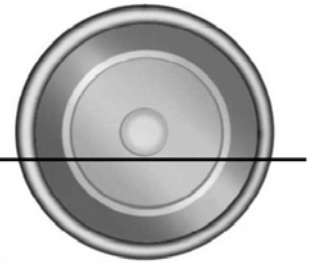
- Horn
- Exterior lights

DRIVING THROUGH SHALLOW WATER - ELECTRIC MOTOR

WARNING: Do not attempt to cross a deep or flowing body of water. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

Note: *Driving through standing water can cause vehicle damage.*

Before driving through standing water, check the depth. Never drive through water that is higher than the bottom of the wheel hubs.



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- Lightly press the brake pedal to dry the brakes and to check that they work.
- Turn the steering wheel to check that the steering power assist works.

Check the function of the following:

- Horn
- Exterior lights

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FLOOR MATS

WARNING: Use a floor mat designed to fit the footwell of your vehicle that does not obstruct the pedal area. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Pedals that cannot move freely can cause loss of vehicle control and increase the risk of serious personal injury.

WARNING: Secure the floor mat to both retention devices so that it cannot slip out of position and interfere with the pedals. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not place additional floor mats or any other covering on top of the original floor mats. This could result in the floor mat interfering with the operation of the pedals. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Always make sure that objects cannot fall into the driver foot well while your vehicle is moving. Objects that are loose can become trapped under the pedals causing a loss of vehicle control.

To install floor mats that have eyelets, position the floor mat eyelet over the retention post and press down to lock in position. Repeat for all eyelets on the floor mat.

To remove the floor mats, reverse the installation procedure.

Note: *Regularly check the floor mats to make sure they are secure.*

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ROADSIDE ASSISTANCE - 3.5L DURATEC/3.5L ECOBOOST™

Vehicles Sold in the United States: Getting Roadside Assistance

To fully assist you should you have a vehicle concern, Ford Motor Company offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty.

The service is available:

- 24 hours a day, seven days a week.
- For the coverage period supplied with your vehicle.

Roadside Assistance covers:

- A flat tire change with a good spare (except vehicles supplied with a tire inflation kit).
- Battery jump start.
- Lock-out assistance (key replacement cost is the customer's responsibility).
- Fuel delivery — independent service contractors, if not prohibited by state, local or municipal law, shall deliver up to 2 gal (8 L) of gasoline or 5 gal (20 L) of diesel fuel to a disabled vehicle. Roadside assistance limits fuel delivery service to two no-charge occurrences within a 12-month period.
- Winch out — available within 100 ft (30 m) of a paved or county maintained road, no recoveries.
- Towing — independent service contractors, if not prohibited by state, local or municipal law, shall tow Ford eligible vehicles to an authorized dealer within 35 mi (56 km) of the disablement location or to the nearest authorized dealer. If a member requests a tow to an authorized dealer that is more than 35 mi (56 km) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 mi (56 km).
- Roadside Assistance includes up to $200 for a towed trailer if the disabled eligible vehicle requires service at the nearest authorized dealer. If the towing vehicle is operational but the trailer is not, then the trailer does not qualify for any roadside services.

Vehicles Sold in the United States: Using Roadside Assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. This card is in the Owner's Manual kit.

United States vehicle customers who require Roadside Assistance, call 1-800-241-3673.

If you need to arrange roadside assistance for yourself, Ford Motor Company reimburses a reasonable amount for towing to the nearest dealership within 35 mi (56 km). To obtain reimbursement information, United States vehicle customers call 1-800-241-3673. Customers need to submit their original receipts.

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Vehicles Sold in Canada: Getting Roadside Assistance

To fully assist you should you have a vehicle concern, Ford Motor Company of Canada, Limited offers a complimentary roadside assistance program. This program is eligible within Canada or the continental United States.

The service is available 24 hours a day, seven days a week.

This program is separate from the New Vehicle Limited Warranty, but the coverage is concurrent with the powertrain coverage period of your vehicle. Canadian roadside coverage and benefits may differ from the U.S. coverage.

If you require more information, please call us in Canada at 1-800-665-2006, or visit our website at *www.ford.ca*.

ROADSIDE ASSISTANCE - ELECTRIC MOTOR

Vehicles Sold in the United States: Getting Roadside Assistance

To fully assist you should you have a vehicle concern, Ford Motor Company offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty.

The service is available:

- 24 hours a day, seven days a week.
- For the coverage period supplied with your vehicle.

Roadside Assistance covers:

- A flat tire change with a good spare. For vehicles with an unusable tire inflation kit, we provide towing service.
- 12 V battery jump start.
- Lock-out assistance (key replacement cost is the customer's responsibility).
- Winch out — available within 100 ft (30 m) of a paved or county maintained road, no recoveries.
- In the event your vehicle's high-voltage battery does not have enough power to move, you can choose where you would like your vehicle towed (within a 35 mi (56 km) radius):
  - Nearest public charger.
  - EV Certified Ford or Lincoln Dealer.
  - Your home residence.

Vehicles Sold in the United States: Using Roadside Assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. This card is in the Owner's Manual kit.

United States vehicle customers who require Roadside Assistance, call 1-800-241-3673.

If you need to arrange roadside assistance for yourself, Ford Motor Company reimburses a reasonable amount for towing to the nearest dealership within 35 mi (56 km). To obtain reimbursement information, United States vehicle customers call 1-800-241-3673. Customers need to submit their original receipts.

Vehicles Sold in Canada: Getting Roadside Assistance

To fully assist you should you have a vehicle concern, Ford Motor Company of Canada, Limited offers a complimentary roadside assistance program. This program is eligible within Canada or the continental United States.

The service is available 24 hours a day, seven days a week.

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This program is separate from the New Vehicle Limited Warranty, but the coverage is concurrent with the powertrain coverage period of your vehicle. Canadian roadside coverage and benefits may differ from the U.S. coverage.

If you require more information, please call us in Canada at 1-800-665-2006, or visit our website at *www.ford.ca*.

SWITCHING THE HAZARD FLASHERS ON AND OFF

The hazard flasher button is on the instrument panel. Press the button to switch the hazard flashers on if your vehicle is creating a safety hazard for other road users.

When you switch the hazard flashers on, all front and rear direction indicators flash.

Note: *The hazard flashers operate when the ignition is in any position, or if the key is not in the ignition. The battery loses charge and could have insufficient power to restart your vehicle.*

Press the button again to switch them off.

JUMP STARTING THE VEHICLE

JUMP STARTING PRECAUTIONS - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide correct ventilation.

WARNING: Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Shield your eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes and get prompt medical attention. If acid is swallowed, call a physician immediately.

WARNING: Use only adequately sized cables with insulated clamps.

WARNING: Make sure that the cables are clear of any moving parts and fuel delivery system parts.

WARNING: Connect batteries with only the same nominal voltage.

WARNING: If the engine is running while the hood is open, stay clear of moving engine components. Failure to follow this warning could result in serious personal injury or death.

Do not attempt to push-start an automatic transmission vehicle. This could cause transmission damage.

Do not disconnect the battery of the disabled vehicle. This could damage your vehicle's electrical system.

JUMP STARTING PRECAUTIONS - ELECTRIC MOTOR

WARNING: Connect batteries with only the same nominal voltage.

WARNING: Use only adequately sized cables with insulated clamps.

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Note: *This procedure is only for the 12 volt battery.*

Note: *Your vehicle has a 12 volt battery that is under the driver seat. The 12 volt battery controls the switches and contacts that engage the high voltage battery. Do not jump start the high voltage battery using a standard 12 volt battery. Tow your vehicle to an authorized dealer if the high voltage battery does not accept a regular charge.*

Note: *Do not attempt to push start your vehicle. You could cause transmission damage.*

Note: *Do not disconnect the 12 volt battery from your vehicle electrical system.*

PREPARING THE VEHICLE

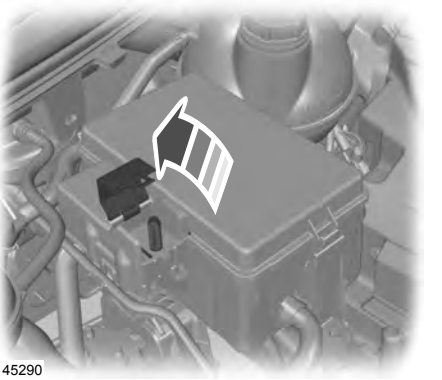
Use only a 12 volt supply to start your vehicle.

Park the booster vehicle close to the hood of the disabled vehicle, making sure the two vehicles do not touch.

JUMP STARTING THE VEHICLE - 3.5L DURATEC/3.5L ECOBOOST™

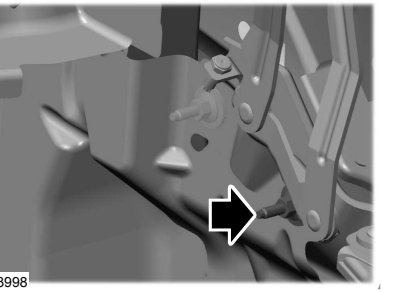
Your vehicle has a positive (+) access terminal and a negative (-) ground connection point that you can access under the hood, even though the actual battery is under the driver seat. You can jump your vehicle using these points.

The positive (+) access terminal is next to the fuse box, under a red cap. To access the positive (+) terminal, lift the red cap up.



E145290

The negative (-) terminal is a post on the driver side, near the hood hinge. It is a ground connection point. You need to remove the rubber covering first.



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WARNING: Make sure that the cables are clear of any moving parts and fuel delivery system parts.

Note: *In the illustration, the bottom vehicle represents the booster vehicle.*

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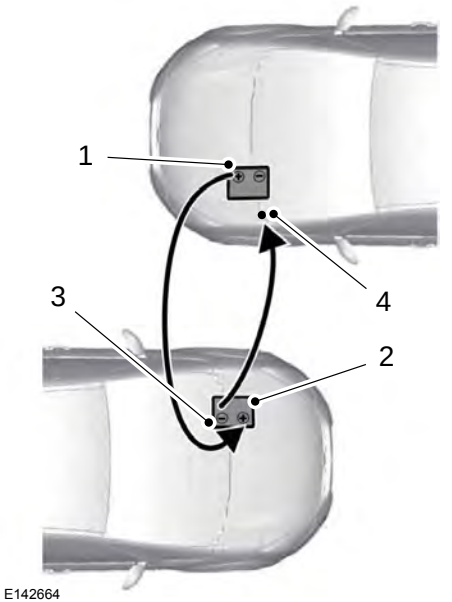


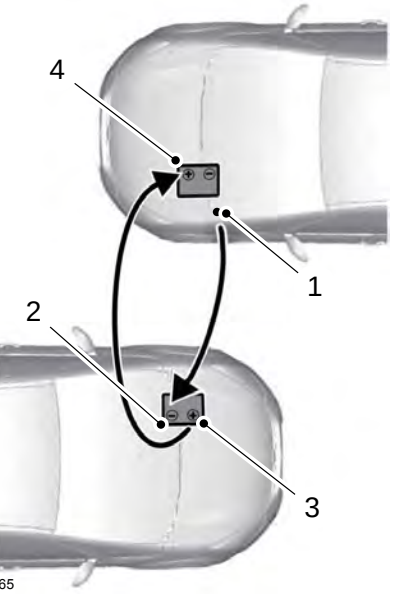
E142664

1. Connect the positive (+) jumper cable to the positive (+) access terminal of the vehicle with the discharged battery.
2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.
3. Connect the negative (-) cable to the negative (-) terminal of the assisting battery.
4. Make the final connection of the negative (-) cable to the ground connection point of the vehicle with the discharged battery.

WARNING: Do not connect the negative jumper cable to any other part of your vehicle. Use the ground point.

5. Start the engine of the booster vehicle and rev the engine moderately, or press the accelerator gently to keep your engine speed between 2000 and 3000 rpms, as shown in your tachometer.
6. Start the engine of the disabled vehicle.
7. Once you start the disabled vehicle, run both vehicle engines for an additional three minutes before disconnecting the jumper cables.

Remove the jumper cables in the reverse order that they were connected.



E142665

After you start the disabled vehicle and remove the jumper cables, allow your vehicle to idle for several minutes so the battery can recharge.

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JUMP STARTING THE VEHICLE - ELECTRIC MOTOR

To Start Your Vehicle

1. Run the engine of the booster vehicle at a moderately high speed.
2. Move the transmission selector lever of the low charge vehicle to park (P).
3. Switch on the ready to drive mode. See **Starting the Vehicle** (page 191).
4. Run both vehicles for a minimum of three minutes before disconnecting the cables.

Note: *Do not switch the headlamps on when disconnecting the cables. The peak voltage could damage the bulbs.*

Disconnect the cables in the reverse order.

POST-CRASH ALERT SYSTEM

WHAT IS THE POST-CRASH ALERT SYSTEM

The system helps draw attention to your vehicle in the event of a serious impact.

HOW DOES THE POST-CRASH ALERT SYSTEM WORK

The system is designed to turn the hazard flashers on and to intermittently sound the horn in the event of a serious impact that deploys an airbag or the seatbelt pretensioners.

POST-CRASH ALERT SYSTEM LIMITATIONS

Depending on applicable laws in the country your vehicle was built for, the horn does not sound in the event of a serious impact.

SWITCHING THE POST-CRASH ALERT SYSTEM OFF

Press the hazard flasher switch or the unlock button on the remote control to switch the system off.

Note: *The alert turns off when the vehicle battery runs out of charge.*

POST IMPACT BRAKING

HOW DOES POST IMPACT BRAKING WORK

In the event of a moderate to severe crash, the braking system reduces the vehicle's speed in order to prevent or reduce the impact of a potential secondary crash.

POST IMPACT BRAKING LIMITATIONS

Post impact braking does not activate if any of the following occur:

- The anti-lock braking system is damaged during the collision.
- Electronic stability control is disabled.
- Vehicle speed is below 5 mph (10 km/h).

OVERRIDING POST IMPACT BRAKING

You can override post impact braking by pressing the brake or accelerator pedal.

POST IMPACT BRAKING INDICATORS

It flashes when a post impact braking event is occurring.

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AUTOMATIC CRASH SHUTOFF

WHAT IS AUTOMATIC CRASH SHUTOFF - 3.5L DURATEC/3.5L ECOBOOST™

The automatic crash shutoff is designed to stop the fuel going to the engine in the event of a moderate or severe crash.

Note: *Not every impact causes a shutoff.*

WHAT IS AUTOMATIC CRASH SHUTOFF - ELECTRIC MOTOR

The system deactivates the high voltage system if it is a battery or hybrid-electric vehicle, in the event of a moderate or severe crash.

AUTOMATIC CRASH SHUTOFF PRECAUTIONS - 3.5L DURATEC/3.5L ECOBOOST™

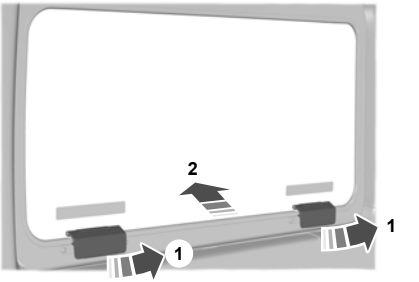
WARNING: If your vehicle has been involved in a crash, have the fuel system checked. Failure to follow this instruction could result in fire, personal injury or death.

RE-ENABLING YOUR VEHICLE

1. Switch the ignition off.
2. Attempt to start your vehicle.
3. Switch the ignition off.
4. Attempt to start your vehicle.

Note: *If your vehicle does not start after the third attempt, have your vehicle checked as soon as possible.*

ACCESSING THE EMERGENCY EXIT - BUS



1. Pull the release handles.
2. Push the window.

RECOVERY TOWING

ACCESSING THE REAR TOWING POINT - BUS/VAN

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FAIL-SAFE COOLING - 3.5L DURATEC/3.5L ECOBOOST™

WHAT IS FAIL-SAFE COOLING

Fail-safe cooling allows you to temporarily drive your vehicle before any incremental component damage occurs due to overheating.

The fail-safe distance depends on outside temperature, vehicle load and terrain.

HOW DOES FAIL-SAFE COOLING WORK

If the engine reaches a preset over-temperature condition, the engine automatically switches to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

When this occurs, your vehicle still operates, however:

- Engine power is limited.
- The air conditioning system turns off.

Continued operation increases the engine temperature, causing the engine to completely shut down. Your steering and braking effort increases in this situation.

When the engine temperature cools, you can re-start the engine.

Note: *Have your vehicle checked as soon as possible to minimize engine damage.*

DRIVING WHEN FAIL-SAFE MODE IS ACTIVATED

WARNING: Fail-safe mode is for use during emergencies only. Operate your vehicle in fail-safe mode only as long as necessary to bring your vehicle to rest in a safe location and seek immediate repairs. When in fail-safe mode, your vehicle will have limited power, will not be able to maintain high-speed operation, and may completely shut down without warning, potentially losing engine power, power steering assist, and power brake assist, which may increase the possibility of a crash resulting in serious injury.

WARNING: Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.

Continued operation increases the engine temperature, causing the engine to completely shut down. Your steering and braking effort increases in this situation.

When the engine temperature cools, you can re-start the engine. Have your vehicle checked as soon as possible to minimize engine damage.

Your vehicle has limited engine power when in the fail-safe mode, drive your vehicle with caution. Your vehicle does not maintain high-speed operation and the engine may operate poorly.

Remember that the engine is capable of automatically shutting down to prevent engine damage. In this situation:

1. Pull off the road as soon as safely possible and switch the engine off.
2. If you are a member of a roadside assistance program, we recommend that you contact your roadside assistance service provider.
3. If this is not possible, wait for a short period of time for the engine to cool.

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4. Check the coolant level. If the coolant level is at or below the minimum mark, add prediluted coolant immediately.
5. When the engine temperature cools, you can re-start the engine. Have your vehicle checked as soon as possible to minimize engine damage.

Note: *Driving your vehicle without repair increases the chance of engine damage.*

FAIL-SAFE COOLING INDICATORS

If the engine begins to overheat, the coolant temperature gauge moves toward the red zone.

A warning lamp illuminates and a message may appear in the information display.

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TOWING YOUR VEHICLE PRECAUTIONS

If you need to tow your vehicle, contact a professional towing service or, if you are a member of a roadside assistance program, your roadside assistance service provider.

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STORING A FIRST AID KIT

You can store a first aid kit in the passenger side front door storage.

STORING A WARNING TRIANGLE

You can store a warning triangle in the driver side front door storage.

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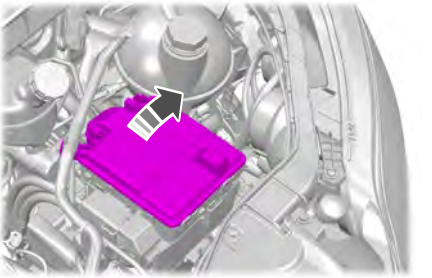
FUSE PRECAUTIONS

WARNING: Always replace a fuse with one that has the specified amperage rating. Using a fuse with a higher amperage rating can cause severe wire damage and could start a fire.

WARNING: To reduce risk of electrical shock, always replace the cover to the power distribution box before reconnecting the battery or refilling fluid reservoirs.

UNDER HOOD FUSE BOX

ACCESSING THE UNDER HOOD FUSE BOX



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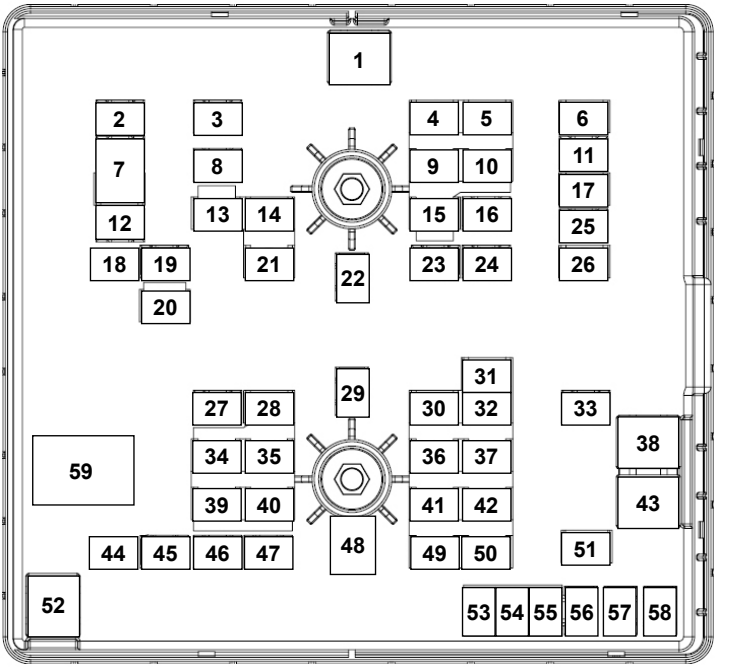
IDENTIFYING THE FUSES IN THE UNDER HOOD FUSE BOX



Item	Fuse Rating	Protected Component
1	50 A	Wipers.
2	-	Not used.
3	40 A	Not used (Spare).
4	30 A	Parking lamps.
5	10 A	Reversing lamp.
6	15 A	Electric steering column lock
7	40 A	Front blower motor.
8	40 A	Not used (Spare).

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Item	Fuse Rating	Protected Component
9	15 A	Rear door latch.
10	-	Not used.
11	40 A	Auxiliary power point. USB port.
12	20 A	Horn.
13	10 A	Selective catalytic reduction system.
14	15 A	Not used (Spare).
15	5 A	Charge port.
16	-	Not used.
17	10 A	Right-hand high-intensity discharge headlamps.
18	40 A	Rear window defroster.
19	20 A	Not used (Spare).
20	10 A	Power folding mirrors.
21	15 A	Vehicle power 4.
22	40 A	Rear blower motor.
23	-	Not used.
24	40 A	Run/Start relay.
25	40 A	Auxiliary power points.
26	10 A	Left-hand high-intensity discharge headlamps.
27	-	Not used.
28	5 A	Vehicle power 1.
29	-	Not used.
30	10 A	Not used (Spare).
31	5 A	Anti-lock brake system.
32	15 A	Transmission control module.
33	-	Not used.
34	5 A	Selective catalytic reduction system.

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Item	Fuse Rating	Protected Component
35	15 A	Not used (Spare).
36	5 A	Run/Start power distribution box.
37	5 A	Run/Start power control module.
38	60 A	Power distribution box.
39	10 A	Not used (Spare).
40	10 A	Vehicle power 3.
41	10 A	Glow plugs.
42	-	Not used (excluding 510 series).
	15 A	Cooling fan (510 series).
43	60 A	Anti-lock brake system pump.
44	-	Not used.
45	30 A	Trailer socket.
46	20 A	Not used (Spare).
47	40 A	Not used (Spare).
48	50 A	Not used (Spare).
49	15 A	Nitrogen oxide sensor.
50	5 A	Not used (Spare).
51	-	Not used.
52	60 A	Not used (Spare).
53	5 A	Battery electronic control module.
54	20 A	Battery back-up sounder.
55	5 A	DC/DC converter.
56	20 A	Not used (Spare).
57	40 A	Anti-lock brake system valves.
58	30 A	Trailer socket.
59	-	Not used.

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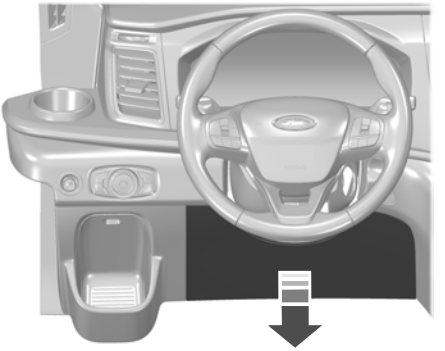
INTERIOR FUSE BOX

ACCESSING THE INTERIOR FUSE BOX

Driver Compartment Fuse Box



Passenger Compartment Fuse Box

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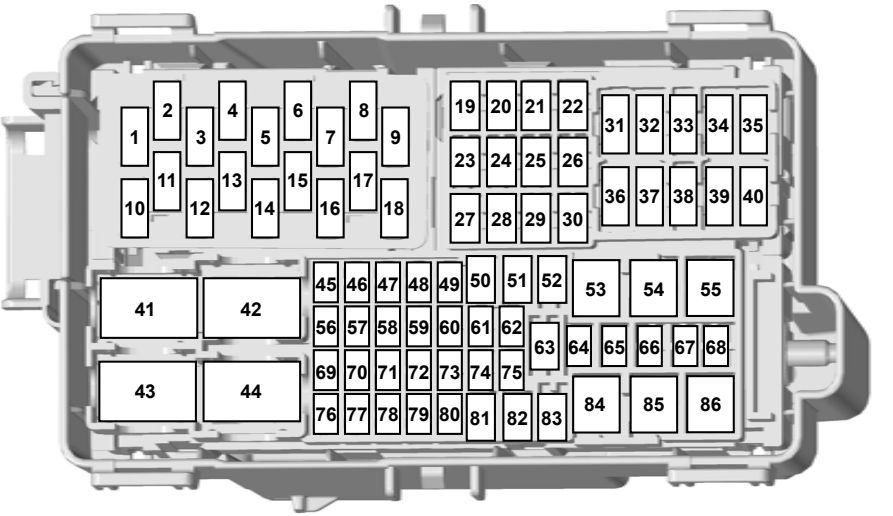
IDENTIFYING THE FUSES IN THE INTERIOR FUSE BOX



Driver Compartment Fuse Box

Item	Fuse Rating	Protected Component
1	5 A	USB port.
2	-	Not used.
3	5 A	USB port.
4	-	Not used.
5	-	Not used.
6	-	Not used.
7	-	Not used.
8	-	Not used.
9	10 A	Heated exterior mirrors.
10	5 A	Cooling fan.
11	-	Not used.

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Item	Fuse Rating	Protected Component
12	-	Not used.
13	-	Not used.
14	-	Not used.
15	-	Not used.
16	5 A	Rain sensor.
17	-	Not used.
18	20 A	Relay.
19	-	Not used.
20	-	Not used.
21	20 A	Heated rear window.
22	20 A	Heated rear window.
23	20 A	Auxiliary power point.
24	20 A	Auxiliary power point.
25	-	Not used.
26	25 A	Windshield wiper motor.
27	-	Not used.
28	30 A	Modified vehicle connections.
29	20 A	Fuel fired heater.
30	30 A	Power running boards.
31	-	Not used.
32	-	Not used.
33	-	Not used.
34	-	Not used.
35	-	Not used.
36	-	Not used.
37	-	Not used.
38	-	Not used.

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Item	Fuse Rating	Protected Component
39	-	Not used.
40	-	Not used.
41	25 A	Load shed relay.
42	40 A	Starter relay.
43	40 A	Upfitter relay.
44	40 A	Starter relay.
45	10 A	Upfitter interface module.
46	-	Not used.
47	-	Not used.
48	5 A	Modified vehicle connections.
49	10 A	Brake pedal switch.
50	30 A	Passenger power seat.
51	40 A	Modified vehicle connections.
52	30 A	Driver power seat.
53	60 A	Battery.
54	60 A	Power inverter.
55	50 A	Body control module.
56	10 A	Modified vehicle connections.
57	-	Not used.
58	10 A	Connector camper body interface. Upfitter interface. Secondary junction box.
59	10 A	Rear climate control. Front view camera. Rear view camera. Adaptive cruise control module. Blind spot information system.
60	10 A	Trailer brake control module.
61	-	Not used.

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Item	Fuse Rating	Protected Component
62	15 A	Enhanced cut off relay system module.
63	20 A	Auxiliary power point.
64	30 A	Modified vehicle connections.
65	-	Not used.
66	10 A	Enhanced cut off relay system. Camper. Load shed relay.
67	-	Not used.
68	5 A	Trailer tow module.
69	5 A	Steering wheel module.
70	5 A	Swivel seats.
71	10 A	Passenger heated seat.
72	10 A	Driver heated seat.
73	20 A	Headlamp leveling.
74	5 A	Temperature sensor.
75	20 A	Engine compartment fuse box.
76	10 A	Power sliding door control switch.
77	5 A	Headlamp switch.
78	7.5 A	Modified vehicle connections.
79	5 A	Driver compartment fuse box relay.
80	10 A	Diagnostic connector.
81	40 A	Trailer tow module.
82	30 A	Power sliding door.
83	30 A	Trailer brake control module.
84	50 A	Body control module.
85	30 A	Power sliding door.
86	50 A	Body control module.

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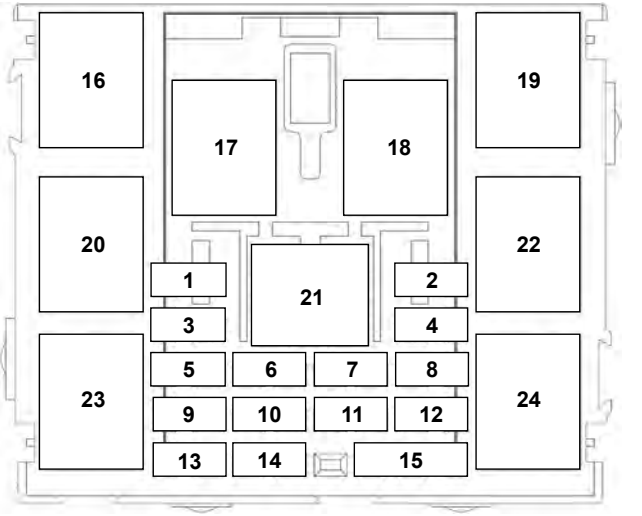

Passenger Compartment Fuse Box

Item	Fuse Rating	Protected Component
1	40 A	Relay 2.
2	40 A	Relay 3.
3	20 A	Relay 1.
4	20 A	Relay 4.
5	20 A	Relay 5.
6	-	Not used.
7	-	Not used.
8	20 A	Relay 7.
9	20 A	Relay 8.
10	-	Not used.
11	-	Not used.
12	20 A	Relay 9.

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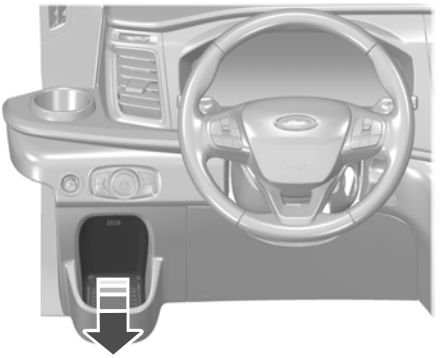
Item	Fuse Rating	Protected Component
13	20 A	Relay 6.
14	5 A	Ignition.
15	5 A	Power supply.
16	20 A	Auxiliary switch 3 relay.
17	40 A	Auxiliary switch 3 relay.
18	40 A	Auxiliary switch 3 relay.
19	20 A	Auxiliary switch 4 relay.
20	20 A	Auxiliary switch 5 relay.
21	20 A	Auxiliary fuse box relay.
22	20 A	Auxiliary switch 7 relay.
23	20 A	Auxiliary switch 8 relay.
24	20 A	Auxiliary switch 9 relay.

BODY CONTROL MODULE FUSE BOX

ACCESSING THE BODY CONTROL MODULE FUSE BOX



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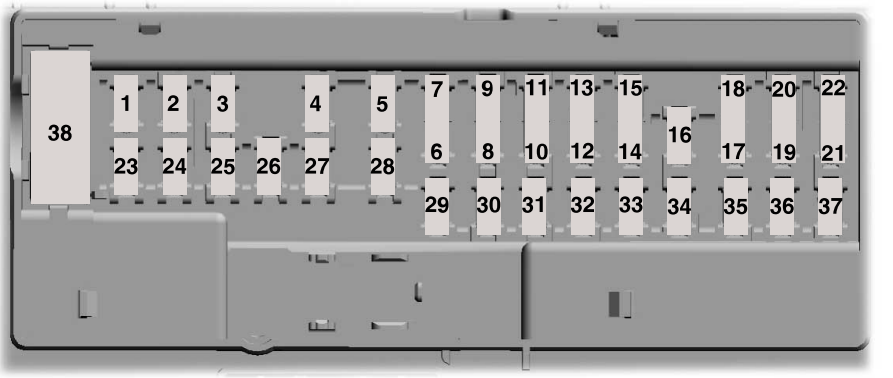
IDENTIFYING THE FUSES IN THE BODY CONTROL MODULE FUSE BOX



Item	Fuse Rating	Protected Component
1	-	Not used.
2	10 A	Power inverter.
3	7.5 A	Power window switch. Power exterior mirrors.
4	20 A	Not used.
5	-	Not used.
6	10 A	Not used.
7	10 A	Not used.
8	5 A	Telematics control unit module.
9	5 A	Rear air conditioning.
10	-	Not used.
11	-	Not used.
12	7.5 A	Climate control.
13	7.5 A	Data link connector.

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Item	Fuse Rating	Protected Component
		Steering column. Instrument cluster.
14	15 A	Not used.
15	15 A	SYNC 3 module. Integrated control panel.
16	-	Not used.
17	7.5 A	Not used.
18	7.5 A	Not used.
19	5 A	Not used.
20	5 A	Ignition switch.
21	5 A	Not used.
22	5 A	Not used.
23	30 A	Not used.
24	30 A	Not used.
25	20 A	Not used.
26	30 A	Not used.
27	30 A	Not used.
28	30 A	Not used.
29	15 A	Not used.
30	5 A	Not used.
31	10 A	Data link connector. Remote key receiver.
32	20 A	Radio.
33	-	Not used.
34	30 A	Run/Start relay. Parking aid. Steering column.
35	5 A	Not used.
36	15 A	Parking aid.

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Item	Fuse Rating	Protected Component
		Steering column control module.
37	20 A	Not used.
38	30 A	Power windows.

HIGH CURRENT FUSE BOX

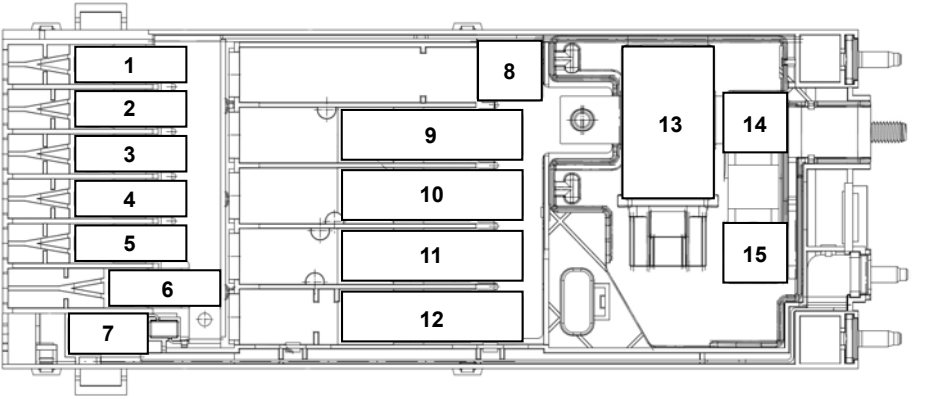
LOCATING THE HIGH CURRENT FUSE BOX

The high current fuse box is under the driver seat.

ACCESSING THE HIGH CURRENT FUSE BOX

Remove the trim panel.

IDENTIFYING THE FUSES IN THE HIGH CURRENT FUSE BOX



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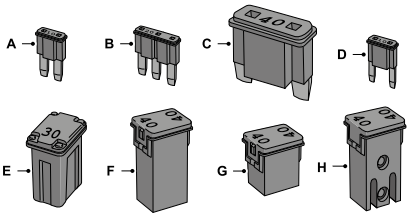
Item	Fuse Rating	Protected Component
1	125 A	Body control module.
2	80 A	Electronic power assist steering.
3	150 A	Positive temperature coefficient heater.
4	-	Not used.
5	60 A	Cooling fan.
6	150 A	Passenger compartment fuse box.
7	60 A	Camper.
8	-	Not used.
9	500 A	Starter motor. Alternator.
10	300 A	Engine compartment fuse box.
11	250 A	Dual generators.
12	150 A	Driver compartment fuse box.
13	190 A	Load shed relay.
14	175 A	Auxiliary power point 1.
15	60 A	Auxiliary power point 2.

IDENTIFYING FUSE TYPES



A	Micro 2.
B	Micro 3.
C	Maxi.
D	Mini.
E	M Case.
F	J Case.
G	J Case Low Profile.
H	Slotted M Case.

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FUSES – TROUBLESHOOTING

FUSES – FREQUENTLY ASKED QUESTIONS

When do I need to check a fuse?

If electrical components in the vehicle are not working.

When do I need to replace a fuse?

If a fuse has blown.

How do I identify a blown fuse?

You can identify a blown fuse by a broken wire within the fuse.

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MAINTENANCE PRECAUTIONS

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of authorized dealers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialized tools developed specifically for servicing your vehicle.

If your vehicle requires professional service, an authorized dealer can provide the necessary parts and service. Check your warranty information to find out which parts and services are covered.

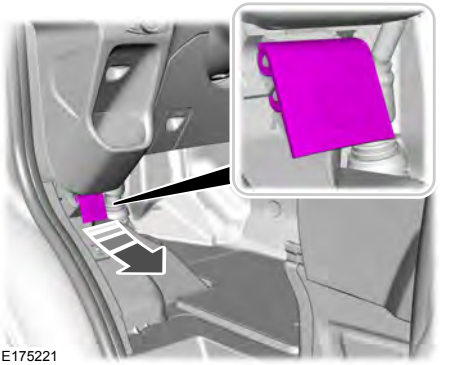
Use only recommended fluids and service parts conforming to specifications.

If you do not use oil and fluid that meets the defined specification and viscosity grade, it could result in:

- Component damage not covered by the vehicle Warranty.
- Longer engine cranking periods.
- Increased emission levels.
- Reduced engine performance.
- Reduced fuel economy.
- Reduced brake performance.

OPENING AND CLOSING THE HOOD

Opening the Hood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1. Pull the hood release lever.

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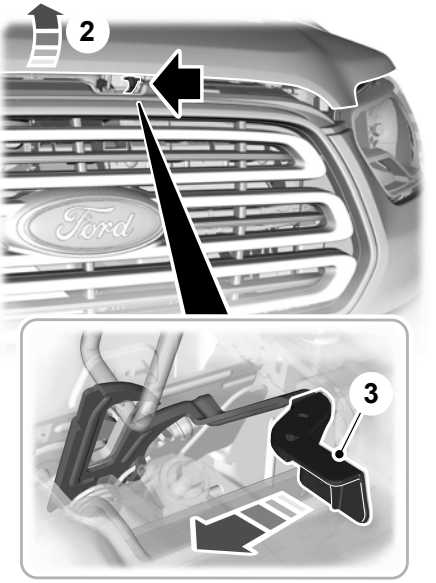

E217707

2. Slightly lift the hood.
3. Move the catch to the left.

E87786

4. Open the hood. Support the hood with the strut.

Closing the Hood

1. Remove the strut from the catch and secure it correctly in the clip.
2. Lower the hood and allow it to drop under its own weight for the last 8–12 in (20–30 cm).

Note: *Make sure that the hood is correctly closed.*

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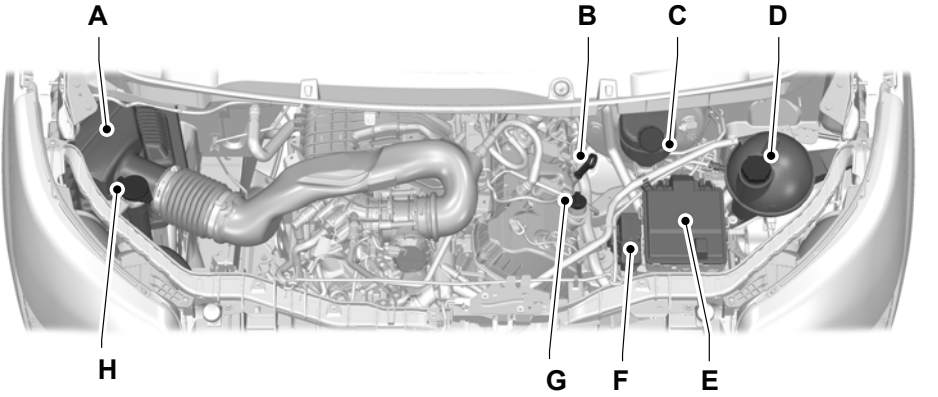
UNDER HOOD OVERVIEW - 3.5L DURATEC



A Air filter assembly.

B Engine oil dipstick. See **Engine Oil Dipstick Overview** (page 379).

C Brake fluid reservoir. See **Checking the Brake Fluid** (page 236).

D Engine coolant reservoir. See **Checking the Coolant Level** (page 382).

E Engine compartment fuse box. See **Under Hood Fuse Box** (page 359).

F Battery connection. See **Jump Starting the Vehicle** (page 350).

G Engine oil filler cap. See **Checking the Engine Oil Level** (page 379).

H Washer fluid reservoir. See **Adding Washer Fluid** (page 113).

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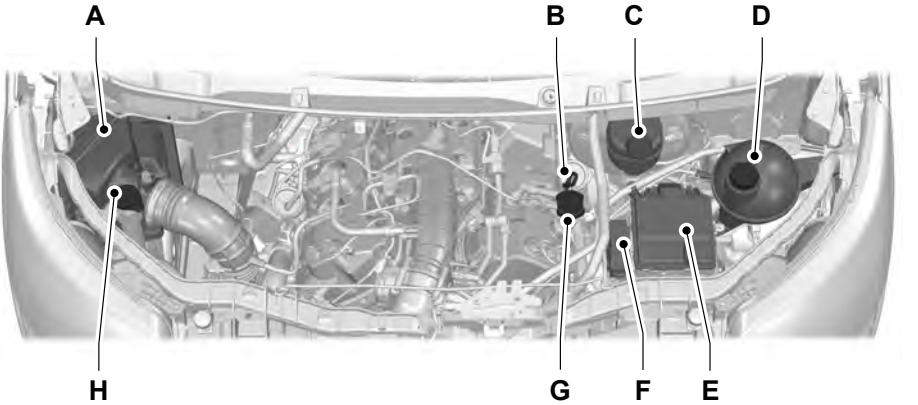
UNDER HOOD OVERVIEW - 3.5L ECOBOOST™



A Air filter assembly.

B Engine oil dipstick. See **Engine Oil Dipstick Overview** (page 379).

C Brake fluid reservoir. See **Checking the Brake Fluid** (page 236).

D Engine coolant reservoir. See **Checking the Coolant Level** (page 382).

E Engine compartment fuse box. See **Under Hood Fuse Box** (page 359).

F Battery connection. See **Jump Starting the Vehicle** (page 350).

G Engine oil filler cap. See **Checking the Engine Oil Level** (page 379).

H Washer fluid reservoir. See **Adding Washer Fluid** (page 113).

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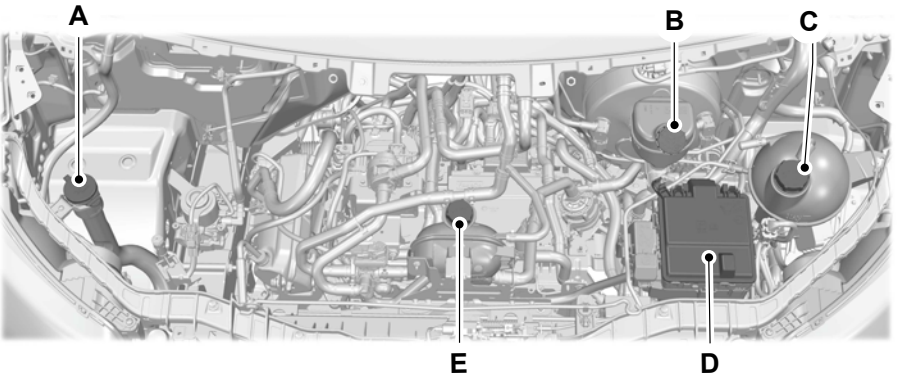
UNDER HOOD OVERVIEW - ELECTRIC MOTOR



A Washer system fluid reservoir. See **Adding Washer Fluid** (page 113).

B Brake fluid reservoir. See **Checking the Brake Fluid** (page 236).

C High temperature coolant reservoir. See **Checking the Coolant Level** (page 382).

D Under hood fuse box. See **Fuses** (page 358).

E Low temperature coolant reservoir. See **Checking the Coolant Level** (page 382).

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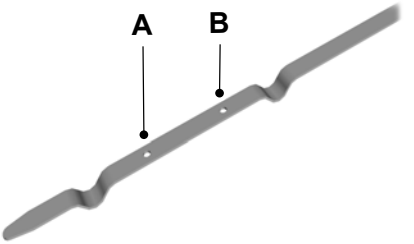
ENGINE OIL - 3.5L DURATEC/ 3.5L ECOBOOST™

ENGINE OIL DIPSTICK OVERVIEW - 3.5L DURATEC/3.5L ECOBOOST™



E174604

A Minimum.

B Maximum.

CHECKING THE ENGINE OIL LEVEL

1. Make sure that your vehicle is on level ground.
2. Check the oil level before starting the engine, or switch the engine off after warming up and wait 10 minutes for the oil to drain into the oil pan.
3. Remove the dipstick and wipe it with a clean, lint-free cloth.
4. Reinstall the dipstick and make sure it is fully seated.
5. Remove the dipstick again to check the oil level.

Note: *If the oil level is between the maximum and minimum marks, the oil level is acceptable. Do not add oil.*

6. If the oil level is at the minimum mark, immediately add oil.
7. Reinstall the dipstick. Make sure it is fully seated.

Note: *The oil consumption of new engines reaches its normal level after approximately 3,000 mi (5,000 km).*

ADDING ENGINE OIL

WARNING: Do not remove the filler cap when the engine is running.

WARNING: Do not add engine oil when the engine is hot. Failure to follow this instruction could result in personal injury.

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that the vehicle warranty may not cover.

1. Clean the area surrounding the engine oil filler cap before you remove it.
2. Remove the engine oil filler cap.
3. Add engine oil that meets our specifications. See **Capacities and Specifications** (page 449).
4. Reinstall the engine oil filler cap. Turn it clockwise until you feel a strong resistance.

Note: *Do not add oil further than the maximum mark. Oil levels above the maximum mark may cause engine damage.*

Note: *Immediately soak up any oil spillage with an absorbent cloth.*

RESETTING THE ENGINE OIL CHANGE REMINDER

Only reset the oil life monitoring system after changing the engine oil and oil filter.

1. Using the instrument cluster display controls on the steering wheel, select ***Settings***.

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2. Select ***Information***.
3. Select ***Oil Life***.
4. Press and hold the ***OK*** button until the system reset confirmation appears.

ENGINE OIL CAPACITY AND SPECIFICATION

For filling information, please refer to the Capacities and Specifications section of your owner's manual. See **Engine Oil Capacity and Specification** (page 380).

ENGINE OIL – INFORMATION MESSAGES

Message	Action
Change Engine Oil Soon	Displays when the engine oil life is becoming depleted. Have the engine oil changed as soon as possible.
Oil Change Required	Displays when the engine oil life is depleted. Have the engine oil changed as soon as possible.

ENGINE AIR FILTER - 3.5L DURATEC/3.5L ECOBOOST™

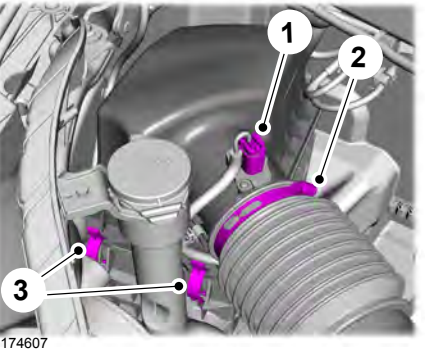
CHANGING THE ENGINE AIR FILTER

WARNING: To reduce the risk of vehicle damage and personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

Note: *Failure to use the correct air filter element may result in severe engine damage. Resulting component damage may not be covered by the vehicle Warranty.*

Only use the specified air filter. See **Capacities and Specifications** (page 449).

Change the air filter element at the correct service interval. See **Scheduled Maintenance** (page 518).



E174607

1. Disconnect the intake air temperature sensor electrical connector and cable from the air filter cover.
2. Clean the area around the air tube to air filter cover connection to prevent debris from entering the system and then loosen the bolt on the air tube clamp so the clamp is no longer snug to the air tube. It is not necessary to completely remove the clamp. Pull the air tube off from the air filter cover.

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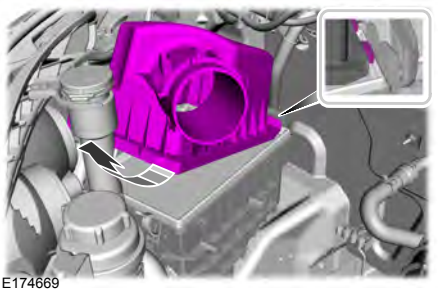
3. Release the clamps that secure the air filter cover to the air filter housing.


E174669

4. Carefully lift the air filter housing cover. Remove the air filter element from the air filter housing.
5. Install a new air filter element.
6. Replace the air filter housing cover. Engage the clamps that secure the air filter housing cover to the air filter housing. Be careful not to crimp the filter element edges between the air filter housing and cover. Make sure that the tabs on the edge are correctly aligned into the slots.
7. Slip the air tube onto the air filter cover and firmly tighten the bolt on the air tube clamp, but do not overtighten.
8. Reconnect the intake air temperature sensor electrical connector to the outlet tube. Make sure the locking tab on the connector is in the locked position.

ENGINE AIR FILTER - INFORMATION MESSAGES

Message	Action
Filter OK	Indicates the engine air filter is performing as expected.
Check Filter See Manual	Indicates that there is a higher than expected restriction across the engine air filter, which could represent an air filter at full useful life or a filter with an obstruction. When this displays, inspect the engine air filter and replace if necessary. After the inspection or engine air filter replacement, you must reset the system in order to change the status from Check Filter to Filter OK.
System Fault See Manual	Indicates that there is an error within the electronic air filter maintenance minder system requiring service.

ENGINE COOLING FAN - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Keep your hands and clothing clear of the engine cooling fan.

Under certain conditions, the engine cooling fan may continue to run for several minutes after you switch your vehicle off.

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COOLANT

COOLANT PRECAUTIONS

WARNING: Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.

WARNING: Do not put coolant in the windshield washer reservoir. If sprayed on the windshield, coolant could make it difficult to see through the windshield.

WARNING: To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure. Steam and hot liquid can come out forcefully when you loosen the cap slightly.

WARNING: Do not add coolant further than the ***MAX*** mark.

CHECKING THE COOLANT LEVEL

WARNING: Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.

WARNING: To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure. Steam and hot liquid can come out forcefully when you loosen the cap slightly.

WARNING: Do not add coolant further than the ***MAX*** mark.

When the engine is cold, check the concentration and level of the coolant at the intervals listed in the scheduled maintenance information. See **Scheduled Maintenance** (page 518).

Note: *Make sure that the coolant level is between the **MIN** and the **MAX** marks on the coolant reservoir.*

Note: *Coolant expands when it is hot. The level may extend beyond the **MAX** mark. This is normal.*

Maintain coolant concentration within 48% to 50%, which equates to a freeze point between -29ºF (-34ºC) and -35ºF (-37ºC). Coolant concentration should be checked using a refractometer. We do not recommend the use of hydrometers or coolant test strips for measuring coolant concentration.

ADDING COOLANT

WARNING: Do not add engine coolant when the engine is on or the cooling system is hot. Failure to follow this instruction could result in personal injury.

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WARNING: Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.

WARNING: Do not put coolant in the windshield washer reservoir. If sprayed on the windshield, coolant could make it difficult to see through the windshield.

Note: *Do not use stop leak pellets, cooling system sealants, or non-specified additives as they can cause damage to the engine cooling or heating systems. Resulting component damage may not be covered by the vehicle Warranty.*

Note: *Automotive fluids are not interchangeable.*

It is very important to use prediluted coolant approved to the correct specification in order to avoid plugging the small passageways in the engine cooling system. See **Capacities and Specifications** (page 449). Do not mix different colors or types of coolant in your vehicle. Mixing of engine coolants or using an incorrect coolant may harm the engine or cooling system components and may not be covered by the vehicle Warranty.

Note: *If prediluted coolant is not available, use the approved concentrated coolant diluting it to 50/50 with deionised or distilled water. See **Capacities and Specifications** (page 449). Using water that has not been deionised may contribute to deposit formation, corrosion and plugging of the small cooling system passageways.*

Note: *Coolants marketed for all makes and models may not be approved to our specifications and may cause damage to the cooling system. Resulting component damage may not be covered by the vehicle Warranty.*

If the coolant level is at or below the minimum mark, add prediluted coolant immediately.

To top up the coolant level do the following:

1. Unscrew the cap slowly. Any pressure escapes as you unscrew the cap.
2. Add prediluted coolant approved to the correct specification. See **Capacities and Specifications** (page 449).
3. Add enough prediluted coolant to reach the correct level.
4. Replace the coolant reservoir cap. Turn the cap clockwise until it contacts the hard stop.
5. Check the coolant level in the coolant reservoir the next few times you drive your vehicle. If necessary, add enough prediluted engine coolant to bring the coolant level to the correct level.

If you have to add more than 1.1 qt (1 L) of engine coolant per month, have your vehicle checked as soon as possible. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

In case of emergency, you can add a large amount of water without engine coolant in order to reach a vehicle service location.

Water alone, without engine coolant, can cause engine damage from corrosion, overheating or freezing.

Do not use the following as a coolant substitute:

- Alcohol.
- Methanol.

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- Brine.
- Any coolant mixed with alcohol or methanol antifreeze.

Alcohol and other liquids can cause engine damage from overheating or freezing.

Do not add extra inhibitors or additives to the coolant. These can be harmful and compromise the corrosion protection of the coolant.

CHANGING THE COOLANT

For coolant change, see your authorized dealer.

Changing the coolant is necessary at specific mileage intervals listed in the scheduled maintenance information. See **Scheduled Maintenance** (page 518).

MANAGING THE COOLANT TEMPERATURE

WARNING: To reduce the risk of crash and injury, be prepared that the vehicle speed may reduce and the vehicle may not be able to accelerate with full power until the coolant temperature reduces.

WARNING: If you continue to drive your vehicle when the engine is overheating, the engine could stop without warning. Failure to follow this instruction could result in the loss of control of your vehicle.

If you tow a trailer with your vehicle, the engine may temporarily reach a higher temperature during severe operating conditions, for example ascending a long or steep grade in high ambient temperatures.

At this time, you may notice the coolant temperature gauge moves toward the red zone and a message may appear in the information display.

You may notice a reduction in vehicle speed caused by reduced engine power in order to manage the engine coolant temperature. Your vehicle may enter this mode if certain high-temperature and high-load conditions take place. The amount of speed reduction depends on vehicle loading, grade and outside temperature. If this occurs, there is no need to stop your vehicle. You can continue to drive. See **Fail-Safe Cooling** (page 354).

The air conditioning may automatically turn on and off during severe operating conditions to protect the engine from overheating. When the coolant temperature decreases to the normal operating temperature, the air conditioning turns on.

If the coolant temperature gauge moves fully into the red zone, or if the coolant temperature warning or service engine soon messages appear in your information display, do the following:

1. Stop your vehicle as soon as it is safe to do so. Fully apply the parking brake, shift into park (P) or neutral (N).
2. Leave the engine running until the coolant temperature gauge needle returns to the normal position. If the temperature does not drop after several minutes, follow the remaining steps.
3. Switch the engine off and wait for it to cool. Check the coolant level.
4. If the coolant level is at or below the minimum mark, add prediluted coolant immediately.
5. If the coolant level is normal, restart the engine and continue.

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COOLANT – WARNING LAMPS

If the engine begins to overheat, the coolant temperature gauge moves toward the red zone.

A warning lamp illuminates and a message may appear in the information display.

COOLANT – INFORMATION MESSAGES

Message	Description and Action
High engine temperature Stop safely	Dipslays when the engine temperature is too high. Stop your vehicle as soon as it is safe to do so, switch the engine off and allow it to cool. If the problem persists, have your vehicle checked as soon as possible. See **Checking the Coolant Level** (page 382).

12V BATTERY

12V BATTERY PRECAUTIONS

WARNING: Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide correct ventilation.

WARNING: When lifting a plastic-cased battery, excessive pressure on the end walls could cause acid to flow through the vent caps, resulting in personal injury and damage to the vehicle or battery. Lift the battery with a battery carrier or with your hands on opposite corners.

WARNING: Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Shield your eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes and get prompt medical attention. If acid is swallowed, call a physician immediately.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling**.

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WARNING: This vehicle may have more than one battery. Removing the battery cables from only one battery does not disconnect your vehicle electrical system. Make sure you disconnect the battery cables from all batteries when disconnecting power. Failure to do so may cause serious personal injury or property damage.

WARNING: For vehicles with Auto-Start-Stop the battery requirement is different. You must replace the battery with one of exactly the same specification.

WHAT IS THE BATTERY MANAGEMENT SYSTEM

The battery management system monitors battery conditions and takes actions to extend battery life.

HOW DOES THE BATTERY MANAGEMENT SYSTEM WORK

If excessive battery drain is detected, the system temporarily disables some electrical systems to protect the battery.

Systems included are:

- Heated rear window.
- Heated seats.
- Climate control.
- Heated steering wheel.
- Audio unit.
- Navigation system.

A message could appear in the information display to alert you that battery protection actions are active. This message is only for notification that an action is taking place, and not intended to indicate an electrical problem or that the battery requires replacement.

BATTERY MANAGEMENT SYSTEM LIMITATIONS

After battery replacement, or in some cases after charging the battery with an external charger, the battery management system requires eight hours of vehicle sleep time to relearn the battery state of charge. During this time, your vehicle must remain fully locked with the ignition switched off.

Note: *Prior to relearning the battery state of charge, the battery management system could temporarily disable some electrical systems.*

Electrical Accessory Installation

To make sure the battery management system works correctly, do not connect an electrical device ground connection directly to the battery negative post. This can cause inaccurate measurements of the battery condition and potential incorrect system operation.

Note: *If you add electrical accessories or components to the vehicle, it could adversely affect battery performance and durability. This could also affect the performance of other electrical systems in the vehicle.*

CHANGING THE 12V BATTERY - 3.5L DURATEC/3.5L ECOBOOST™

The battery is under the driver seat.

Note: *If you have power seats and the battery has no charge, jump-start your vehicle to move the seat. See* ***Jump Starting the Vehicle*** *(page 349).*

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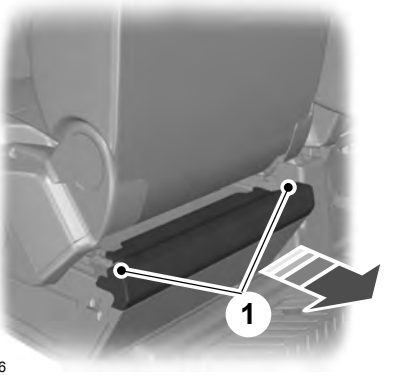
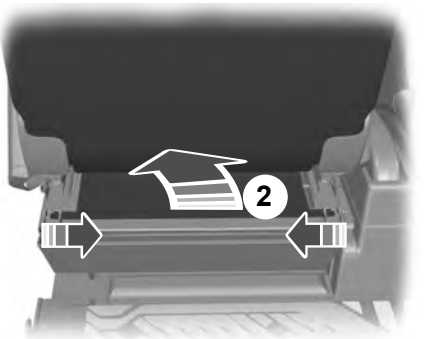
Removing the Battery



E152526

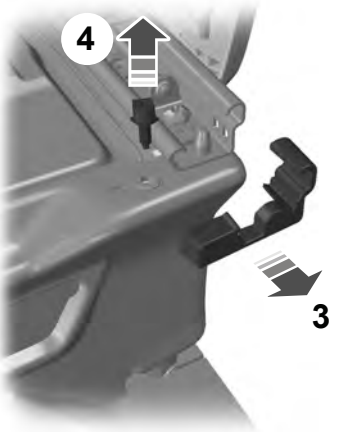
1. Fully raise the driver seat and move it fully forward. Pull the tabs upward and remove the cover.

Note: *Your vehicle may not have this cover.*



E152529

2. Unhook the cover and tuck it under the seat.

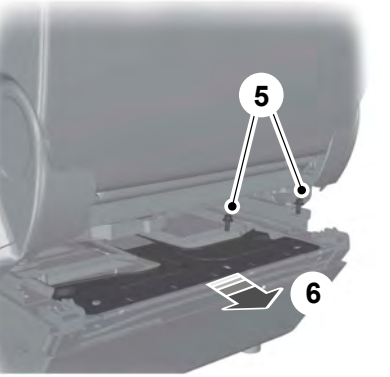


E146781

3. Remove both seat track end caps.

Note: *Your vehicle may not have these end caps.*

4. Remove both seat adjustment end stop bolts at the front of the seat.



E146773

5. Remove the battery clamp and cover bolts.
6. Remove the battery clamp and cover.

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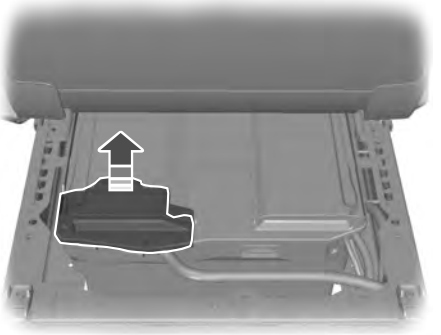
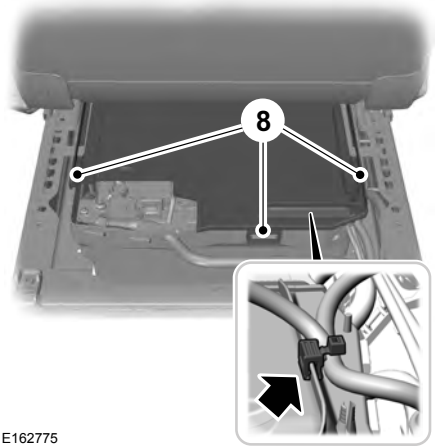


E162774

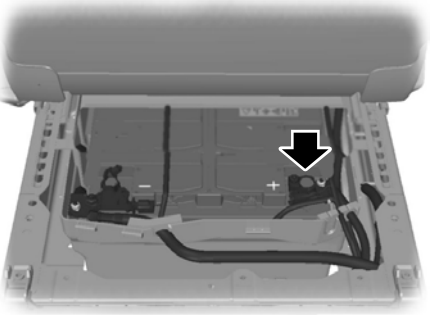
7. Remove the battery terminal cover and remove the negative (**-**) terminal.

Note: *Single batteries could be mounted the opposite way around in the battery tray. The negative terminal is toward the rear of your vehicle.*



E162775

8. Release the retaining clips and remove the cover.
9. Remove the cable securing clips from the cover.



E162776

10. Remove the positive (**+**) terminal and remove the battery.

Note: *Batteries are heavy.*

11. Move the second battery toward the rear of your vehicle and remove the negative (**-**) terminal.
12. Remove the positive (**+**) terminal and remove the battery.

Replacing the Battery

WARNING: Make sure that you securely fasten the seat runner bolts before installing the covers.

You must replace the battery with one of exactly the same specification.

To install, reverse the removal procedure.

Note: *Make sure that you correctly install the battery terminal covers, battery cover and battery cable clips.*

CHANGING THE 12V BATTERY - ELECTRIC MOTOR

If the 12 volt battery needs servicing, see your authorized dealer.

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RESETTING THE BATTERY SENSOR

When you install a new battery, reset the battery sensor by doing the following:

1. Switch the ignition on, and leave the engine off.

Note: *Complete Steps 2 and 3 within 10 seconds.*

2. Flash the high beam headlamps five times, ending with the high beams off.
3. Press and release the brake pedal three times.

The battery warning lamp flashes three times to confirm that the reset is successful.

RECYCLING AND DISPOSING OF THE 12V BATTERY

Make sure that you dispose of old batteries in an environmentally friendly way. Seek advice from your local authority about recycling old batteries.

CHARGING THE 12V BATTERY - ELECTRIC MOTOR

Your vehicle has a high voltage to low voltage energy transfer feature that keeps the 12 volt battery charged by the high voltage battery. If the 12 volt battery level is low, the high voltage battery transfers energy to the 12 volt battery when the vehicle is off.

12V BATTERY – TROUBLESHOOTING - ELECTRIC MOTOR

12V BATTERY – WARNING LAMPS

If it illuminates when the green ready to drive indicator is activated, this indicates your vehicle requires service. Have your vehicle checked as soon as possible.

12V BATTERY – INFORMATION MESSAGES

Message	Action
12V Battery Fault Service Soon	Your vehicle has a 12 volt battery problem. We recommend having the battery system checked by an authorized EV dealer.
Electric Range Reduced due to Park/Hazard Lamps On While Vehicle Off	The electric vehicle range is reduced due to the park and/or hazard lamps on while your vehicle was off.
Electrical System Drain Service Required	Your vehicle has an electrical drain within the vehicle. Please check for any after-market devices that could be draining the battery. If none are found, please have your vehicle serviced by an authorized EV dealer.

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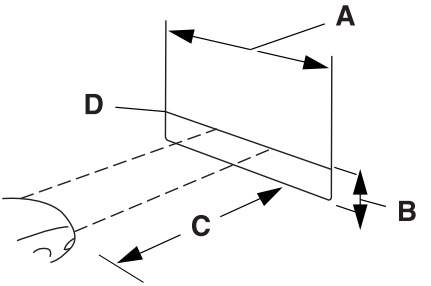
ADJUSTING THE HEADLAMPS

Vertical Aim Adjustment

If your vehicle has been involved in a crash, have the aim of the headlamp beam checked by an authorized dealer.

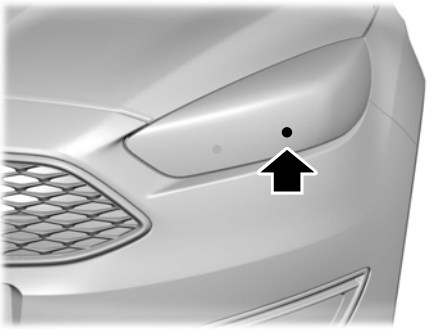
Headlamp Aiming Target



A	8 ft (2.4 m)
B	Ground to the center of the headlamp low beam bulb
C	25 ft (7.6 m)
D	Horizontal reference line

Vertical Aim Adjustment Procedure

1. Park your vehicle on level ground approximately 25 ft (7.6 m) from a wall or screen.
2. Measure the distance from the ground to the center of the headlamp low beam bulb and mark an 8 ft (2.4 m) long horizontal reference line on the wall or screen at this height.

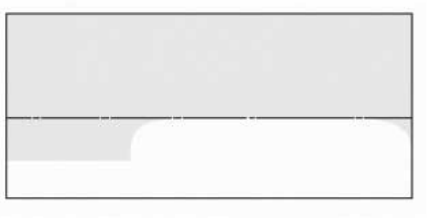


E199411

Note: *There may be an identifying mark on the lens to help you locate the center of the bulb.*

Note: *To see a clearer light pattern while adjusting one headlamp, you may want to block the light from the other headlamp.*

3. Switch on the low beam headlamps and open the hood.



4. On the wall or screen you will observe a flat zone of high intensity light located at the top of the beam pattern. If the top edge of the flat zone of high intensity light is not on the horizontal reference line, adjust the aim of the headlamp beam.

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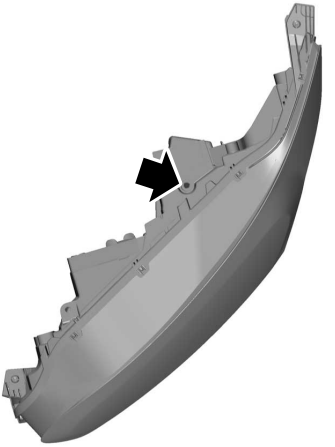

E164485

5. Locate the vertical adjuster on each headlamp. Use a suitable tool, for example a screwdriver or hexagonal socket, to turn the adjuster clockwise or counterclockwise to adjust the vertical aim of the headlamp. The horizontal edge of the brighter light should touch the horizontal reference line.
6. Close the hood and switch off the lamps.

Horizontal Aim Adjustment

The horizontal aim of the headlamp beam on your vehicle is not adjustable.

EXTERIOR BULBS

EXTERIOR BULB SPECIFICATION CHART

Replacement bulbs are specified in the chart below. Headlamp bulbs must be marked with an authorized D.O.T. marking for North America to make sure they have the proper lamp performance, light brightness, light pattern and safe visibility. The correct bulbs will not damage the lamp assembly or void the lamp assembly warranty and will provide quality bulb illumination time.

Lamp	Specification	Power (Watt)
Headlamp low beam and headlamp high beam.[1]	D5S	25
Daytime running lamps.[1]	LED.	LED.
Headlamp low beam and daytime running lamp.[2]	H11	55
Headlamp high beam.[2]	9005	60
Cornering lamps.	H11	55

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Lamp	Specification	Power (Watt)
Front fog lamp.	H8	35
Front parking lamp.	3457NAK	21
Front turn signal lamp.[1]	PY24W	24
Front turn signal lamp.[2]	3457NAK	21
Front side marker lamp.[3]	W5W	5
Clearance lamp.	W5WL	5
Body side marker lamp.	W5W	5
Mirror turn signal lamp.[4]	W16W	16
Mirror turn signal lamp.[5]	WY5W	5
Rear lamp and stoplamp.	P21/5W	21/5
Reversing lamp.	P21W	21
Rear turn signal lamp.	PY21W	21
Rear fog lamp.	P21W	21
High mounted stoplamp.	LED.	LED.
License plate lamp.	W5W	5
Chassis cab rear marker lamp.	W5W	5
Roof outline marker lamp.	W5W	5

[1] Vehicles with High Intensity Discharge Headlamps.
[2] Vehicles with Halogen Headlamps.
[3] Front side marker lamps are also available as LED lamps.
[4] High Watt.
[5] Low Watt.
Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

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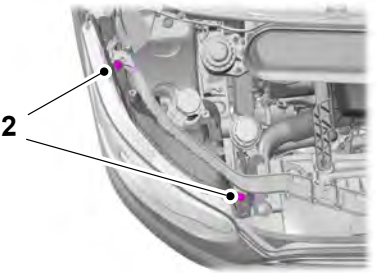
REMOVING A HEADLAMP ASSEMBLY

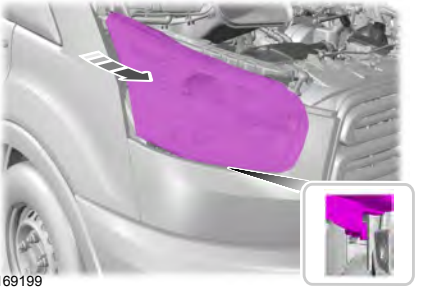
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

1. Open the hood. See **Opening and Closing the Hood** (page 374).



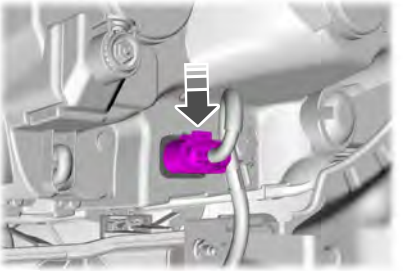
E169198

2. Remove the screws.



E169199

3. Pull the headlamp toward the front of your vehicle to disengage it from its locking points and then lift the headlamp up.



E169200

4. Disconnect the electrical connector.
5. To install, reverse the removal procedure.

Note: *When you install the headlamp, make sure that you correctly attach the electrical connector.*

Note: *When you install the headlamp, make sure that you correctly engage its locking points.*

REMOVING A REAR LAMP ASSEMBLY

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

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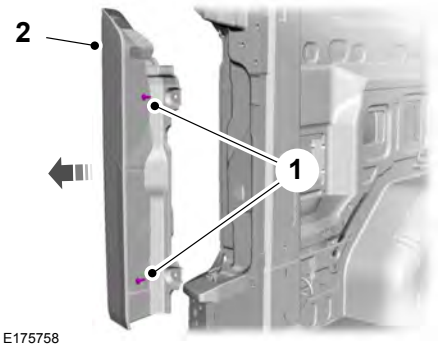


1. Remove the screws.
2. Remove the lamp.
3. To install, reverse the removal procedure.

CHANGING A HEADLAMP BULB

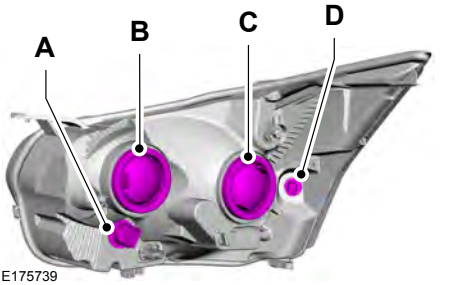
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

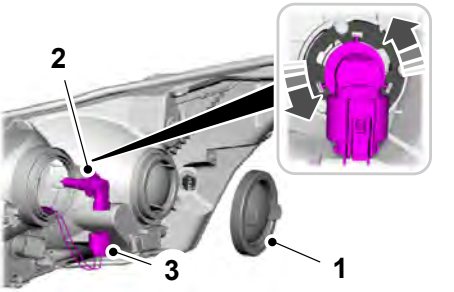
You must remove the headlamp assembly prior to replacing any bulb. See **Removing a Headlamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



A	Front parking lamp and front turn signal lamp.
B	Headlamp high beam.
C	Headlamp low beam and daytime running lamp.
D	Front side marker lamp.

Replacing the Headlamp High Beam Bulbs



1. Carefully remove the cover.
2. Turn the bulb counterclockwise and remove it.
3. Disconnect the electrical connector.
4. To install, reverse the removal procedure.

Note: *Do not touch the bulb glass.*

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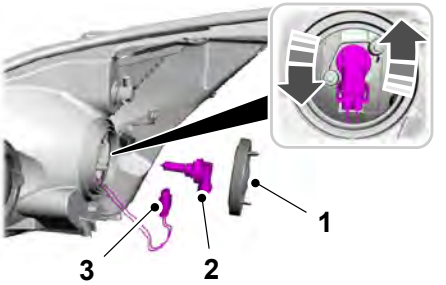
Note: *You cannot separate the bulb from the bulb holder.*

Replacing the Headlamp Low Beam and Daytime Running Lamp Bulbs



1. Carefully remove the cover.
2. Turn the bulb counterclockwise and remove it.
3. Disconnect the electrical connector.
4. To install, reverse the removal procedure.

Note: *Do not touch the bulb glass.*

Note: *You cannot separate the bulb from the bulb holder.*

Replacing the High Intensity Discharge Headlamp Bulbs

These lamps operate at a high voltage. See an authorized dealer if they fail.

CHANGING A FRONT PARKING LAMP BULB

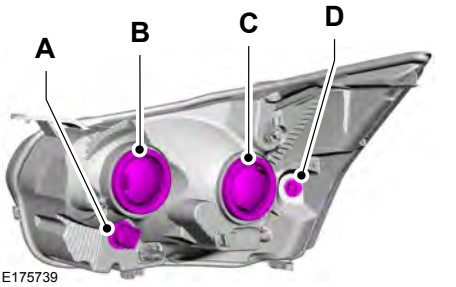
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

You must remove the headlamp assembly prior to replacing any bulb. See **Removing a Headlamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



A	Front parking lamp and front turn signal lamp.
B	Headlamp high beam.
C	Headlamp low beam and daytime running lamp.
D	Front side marker lamp.

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Replacing the Front Parking Lamp and Front Turn Signal Lamp Bulbs

1. Turn the bulb holder counterclockwise and remove it.
2. Remove the bulb by pulling it straight out.
3. To install, reverse the removal procedure.

CHANGING A FRONT TURN SIGNAL LAMP BULB

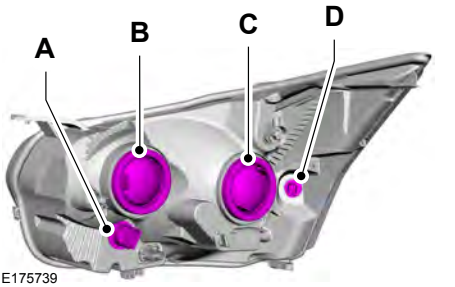
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

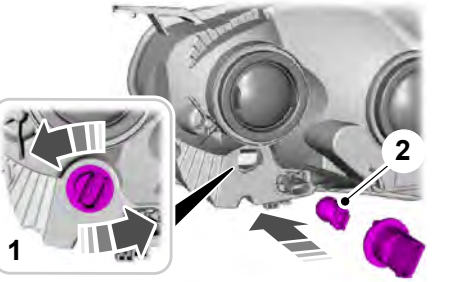
You must remove the headlamp assembly prior to replacing any bulb. See **Removing a Headlamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



A	Front parking lamp and front turn signal lamp.
B	Headlamp high beam.
C	Headlamp low beam and daytime running lamp.
D	Front side marker lamp.

Replacing the Front Parking Lamp and Front Turn Signal Lamp Bulbs



1. Turn the bulb holder counterclockwise and remove it.
2. Remove the bulb by pulling it straight out.
3. To install, reverse the removal procedure.

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CHANGING A FRONT SIDE MARKER LAMP BULB

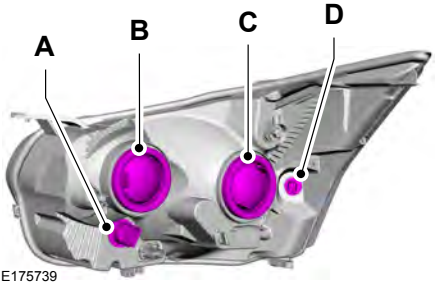
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

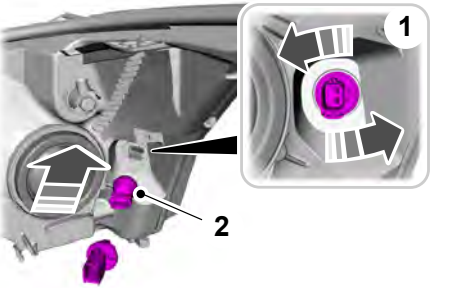
You must remove the headlamp assembly prior to replacing any bulb. See **Removing a Headlamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



A	Front parking lamp and front turn signal lamp.
B	Headlamp high beam.
C	Headlamp low beam and daytime running lamp.
D	Front side marker lamp.

Replacing the Front Side Marker Lamp Bulbs



1. Turn the bulb holder counterclockwise and remove it.
2. Remove the bulb by pulling it straight out.
3. To install, reverse the removal procedure.

CHANGING A CLEARANCE LAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

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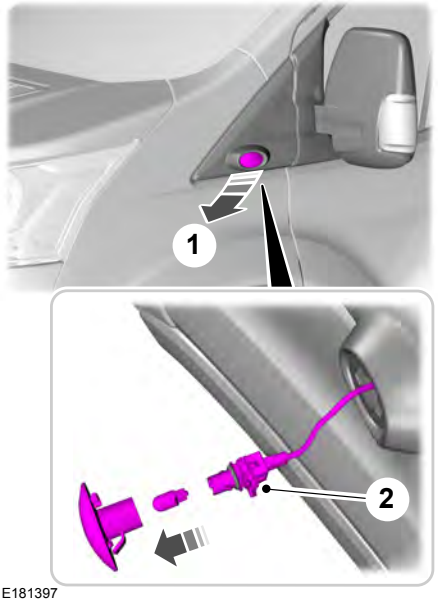


E181397

1. Use a suitable tool, for example a screwdriver, to carefully remove the lamp.
2. Turn the bulb holder counterclockwise and remove it.
3. Remove the bulb by pulling it straight out.
4. To install, reverse the removal procedure.

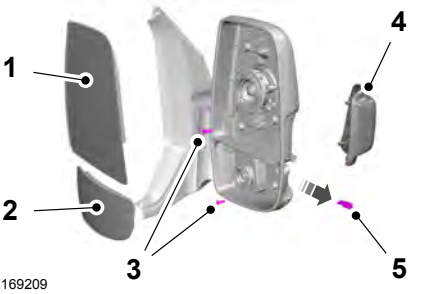
CHANGING A MIRROR TURN SIGNAL LAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



E169209

1. Remove the large mirror glass. Tilt the mirror glass fully up and pull the mirror glass toward you from the bottom.
2. Remove the small mirror glass. Tilt the mirror glass fully down and pull the mirror glass toward you from the top.
3. Remove the screws.
4. Remove the lamp lens.
5. Remove the bulb.
6. To install, reverse the removal procedure.

CHANGING A REAR LAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

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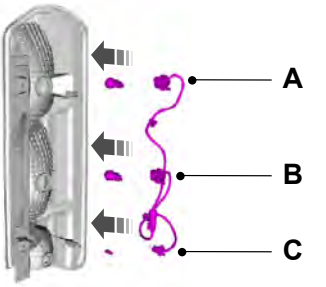
WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

You must remove the rear lamp assembly prior to replacing any bulb. See **Removing a Rear Lamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

1. Turn the bulb holder counterclockwise and remove it.



A	Tail lamp and stoplamp.
B	Reversing lamp.
C	Rear clearance lamp.

2. Remove the bulb by pulling it straight out.

3. To install, reverse the removal procedure.

CHANGING A STOPLAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

You must remove the rear lamp assembly prior to replacing any bulb. See **Removing a Rear Lamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

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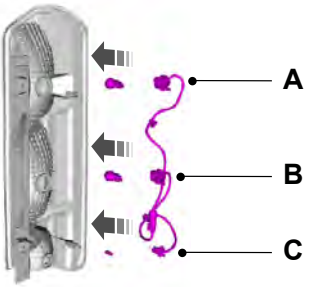
1. Turn the bulb holder counterclockwise and remove it.



A Tail lamp and stoplamp.

B Reversing lamp.

C Rear clearance lamp.

2. Remove the bulb by pulling it straight out.

3. To install, reverse the removal procedure.

CHANGING A REVERSING LAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

You must remove the rear lamp assembly prior to replacing any bulb. See **Removing a Rear Lamp Assembly** (page 393).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

1. Turn the bulb holder counterclockwise and remove it.

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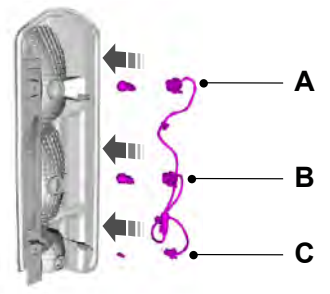


A Tail lamp and stoplamp.

B Reversing lamp.

C Rear clearance lamp.

2. Remove the bulb by pulling it straight out.

3. To install, reverse the removal procedure.

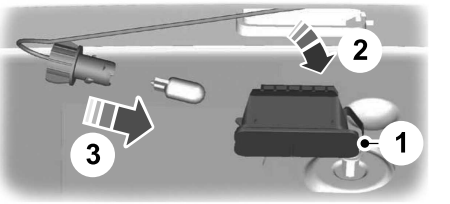
CHANGING A LICENSE PLATE LAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



1. Carefully release the spring clip.
2. Remove the lamp.
3. Turn the bulb holder counterclockwise and remove it. Remove the bulb by pulling it straight out.
4. To install, reverse the removal procedure.

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INTERIOR BULBS

INTERIOR BULB SPECIFICATION CHART

Lamp	Specification	Power (Watt)
Front interior lamp.	W6W	6
Front interior lamp.[1]	Festoon	6
Luggage compartment lamp.	211 Festoon	10
Map reading lamp.	W6W	6
Side door entrance lamp.	211 Festoon	10

[1] Vehicles with anti-theft alarm.
Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

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CHANGING A FRONT INTERIOR LAMP BULB

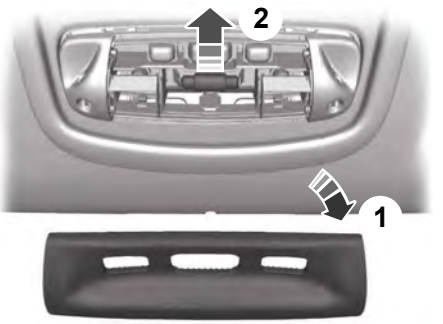
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

Vehicles With Interior Sensors



E154370

1. Carefully remove the lens.
2. Remove the bulb.
3. To install, reverse the removal procedure.

CHANGING A MAP READING LAMP BULB

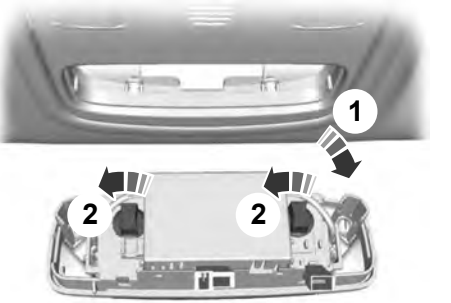
WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*

Vehicles With Interior Sensors



E72786

1. Use a suitable tool, for example a screwdriver, to carefully remove the lamp.
2. Turn the bulb holder counterclockwise and remove it.

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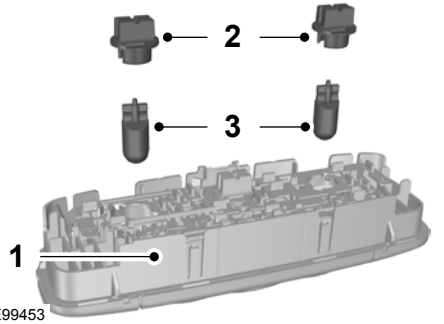
E73939

3. Remove the bulb.
4. To install, reverse the removal procedure.

Vehicles Without Interior Sensors



E99453

1. Use a suitable tool, for example a screwdriver, to carefully remove the lamp.
2. Turn the bulb holder counterclockwise and remove it.
3. Remove the bulb.
4. To install, reverse the removal procedure.

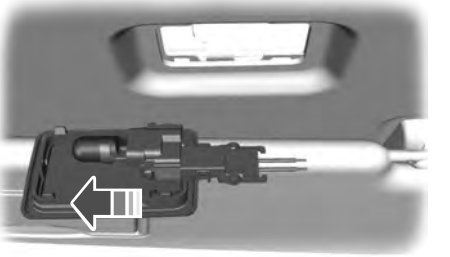
CHANGING A VANITY MIRROR LAMP BULB

WARNING: Switch the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.

WARNING: Make sure the bulbs have cooled down before removing them. Failure to follow this warning could result in serious personal injury.

Use the correct specification bulb. See **Exterior Bulb Specification Chart** (page 391).

Note: *LED lamps are not serviceable. See an authorized dealer if they fail.*



E72785

1. Use a suitable tool, for example a screwdriver, to carefully remove the lamp.
2. Remove the bulb.
3. To install, reverse the removal procedure.

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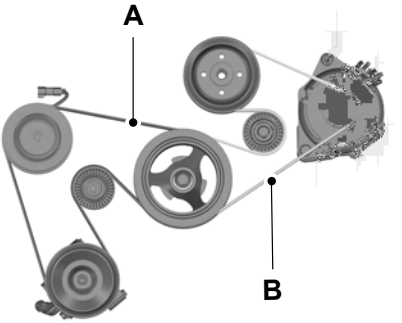
FUEL FILTER - 3.5L DURATEC/ 3.5L ECOBOOST™

Your vehicle is equipped with a lifetime fuel filter that is integrated with the fuel tank. Regular maintenance or replacement is not needed.

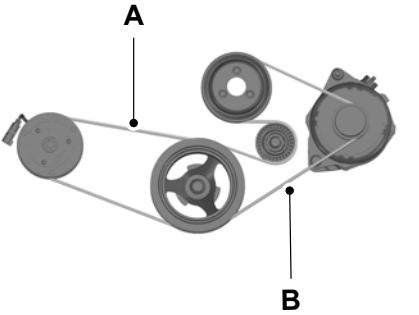
DRIVE BELT ROUTING - 3.5L DURATEC/3.5L ECOBOOST™, VEHICLES WITH: DUAL GENERATORS



A Drives the air conditioning compressor and a generator.

B Drives the coolant pump and a generator.

DRIVE BELT ROUTING - 3.5L DURATEC/3.5L ECOBOOST™, VEHICLES WITH: SINGLE GENERATOR



A Drives the air conditioning compressor.

B Drives the coolant pump and the generator.

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CLEANING THE EXTERIOR

CLEANING THE EXTERIOR PRECAUTIONS

Immediately remove fuel spillages, additive residuals, bird droppings, insect deposits and road tar. These may cause damage to your vehicle's paintwork or trim over time.

Remove any exterior accessories, for example antennas, before entering a car wash.

CLEANING HEADLAMPS AND REAR LAMPS

We recommend that you only use cold or lukewarm water containing car shampoo to clean the headlamps and the rear lamps.

Do not scrape the lamps.

Do not wipe lamps when they are dry.

CLEANING WINDOWS AND WIPER BLADES

To clean the windshield and wiper blades:

- Clean the windshield with a non-abrasive glass cleaner.

Note: *When cleaning the interior of the windshield, avoid getting any glass cleaner on the instrument panel or door panels. Wipe any glass cleaner off these surfaces immediately.*

- Clean the wiper blades with washer fluid or water applied with a soft sponge or cloth.

Note: *Do not use razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window. This can cause damage not covered by the vehicle Warranty.*

CLEANING CHROME, ALUMINIUM OR STAINLESS STEEL

We recommend that you only use a car shampoo, a soft cloth and water on bumpers and other chrome, aluminium or stainless steel parts.

Note: *For additional information and assistance, we recommend that you contact an authorized dealer.*

Note: *Rinse the area well after cleaning.*

Note: *Do not use abrasive materials, for example steel wool or plastic pads, as they can scratch these surfaces.*

Note: *Do not use chrome cleaner, metal cleaner or polish on wheels or wheel covers.*

CLEANING WHEELS

Only use a recommended wheel and tire cleaner to clean the wheels weekly. For additional information and assistance, we recommend that you contact an authorized dealer.

1. Use a sponge to remove heavy deposits of dirt and brake dust.
2. Rinse well after cleaning.

Note: *Do not apply a cleaning chemical to warm or hot wheel rims and covers.*

If you intend on parking your vehicle for an extended period after cleaning the wheels with a wheel cleaner, drive your vehicle for a few minutes before parking your vehicle. This reduces the risk of corrosion of the brake discs, brake pads and linings.

Do not clean the wheels when they are hot.

Note: *Some car washes could damage wheel rims and covers.*

Note: *Using non-recommended cleaners, harsh cleaning products, chrome wheel cleaners or abrasive materials could damage wheel rims and covers.*

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CLEANING THE ENGINE COMPARTMENT - 3.5L DURATEC/ 3.5L ECOBOOST™

Use a vacuum cleaner to remove debris from the screen area below windshield.

Note: *If you are not familiar with the parts around the engine do not wash the engine compartment. Avoid frequent engine washes.*

When washing the engine compartment:

- Never wash or rinse the engine while it is hot or running.
- Never wash or rinse any ignition coil, spark plug wire or spark plug well.
- Cover the battery, power distribution box, and air filter assembly to prevent water damage.

Note: *If your vehicle has an engine cover remove the cover before application of shampoo and degreaser.*

- Spray an approved engine shampoo and degreaser on all parts that require cleaning and rinse with water.

CLEANING STRIPES OR GRAPHICS

It is recommended to wash your vehicle by hand however, pressure washing may be used under the following conditions:

- Use a spray with a 40º wide spray angle pattern.
- Keep the nozzle at a 12 in (305 mm) distance and 90º angle to your vehicle's surface.
- Do not use water pressure higher than 2,000 psi (14,000 kPa).
- Do not use water hotter than 179ºF (82ºC).

Note: *Holding the pressure washer nozzle at an angle to the vehicle's surface may damage graphics and cause the edges to peel away from the vehicle's surface.*

CLEANING CAMERA LENSES AND SENSORS

We recommend that you only use lukewarm or cold water and a soft cloth to clean the camera lens and sensors.

Note: *Do not pressure wash camera lens and sensors.*

CLEANING THE UNDERBODY

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

Rear suspension components may require regular cleaning with a power washer or a thorough rinse with a strong stream of water if the vehicle is operated in dusty or muddy environments. Rear leaf springs or other suspension components may emit squeaking or popping noises while operating the vehicle if particles, such as dirt, rocks, or other debris, are present in the components.

CLEANING THE INTERIOR

CLEANING THE INSTRUMENT PANEL

WARNING: Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.

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We recommend that you only clean the instrument panel and cluster lens with a damp soft cloth. Dry the area with a clean, soft cloth.

For additional information and assistance, we recommend that you contact an authorized dealer.

Note: *Avoid cleaners or polishes that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect you from undesirable windshield reflection.*

CLEANING PLASTIC

We recommend that you only use a mild soap and water solution on a soft cloth. Dry the area with a clean, soft cloth.

CLEANING DISPLAYS AND SCREENS

We recommend that you only use a microfiber cloth in a circular motion to clean off the fingerprint or dust.

If dirt or fingerprints are still on the screen, apply a small amount of alcohol to the cloth and try to clean it again.

Note: *Do not pour or spray alcohol onto the touchscreen.*

Note: *Do not use detergent or any type of solvent to clean the touchscreen.*

CLEANING FABRIC

WARNING: On vehicles equipped with seat-mounted airbags, do not use chemical solvents or strong detergents. Such products could contaminate the side airbag system and affect performance of the side airbag in a crash.

We recommend that you only clean fabric in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
3. For additional information and assistance, we recommend that you contact an authorized dealer.

For heavy stains, spot clean the area. If a ring forms on the fabric, clean the entire area immediately, but do not oversaturate or the ring could set.

CLEANING LEATHER

WARNING: On vehicles equipped with seat-mounted airbags, do not use chemical solvents or strong detergents. Such products could contaminate the side airbag system and affect performance of the side airbag in a crash.

We recommend that you only clean the leather surfaces in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
3. Make sure the leather is dry, then apply a small amount of conditioner to a clean, dry cloth.
4. Rub the conditioner into the leather until it disappears. Allow the conditioner to dry, then repeat the process for the entire interior. If a film appears, wipe it off with a dry, clean cloth.

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5. For additional information and assistance, we recommend that you contact an authorized dealer.

CLEANING VINYL

WARNING: On vehicles equipped with seat-mounted airbags, do not use chemical solvents or strong detergents. Such products could contaminate the side airbag system and affect performance of the side airbag in a crash.

We recommend that you only clean vinyl surfaces in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
3. For additional information and assistance, we recommend that you contact an authorized dealer.

CLEANING CARPETS AND FLOOR MATS

We recommend that you only clean your carpets in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
3. For additional information and assistance, we recommend that you contact an authorized dealer.

For heavy stains, spot clean the area. If a ring forms on the fabric, clean the entire area immediately, but do not oversaturate or the ring could set.

We recommend that you only clean your floor mats in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wash rubber floor mats using mild soap and lukewarm or cold water.
3. Completely dry the floor mat before placing them back in your vehicle.

CLEANING SEATBELTS

WARNING: Do not use cleaning solvents, bleach or dye on the vehicle's seatbelts, as these actions may weaken the belt webbing.

1. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.

CLEANING STORAGE COMPARTMENTS

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.

REPAIRING MINOR PAINT DAMAGE

Authorized dealers have touch-up paint to match your vehicle’s color. Your vehicle color code is printed on a sticker on the front, left-hand side door jamb. Take your color code to your authorized dealer to make sure you get the correct color.

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Before repairing minor paint damage, use a cleaner to remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout.

Read the instructions before using cleaning products.

WAXING YOUR VEHICLE

Wax the high-gloss painted surface of your prewashed vehicle once or twice a year.

We recommend that you only use an approved quality wax that does not contain abrasives. Follow the manufacturer's instructions to apply and remove the wax. For additional information and assistance, we recommend that you contact an authorized dealer.

When washing and waxing, park your vehicle in a shaded area out of direct sunlight.

Note: *Avoid waxing unpainted or low-gloss black colored parts, they discolor over time.*

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LOCATING THE TIRE LABEL

The tire label or safety certification label is on the driver side B-pillar or the edge of the driver door. It contains information on the recommended front and rear tire inflation pressures. See **Locating the Safety Compliance Certification Labels** (page 323).

DEPARTMENT OF TRANSPORTATION UNIFORM TIRE QUALITY GRADES

Tire Quality Grades apply to new pneumatic passenger car tires. The 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**.

These Tire Quality Grades are determined by standards that the United States Department of Transportation has set.

Tire Quality Grades apply to new pneumatic passenger car tires. They do not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, light truck or LT type tires, tires with nominal rim diameters of 10 to 12 inches or limited production tires as defined in Title 49 Code of Federal Regulations Part 575.104 (c)(2).

U.S. Department of Transportation Tire quality grades: The U.S. Department of Transportation requires us to give you the following information about tire grades exactly as the government has written it.

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 1½ 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.

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Traction AA A B C

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.

The traction grades, from highest to lowest are AA, A, B, and C. The 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.

Temperature A B C

WARNING: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

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 Vehicle Safety Standard No. 139. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

INFORMATION ON THE TIRE SIDEWALL

Both United States and Canada Federal regulations require 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 a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

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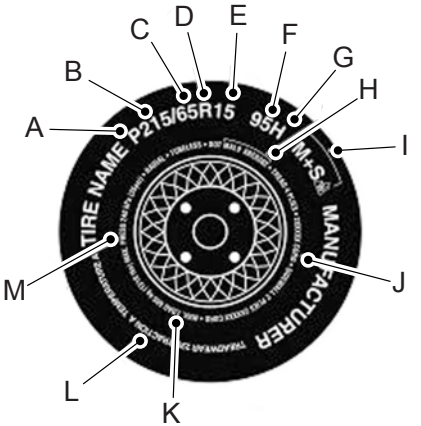
Information on P Type Tires



P215/65R15 95H is an example of a tire size, load index and speed rating. The definitions of these items are listed below. (Note that the tire size, load index and speed rating for your vehicle may be different from this example.)

A. **P:** Indicates a tire, designated by the Tire and Rim Association, that may be used for service on cars, sport utility vehicles, minivans and light trucks. **Note:** If your tire size does not begin with a letter this may mean it is designated by either the European Tire and Rim Technical Organization or the Japan Tire Manufacturing Association.

B. **215:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

C. **65:** Indicates the aspect ratio which gives the tire's ratio of height to width.

D. **R:** Indicates a radial type tire.

E. **15:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

F. **95:** Indicates the tire's load index. It is an index that relates to how much weight a tire can carry. You may find this information in your owner’s manual. If not, contact a local tire dealer.

Note: *You may not find this information on all tires because it is not required by federal law.*

G. **H:** Indicates the tire's speed rating. The speed rating denotes the speed at which a tire is designed to be driven for extended periods of time under a standard condition of load and inflation pressure. The tires on your vehicle may operate at different conditions for load and inflation pressure. These speed ratings may need to be adjusted for the difference in conditions. The ratings range from 81 mph (130 km/h) to 186 mph (299 km/h). These ratings are listed in the following chart.

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Note: *You may not find this information on all tires because it is not required by federal law.*

Letter rating	Speed rating
M	81 mph (130 km/h)
N	87 mph (140 km/h)
Q	99 mph (159 km/h)
R	106 mph (171 km/h)
S	112 mph (180 km/h)
T	118 mph (190 km/h)
U	124 mph (200 km/h)
H	130 mph (210 km/h)
V	149 mph (240 km/h)
W	168 mph (270 km/h)
Y	186 mph (299 km/h)

Note: *For tires with a maximum speed capability over 149 mph (240 km/h), tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 186 mph (299 km/h), tire manufacturers always use the letters ZR.*

H. **U.S. DOT Tire Identification Number (TIN):** This begins with the letters DOT and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000, the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

I. **M+S or M/S:** Mud and Snow, or

AT: All Terrain, or

AS: All Season.

J. **Tire Ply Composition and Material Used:** Indicates the number of plies or the number of layers of rubber-coated fabric in the tire tread and sidewall. Tire manufacturers also must indicate the ply materials in the tire and the sidewall, which include steel, nylon, polyester, and others.

K. **Maximum Load:** Indicates the maximum load in kilograms and pounds that can be carried by the tire. See the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), for the correct tire pressure for your vehicle.

L. **Treadwear, Traction and Temperature Grades:**

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*__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 times as well on the government course as a tire graded 100.

*__Traction:__ The traction grades, from highest to lowest are AA, A, B, and C. The 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.

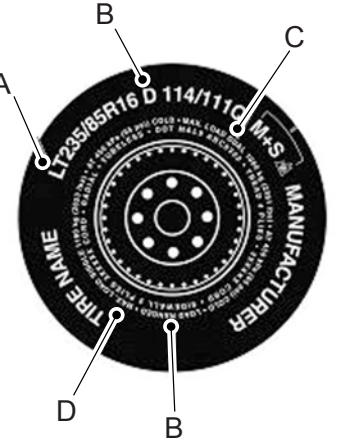
*__Temperature:__ The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

M. __Maximum Inflation Pressure:__ Indicates the tire manufacturers' maximum permissible pressure or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the vehicle manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load or radial tubeless.

Additional Information Contained on the Tire Sidewall for LT Type Tires

Note: *Tire Quality Grades do not apply to this type of tire.*



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LT type tires have some additional information beyond those of P type tires; these differences are described below.

A. **LT:** Indicates a tire, designated by the Tire and Rim Association, that is intended for service on light trucks.

B. **Load Range and Load Inflation Limits:** Indicates the tire's load-carrying capabilities and its inflation limits.

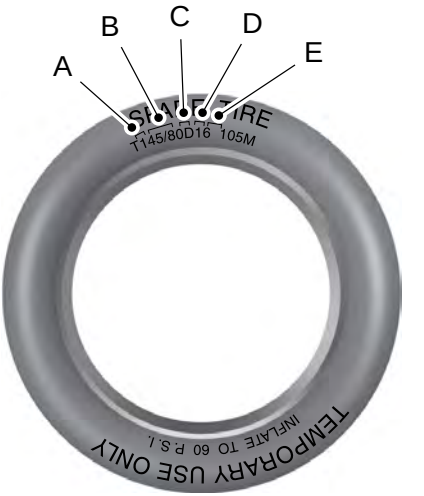
C. **Maximum Load Dual lb (kg) at psi (kPa) cold:** Indicates the maximum load and tire pressure when the tire is used as a dual, defined as four tires on the rear axle (a total of six or more tires on the vehicle).

D. **Maximum Load Single lb (kg) at psi (kPa) cold:** Indicates the maximum load and tire pressure when the tire is used as a single, defined as two tires (total) on the rear axle.

Information on T Type Tires

T145/80D16 is an example of a tire size.

Note: *The temporary tire size for your vehicle may be different from this example. Tire Quality Grades do not apply to this type of tire.*



T type tires have some additional information beyond those of P type tires; these differences are described below:

A. **T:** Indicates a type of tire, designated by the Tire and Rim Association, that is intended for temporary service on cars, sport utility vehicles, minivans and light trucks.

B. **145:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

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C. **80:** Indicates the aspect ratio which gives the tire's ratio of height to width. Numbers of 70 or lower indicate a short sidewall.

D. **D:** Indicates a diagonal type tire.

R: Indicates a radial type tire.

E. **16:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

GLOSSARY OF TIRE TERMINOLOGY

***Tire label:** A label showing the original equipment tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.

***Tire Identification Number (TIN):** A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.

***Inflation pressure:** A measure of the amount of air in a tire.

***Standard load:** A class of P-metric or Metric tires designed to carry a maximum load at set pressure. For example: For P-metric tires 35 psi (2.4 bar) and for Metric tires 36 psi (2.5 bar). Increasing the inflation pressure beyond this pressure will not increase the tire’s load carrying capability.

***Extra load:** A class of P-metric or Metric tires designed to carry a heavier maximum load at 42 psi (2.9 bar). Increasing the inflation pressure beyond this pressure will not increase the tire’s load carrying capability.

***kPa:** Kilopascal, a metric unit of air pressure.

***PSI:** Pounds per square inch, a standard unit of air pressure.

***Cold tire pressure:** The tire pressure when the vehicle has been stationary and out of direct sunlight for an hour or more and prior to the vehicle being driven for 1 mi (1.6 km).

***Recommended inflation pressure:** The cold inflation pressure found on the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or Tire Label located on the B-Pillar or the edge of the driver door.

* **B-pillar:** The structural member at the side of the vehicle behind the front door.

***Bead area of the tire:** Area of the tire next to the rim.

* **Sidewall of the tire:** Area between the bead area and the tread.

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***Tread area of the tire:** Area of the perimeter of the tire that contacts the road when mounted on the vehicle.

***Rim:** The metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

TIRE REPLACEMENT REQUIREMENTS

AGE

WARNING: Tires degrade over time depending on many factors such as weather, storage conditions, and conditions of use (load, speed, inflation pressure) the tires experience throughout their lives.
In general, tires should be replaced after six years regardless of tread wear. However, heat caused by hot climates or frequent high loading conditions can accelerate the aging process and may require tires to be replaced more frequently.
You should replace your spare tire when you replace the road tires or after six years due to aging even if it has not been used.

U.S. DOT Tire Identification Number

Both United States and Canada Federal regulations require 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 a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

This begins with the letters DOT and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000, the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

Tire Replacement Requirements

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.

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WARNING: Only use replacement tires and wheels that are the same size, load index, speed rating and type (such as P-metric versus LT-metric or all-season versus all-terrain) as those originally provided by Ford. The recommended tire and wheel size may be found on either the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or the Tire Label which is located on the B-Pillar or edge of the driver's door. If this information is not found on these labels, then you should contact your authorized dealer as soon as possible. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

WARNING: To reduce the risk of serious injury, when mounting replacement tires and wheels, you should not exceed the maximum pressure indicated on the sidewall of the tire to set the beads without additional precautions listed below. If the beads do not seat at the maximum pressure indicated, re-lubricate and try again.

WARNING: For a mounting pressure more than 20 psi (1.38 bar) greater than the maximum pressure, a Ford dealer or other tire service professional should do the mounting.

WARNING: Always inflate steel carcass tires with a remote air fill with the person inflating standing at a minimum of 12 ft (3.66 m) away from the wheel and tire assembly.

WARNING: When inflating the tire for mounting pressures up to 20 psi (1.38 bar) greater than the maximum pressure on the tire sidewall, the following precautions must be taken to protect the person mounting the tire:

- Make sure that you have the correct tire and wheel size.
- Lubricate the tire bead and wheel bead seat area again.

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- Stand at a minimum of 12 ft (3.66 m) away from the wheel and tire assembly.
- Use both eye and ear protection.

Important: Remember to replace the wheel valve stems when the road tires are replaced on your vehicle.

It is recommended that the two front tires or two rear tires generally be replaced as a pair if the worn tires still have usable depth.

To avoid potential Four-Wheel Drive (4WD) malfunction or (4WD) system damage, it is recommended to replace all four tires rather than mixing significantly worn tires with new tires.

The tire pressure sensors mounted in the wheels (originally installed on your vehicle) are not designed to be used in aftermarket wheels.

The use of wheels or tires not recommended may affect the operation of your tire pressure monitoring system.

If the tire pressure monitoring system indicator is flashing, your system is malfunctioning. Your replacement tire might be incompatible with your tire pressure monitoring system, or some component of the system may be damaged.

USING WINTER TIRES

We recommend that you use winter or all-season tires carrying this symbol when the temperature is 45ºF (7ºC) or lower, or in snow and ice conditions.

When using winter tires, install them on all wheels and inflate them to the recommended tire pressures listed on the tire label. See **Locating the Safety Compliance Certification Labels** (page 323).

WARNING: Wheels and tires must be the same size, load index and speed rating as those originally fitted on the vehicle. Use of any other tire or wheel can affect the safety and performance of your vehicle. Additionally, the use of non-recommended tires and wheels can cause steering, suspension, axle, transfer case or power transfer unit failure. Follow the recommended tire inflation pressures found on the Safety Compliance Certification label, or the Tire Label on the B-Pillar or the edge of the driver door. Failure to follow this instruction could result in loss of vehicle control, vehicle rollover, or personal injury or death.

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USING SNOW CHAINS

WARNING: Do not exceed 30 mph (50 km/h). Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not use snow chains on snow-free roads.

WARNING: Only fit snow chains to specified tires.

WARNING: If your vehicle is fitted with wheel trims, remove them before fitting snow chains.

Your vehicle has all-weather tires designed to provide traction in all weather conditions. In some conditions you may need to use snow chains or cables.

Snow Chain Use by Tire Size

Tire Size	Variant[3]		
	Rear Wheel Drive - Vehicles With Single Rear Wheels	Rear Wheel Drive - Vehicles With Dual Rear Wheels	All-Wheel Drive
195/75R16C	N/A	Yes.[1]	N/A
205/75R16C	N/A	Yes.[1]	Yes.[2]
235/65R16C	Yes.	N/A	Yes.[2]

[1] Only fit snow chains to the outer tires.

[2] Only fit snow chains to the rear tires.

[3] To ascertain the variant of your vehicle, refer to the vehicle identification plate. See **Vehicle Identification Number Overview** (page 465).

Note: *Maintain correct tire pressures.*

Note: *The anti-lock brake system continues to correctly operate.*

Note: *We recommend that you switch the traction control system off. See **Switching Traction Control On and Off** (page 251).*

Do not use self-tensioning snow chains.

Avoid fully loading your vehicle.

Only use SAE Class S snow chains or cables of 0.4 in (10 mm) or smaller in diameter.

We recommend that steel wheels of the correct size and specification are used. Snow chains or cables could damage alloy wheels.

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CHECKING THE TIRE PRESSURES

Safe operation of your vehicle requires that your tires are properly inflated. Every day before you drive, check your tires.

At least once a month and before long trips, inspect each tire and check the tire pressure with a tire gauge. Inflate all tires to the recommended inflation pressure. See **Inflating the Tires** (page 422).

INFLATING THE TIRES

WARNING: Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or blowout, with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!

WARNING: Do not use the tire pressure displayed in the information display as a tire pressure gauge. Failure to follow this instruction could result in personal injury or death.

Use the recommended cold inflation pressure for optimum tire performance and wear. Under-inflation or over-inflation may cause uneven treadwear patterns.

Inflate your tires to the recommended inflation pressure even if it is less than the maximum inflation pressure information found on the tire. You can find the tire label with the recommended tire inflation pressure next to the tire size on the B-Pillar or the edge of the driver door.

The recommended tire inflation pressure is also found on the Safety Compliance Certification Label, affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch on the B-pillar, or on the edge of the driver door.

Failure to follow the tire pressure recommendations can cause uneven treadwear patterns and adversely affect the way your vehicle handles.

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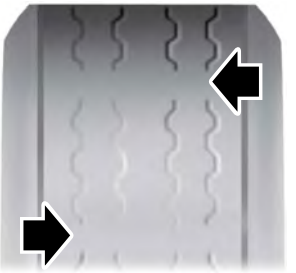
INSPECTING THE TIRE FOR WEAR



When the tread is worn down to one sixteenth of an inch (2 mm), tires must be replaced to help prevent your vehicle from skidding and hydroplaning. Built-in treadwear indicators, or wear bars, which look like narrow strips of smooth rubber across the tread will appear on the tire when the tread is worn down to one sixteenth of an inch (2 mm).

When the tire tread wears down to the same height as these wear bars, the tire is worn out and must be replaced.

The tires should also be balanced periodically. An unbalanced tire and wheel assembly may result in irregular tire wear.

Periodically inspect the tire treads for uneven or excessive wear and remove objects such as stones, nails or glass that may be wedged in the tread grooves.

INSPECTING THE TIRE FOR DAMAGE

Inspect the tire sidewalls for cracking, cuts, bruises and other signs of damage or excessive wear. If internal damage to the tire is suspected, have the tire dismounted and inspected in case it needs to be repaired or replaced. For your safety, tires that are damaged or show signs of excessive wear should not be used because they are more likely to blow out or fail.

Periodically inspect the tire treads and sidewalls for damage, such as bulges in the tread or sidewalls, cracks in the tread groove and separation in the tread or sidewall. If damage is observed or suspected, have the tire inspected by a tire professional.

Safety Practices

WARNING: If your vehicle is stuck in snow, mud or sand, do not rapidly spin the tires; spinning the tires can tear the tire and cause an explosion. A tire can explode in as little as three to five seconds.

WARNING: Do not spin the wheels at over 34 mph (55 km/h). The tires may fail and injure a passenger or bystander.

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Highway Hazards

No matter how carefully you drive, there is always the possibility that you could eventually have a flat tire on the highway. Drive slowly to the closest safe area out of traffic. This could further damage the flat tire, but your safety is more important.

If you feel a sudden vibration or ride disturbance while driving, or you suspect your tire or vehicle has been damaged, immediately reduce your speed. Drive with caution until you can safely pull off the road. Stop and inspect the tires for damage. If a tire is under-inflated or damaged, deflate it, remove the wheel and replace it with your spare tire and wheel. If you cannot detect a cause, have the vehicle towed to the nearest repair facility or tire dealer to have the vehicle inspected.

Tire and Wheel Alignment

A bad jolt from hitting a curb or pothole can cause the front end of your vehicle to become misaligned or cause damage to your tires. If your vehicle seems to pull to one side when you are driving, the wheels could be out of alignment. Have an authorized dealer check the wheel alignment periodically.

Wheel misalignment in the front or the rear can cause uneven and rapid treadwear of your tires and should be corrected by an authorized dealer.

INSPECTING THE WHEEL VALVE STEMS

Check the valve stems for holes, cracks, or cuts that could permit air leakage.

TIRE ROTATION

WARNING: If the tire label shows different tire pressures for the front and rear tires and the vehicle has a tire pressure monitoring system, then you need to update the settings for the system sensors. Always perform the system reset procedure after tire rotation. If you do not reset the system, it may not provide a low tire pressure warning when necessary.

Rotating your tires at the recommended interval will help your tires wear more evenly, providing better tire performance and longer tire life.

Note: *If your tires show any uneven wear have the alignment checked by an authorized dealer before rotating tires.*

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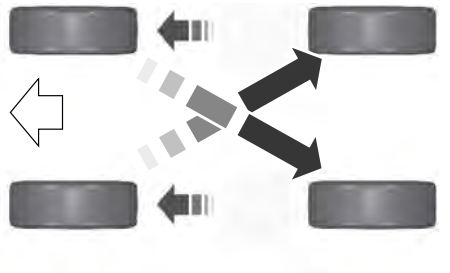
Note: *If you have a dissimilar spare wheel and tire assembly, it is intended for temporary use only and should not be used in a tire rotation.*

Note: *After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.*

Tire Rotation Diagram

Follow the diagram indicating the correct tire locations for rotating the tires.



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WHAT IS THE TIRE PRESSURE MONITORING SYSTEM

The tire pressure monitoring system measures the vehicle's tire pressures. A warning lamp illuminates if one or more tires are significantly underinflated or if there is a system malfunction.

TIRE PRESSURE MONITORING SYSTEM OVERVIEW

WARNING: If the tire pressure monitor sensor becomes damaged it may not function.

WARNING: Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or blowout, with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!

WARNING: To determine the required pressure(s) for your vehicle, see the Safety Compliance Certification Label (on the door hinge pillar, door-latch post or the door edge that meets the door-latch post, next to the driver seat) or the Tire Label on the B-Pillar or the edge of the driver door.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires).

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle’s handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver’s responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

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When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This device complies with Part 15 of the FCC Rules and with License exempt RSS Standards of Industry Canada. 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.

TIRE PRESSURE MONITORING SYSTEM PRECAUTIONS

WARNING: The tire pressure monitoring system is not a substitute for manually checking tire pressures. You should periodically check tire pressures using a pressure gauge. Failure to correctly maintain tire pressures could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.

WARNING: Do not use the tire pressure displayed in the information display as a tire pressure gauge. Failure to follow this instruction could result in personal injury or death.

Note: *The use of tire sealants can damage the tire pressure monitoring system.*

TIRE PRESSURE MONITORING SYSTEM LIMITATIONS

When the outside temperature drops significantly, the tire pressure could decrease and activate the low tire pressure warning lamp.

The warning lamp could also illuminate when you use a spare wheel, or tire sealant from the inflator kit.

Note: *Regularly checking the vehicle tire pressures can reduce the possibility for the warning lamp to illuminate due to outside air temperature changes.*

Note: *After you inflate the tires to the recommended pressure it could take up to two minutes of driving over 20 mph (32 km/h) for the warning indicator to turn off.*

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VIEWING THE TIRE PRESSURES

To view the current tire pressures, use the information display or touchscreen.

RESETTING TIRE PRESSURE MONITORING SYSTEM

Tire Pressure Monitoring System Reset Procedure

WARNING: To determine the required pressure(s) for your vehicle, see the Safety Compliance Certification Label (on the door hinge pillar, door-latch post or the door edge that meets the door-latch post, next to the driver seat) or the Tire Label on the B-Pillar or the edge of the driver door.

You must reset the tire pressure monitoring system after each tire rotation on vehicles that require different recommended tire pressures in the front tires as compared to the rear tires.

Note: *To reduce the chances of interference from another vehicle, perform the system reset procedure at least three feet, one meter, away from another vehicle undergoing the system reset procedure at the same time.*

Note: *Do not wait more than two minutes between resetting each tire sensor or the system can time-out and you need to repeat the entire procedure on all four wheels.*

1. Drive the vehicle above 20 mph (32 km/h) for at least two minutes, then park in a safe location where you can easily get to all four tires and have access to an air pump.
2. Switch the ignition off.
3. Switch the ignition on but do not start the engine.
4. Switch the hazard flashers on then off three times.

Note: *You must accomplish this within 10 seconds. If you successfully enter the reset mode, the horn sounds once, the system indicator flashes and a message shows in the information display.*

Note: *If the system does not enter reset mode, try again starting at Step 2. If after repeated attempts to enter the reset mode, the horn does not sound, the system indicator does not flash and no message shows in the information display, contact your authorized dealer.*

5. Remove the valve cap from the valve stem on the left front tire. Decrease the air pressure until the horn sounds.

Note: *The single horn tone confirms that the sensor identification code has been learned by the module for this position. If the horn sounds twice, the reset procedure was unsuccessful, and you must repeat it.*

6. Remove the valve cap from the valve stem on the right front tire. Decrease the air pressure until the horn sounds.

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7. Repeat the previous step on the right rear tire and then on the left rear tire.
8. Switch the ignition off.

Note: *If the horn sounds twice again after switching the ignition off, and repeating the procedure, contact your authorized dealer and have your vehicle checked as soon as possible.*

9. Set all four tires to the recommended air pressure as indicated on the Safety Compliance Certification Label.

TIRE PRESSURE MONITORING SYSTEM – TROUBLESHOOTING

TIRE PRESSURE MONITORING SYSTEM – WARNING LAMPS

The low tire pressure warning lamp has combined functions, as it warns you when your tires need air, and when the system is no longer capable of functioning as intended.

Warning Lamp	Possible Cause	Action Required
Solid warning lamp	One or more tires are significantly under inflated	After inflating your tires to the manufacturer's recommended pressure as shown on the tire label, on the edge of driver door or the B-pillar, drive your vehicle for at least two minutes over 20 mph (32 km/h) before the light turns off.
Solid warning lamp or flashing warning lamp	Temporary spare wheel in use	Repair the damaged road wheel and tire and refit it to your vehicle to restore operation of the system.
	Tire pressure monitoring system malfunction	If the tires are inflated to the recommended tire pressures and the temporary spare wheel is not in use, the system detected a fault that requires service. Have your vehicle checked as soon as possible.

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TIRE PRESSURE MONITORING SYSTEM – INFORMATION MESSAGES

Message	Action
Tire Pressure Low	After inflating your tires to the manufacturer's recommended pressure as shown on the tire label, on the edge of the driver door or the B-pillar, drive your vehicle for at least two minutes over 20 mph (32 km/h) before the light turns off.
Tire Pressure Monitor Fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
Tire Pressure Sensor Fault	The system has detected a fault that requires service or a spare tire is in use. Have your vehicle checked as soon as possible.

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CHANGING A FLAT TIRE - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

WARNING: Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to not obstruct the flow of traffic and avoid the danger of being hit when operating the jack or changing the wheel.

WARNING: Switch the ignition off and apply the parking brake. If your vehicle has a manual transmission, shift into first or reverse gear. If your vehicle has an automatic transmission, shift into park (P).

WARNING: Make sure that your vehicle is on firm and level ground with the front wheels pointing straight ahead and set up a warning triangle if available.

WARNING: To help prevent your vehicle from moving when changing a wheel, use an appropriate block or wheel chock to secure the wheel diagonally opposite to the wheel being changed. For example, when changing the front left wheel, place an appropriate block or wheel chock on the right rear wheel.

Make sure all passengers are out of your vehicle.

Note: *: The use of tire sealants can damage the tire pressure monitoring system.*

Note: *The tire pressure monitoring system indicator light illuminates when the spare tire is in use. To restore the full function of the monitoring system, all road wheels equipped with tire pressure monitoring sensors must be mounted on this vehicle.*

Note: *If your vehicle has a tire pressure monitoring system, the warning indicator flashes if you fit the spare wheel to your vehicle. To restore the correct operation of the tire pressure monitoring system, you must have the repaired road wheel and tire assembly refitted to your vehicle. See* ***Tire Pressure Monitoring System – Warning Lamps*** *(page 429). To prevent damage occurring to the tire pressure monitoring system sensors, make sure you have the damaged tire repaired or replaced by a tire professional.*

If the spare wheel is the same type and size as your vehicle road wheel, you can fit the spare wheel and continue to drive in the normal manner.

If the spare wheel is not the same type and size as your vehicle road wheel, it has a label showing the maximum driving speed limit.

The spare wheel is under the rear of your vehicle.

Locking Lug Nuts (If Equipped)

You can obtain replacement locking lug nuts or a locking lug nut key using the reference number certificate.

The locking lug nut key is located in the glove box or in the storage compartment in the front right-hand side stepwell.

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Van, Bus or Wagon

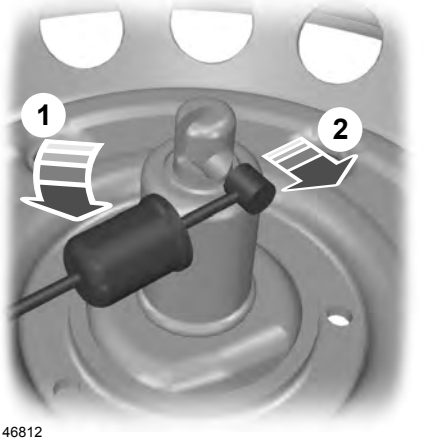
E145138

1. Open the rear doors and remove the grommet.

2. Insert the square end of the wheel brace or the short arm of the jack handle into the socket. Turn counterclockwise until the spare wheel rests on the ground and the cable is loose.

E146811

3. Raise the cable end cover.



E146812

4. Rotate the cable through 90 degrees. Slide the cable through the slot to release the spare wheel bracket from the winch.

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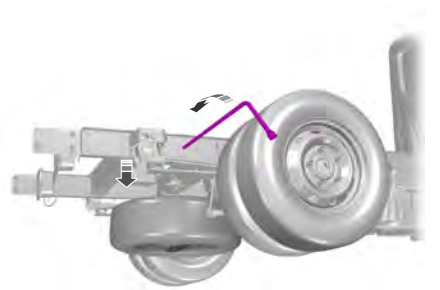
E146813

5. Remove the retaining nut to release the spare wheel bracket.
6. Leave the cable extended. You need to use it to stow the flat wheel and tire assembly.

Note: *Do not raise the spare wheel bracket without a wheel attached. Damage to the winch mechanism could occur.*

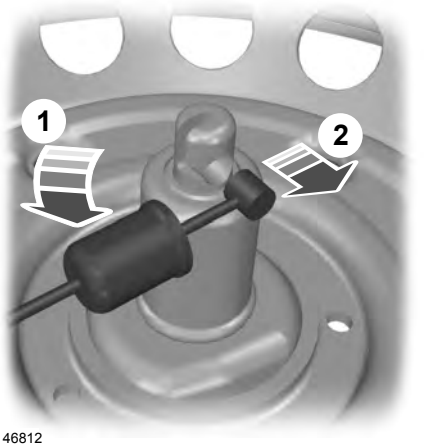
Chassis Cab and Cutaway



1. Insert the square end of the wheel brace or the short arm of the jack handle into the socket. Turn counterclockwise until the spare wheel rests on the ground and the cable is loose.

E146811

2. Raise the cable end cover.



E146812

3. Rotate the cable through 90 degrees. Slide the cable through the slot to release the spare wheel bracket from the winch.

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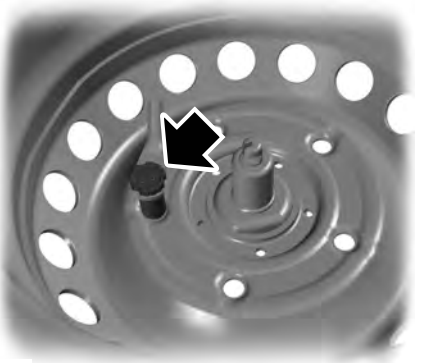


E146813

4. Remove the retaining nut to release the spare wheel bracket.
5. Leave the cable extended. You need to use it to stow the flat wheel and tire assembly.

Note: *Do not raise the spare wheel bracket without a wheel attached. Damage to the winch mechanism could occur.*

Vehicle Jack

WARNING: Only use the jack provided as original equipment with your vehicle.

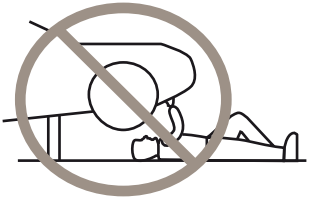
WARNING: The jack supplied with this vehicle is only intended for changing a flat tire in an emergency. Do not attempt to do any other work on your vehicle when it is supported by the jack, as your vehicle could slip off the jack. Failure to follow this instruction could result in personal injury or death.

WARNING: Switch off the running boards before jacking or placing any object under your vehicle. Never place your hand between the extended running board and your vehicle. A moving running board may cause injury.

WARNING: Never place anything between the vehicle jack and your vehicle.

WARNING: Never place anything between the vehicle jack and the ground.

WARNING: Do not get under a vehicle that is supported by a jack.



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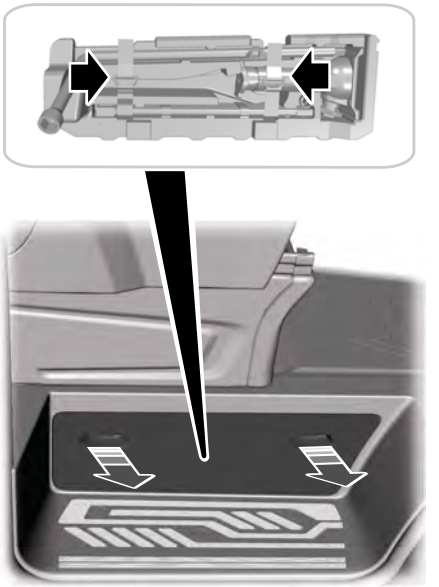
Vehicle Jack Storage



The jack, jack handle and wheel brace are in a storage compartment in the front right-hand side stepwell.

Note: *The vehicle jack is in the load space area on vehicles with rear climate control.*

1. Assemble the jack handle.
2. Insert the jack handle into the jack.
3. Insert the end of the jack handle into the wheel brace and rotate clockwise to raise your vehicle.

Front Jacking Points

WARNING: Only use the specified jacking points. If you use any other locations you could damage vehicle components, such as brake lines.

WARNING: No person should place any portion of their body under a vehicle that is supported by a jack.

Note: *If your vehicle has rear air conditioning make sure the vehicle jack does not come in contact with the air conditioning lines.*

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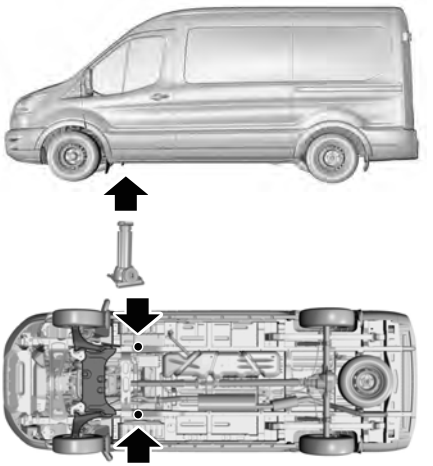
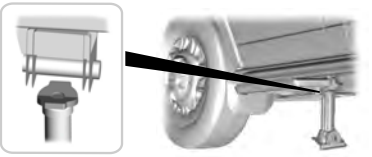


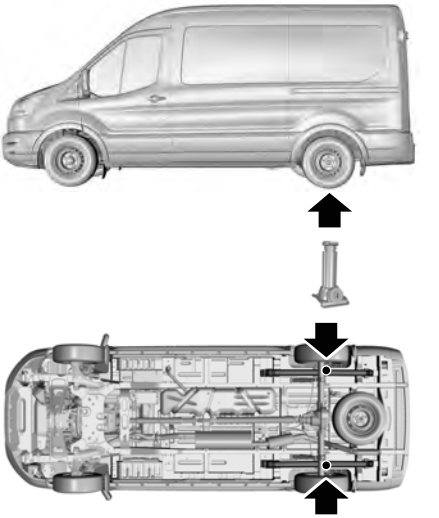


Position the head of the vehicle jack under the protrusions at the rear of front sub-frame.

Rear Jacking Points

WARNING: Only use the specified jacking points. If you use any other locations you could damage vehicle components, such as brake lines.

WARNING: No person should place any portion of their body under a vehicle that is supported by a jack.



Position the head of the vehicle jack under the rear axle.

Removing a Wheel Trim (If Equipped)

Vehicles With Steel Wheels

1. Insert the flat end of the lug wrench between the wheel rim and the wheel trim.
2. Carefully remove the wheel trim.

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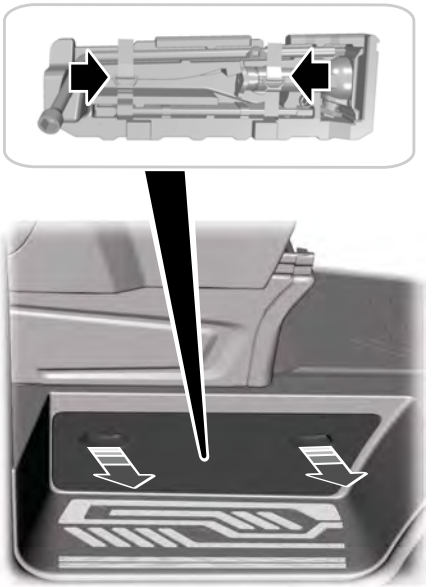
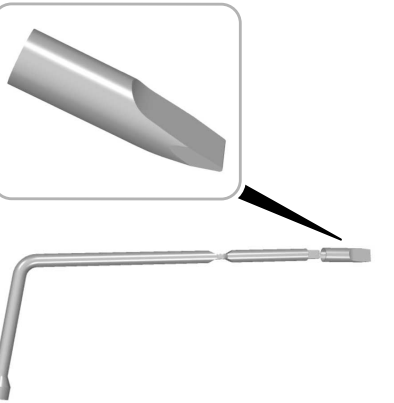
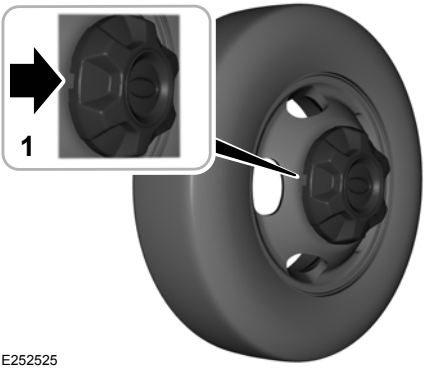
Vehicles With Dual Rear Alloy Wheels





The wheel trim removal tool is in the storage compartment in the front right-hand side stepwell near the lug wrench.

Front Wheel Trim



E252525

1. Locate the notch in the wheel trim.

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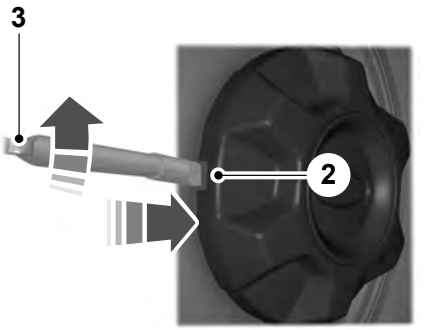
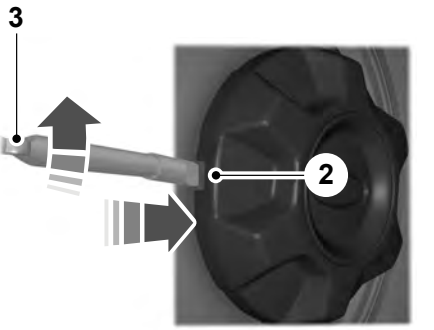
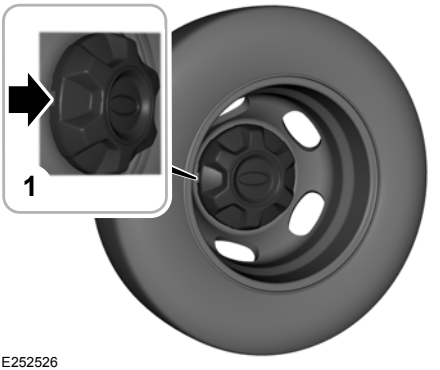




2. Insert the wheel trim removal tool into the notch in the wheel trim.
3. Rotate the wheel trim removal tool and remove the wheel trim.

Rear Wheel Trim



E252526

1. Locate the notch in the wheel trim.
2. Insert the wheel trim removal tool into the notch in the wheel trim.
3. Rotate the wheel trim removal tool and remove the wheel trim.

Removing a Road Wheel

1. Use the locking lug nut key to loosen the locking lug nut.
2. Loosen the remaining lug nuts, but do not remove them.
3. Raise your vehicle until the tire is clear of the ground.
4. Remove the lug nuts and the road wheel.

Note: *Do not lay alloy road wheels face down on the ground.*

Installing a Road Wheel

WARNING: Only use the spare wheel and tire assembly provided as original equipment with your vehicle.

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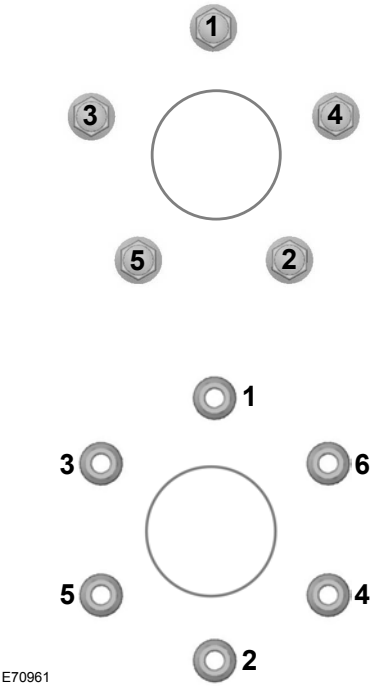
WARNING: Make sure there is no grease or oil on the threads or the surface between the wheel lugs and nuts. This can cause the lug nuts to loosen while driving.

WARNING: Make sure there is no grease or oil on the threads or the surface between the wheel lugs and nuts. This can cause the lug nuts to loosen while driving.

WARNING: When you install a wheel, remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Make sure to secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces of the wheel. Installing wheels without following these steps can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion, resulting in loss of vehicle control, personal injury or death.

WARNING: Have the lug nuts checked for tightness and the tire pressure checked as soon as possible.

1. Install the wheel.



2. Install all of the lug nuts and partially tighten them in the sequence shown.
3. Lower your vehicle and remove the vehicle jack.
4. Fully tighten all of the lug nuts in the sequence shown. See **Locating the Tire label** (page 411).
5. Install the wheel trim.

Note: *Make sure that the lug nuts are fully seated against the wheel.*

Note: *Alloy wheel lug nuts are suitable for use on a steel spare wheel.*

Note: *If the spare wheel is not the same type and size as your vehicle road wheel replace it as soon as possible.*

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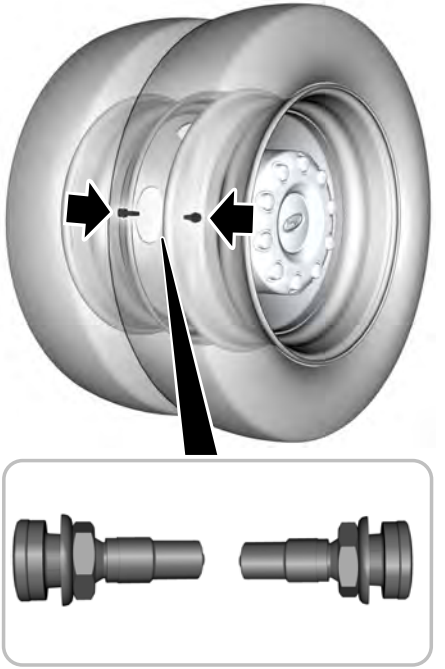
Note: *Check the lug nuts for correct tightness and check the tire pressure as soon as possible. See* ***Locating the Tire label*** *(page 411).*



Note: *When installing dual rear wheels, align the valve stems facing each other.*

Stowing the Wheel and Vehicle Jack

Note: *Do not raise the spare wheel bracket without a wheel attached. If you lower the spare wheel bracket without a wheel attached, you may damage the winch mechanism.*

1. Attach the spare wheel bracket to the wheel using the retaining nut.
2. Slide the cable through the slot and attach the spare wheel bracket to the winch.
3. Rotate the cable through 90 degrees and lower the cable end cover.

E145138

4. Insert the flat end of the lug wrench into the socket. Turn it clockwise until you feel a strong resistance.

Note: *Make sure the spare wheel is secure by tightening the winch until you feel a slip.*

5. Stow the vehicle jack, jack handle and lug wrench in their correct locations and secure them with the straps.

CHANGING A FLAT TIRE - ELECTRIC MOTOR

WARNING: Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

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WARNING: Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to not obstruct the flow of traffic and avoid the danger of being hit when operating the jack or changing the wheel.

WARNING: Switch the ignition off and apply the parking brake. If your vehicle has a manual transmission, shift into first or reverse gear. If your vehicle has an automatic transmission, shift into park (P).

WARNING: Make sure that your vehicle is on firm and level ground with the front wheels pointing straight ahead and set up a warning triangle if available.

WARNING: To help prevent your vehicle from moving when changing a wheel, use an appropriate block or wheel chock to secure the wheel diagonally opposite to the wheel being changed. For example, when changing the front left wheel, place an appropriate block or wheel chock on the right rear wheel.

Make sure all passengers are out of your vehicle.

Note: *: The use of tire sealants can damage the tire pressure monitoring system.*

Note: *The tire pressure monitoring system indicator light illuminates when the spare tire is in use. To restore the full function of the monitoring system, all road wheels equipped with tire pressure monitoring sensors must be mounted on this vehicle.*

Note: *If your vehicle has a tire pressure monitoring system, the warning indicator flashes if you fit the spare wheel to your vehicle. To restore the correct operation of the tire pressure monitoring system, you must have the repaired road wheel and tire assembly refitted to your vehicle. See* ***Tire Pressure Monitoring System – Warning Lamps*** *(page 429). To prevent damage occurring to the tire pressure monitoring system sensors, make sure you have the damaged tire repaired or replaced by a tire professional.*

If the spare wheel is the same type and size as your vehicle road wheel, you can fit the spare wheel and continue to drive in the normal manner.

If the spare wheel is not the same type and size as your vehicle road wheel, it has a label showing the maximum driving speed limit.

The spare wheel is under the front of the vehicle on all battery electric vehicles except E-LWB van, which is at the rear.

Locking Lug Nuts (If Equipped)

You can obtain replacement locking lug nuts or a locking lug nut key using the reference number certificate.

The locking lug nut key is located in the glove box or in the storage compartment in the front right-hand side stepwell.

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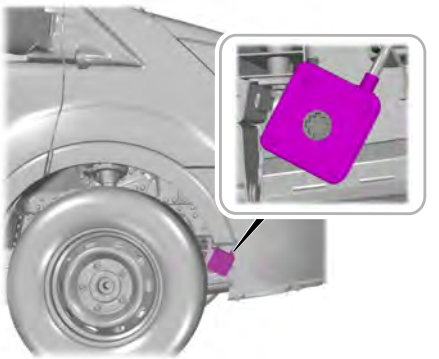
Van and E-LWB Van

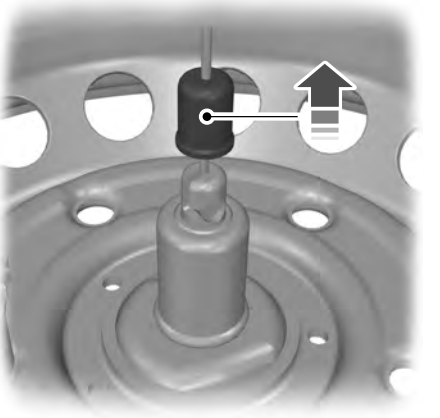


If you have a van, find the winch on the chassis rail in front of the right side front wheel.

E145138

If you have E-LWB van, open the rear doors and remove the grommet.

1. Insert the square end of the wheel brace or the short arm of the jack handle into the socket. Turn counterclockwise until the spare wheel rests on the ground and the cable is loose.



E146811

2. Raise the cable end cover.

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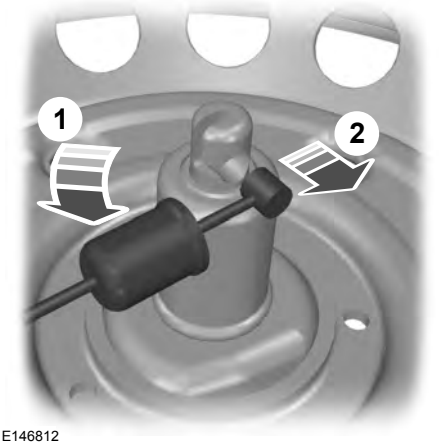
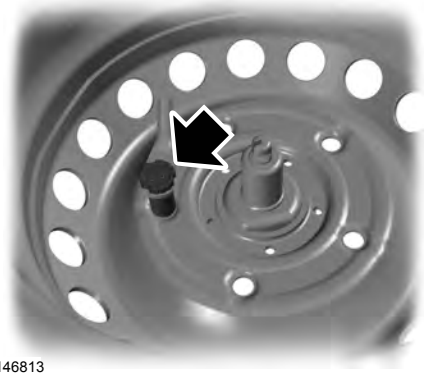


E146812

3. Rotate the cable through 90 degrees. Slide the cable through the slot to release the spare wheel bracket from the winch.



E146813

4. Remove the retaining nut to release the spare wheel bracket.
5. Leave the cable extended. You need to use it to stow the flat wheel and tire assembly.

Note: *Do not raise the spare wheel bracket without a wheel attached. Damage to the winch mechanism could occur.*

Vehicle Jack

WARNING: Only use the jack provided as original equipment with your vehicle.

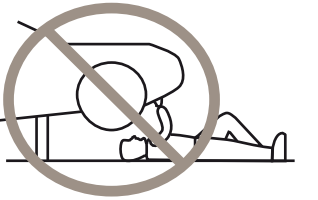
WARNING: The jack supplied with this vehicle is only intended for changing a flat tire in an emergency. Do not attempt to do any other work on your vehicle when it is supported by the jack, as your vehicle could slip off the jack. Failure to follow this instruction could result in personal injury or death.

WARNING: Switch off the running boards before jacking or placing any object under your vehicle. Never place your hand between the extended running board and your vehicle. A moving running board may cause injury.

WARNING: Never place anything between the vehicle jack and your vehicle.

WARNING: Never place anything between the vehicle jack and the ground.

WARNING: Do not get under a vehicle that is supported by a jack.



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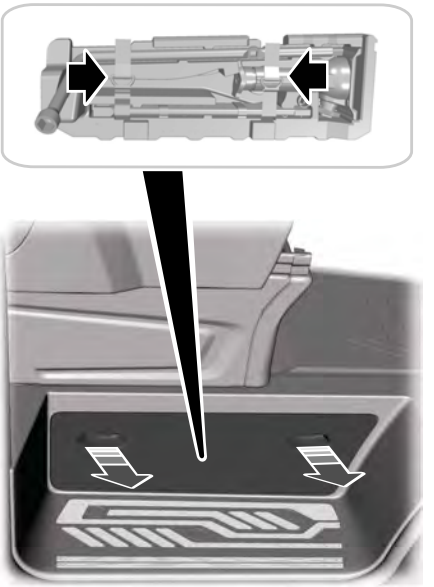
Vehicle Jack Storage



The jack, jack handle and wheel brace are in a storage compartment in the front right-hand side stepwell.

Note: *The vehicle jack is in the load space area on vehicles with rear climate control.*

1. Assemble the jack rod.
2. Insert the flat end of the jack rod into the jack.
3. Insert the square end of the jack rod into the wheel brace and rotate clockwise to raise your vehicle.

Front Jacking Points

WARNING: Only use the specified jacking points. If you use any other locations you could damage vehicle components, such as brake lines.

WARNING: Using the high voltage battery box as a jacking point could result in electric shock, personal injury, fire or death.

Note: *In case of a flat tire on the front it could be necessary to jack your vehicle to reach the spare wheel. Withdraw the spare wheel by holding the tread.*

WARNING: No person should place any portion of their body under a vehicle that is supported by a jack.

Note: *If your vehicle has rear air conditioning make sure the vehicle jack does not come in contact with the air conditioning lines.*

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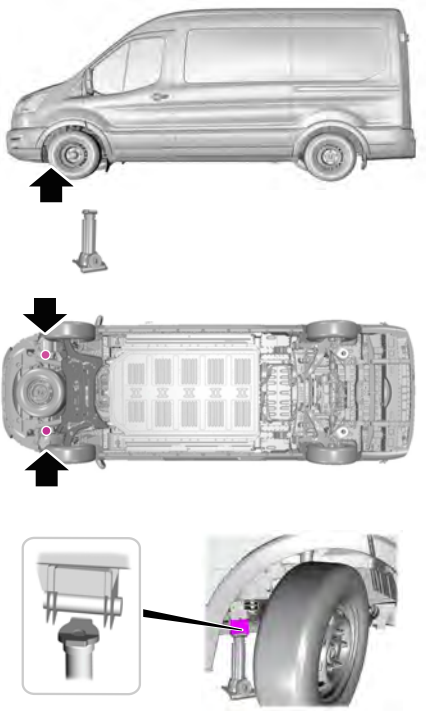


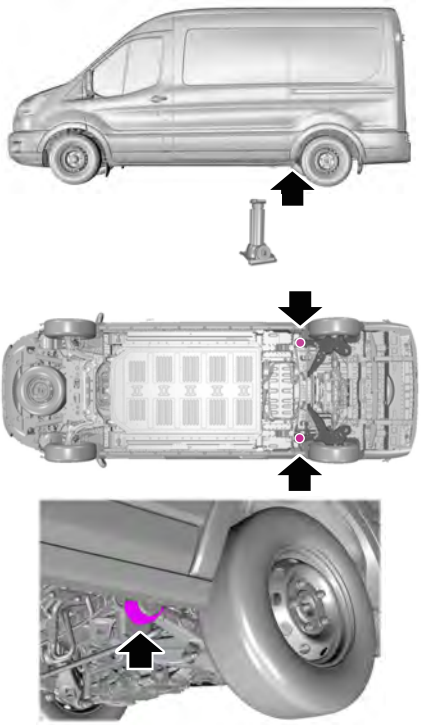
Position the head of the vehicle jack on the bolted body brackets .

Rear Jacking Points Vehicles

WARNING: Only use the specified jacking points. If you use any other locations you could damage vehicle components, such as brake lines.

WARNING: Using the high voltage battery box as a jacking point could result in electric shock, personal injury, fire or death.

WARNING: No person should place any portion of their body under a vehicle that is supported by a jack.



Position the head of the vehicle jack under the outer bush of the suspension arm.

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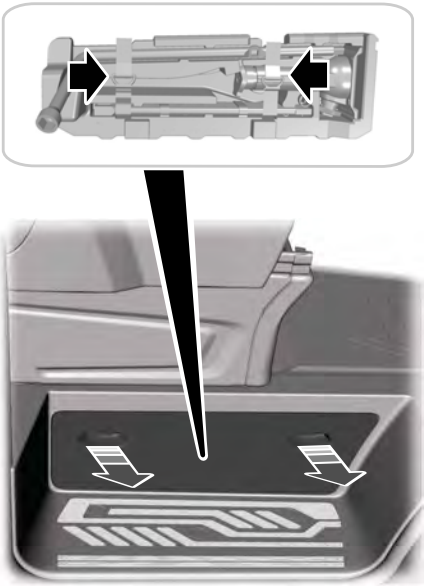
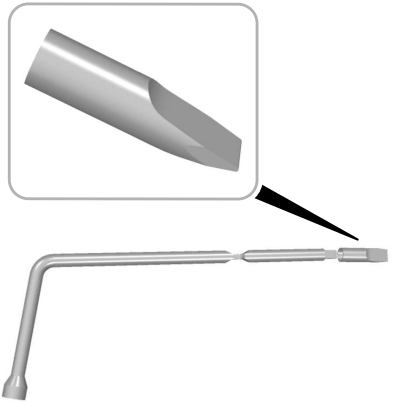
Removing a Wheel Trim (If Equipped)

Vehicles With Steel Wheels



The wheel trim removal tool is in the storage compartment in the front right-hand side stepwell near the lug wrench.



1. Insert the flat end of the lug wrench between the wheel rim and the wheel trim.
2. Carefully remove the wheel trim.

Removing a Road Wheel

1. Use the locking lug nut key to loosen the locking lug nut.
2. Loosen the remaining lug nuts, but do not remove them.
3. Raise your vehicle until the tire is clear of the ground.
4. Remove the lug nuts and the road wheel.

Note: *Do not lay alloy road wheels face down on the ground.*

Installing a Road Wheel

WARNING: Only use the spare wheel and tire assembly provided as original equipment with your vehicle.

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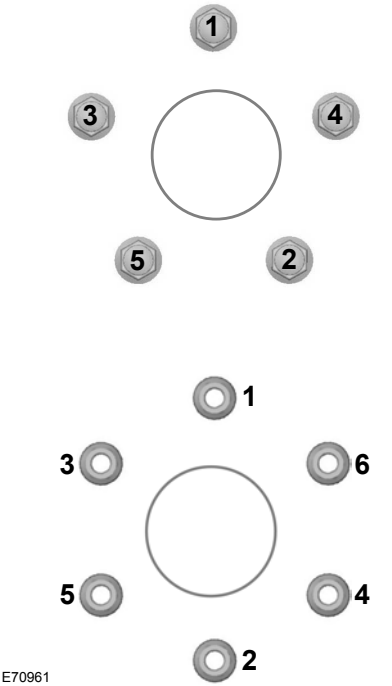
WARNING: Make sure there is no grease or oil on the threads or the surface between the wheel lugs and nuts. This can cause the lug nuts to loosen while driving.

WARNING: When you install a wheel, remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Make sure to secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces of the wheel. Installing wheels without following these steps can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion, resulting in loss of vehicle control, personal injury or death.

WARNING: Have the lug nuts checked for tightness and the tire pressure checked as soon as possible.

1. Install the wheel.



2. Install all of the lug nuts and partially tighten them in the sequence shown.
3. Lower your vehicle and remove the vehicle jack.
4. Fully tighten all of the lug nuts in the sequence shown. See **Locating the Tire label** (page 411).
5. Install the wheel trim.

Note: *Make sure that the lug nuts are fully seated against the wheel.*

Note: *Alloy wheel lug nuts are suitable for use on a steel spare wheel.*

Note: *If the spare wheel is not the same type and size as your vehicle road wheel replace it as soon as possible.*

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Note: *Check the lug nuts for correct tightness and check the tire pressure as soon as possible. See* ***Locating the Tire label*** *(page 411).*

Stowing the Wheel and Vehicle Jack

Note: *Do not raise the spare wheel bracket without a wheel attached. If you lower the spare wheel bracket without a wheel attached, you may damage the winch mechanism.*

1. Attach the spare wheel bracket to the wheel using the retaining nut.
2. Slide the cable through the slot and attach the spare wheel bracket to the winch.
3. Rotate the cable through 90 degrees and lower the cable end cover.
4. Insert the flat end of the lug wrench into the socket. Turn it clockwise until you feel a strong resistance.

Note: *Make sure the spare wheel is secure by tightening the winch until you feel a slip.*

5. Stow the vehicle jack, jack handle and lug wrench in their correct locations and secure them with the straps.

WHEEL NUTS

Lug Nut Torque

WARNING: When you install a wheel, remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Make sure to secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces of the wheel. Installing wheels without following these steps can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion, resulting in loss of vehicle control, personal injury or death.

WARNING: Only use the specific lug nuts and wheels supplied with your vehicle. If in doubt, contact an authorized dealer.

WARNING: Do not install alloy wheels using lug nuts designed for use with steel wheels.

Bolt size	lb.ft (Nm)
M14 x 1.5	150 (204)

Locking Lug Nuts

You can obtain a replacement locking lug nut key and replacement locking lug nuts from an authorized dealer using the reference number certificate.

2022 Transit (TTH) Canada/United States of America, NK3J 19A321 AA enUSA, Edition date: 202107, First-Printing

ENGINE SPECIFICATIONS - 3.5L DURATEC

Engine	3.5L V6 TiVCT
Cubic inches.	213
Required fuel.	Minimum 87 octane
Firing order.	1-4-2-5-3-6
Ignition system.	Coil on plug
Spark plug gap.	.049-.053 in. (1.25 - 1.35 mm)
Compression ratio.	11.8:1

2022 Transit (TTH) Canada/United States of America, NK3J 19A321 AA enUSA, Edition date: 202107, First-Printing

ENGINE SPECIFICATIONS - 3.5L ECOBOOST™

Engine	3.5L V6 EcoBoost™
Cubic inches.	213
Required fuel.	Minimum 87 octane
Firing order.	1-4-2-5-3-6
Ignition system.	Coil on plug
Spark plug gap.	.030-.033 in. (.75-.85 mm)
Compression ratio.	10.0:1

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MOTORCRAFT PARTS - 3.5L DURATEC

Component	Motorcraft Part number
Air filter element.	FA-1916
Automatic transmission fluid filter.	FT-216
Battery - standard.	BXT-48H6-610
Battery - alternative.	BAGM-48H6-760
Oil filter.	FL-500S
Spark plugs.	SP-520
Cabin air filter.	FP-74
Windshield wiper blades - roof med-low.	WW-2955 - driver side WW-2112 - passenger side
Windshield wiper blades - roof low, medium and high.	WW-2901 - driver side WW-2049 - passenger side

We recommend Motorcraft replacement parts available at your Ford dealer or at fordparts.com for scheduled maintenance. These parts meet or exceed Ford Motor Company's specifications and are engineered for your vehicle. Use of other parts may impact vehicle performance, emissions and durability. Your warranty may be void for any damage related to use of other parts.

If a Motorcraft oil filter is not available, use an oil filter that meets industry performance specification SAE/USCAR-36.

For spark plug replacement, contact an authorized dealer. Replace the spark plugs at the appropriate intervals. See **Normal Scheduled Maintenance** (page 523).

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MOTORCRAFT PARTS - 3.5L ECOBOOST™

Component	Motorcraft Part number
Air filter element.	FA-1916
Automatic transmission fluid filter.	FT-216
Battery.	BAGM-48H6-760
Oil filter.	FL-500S
Spark plugs.	SP-580
Cabin air filter.	FP-74
Windshield wiper blades - roof med-low.	WW-2955 - driver side WW-2112 - passenger side
Windshield wiper blades - roof low, medium and high.	WW-2901 - driver side WW-2049 - passenger side

We recommend Motorcraft replacement parts available at your Ford dealer or at fordparts.com for scheduled maintenance. These parts meet or exceed Ford Motor Company's specifications and are engineered for your vehicle. Use of other parts may impact vehicle performance, emissions and durability. Your warranty may be void for any damage related to use of other parts.

If a Motorcraft oil filter is not available, use an oil filter that meets industry performance specification SAE/USCAR-36.

For spark plug replacement, contact an authorized dealer. Replace the spark plugs at the appropriate intervals. See **Normal Scheduled Maintenance** (page 523).

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MOTORCRAFT PARTS - ELECTRIC MOTOR

Component	Motorcraft Part number
Battery.	BAGM-48H6-760
Cabin air filter.	FP-74
Windshield wiper blades - roof med-low.	WW-2955 - driver side WW-2112 - passenger side
Windshield wiper blades - roof low, medium and high.	WW-2901 - driver side WW-2049 - passenger side

We recommend Motorcraft replacement parts available at your Ford dealer or at fordparts.com for scheduled maintenance. These parts meet or exceed Ford Motor Company's specifications and are engineered for your vehicle. Use of other parts may impact vehicle performance, emissions and durability. Your warranty may be void for any damage related to use of other parts.

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ENGINE OIL CAPACITY AND SPECIFICATION - 3.5L DURATEC

An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of the International Lubricants Specification Advisory Committee (ILSAC).

We recommend Motorcraft® motor oil for your vehicle. If Motorcraft® oil is not available, use motor oils of the recommended viscosity grade that displays the API Certification Mark for gasoline engines.

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that may not be covered by the vehicle Warranty.

Capacities

Variant	Including the Oil Filter
All.	6.0 qt (5.7 L)

Note: *The quantity of engine oil required to raise the indicated level on the dipstick from minimum to nominal is 1.0 qt (0.9 L).*

Materials

Name	Specification
Motorcraft® SAE 5W-20 Synthetic Blend Motor Oil(U.S.) Motorcraft® SAE 5W-20 Super Premium Motor Oil / Huile moteur de très haute qualité SAE 5W-20 Motorcraft®(Canada) XO-5W20-Q1SP(U.S.) CXO-5W20-LSP6(Canada)	WSS-M2C960-A1

Note: *Do not use more than 0.26 gal (1 L) of the alternative engine oil between scheduled service intervals.*

Alternative Engine Oil for Extremely Cold Climates

To improve engine cold start performance, we recommend that you use the following alternative engine oil where the ambient temperature reaches -22°F (-30°C) or below.

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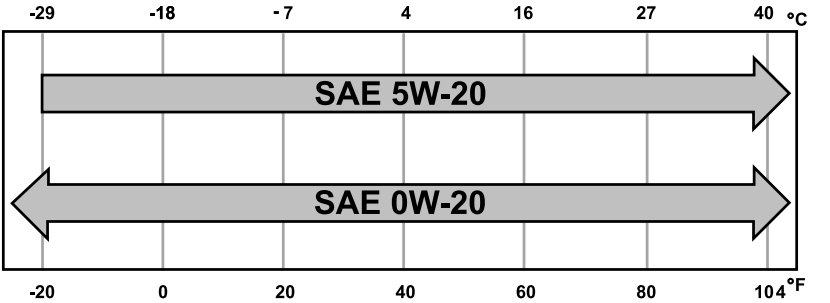
Materials

Name	Specification
Motorcraft® SAE 0W-20 Full Synthetic Motor Oil(U.S.) (Canada) XO-0W20-QFS(U.S.)	WSS-M2C962-A1



ENGINE OIL CAPACITY AND SPECIFICATION - 3.5L ECOBOOST™

An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of the International Lubricants Specification Advisory Committee (ILSAC).

We recommend Motorcraft® motor oil for your vehicle. If Motorcraft® oil is not available, use motor oils of the recommended viscosity grade that displays the API Certification Mark for gasoline engines.

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that may not be covered by the vehicle Warranty.

2022 Transit (TTH) Canada/United States of America, NK3J 19A321 AA enUSA, Edition date: 202107, First-Printing

Capacities

Variant	Including the Oil Filter
All.	6.0 qt (5.7 L)

Note: *The quantity of engine oil required to raise the indicated level on the dipstick from minimum to nominal is 1.0 qt (0.9 L).*

Materials

Name	Specification
Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil(U.S.) Motorcraft® SAE 5W-30 Super Premium Motor Oil / Huile moteur de très haute qualité SAE 5W-30 Motorcraft®(Canada) XO-5W30-Q1SP(U.S.) CXO-5W30-LSP6(Canada)	WSS-M2C961-A1

Note: *Do not use more than 0.26 gal (1 L) of the alternative engine oil between scheduled service intervals.*

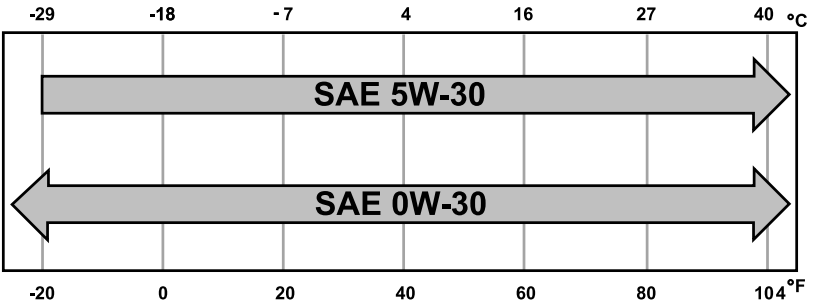
Alternative Engine Oil for Extremely Cold Climates

To improve engine cold start performance, we recommend that you use the following alternative engine oil where the ambient temperature reaches -22°F (-30°C) or below.

Materials

Name	Specification
Engine Oil - SAE 0W-30 - Synthetic Blend	WSS-M2C963-A1

2022 Transit (TTH) Canada/United States of America, NK3J 19A321 AA enUSA, Edition date: 202107, First-Printing



COOLING SYSTEM CAPACITY AND SPECIFICATION - 3.5L DURATEC

Capacities

Variant	Quantity
Vehicles with auxiliary heater.	13.21 qt (12.5 L)
Vehicles without auxiliary heater.	12.26 qt (11.6 L)

Materials

Name	Specification
Motorcraft® Yellow Prediluted Antifreeze/ Coolant(U.S.) Motorcraft® Yellow Prediluted Antifreeze/Coolant / Antigel/liquide de refroidissement prédilué jaune Motorcraft®(Canada) VC-13DL-G(U.S.) CVC-13DL-G(Canada)	WSS-M97B57-A2

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COOLING SYSTEM CAPACITY AND SPECIFICATION - 3.5L ECOBOOST™

Capacities

Variant	Quantity
Vehicles with auxiliary heater.	14.27 qt (13.5 L)
Vehicles without auxiliary heater.	13.31 qt (12.6 L)

Materials

Name	Specification
Motorcraft® Yellow Prediluted Antifreeze/ Coolant(U.S.) Motorcraft® Yellow Prediluted Antifreeze/Coolant / Antigel/liquide de refroidissement prédilué jaune Motorcraft®(Canada) VC-13DL-G(U.S.) CVC-13DL-G(Canada)	WSS-M97B57-A2

COOLING SYSTEM CAPACITY AND SPECIFICATION - ELECTRIC MOTOR

HV Battery Cooling Loop

Capacities

Variant	Quantity
3P battery.	6.83 qt (6.46 L)

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Materials

Name	Specification
Motorcraft® Yellow Prediluted Antifreeze/ Coolant(U.S.) Motorcraft® Yellow Prediluted Antifreeze/Coolant / Antigel/liquide de refroidissement prédilué jaune Motorcraft®(Canada) VC-13DL-G(U.S.) CVC-13DL-G(Canada)	WSS-M97B57-A2

Motor and Electronics Cooling Loop

Capacities

Variant	Quantity
All.	8.80 qt (8.33 L)

Materials

Name	Specification
Motorcraft® Yellow Prediluted Antifreeze/ Coolant(U.S.) Motorcraft® Yellow Prediluted Antifreeze/Coolant / Antigel/liquide de refroidissement prédilué jaune Motorcraft®(Canada) VC-13DL-G(U.S.) CVC-13DL-G(Canada)	WSS-M97B57-A2

FUEL TANK CAPACITY - 3.5L DURATEC

Capacities

Variant	Quantity
Vehicles with standard fuel tank.	25.1 gal (95 L)
Vehicles with larger fuel tank.	30.5 gal (115.4 L)

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FUEL TANK CAPACITY - 3.5L ECOBOOST™

Capacities

Variant	Quantity
Vehicles with standard fuel tank.	25.1 gal (95 L)
Vehicles with larger fuel tank.	30.5 gal (115.4 L)

2022 Transit (TTH) Canada/United States of America, NK3J 19A321 AA enUSA, Edition date: 202107, First-Printing

AIR CONDITIONING SYSTEM CAPACITY AND SPECIFICATION - 3.5L DURATEC/3.5L ECOBOOST™

WARNING: The air conditioning refrigerant system contains refrigerant under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Capacities

Variant	Refrigerant	Refrigerant Oil
Vehicles with rear air conditioning.	50.3 oz (1.425 kg)	7.4 fl oz (220 ml)
Vehicles without rear air conditioning.	30.0 oz (0.85 kg)	3.7 fl oz (110 ml)

Materials

Name	Specification
Motorcraft® R-134a Refrigerant(U.S.) R-134a Refrigerant / Frigorigène R-134a(Canada) YN-19(U.S.) CYN-19-R(Canada)	WSH-M17B19-A
Motorcraft® PAG Refrigerant Compressor Oil(U.S.) Motorcraft® PAG Refrigerant Compressor Oil / Huile PAG pour compresseur frigorifique Motor-craft®(Canada) YN-12-D(U.S. & Canada)	WSH-M1C231-B

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AIR CONDITIONING SYSTEM CAPACITY AND SPECIFICATION - ELECTRIC MOTOR

WARNING: The air conditioning refrigerant system contains refrigerant under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Capacities

Variant	Refrigerant	Refrigerant Oil
All.	31.7 ± 0.7 oz (0.9 ± 0.02 kg)	5.7 fl oz (170 ml)

Materials

Name	Specification
Motorcraft® R-134a Refrigerant(U.S.) R-134a Refrigerant / Frigorigène R-134a(Canada) YN-19(U.S.) CYN-19-R(Canada)	WSH-M17B19-A
Motorcraft® R-1234yf Refrigerant POE Oil(U.S.) Motorcraft® R-1234yf Refrigerant POE Oil / Huile POE pour frigorigène R-1234yf Motorcraft®(Canada) YN-34(U.S. & Canada)	WSS-M2C31-B2

WASHER FLUID SPECIFICATION

Capacities

Variant	Quantity
All.	Fill as required.

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Materials

Name	Specification
Motorcraft® Premium Windshield Wash Concentrate with Bitterant(U.S.) Motorcraft® Premium Quality Windshield Washer Fluid / Liquide lave-glace de haute qualité Motorcraft®(Canada) ZC-32-B2(U.S.) CXC-37-F/M(Canada)	WSS-M14P19-A

BRAKE FLUID SPECIFICATION

Materials

Name	Specification
Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid(U.S.) Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid / Liquide de frein automobile haute performance DOT 4 LV Motorcraft®(Canada) PM-20(U.S. & Canada)	WSS-M6C65-A2

Note: *We recommend using DOT 4 LV (Low Viscosity) High Performance Brake Fluid meeting WSS-M6C65-A2 or ISO 4925 Class 6 standards. Use of any fluid other than the recommended fluid could cause reduced brake performance and not meet our performance standards. Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials could result in brake system damage and possible failure.*

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REAR AXLE FLUID CAPACITY AND SPECIFICATION - 3.5L DURATEC/3.5L ECOBOOST™

Capacities

Variant	Quantity
Vehicles with limited slip differential.	2.9–2.9 qt (2.72–2.79 L)
Vehicles with conventional differential.	3.0–3.1 qt (2.84–2.91 L)
Rear axle friction modifier.	0.2–0.2 qt (148–178 ml)

Note: *Ford rear axles contain a synthetic lubricant that does not require changing unless you submerge the axle in water.*

Materials

Name	Specification
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant(U.S.) Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / Huile synthétique de haute qualité pour engrenages hypoïdes SAE 75W-85 Motorcraft®(Canada) XY-75W85-QL(U.S. & Canada)	WSS-M2C942-A
Motorcraft® Additive Friction Modifier(U.S.) Motorcraft® Additive Friction Modifier / Additif modificateur de friction Motorcraft®(Canada) XL-3(U.S.) CXL-3(Canada)	EST-M2C118-A

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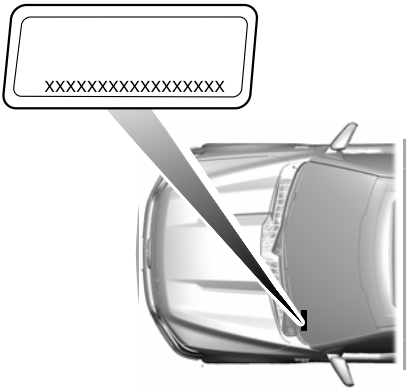
VEHICLE IDENTIFICATION NUMBER

LOCATING THE VEHICLE IDENTIFICATION NUMBER

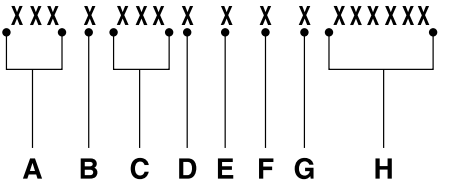
The vehicle identification number is on the left-hand side of the instrument panel.



Note: *In the illustration, XXXX is representative of your vehicle identification number.*

VEHICLE IDENTIFICATION NUMBER OVERVIEW

The vehicle identification number contains the following information:



A	World manufacturer identifier.
B	Brake system, gross vehicle weight rating, restraint devices and their locations.
C	Make, vehicle line, series, body type.
D	Engine or motor type.
E	Check digit.
F	Model year.
G	Assembly plant.
H	Production sequence number.

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WHAT IS A CONNECTED VEHICLE

A connected vehicle has technology that allows your vehicle to connect to a mobile network and for you to access a range of features. When used in conjunction with the FordPass app, it could allow you to monitor and control your vehicle further, for example checking the tire pressures, the fuel level and the vehicle location. For additional information, refer to the local Ford website.

CONNECTED VEHICLE REQUIREMENTS

Connected service and related feature functionality requires a compatible vehicle network.

Some remote features require additional service activation. Log in to your Ford account for details. Some restrictions, third party terms and message or data rates may apply.

CONNECTED VEHICLE LIMITATIONS

Evolving technology, cellular networks, or regulations could affect functionality and availability, or continued provision of some features. These changes could even stop some features from functioning.

CONNECTING THE VEHICLE TO A MOBILE NETWORK

WHAT IS THE MODEM

The modem allows access to a range of features built into your vehicle.

ENABLING AND DISABLING THE MODEM - VEHICLES WITHOUT: SYNC

1. Using the information display controls on the steering wheel, select ***Settings***.
2. Select ***FordPass Connect***.
3. Select ***Connectivity***.
4. Switch connectivity features on or off.

ENABLING AND DISABLING THE MODEM - VEHICLES WITH: SYNC 3 LITE

1. Select ***Settings***.
2. Select ***Connectivity Features***.
3. Select ***Data sharing***.
4. Switch connectivity features on or off.

ENABLING AND DISABLING THE MODEM - VEHICLES WITH: SYNC 4

1. Press ***Settings***.
2. Press ***Connectivity***.
3. Press ***Connected Vehicle Features***.
4. Switch vehicle connectivity on or off.

CONNECTING FORDPASS TO THE MODEM

1. Make sure that the modem is enabled using the vehicle settings menu.
2. Open the FordPass app on your device and log in.
3. Add your vehicle or select your vehicle if already added.
4. Select the option to activate your vehicle.
5. Make sure that the name on the screen matches the name shown in your FordPass account.

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6. Confirm that FordPass account is connected to the modem.

CONNECTING THE VEHICLE TO A WI-FI NETWORK - VEHICLES WITH: SYNC 4

1. Press ***Settings*** on the touchscreen.
2. Press ***Connectivity***.
3. Press ***Manage Wi-Fi Networks***.
4. Switch ***Wi-Fi*** on.
5. Press ***View Available Networks***.
6. Select an available Wi-Fi network.

Note: *Enter the network password to connect to a secure network.*

CONNECTING THE VEHICLE TO A WI-FI NETWORK - VEHICLES WITH: SYNC 3 LITE

1. Press ***Settings***.
2. Press ***Wi-Fi***.
3. Switch ***Wi-Fi*** on.
4. Press ***View Available Networks***.
5. Select an available Wi-Fi network.

Note: *Enter the network password to connect to a secure network.*

CONNECTED VEHICLE – TROUBLESHOOTING

CONNECTED VEHICLE – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: SYNC 4

Why can I not confirm the connection of my FordPass account to the modem?

- The modem is not enabled. Switch vehicle connectivity on.
- The network signal is weak. Move your vehicle closer to a place where the network signal is not obstructed.

Why can I not connect to a Wi-Fi network?

- You entered the wrong network password. Enter the correct password.
- The network signal is weak. Move your vehicle closer to the Wi-Fi router or to a place where the network signal is not obstructed.
- There are multiple access points in range with the same network name. Choose a unique name for your network. Do not use the default name unless it contains a unique identifier, for example as part of the MAC address.

Why does the Wi-Fi connection disconnect after successful connection?

- The network signal is weak. Move your vehicle closer to the Wi-Fi router or to a place where the network signal is not obstructed.

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What can I do if I am close to a Wi-Fi router but the network signal strength is weak?

- If your vehicle has a heated windshield, position your vehicle so that the windshield is not facing the Wi-Fi router.
- If your vehicle has metallic tinting on the windows but not on the windshield, position your vehicle so that the windshield is facing the Wi-Fi router or open the windows that are facing the router.
- If your vehicle has metallic tinting on the windows and the windshield, open the windows that are facing the router.
- If your vehicle is in a garage and you have the garage door closed, open the garage door as it could block the signal.

Why can I not see a network I expect to see in the list of available networks?

- The network is hidden. Make the network visible and try again, or manually add a network in the Wi-Fi settings menu.
- Some network security types are not supported, for example WEP.

Why do software downloads take too long?

- The network signal is weak. Move your vehicle closer to the Wi-Fi router or to a place where the network signal is not obstructed.
- Wi-Fi network is in high demand or has a slow Internet connection. Use a more reliable Wi-Fi network.

Why does the software not update when the system seems to connect to a Wi-Fi network and the signal strength is excellent?

- No software update is available at this time.
- Select automatic updates option in the settings menu to enable automatic software update or contact an authorized dealer.
- There could be a connection problem. Test the network using another device.

CONNECTED VEHICLE – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: SYNC 3 LITE

Why can I not confirm the connection of my FordPass account to the modem?

- The modem is not enabled. Switch vehicle connectivity on.
- The network signal is weak. Move your vehicle closer to a place where the network signal is not obstructed.

Why can I not connect to a Wi-Fi network?

- You entered the wrong network password. Enter the correct password.
- The network signal is weak. Move your vehicle closer to the Wi-Fi router or to a place where the network signal is not obstructed.
- There are multiple access points in range with the same network name. Choose a unique name for your network. Do not use the default name unless it contains a unique identifier, for example as part of the MAC address.

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Why does the Wi-Fi connection disconnect after successful connection?

- The network signal is weak. Move your vehicle closer to the Wi-Fi router or to a place where the network signal is not obstructed.

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- If your vehicle has a heated windshield, position your vehicle so that the windshield is not facing the Wi-Fi router.
- If your vehicle has metallic tinting on the windows but not on the windshield, position your vehicle so that the windshield is facing the Wi-Fi router or open the windows that are facing the router.
- If your vehicle has metallic tinting on the windows and the windshield, open the windows that are facing the router.
- If your vehicle is in a garage and you have the garage door closed, open the garage door as it could block the signal.

Why can I not see a network I expect to see in the list of available networks?

- The network is hidden. Make the network visible and try again, or manually add a network in the Wi-Fi settings menu.

Why do software downloads take too long?

- The network signal is weak. Move your vehicle closer to the Wi-Fi router or to a place where the network signal is not obstructed.
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- No software update is available at this time.
- Select automatic updates option in the settings menu to enable automatic software update or contact an authorized dealer.
- There could be a connection problem. Test the network using another device.

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CREATING A VEHICLE WI-FI HOTSPOT - VEHICLES WITH: SYNC 4

You can create a Wi-Fi hotspot in your vehicle and allow devices to connect to it for access to the Internet.

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle Hotspot***.

Note: *The vehicle hotspot default setting is on.*

3. Press ***Settings***.
4. Press ***Edit***.
5. Press ***Hotspot Visibility***.

Note: *The hotspot visibility default setting is on.*

Finding the Wi-Fi Hotspot Name and Password

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle Hotspot***.
3. Press ***Settings***.

Note: *The network name is the hotspot name.*

4. Press ***Show Password***.

Connecting a Device to the Wi-Fi Hotspot

1. On your device, switch Wi-Fi on and select the hotspot from the list of available Wi-Fi networks.
2. When prompted, enter the password.

Purchasing a Data Plan

1. Connect a device to the hotspot.

Note: *The vehicle network carrier's portal opens on your device.*

2. If the portal does not open on your device, open a website and it redirects to the vehicle network carrier's portal.

Note: *Secure websites do not redirect.*

3. Follow the instructions on the carrier portal to purchase a plan.

Note: *If you have an active plan, the system does not redirect to the vehicle network carrier's portal when you connect a device. Visit the vehicle network carrier's website to purchase more data.*

Note: *If data usage information is available in the vehicle hotspot menu, it is approximate.*

Note: *If you carry out a master reset, the system does not remove your vehicle from your vehicle network carrier's account. To remove your vehicle from the account, contact your vehicle network carrier.*

Note: *The vehicle network carrier provides Vehicle Hotspot services, subject to your vehicle network carrier agreement, coverage and availability.*

CREATING A VEHICLE WI-FI HOTSPOT - VEHICLES WITH: SYNC 3 LITE

You can create a Wi-Fi hotspot in your vehicle and allow devices to connect to it for access to the Internet.

1. Select ***Settings***.
2. Select ***FordPass Connect***.
3. Select ***Vehicle Hotspot***.

Note: *The vehicle hotspot default setting is on.*

4. Select ***Settings***.
5. Select ***Edit***.
6. Select ***Wi-Fi Visibility***.

Note: *The Wi-Fi Visibility default setting is on.*

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Finding the Wi-Fi Hotspot Name and Password

1. Select ***Settings***.
2. Select ***FordPass Connect***.
3. Select ***Vehicle Hotspot***.
4. Select ***Settings***.

Note: *The SSID is the hotspot name.*

5. Select ***View Password***.

Connecting a Device to the Wi-Fi Hotspot

1. On your device, turn on Wi-Fi and select the hotspot from the list of available Wi-Fi networks.
2. When prompted, enter the password.

Purchasing a Data Plan

1. Connect a device to the hotspot.

Note: *The vehicle network carrier's portal opens on your device.*

2. If the portal does not open on your device, open a website and it redirects to the vehicle network carrier's portal.

Note: *Secure websites do not redirect.*

Note: *If you have an active plan, the system does not redirect to the vehicle network carrier's portal when you connect a device. Visit the vehicle network carrier's website to purchase more data.*

Note: *If data usage information is available in the vehicle hotspot menu, it is approximate.*

Note: *If you carry out a master reset, the system does not remove your vehicle from your vehicle network carrier's account. To remove your vehicle from the account, contact your vehicle network carrier.*

Note: *The vehicle network carrier provides Vehicle Hotspot services, subject to your vehicle network carrier agreement, coverage and availability.*

CHANGING THE VEHICLE WI-FI HOTSPOT NAME OR PASSWORD - VEHICLES WITH: SYNC 4

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle Hotspot***.
3. Press ***Settings***.
4. Press ***Edit***.
5. Press ***Change Network Name***.
6. Enter your required network name.
7. Press ***Done***.
8. Press ***Change Password***.
9. Enter your required password.
10. Press ***Done***.

Changing the Wi-Fi Hotspot Frequency

Note: *The Vehicle Hotspot frequency band is selectable depending upon your device capabilities. You will be unable to connect your device to the Vehicle Hotspot if it does not support the selected frequency band.*

1. Press ***Settings*** on the touchscreen.
2. Press ***Vehicle Hotspot***.
3. Press ***Settings***.
4. Press ***Edit***.
5. Select a frequency.

CHANGING THE VEHICLE WI-FI HOTSPOT NAME OR PASSWORD - VEHICLES WITH: SYNC 3 LITE

1. Select ***Settings***.
2. Select ***FordPass Connect***.
3. Select ***Vehicle Hotspot***.
4. Select ***Settings***.

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5. Select ***Edit***.
6. Select ***Change SSID Name***.
7. Enter your required SSID.
8. Select ***Done***.
9. Select ***Change Password*** .
10. Enter your required password.
11. Select ***Done***.

VEHICLE WI-FI HOTSPOT – TROUBLESHOOTING

VEHICLE WI-FI HOTSPOT – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: SYNC 4

Why can I not see the Wi-Fi hotspot name when I search for Wi-Fi networks on my cell phone or other device?

- Make sure Wi-Fi hotspot visibility is on.
- The system does not provide a Wi-Fi hotspot at this time.
- Check what frequency the hotspot is transmitting in the vehicle hotspot settings menu. If the frequency is 5 GHz and your device cannot see the network, change the frequency to 2.4 GHz.

VEHICLE WI-FI HOTSPOT – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: SYNC 3 LITE

Why can I not see the Wi-Fi hotspot name when I search for Wi-Fi networks on my cell phone or other device?

- Make sure Wi-Fi hotspot visibility is on.
- The system does not provide a Wi-Fi hotspot at this time.

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AUDIO SYSTEM PRECAUTIONS

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Listening to loud audio for long periods of time could damage your hearing.

SWITCHING THE AUDIO UNIT ON AND OFF

Press the button on the volume control.

SELECTING THE AUDIO SOURCE - VEHICLES WITHOUT: SYNC

Selecting the Radio

Press the button to select radio mode.

Press the button again to display the available radio sources. Repeatedly press the button to scroll through the available radio sources.

Selecting Media

Press the button to select media mode.

Press the button again to display the available media sources. Repeatedly press the button to scroll through the available media sources.

SELECTING THE AUDIO SOURCE - VEHICLES WITH: SYNC 4

1. Select ***Sources***.
2. Select the desired source by pressing the tile on the touchscreen.

SELECTING THE AUDIO SOURCE - VEHICLES WITH: SYNC 3 LITE

Select the audio option on the feature bar.

Select ***Sources***.

Select the desired source.

PLAYING OR PAUSING THE AUDIO SOURCE

Press to pause playback. Press again to resume playback.

Note: *Not all sources can be paused.*

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ADJUSTING THE VOLUME

Turn to adjust the volume.

Some vehicles may be able to adjust the volume using buttons on the steering wheel.

SETTING A MEMORY PRESET

To store a radio station, press and hold one of the preset buttons.

Note: *A maximum of thirty presets can be stored depending on the selected number of preset pages.*

MUTING THE AUDIO

Press to mute the signal. Press again to restore the signal.

Note: *The mute function is only available for sources that cannot be paused.*

Note: *The mute button is also available on the steering wheel control.*

SCROLLING THROUGH MENU ITEMS - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

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SCROLLING THROUGH MENU ITEMS - VEHICLES WITH: SYNC 4

Use the touchscreen to scroll through menu items.

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SELECTING A MENU ITEM - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

Returning to the Previous Screen

SELECTING A MENU ITEM - VEHICLES WITH: SYNC 4

Use the touchscreen to select a menu item.

ADJUSTING THE SOUND SETTINGS - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

Press the button to adjust the sound settings. You can optimize the sound for different seating positions.

You can also activate and set the sensitivity of the speed compensated volume.

ADJUSTING THE SOUND SETTINGS - VEHICLES WITH: SYNC 4

Balance and Fade (If Equipped)

1. Press ***Settings*** on the touchscreen.
2. Press ***Sound Settings***.
3. Press ***Balance / Fade***.
4. Press the arrows to adjust the settings.

Tone Settings

1. Press ***Settings*** on the touchscreen.
2. Press ***Sound Settings***.
3. Press ***Tone Settings***.
4. Press the arrows or slider bar to adjust the settings.

Speed Compensated Volume

1. Press ***Settings*** on the touchscreen.
2. Press ***Sound Settings***.
3. Press ***Speed Compensated Volume***.
4. Press a setting.

Occupancy Mode (If Equipped)

1. Press ***Settings*** on the touchscreen.
2. Press ***Sound Settings***.
3. Press ***Occupancy Mode***.
4. Press a setting.

Sound Mode (If Equipped)

1. Press ***Settings*** on the touchscreen.
2. Press ***Sound Settings***.
3. Press ***Sound Mode***.
4. Press a setting.

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SETTING THE CLOCK AND DATE - VEHICLES WITHOUT: SYNC

Press the button.

Select the clock and follow the instructions on the screen.

SETTING THE CLOCK AND DATE - VEHICLES WITH: SYNC 4

1. Press ***Settings*** on the touchscreen.
2. Press ***Clock Settings***.
3. Set the time.

Note: *The **AM** and **PM** options are not available if **24-hour mode** is on.*

Switching Automatic Time Updates On and Off

1. Press ***Settings*** on the touchscreen.
2. Press ***Clock Settings***.
3. Switch ***Automatic time zone update*** on or off.

SETTING THE CLOCK AND DATE - VEHICLES WITH: SYNC 3 LITE

Select the settings option on the feature bar.

1. Select ***Clock***.
2. Adjust the clock.

AM/FM RADIO

AM/FM RADIO LIMITATIONS

The further you travel from an AM or FM station, the weaker the signal and the weaker the reception.

Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with the reception.

When you pass a ground-based broadcast repeating tower, a stronger signal may overtake a weaker one and result in the audio system muting.

SELECTING AN AM/FM RADIO STATION - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

Manually Changing Radio Stations

Rotate the control to change radio stations.

Note: *You can recall radio stations using the preset buttons.*

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Automatically Changing Radio Stations

Press to seek the next station up the frequency band.

Press and hold to quickly seek up the frequency band.

Press to seek the next station down the frequency band.

Press and hold to quickly seek down the frequency band.

Press the button on the steering wheel to switch to the next preset.

Press and hold to seek the next station up the frequency band.

Press the button on the steering wheel to switch to the previous preset.

Press and hold to seek the next station down the frequency band.

Selecting a Station from the List

Press the ***OK*** button to view available stations.

Note: *Station list is only available for FM.*

SELECTING AN AM/FM RADIO STATION - VEHICLES WITH: SYNC 4

Manually Changing Radio Stations

Use the touchscreen to change radio stations.

Note: *You can recall radio stations using the preset buttons.*

Automatically Changing Radio Stations

Press to seek the next station up the frequency band.

Press and hold to quickly seek up the frequency band.

Press to seek the next station down the frequency band.

Press and hold to quickly seek down the frequency band.

Press the button on the steering wheel to switch to the next preset.

Press and hold to seek the next station up the frequency band.

Press the button on the steering wheel to switch to the previous preset.

Press and hold to seek the next station down the frequency band.

Selecting a Station from the List

Press ***Stations*** on the touchscreen to view available stations.

Note: *Station list is only available for FM.*

SWITCHING THE DISPLAY ON AND OFF - VEHICLES WITH: SYNC 3 LITE, VEHICLES WITHOUT: SYNC

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SWITCHING THE DISPLAY ON AND OFF - VEHICLES WITH: SYNC 4

DIGITAL RADIO

WHAT IS DIGITAL RADIO

HD Radio™ technology is the digital evolution of analog AM/FM radio.

For additional information, visit *www.HDRadio.com*.

HD Radio Technology is manufactured under license from iBiquity Digital Corporation and foreign patents. HD Radio and the HD and HD Radio logos are proprietary trademarks of DTS. The vehicle manufacturer and DTS are not responsible for the content sent using HD Radio technology. Content may be changed, added or deleted at any time at the station owner's discretion.

HOW DOES DIGITAL RADIO WORK

Your system has a special receiver that allows it to receive digital broadcasts in addition to analog broadcasts.

HD1 signifies the main programming status and is available in both analog and digital broadcasts. Other multicast stations are only available digitally and could contain new or different content.

Note: *When the system first receives an HD1 station, it plays the station in the analog version until it verifies the station is an HD Radio station. Then it shifts to the digital version.*

Note: *There is an audio mute delay when switching to an HD2 or HD3 station because the system has to reacquire and decode the digital signal.*

DIGITAL RADIO LIMITATIONS

If you are outside the reception area, the system could not work.

If you are on the fringe of the reception area, the station could mute due to weak signal strength.

Note: *If you are listening to HD1, the system changes back to the analog broadcast until the digital broadcast is available again. If you are listening to any other multicast channels, the station mutes and stays muted unless it is able to connect to the digital signal again.*

Depending on the station quality, you could hear a slight sound change when the station changes between analog and digital audio.

You cannot access a saved HD station if your vehicle is outside the station's reception area.

DIGITAL RADIO INDICATORS

HD Radio Indicator

The indicator appears when HD Radio is on and you tune to a station broadcasting HD Radio technology.

The color of the indicator changes to indicate the system status.

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Gray indicates the system is acquiring a digital station.

Orange indicates digital audio is playing.

Multicast Indicator

The multicast indicator appears if the current station is broadcasting multiple digital broadcasts. The highlighted numbers indicate additional digital channels available.

Note: *For stations that have more than one HD multicast, the HD indicator and radio text appears as a button. Press the button to cycle through all of the HD stations on that specific frequency.*

SATELLITE RADIO

WHAT IS SATELLITE RADIO

Your factory-installed SiriusXM radio system includes a limited subscription term, which begins on the date of sale or lease of your vehicle. See an authorized dealer for availability.

For additional information about extended subscription terms, visit *www.SiriusXM.com* in the United States, *www.SiriusXM.ca* in Canada, or call SiriusXM at 1-888-539-7474.

Note: *SiriusXM reserves the unrestricted right to change, rearrange, add or delete programming including canceling, moving or adding particular channels, and its prices, at any time, with or without notice to you. Neither SiriusXM and its affiliates nor Ford Motor Company and its affiliates will be liable to you or any third party for any such modification, suspension or termination.*

SATELLITE RADIO LIMITATIONS

For optimal reception performance, keep the antenna clear of snow and ice build-up and keep luggage and other material as far away from the antenna as possible. Placing luggage over the antenna may reduce performance. Factory-installed and aftermarket vehicle structures including, but not limited to, roof racks and soft top roofs in a partially open position could reduce reception performance.

Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.

When you pass a ground-based broadcast-repeating tower, a stronger signal may overtake a weaker one and could result in the audio system muting. Your display could show an error message to indicate the interference.

LOCATING THE SATELLITE RADIO IDENTIFICATION NUMBER

1. Select SiriusXM as the audio source.
2. Tune to channel 0.

SATELLITE RADIO SETTINGS

Subscription

Your subscription status is displayed. You can subscribe or manage your subscription directly from the touchscreen.

Listener Add/Switch

You can create up to five listener profiles per SiriusXM account. Each listener profile can be personalized with a name and profile image.

Note: *Requires a trial or active subscription to use.*

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Note: *A default profile is available when no listener profiles are created.*

SiriusXM Favorites

SiriusXM Favorites are shown for the active listener profile. While you are listening to SiriusXM, you can save favorites by:

- Tapping the currently tuned channel or show logo on the SiriusXM audio screen. A favorite icon appears next to the logo when it is saved as a favorite.
- Tuning to a channel or show you want to save as a favorite. Navigate to the SiriusXM Favorites screen and press the Add Current button. The currently tuned channel or show is saved as a favorite.
- Saving a radio preset. This saves the currently tuned SiriusXM channel or show as a favorite.

Note: *Requires a trial or active subscription to use.*

Listening History

Listening history is a list of recently listened to SiriusXM content and is shown for the active listener profile. You can view, manage and reset the listening history using the controls on the touchscreen.

Note: *Requires a trial or active subscription to use.*

Listener Settings

Listener settings apply to the active listener profile.

Note: *Requires a trial or active subscription to use.*

Note: *A default profile is available when no listener profiles are created.*

Help and Support

You can contact SiriusXM Customer Care directly from SYNC and view information required to manage your SiriusXM account.

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GENERAL INFORMATION

SYNC is an in-vehicle communications system that works with your Bluetooth enabled cellular phone and portable media player. This allows you to:

- Make and receive calls.
- Access and play music from your portable music player.
- Use 911 Assist or Emergency Assistance and applications via SYNC AppLink.*
- Access phonebook contacts and music using voice commands.
- Stream music from your connected phone.
- Text message.
- Use the advanced voice recognition system.
- Charge your USB device (if your device supports this).

*These features are not available in all markets and may require activation. Available AppLink enabled apps vary by market.

Make sure that you review your device's manual before using it with SYNC.

Support

SYNC support is available at your regional Ford website. See **SYNC™ Troubleshooting** (page 489).

SYNC Owner Account

Why do I need a SYNC owner account?

- Essential for keeping up with the latest software downloads available for SYNC.
- Access to customer support for any questions you may have.

Driving Restrictions

For your safety, certain features are speed-dependent and restricted when your vehicle is traveling over 3 mph (5 km/h).

Safety Information

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

When using SYNC:

- Do not operate playing devices if the power cords or cables are broken, split or damaged. Place cords and cables out of the way, so they do not interfere with the operation of pedals, seats, compartments or safe driving abilities.
- Do not leave playing devices in your vehicle during extreme conditions as it could cause them damage. See your device's manual for further information.
- Do not attempt to service or repair the system. See an authorized dealer.

Privacy Information

When a cellular phone is connected to SYNC, the system creates a profile within your vehicle that is linked to that cellular phone. This profile is created in order to offer you more cellular features and to operate more efficiently. Among other things, this profile may contain data about your cellular phone book, text messages

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(read and unread), and call history, including history of calls when your cellular phone was not connected to the system. In addition, if you connect a media device, the system creates and retains an index of supported media content. The system also records a short development log of approximately 10 minutes of all recent system activity. The log profile and other system data may be used to improve the system and help diagnose any problems that may occur.

The cellular profile, media device index, and development log will remain in the vehicle unless you delete them and are generally accessible only in the vehicle when you connect the cellular phone or media player. If you no longer plan to use the system or the vehicle, we recommend you perform a Master Reset to erase all stored information.

No one can access system data without special equipment and access to the vehicle's SYNC module. Ford Motor Company and Ford of Canada will not access the system data for any purpose other than as described absent consent, a court order, or where required by law enforcement, other government authorities, or other third parties acting with lawful authority. Other parties may seek to access the information independently of Ford Motor Company and Ford of Canada. For further privacy information, see the section on 911 Assist. See **SYNC™ Applications and Services** (page 485).

USING VOICE RECOGNITION

This system helps you control many features using voice commands. This allows you to keep your hands on the wheel and focus on what is around you.

Initiating a Voice Session

Press the voice button. A list of available voice commands appear in the display.

Global Voice Commands

These voice commands are always available. You can say them at any time.

Global Voice Commands	
Help	Gives you available commands you can use on the current screen.
List of Commands	Gives you a list of possible voice commands.
Cancel	This command ends the voice session. You can also cancel a session by pressing seek up, seek down, or holding the voice button for two or more seconds.

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Helpful Hints

- Make sure the interior of your vehicle is as quiet as possible. Wind noise from open windows and road vibrations may prevent the system from correctly recognizing spoken commands.
- Before giving a voice command, wait for the system announcement to finish, followed by a single tone. Any command spoken before this does not register with the system.
- Speak naturally, without long pauses between words.
- You can interrupt the system at any time while it is speaking by pressing the voice button. You can cancel a voice session by pressing and holding the voice button.

System Interaction and Feedback

The system provides feedback through audible tones, prompts, questions and spoken confirmations depending on the situation and the chosen level of interaction. You can customize the voice recognition system to provide more or less instruction and feedback.

The default setting is to a higher level of interaction in order to help you learn to use the system. You can change these settings at any time.

Adjusting the Interaction Level

Press the voice button. When prompted, say:

Voice Command	Action and Description
Interaction Mode Standard	Provides more detailed interaction and guidance. (Recommended for first time users.)
Interaction Mode Advanced	Provides less audible interaction and guidance.

Phone Confirmation

Using phone confirmations; the system asks you to verify before placing any calls.

To adjust this setting press the voice button, when prompted say:

Voice Command	Action and Description
Phone Confirmation Off	When enabled, this feature prompts you to confirm any voice initiated call command prior to placing the call.
Phone Confirmation On	The system makes a best guess; occasionally, the system asks you to confirm settings.

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USING SYNC™ WITH YOUR PHONE

Hands-free calling is one of the main features of SYNC. While the system supports a variety of features, many are dependent on your cellular phone's functionality. At a minimum, most cellular phones with Bluetooth wireless technology support the following functions:

- Answering an incoming call.
- Ending a call.
- Dialing a number.
- Redialing.
- Call waiting notification.
- Caller identification.

Other features, such as text messaging using ***Bluetooth®*** and automatic phonebook download, are phone-dependent features.

Pairing a Phone

Wirelessly pairing your phone with SYNC allows you to make and receive hands-free calls.

Note: *Make sure to switch on the ignition and the radio. Shift the transmission into park (P) for automatic transmission or neutral (N) for manual transmission.*

Using the Audio System

Note: *To scroll through the menus, press the up and down arrows on your audio system.*

1. Make sure to switch on your phone's ***Bluetooth®*** feature before starting the search. See your device's manual if necessary.
2. Press the **Settings** button.
3. Select Bluetooth from the menu.
4. Press the **OK** button.
5. Select the option to add. This starts the pairing process.
6. When a message to begin pairing appears in the center display, search for SYNC on your device.

Depending on your phone's capability and your market, the system may prompt you with questions, such as setting the current phone as the primary phone and downloading your phonebook.

Using Voice Commands

Make sure to switch on your phone's ***Bluetooth®*** feature before starting the search. See your device's manual if necessary.

Press the voice button and when prompted say:

Voice Command	Action and Description
Pair Phone	Follow the instructions on the center display.

Phone Voice Commands

Press the voice button. You can do things like place a phone call and access text messages. When prompted, say a command. See the following table for examples of commands.

Voice Command
___ List of Commands
Help
Call ___
Dial ___
Text Messages

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__ is a dynamic listing, meaning that it could be the name of anything, such as a contact or phone number.

Phone Controls

Use the phone buttons on your steering wheel to answer, reject, or hang up a call.

Accessing Features through the Phone Menu

You can access your call history, phonebook, sent text messages, as well as access phone and system settings.

1. Press the **PHONE** button to enter the phone menu.
2. Scroll through the menu to view contacts, text messages, and the phone dialer.

SYNC™ APPLICATIONS AND SERVICES

- 911 Assist: Can alert 911 in the event of an emergency.
- SYNC AppLink: Allows you to connect to and use certain applications (if your phone is compatible).

These features may require activation. Available AppLink enabled apps vary by market.

911 Assist

WARNING: Unless the 911 Assist setting is set on before a crash, the system will not dial for help which could delay response time, potentially increasing the risk of serious injury or death after a crash.

WARNING: Do not wait for 911 Assist to make an emergency call if you can do it yourself. Dial emergency services immediately to avoid delayed response time which could increase the risk of serious injury or death after a crash. If you do not hear 911 Assist within five seconds of the crash, the system or phone may be damaged or non-functional.

WARNING: Always place your phone in a secure location in your vehicle so it does not become a projectile or get damaged in a crash. Failure to do so may cause serious injury to someone or damage the phone which could prevent 911 Assist from working properly.

Note: *The SYNC 911 Assist feature must be set on before the incident.*

Note: *The SYNC 911 Assist feature only operates in the U.S., Canada or in a territory in which 911 is the emergency number.*

Note: *Before setting this feature on, make sure that you read the 911 Assist Privacy Notice later in this section for important information.*

Note: *If any user switches 911 Assist to on or off, that setting applies for all paired phones. If 911 Assist is switched off, either a voice message plays or a display message or an icon comes on when your vehicle is started and after a previously paired phone connects.*

Note: *Every phone operates differently. While SYNC 911 Assist works with most cellular phones, some may have trouble using this feature.*

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If a crash deploys an airbag, excluding knee airbags and rear inflatable seatbelts, or activates the fuel pump shut-off, your vehicle may be able to contact emergency services by dialing 911 through a paired and connected ***Bluetooth***®-enabled phone.

Important information about airbag deployment is in this chapter.

See **Automatic Crash Shutoff** (page 353). Important information about the fuel pump shut-off is in this chapter.

Setting 911 Assist On or Off

Press the Settings button then select:

Menu Item	Action and Description
911 Assist	Select the desired option, on or off.

To make sure that 911 Assist works properly:

- SYNC must be powered and working properly at the time of the incident and throughout feature activation and use.
- The 911 Assist feature must be set on before the incident.
- You must pair and connect a ***Bluetooth***® enabled and compatible cell phone to SYNC.
- A connected ***Bluetooth***® enabled phone must have the ability to make and maintain an outgoing call at the time of the incident.
- A connected ***Bluetooth***® enabled phone must have adequate network coverage, battery power and signal strength.
- The vehicle must have battery power and be located in the U.S., Canada or in a territory in which 911 is the emergency number.

In the Event of a Crash

Not all crashes deploy an airbag or activate the fuel pump shut-off (the triggers for 911 Assist). If a connected cell phone sustains damage or loses its connection to SYNC during a crash, SYNC searches for and tries to connect to a previously paired cell phone; SYNC then attempts to call the emergency services.

Before making the call:

- SYNC provides a short window of time (about 10 seconds) to cancel the call. If you fail to cancel the call, SYNC attempts to dial 911.
- SYNC says the following, or a similar message: "SYNC will attempt to call 911, to cancel the call, press Cancel on your screen or press and hold the phone button on your steering wheel".

If you do not cancel the call, and SYNC makes a successful call, a pre-recorded message plays for the 911 operator, and then the occupant(s) in your vehicle are able to talk with the operator. Be prepared to provide your name, phone number and location immediately, because not all 911 systems are capable of receiving this information electronically.

911 Assist May Not Work If

- Your cellular phone or 911 Assist hardware sustains damage in a crash.
- The vehicle's battery or the SYNC system has no power.
- The phone(s) thrown from your vehicle are the ones paired and connected to the system.

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911 Assist Privacy Notice

When you switch on 911 Assist, it may disclose to emergency services that your vehicle has been in a crash involving the deployment of an airbag or activation of the fuel pump shut-off. Certain versions or updates to 911 Assist may also be capable of electronically or verbally disclosing to 911 operators your vehicle location or other details about your vehicle or crash to assist 911 operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not switch the feature on.

SYNC Mobile Apps

The system enables voice and steering wheel control of SYNC AppLink enabled smartphone apps. When an app is running through AppLink, you can control main features of the app through voice commands and steering wheel controls.

Note: *You must pair and connect your smartphone to SYNC to access AppLink.*

Note: *Android users need to connect the phone to SYNC using **Bluetooth®**.*

Note: *For information on available apps, supported smartphone devices and troubleshooting tips please visit the Ford website.*

Note: *Availability of SYNC AppLink enabled Apps will vary by region.*

Note: *Make sure you have an active account for the app that you have downloaded. Some apps work automatically with no setup. Other apps want you to configure your personal settings and personalize your experience by creating stations or favorites. We recommend you do this at home or outside of your vehicle.*

To Access Using the SYNC Menu

Press the Mobile Apps button to access the menu on-screen. Then select:

Menu Item	Action and Description
Find Mobile Apps	Scroll through the list of available applications and select a particular app.

Note: *If you cannot find a compatible SYNC AppLink app, make sure the required app is running on the mobile device.*

To Access Using Voice Commands

Press the voice button, then when prompted say:

Voice Command	Action and Description
Mobile Applications	Say the name of the application after the tone. The app should start. When an app is running through SYNC, you can press the voice button and speak commands specific to the app, for example "Play Playlist Road Trip".
List Applications	SYNC lists all of the currently available mobile apps.
Find Applications	Searches your connected mobile device for SYNC-compatible mobile apps.
Help	Use this command to discover the available voice commands.

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App Permissions

App permissions are organized by groups. You can grant these group permissions individually. You can change a permission group status any time when not driving, by using the settings menu.

When you launch an app using SYNC, the system may ask you to grant certain permissions, for example:

- To allow your vehicle to provide vehicle information to the app such as, but not limited to: Fuel level, fuel economy, fuel consumption, engine speed, rain sensor, odometer, VIN, external temperature, gear position, tire pressure, and head lamp status.
- To allow your vehicle to provide driving characteristic information such as, but not limited to: MyKey, seatbelt status, engine revolutions per minute, gear position, braking events, steering wheel angle, and accelerator pedal position.
- To allow your vehicle to provide location information, including: GPS and speed.
- To allow the app to send push notifications using the vehicle display and voice capabilities while running in a background state. Push notifications may be particularly useful for news or location based apps.

Note: *You only need to grant permissions the first time you use an app with SYNC.*

Note: *Ford is not responsible or liable for any damages or loss of privacy relating to usage of an app, or dissemination of any vehicle data that you approve Ford to provide to an app.*

Enabling SYNC Mobile Apps

In order to enable mobile apps, SYNC requires user consent to send and receive app authorization information and updates using the data plan associated with the connected device.

Data is sent to Ford in the United States through the connected device. The information is encrypted and includes, for example, the vehicle identification number of your vehicle, the SYNC module serial number, odometer, enabled apps, usage statistics and debugging information. Updates may take place.

Note: *You must enable mobile apps for each connected device the first time you select a mobile app using the system.*

Note: *Standard data rates apply. Ford is not responsible for any additional charges you may receive from your service provider, when your vehicle sends or receives data through the connected device. This includes any additional charges incurred due to driving in areas when roaming out of a home network.*

USING SYNC™ WITH YOUR MEDIA PLAYER

SYNC supports digital media sources including: iPod, ***Bluetooth***® devices, and most USB drives. SYNC also supports audio formats, such as MP3, WMA, WAV and ACC.

Media Sources

The **AUX** or **MEDIA** button allows you to view and select available media sources.

Press the **AUX** or **MEDIA** button to view your sources. Use the directional arrows and OK button to select your source. You can also use the steering wheel audio controls.

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Audio Voice Commands

Press the voice button. You can do things like play a specific song or album, or tune to a radio station. When prompted, say a command. See the following table for example commands. Not all commands may be available on your vehicle.

Command
___ List of Commands
Help
Pause
Play
AM ___
FM ___
CD Player

Command
Sirius Channel ___
USB
Bluetooth Audio

__ is a dynamic listing, meaning that it could be the name of anything, such as an artist, station, or media source.

SYNC™ TROUBLESHOOTING

Your SYNC system is easy to use. However, should questions arise, see the tables below.

Use your local Ford website at any time to check your phone's compatibility, register your account and set preferences as well as access a customer representative via an online chat (during certain hours).

Market	Website(s)
North America	www.SYNCMyRide.com www.SYNCMyRide.ca www.syncmaroute.ca

Phone Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
There is excessive background noise during a phone call.	The audio control settings on your phone may be affecting SYNC performance.	Review your phone's manual about audio adjustments.
During a call, I can hear the other person but they cannot hear me.	This may be a possible phone malfunction.	Try turning off the device, resetting the device, removing the device's battery, then trying again.
SYNC is not able to download my phonebook.	This is a phone-dependent feature.	Go to the website to review your phone's compatibility.

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Phone Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
	This may be a possible phone malfunction.	Try turning off the device, resetting the device or removing the device's battery, then trying again. Try pushing your phonebook contacts to SYNC by using the Add Contacts feature. Use the SYNCmyphone feature available on the website.
The system says Phonebook Downloaded but the phonebook in SYNC is empty or missing contacts.	This may be a limitation on your phone's capability.	Try pushing your phonebook contacts to SYNC by using the Add Contacts feature. If the missing contacts are stored on your SIM card, try moving them to the device memory. Remove any pictures or special ring tones associated with the missing contact. Depending upon your phone, you may have to grant SYNC permission to access your phonebook contacts. Make sure to confirm when prompted by your phone during the phonebook download.
I am having trouble connecting my phone to SYNC.	This is a phone-dependent feature.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again.

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Phone Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
	This may be a possible phone malfunction.	Try deleting your device from SYNC, deleting SYNC from your device and trying again. Check the security and auto accept and prompt always settings relative to the SYNC ***Bluetooth***® connection on your phone. Update your device's firmware. Turn off the Auto phonebook download setting.
Text messaging is not working on SYNC.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again.
I cannot return to the Phone menu when selecting a contact.	You are on the Select a Character screen.	Press the Phone button to return to the Phone menu.

USB and Media Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
I am having trouble connecting my device.	This may be a possible device malfunction.	Try turning off the device, resetting the device, removing the device's battery, then trying again. Make sure you are using the manufacturer's cable. Make sure you insert the USB cable correctly into the device and the USB port.

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USB and Media Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
		Make sure that the device does not have an auto-install program or active security settings.
SYNC does not recognize my device when I turn on the car.	This is a device limitation.	Make sure you are not leaving the device in your vehicle during very hot or cold temperatures.
Bluetooth® audio does not stream.	This is a phone-dependent feature. The device is not connected.	Review the device compatibility chart on the SYNC website to confirm your phone supports the ***Bluetooth®*** audio streaming function. Make sure you correctly connect the device to SYNC, and that you have pressed play on your device.
SYNC does not recognize music that is on my device.	Your music files may not contain the correct artist, song title, album or genre information. The file may be corrupted. The song may have copyright protection, which does not allow it to play.	Make sure that all song details are populated. Some devices require you to change the USB settings from mass storage to MTP class.
I cannot change the Sirius station.	Sirius Replay is active.	Switch radio bands and return to Sirius or switch the feature off. You can then change the Sirius station using the directional buttons.

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Voice Command Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
SYNC does not understand what I am saying.	You may be using the wrong voice commands.	Review the phone voice commands and the media voice commands at the beginning of their respective sections.
	You may be speaking too soon or at the wrong time.	After pressing the voice icon, wait until after the tone sounds and Listening appears before saying a command. Any command spoken before this does not register with the system.
SYNC does not understand the name of a song or artist.	You may be using the wrong voice commands.	Review the media voice commands at the beginning of the media section.
	You may be saying the name differently than the way you saved it.	Say the song or artist exactly as listed. If you say "Play Artist Prince", the system does not play music by Prince and the Revolution or Prince and the New Power Generation. Make sure you are saying the complete title, such as "California remix featuring Jennifer Nettles".
	The system may not be reading the name the same way you are saying it.	If the song titles are in all CAPS, you have to spell them. LOLA requires you to say "L-O-L-A". Do not use special characters in the title. The system does not recognize them.
SYNC does not understand or is calling the wrong contact when I want to make a call.	You may be using the wrong voice commands.	Review the Phone voice commands at the beginning of the phone section.

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Voice Command Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
	You may be saying the name differently than the way you saved it.	Make sure you are saying the contacts exactly as they are listed. For example, if you save a contact as Joe Wilson, say "Call Joe Wilson". Using the SYNC phone menu, open the phonebook and scroll to the name SYNC is having trouble understanding. SYNC will read the name to you, giving you some idea of the pronunciation SYNC is expecting.
	The system may not be reading the name the same way you are saying it.	The system works better if you list full names, such as "Joe Wilson" rather than "Joe".
	Contacts in your phonebook may be very short and similar, or they may contain special characters.	Do not use special characters, such as 123 or ICE, as the system does not recognize them.
	Your phonebook contacts may be in CAPS.	If a contact is in CAPS, you have to spell it. JAKE requires you to say "Call J-A-K-E".

AppLink Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
AppLink Mobile Applications: When I select "Find New Apps," SYNC does not find any applications.	An AppLink capable phone is not connected to SYNC.	Ensure you have a compatible smartphone; an Android with OS 2.3 or higher or an iPhone 3GS or newer with iOS 5.0 or higher. Additionally, ensure your phone is paired and connected to

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AppLink Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
		SYNC in order to find AppLink-capable apps on your device. iPhone users must also connect to SYNC's USB port with an Apple USB cable.
My phone is connected, but I still cannot find any apps.	AppLink-enabled apps are not installed and running on your mobile device.	Ensure you have downloaded and installed the latest version of the app from your phone's app store. Ensure the app is running on your phone. Some apps require you to register or login on the app on the phone before using them with AppLink. Also, some may have a Ford SYNC setting, so check the app's settings menu on the phone.
My phone is connected, my app(s) are running, but I still cannot find any apps.	Sometime apps do not properly close and re-open their connection to SYNC, over ignition cycles, for example.	Closing and restarting apps may help SYNC find the application if you cannot discover it inside the vehicle. On an Android device, if apps have an Exit or Quit option, select that then restart the app. If the app does not have that option, you can also manually Force Close the app by going to the phone's settings menu, selecting Apps. then finding the particular app and choosing Force stop. Remember to restart the app afterwards, then select Find New Apps on SYNC.

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AppLink Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
		On an iPhone with iOS7+, to force close an app, double tap the home button then swipe up on the app to close it. Touch the home button again, then select the app again to restart it. After a few seconds, the app should appear in the SYNC Mobile App menu.
My Android phone is connected, my app(s) are running, I restarted them, but I still cannot find any apps.	There is a ***Bluetooth***® bug on some older versions of the Android operating system that may cause apps that were found on your previous vehicle drive to not be found again if you have not turned off ***Bluetooth***®.	Reset the ***Bluetooth***® on your phone by turning it off and then turning ***Bluetooth***® back on. If you are in your vehicle, SYNC should be able to automatically re-connect to your phone if you press the Phone button.

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AppLink Issues		
Issue	**Possible Cause(s)**	**Possible Solution(s)**
My iPhone phone is connected, my app is running, I restarted the app but I still cannot find it on SYNC.	The USB connection to SYNC may need to be reset.	Unplug the USB cable from the phone, wait a moment, and plug the USB cable back in to the phone. After a few seconds, the app should appear in SYNC's Mobile Apps Menu. If not, "Force Close" the application and restart it.
I have an Android phone. I found and started my media app on SYNC, but there is no sound or the sound is very low.	The ***Bluetooth***® volume on the phone may be low.	Try increasing the ***Bluetooth***® volume of the device by using the device's volume control buttons which are most often found on the side of the device.
I can only see some of the AppLink apps running on my phone listed in SYNC's Mobile Apps Menu.	Some Android devices have a limited number of ***Bluetooth***® links apps can use to connect. If you have more AppLink apps on your phone than the number of available ***Bluetooth***® links, you will not see all of your apps listed in SYNC's mobile apps menu.	Force close or uninstall the apps you do not want SYNC to find. If the app has a "Ford SYNC" setting, disable that setting in the app's settings menu on the phone.

SYNC System Reset
The SYNC system in your vehicle has System Reset feature that can be performed if the function of a SYNC feature is lost. This reset is intended to restore functionality and will not erase any information previously stored in the system (Such as paired devices, phonebook, call history, text messages, or user settings). To perform a System Reset, press and hold the Seek Up (>>) button while pressing and holding the Radio Power button. Release both buttons after 2-3 seconds. Please allow a few minutes for the reset to complete. After a few minutes has passed you can resume using the SYNC system.

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CENTER DISPLAY PRECAUTIONS

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CENTER DISPLAY LIMITATIONS

Speed-restricted Features

For your safety, some features are not available while the vehicle is in motion at or above 5 mph (8 km/h). Settings that are not critical while driving your vehicle are shown as restricted on your display. Some of these settings include:

- System updates.
- Personal profiles setup.
- Valet mode setup.
- Driver assistance settings.

Vehicle Settings

- MyKey setup.
- Door keypad code setup.
- Backup start passcode setup.

These restricted features become available when your vehicle is no longer in motion.

STATUS BAR

The bar is on top of the display and indicates the status of your vehicle's features.

Audio System

Audio system muted.

Connected Device

Cell phone microphone muted.

Phone call in progress.

Media player connected.

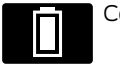
Cell phone network signal strength.

Cell phone roaming.

Text message received.

Unread email message.

Automatic crash notification system off.


Cell phone battery status.

Vehicle Data

Wi-Fi available.

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Wi-Fi connected.

Vehicle data sharing on.

Vehicle data sharing off.

Vehicle location sharing on.

Vehicle data and vehicle location sharing on.

Vehicle System Update

Vehicle system update available.

Vehicle system update requires schedule.

Vehicle system update requires consent.

Vehicle system update requires Wi-Fi.

Vehicle system update schedule reminder.

Vehicle system update not successful.

Vehicle system update successful.

Wireless Accessory Charger

Wireless accessory charger active.

INFORMATION ON DEMAND SCREEN

The information on demand screen displays cards on the side of the display and allows you to see information from different features.

Press the button to view the next card.

Press the button to view the previous card.

Press the button to view available cards.

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WHAT IS VOICE INTERACTION

Voice Interaction allows you to control vehicle features using conversational requests.

SETTING THE WAKE WORD

1. Press ***Settings*** on the touchscreen.
2. Press ***Ford Assistant***.
3. Switch ***Listen for Wake Word*** on.
4. Press ***Preferred Wake Word***.
5. Press a setting.

BEGINNING A VOICE INTERACTION

Say the selected wake word.

Press the voice interaction button on the steering wheel.

VOICE INTERACTION EXAMPLES

General Examples

Command	Result
Start Over.	The system resets the current voice interaction.
Cancel.	The system ends the current voice interaction.
Next Page.	The system goes to the next page.
Previous Page.	The system goes to the previous page.
Help.	The system displays a list of available commands you can use on the current screen.

Entertainment Examples

Command	Result
Play The Beatles.	The system plays the selected music.
Show music by The Beatles.	The system shows the selected music.
Tune to FM 101.9.	The system tunes the radio to 101.9 FM.
Set the station to Sirius Channel 2.	The system tunes the radio to Sirius Channel 2.

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Climate Examples

Command	Result
Set the temperature to low.	The system sets the temperature to the minimum.
Set the temperature to 72ºF (22ºC).	The system sets the temperature to 72ºF (22ºC).

Phone Examples

Command	Result
Call Henry.	The system calls Henry using your connected device.
Dial (phone number).	The system dials the selected phone number.
Send a text message to Henry.	The system begins a dictated text message.
Read my message from Henry.	The system reads you the most recent message from Henry.

Apps Examples

Command	Result
Mobile Apps.	The system prompts you to say the name of an app to start it on the system.
List Mobile Apps.	The system will list all of the currently available Mobile Apps.
Find Mobile Apps	The system will search and connect to compatible apps running on your mobile device.

Navigation Examples

Command	Result
Say the address that you're looking for, like '125 Main Street, New York'.	The system begins guided navigation to the address.
Where is ___	The system searches for the requested point of interest.
Show me directions to Oakwood Boulevard and Pelham Road.	The system shows directions to the selected intersection.
Cancel route.	The system ends guided navigation to the destination.

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PHONE PRECAUTIONS

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CONNECTING YOUR PHONE

1. Make sure ***Bluetooth®*** is enabled on your device.
2. Press ***Add Phone*** on the touchscreen.

Note: *A prompt alerts you to search for your vehicle on your cell phone.*

3. Select your vehicle on your cell phone.

Note: *A number appears on your cell phone and on the touchscreen.*

4. Confirm the number on your cell phone matches the number on the touchscreen.

Note: *The touchscreen indicates that you have successfully paired your cell phone.*

5. Download the phonebook from your cell phone when you are prompted.

Note: *If you pair more than one cell phone, use the phone settings on the center display to specify the primary phone. You can change this setting at any time.*

PHONE MENU

This menu becomes available after pairing a phone.

Recent Call List

Display and select an entry from a list of previous calls.

Contacts

Display a smart search form to look up your contacts. Use the List button to alphabetically sort your contacts.

Favorites

Display the list of favorite contacts that are set up on your phone.

Messaging

Displays the list of text messages to read, listen to, or respond to.

Email

Displays the list of emails to read, listen to, or respond to.

Phone List

Display the list of paired or connected devices that you can select.

Note: *Up to 12 devices can be stored.*

Do Not Disturb

Reject incoming calls and switch ring tones and alerts off.

Phone Keypad

Directly dial a number.

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Voice Control

Say a command to use the Google or Siri voice assistant available on your connected phone to access supported features.

Note: *Some features under the phone menu may not be available if the feature is not supported through the phone.*

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MAKING AND RECEIVING A PHONE CALL

Making Calls

To call a number in your contacts, select:

Menu Item	Action and Description
Contacts	You can then select the name of the contact you want to call. Any numbers stored for that contact display along with any stored contact photos. You can then select the number that you want to call. The system begins the call.

To call a number from your recent calls, select:

Menu Item	Action and Description
Recent Call List	You can then select an entry that you want to call. The system begins the call.

To call a number from your favorites, select:

Menu Item	Action and Description
Favorites	You can then select an entry that you want to call. The system begins the call.

To call a number that is not stored in your phone, select:

Menu Item	Action and Description
Phone Keypad	Select the digits of the number you wish to call.
Call	The system begins the call.

Pressing the backspace button deletes the last digit you typed.

Receiving Calls

During an incoming call, an audible tone sounds. Caller information appears in the display if it is available.

To accept the call, select:

Menu Item
Accept

Note: *You can also accept the call by pressing the phone button on the steering wheel.*

To reject the call, select:

Menu Item
Reject

Ignore the call by doing nothing. The system logs it as a missed call.

During a Phone Call

During a phone call, the contacts name and number display on the screen along with the call duration.

The phone status items are also visible:

- Signal Strength.
- Battery.

You can select any of the following during an active phone call:

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Item	
End Call	Immediately end a phone call. You can also press the button on the steering wheel.
Keypad	Press this to access the phone keypad.

Item	
Mute	You can switch the microphone off so the caller does not hear you.
Privacy	Transfer the call to the cell phone or back to the touch-screen.

SENDING AND RECEIVING A TEXT MESSAGE

Menu Item	Description
Hear It	Hear the text message.
View	View the text message.
Call	Call the sender.
Reply	Reply to the text message with a standard text message.

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SWITCHING TEXT MESSAGE NOTIFICATION ON AND OFF

iOS

1. Go to the settings menu on your cell phone.
2. Select ***Bluetooth®***.
3. Select the information icon to the right of your vehicle.
4. Switch text message notification on or off.

Android

1. Go to the settings menu on your cell phone.
2. Select ***Bluetooth®***.
3. Select the profiles option.
4. Select the phone profile.
5. Switch text message notification on or off.

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CONNECTING A BLUETOOTH® DEVICE

1. Make sure ***Bluetooth®*** is enabled on your device.
2. Press ***Settings*** on the touchscreen.
3. Press ***Connectivity***.
4. Press ***Bluetooth***.
5. Press ***Add a Bluetooth Device***.

Note: *A prompt alerts you to search for your vehicle on your device.*

6. Select your vehicle on your device.

Note: *A number appears on your device and on the touchscreen.*

7. Confirm that the number on your device matches the number on the touchscreen.

Note: *The touchscreen indicates that you have successfully paired your device.*

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PLAYING MEDIA USING BLUETOOTH®

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

1. Connect your device.
2. Press the audio system tile on the touchscreen.
3. Press ***Sources***.
4. Press ***Bluetooth***.

Press to play a track. Press again to pause the track.

Press to skip to the next track.

Press and hold to fast forward through the track.

Press once to return to the beginning of a track. Repeatedly press to return to previous tracks.

Press and hold to fast rewind through the track.

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APP PRECAUTIONS

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

APP REQUIREMENTS

When you start an app through the system for the first time, you could be asked to grant certain permissions. You can review and change the permissions that you have granted at any time when your vehicle is not moving. We recommend that you check your data plan before using your apps through the system. Using them could result in additional charges. We also recommend that you check the app provider's terms and conditions and privacy policy before using their app. Make sure that you have an active account for apps that you want to use through the system. Some apps will work with no setup. Others require you to configure some personal settings before you can use them.

ENABLING APPS ON AN IOS DEVICE

1. Press ***MOBILE APPS*** on the touchscreen.
2. Press ***Mobile Apps Help***.
3. Follow the instructions to pair and connect your device via ***Bluetooth®*** or with a USB cable.

Note: *Some apps can run through* ***Apple CarPlay*** *if it is enabled.*

4. Start the apps on your device that you want to use.

Note: *The app must be open on your device to use it through the touchscreen.*

5. Select the app that you want to use on the touchscreen.

Note: *For troubleshooting assistance press* ***Compatible Apps List*** *under* ***Mobile Apps Help****.*

ENABLING APPS ON AN ANDROID DEVICE

1. Press ***MOBILE APPS*** on the touchscreen.
2. Press ***Mobile Apps Help***.
3. Follow the instructions to pair and connect your device via ***Bluetooth®*** or with a USB cable.

Note: *Some apps can run through* ***Android Auto*** *if it is enabled.*

4. Start the apps on your device that you want to use.

Note: *The app must be open on your device to use it through the touchscreen.*

5. Access the system applications.
6. Select the app that you want to use on the touchscreen.

Note: *Some devices could lose the ability to play music over USB when* ***MOBILE APPS*** *are enabled.*

Note: *For troubleshooting assistance press* ***Compatible Apps List*** *under* ***Mobile Apps Help****.*

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SWITCHING APPLE CARPLAY ON AND OFF

Enabling Apple CarPlay with USB

1. Connect your device to a USB port.
2. Follow the instructions on your device and the touchscreen.

Note: *Selecting "Enable Wireless CarPlay" on your device will prepare the device for wireless carplay when you re-enter the vehicle.*

Enabling Wireless Apple CarPlay

1. Pair your device to ***Bluetooth®***.
2. Follow the instructions on your device and the touchscreen.

Disabling Apple CarPlay

1. Press ***Settings*** on the touchscreen.
2. Press ***Phone List***.
3. Select your device from the list.
4. Press ***Disable***.

Re-Enabling Apple CarPlay

1. Press ***Settings*** on the touchscreen.
2. Press ***Phone List***.
3. Select your device from the list.
4. Press ***Connect to Apple CarPlay***.

SWITCHING ANDROID AUTO ON AND OFF

Enabling Android Auto with USB

1. Connect your device to a USB port.
2. Follow the instructions on the touchscreen.

Note: *Certain features of the system are not available when you are using Android Auto.*

Enabling Wireless Android Auto

1. Pair your device to ***Bluetooth®***.
2. Follow the instructions on your device and the touchscreen.

Note: *Certain Android Devices do not support Android Auto Wireless. Please check your Android OS version for compatibility.*

Disabling Android Auto

1. Press ***Settings*** on the touchscreen.
2. Press ***Phone List***.
3. Select your device from the list.
4. Press ***Disable***.

Re-Enabling Android Auto

1. Press ***Settings*** on the touchscreen.
2. Press ***Phone List***.
3. Select your device from the list.
4. Press ***Connect to Android Auto***.

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ACCESSING NAVIGATION

1. Access Navigation by pressing the map on the left side of the homescreen.

Note: *As the driver, be aware of all local traffic regulations and road attributes, and operate your vehicle in a safe and legal manner.*

NAVIGATION MAP UPDATES

To update your Map data over Wi-Fi, your vehicle must be connected to a Wi-Fi access point. For USB updates and other details, contact dealers at 1-866-462-8837 in the United States and Canada, or 01-800-557-5539 in Mexico.

Note: *If you find map data errors, you may report them by going to www.here.com/mapcreator.*

ADJUSTING THE MAP

ZOOMING THE MAP IN AND OUT

You can use pinch gestures to zoom in and out. Place two fingers on the screen and move them apart to zoom in. Place two fingers on the screen and bring them together to zoom out.

CHANGING THE FORMAT OF THE MAP

Press the map format button on the left side of the map screen to toggle between the available formats.

Note: *Available formats are 2D, 3D and North Up.*

LIVE TRAFFIC

WHAT IS LIVE TRAFFIC

You can observe real-time road congestion when live traffic is on.

SWITCHING LIVE TRAFFIC ON AND OFF

1. Press ***Settings*** on the touchscreen.
2. Press ***Connectivity***.
3. Press ***Connected Vehicle Features***.
4. Switch **Connected Navigation** on or off.

Note: *Switching off this feature disables all features of the* ***Connected Navigation****.*

SETTING A DESTINATION

SETTING A DESTINATION USING THE TEXT ENTRY SCREEN

1. Press Where To? at the top of the screen.
2. Press the search bar at the top of the screen.
3. Enter your destination using the keyboard.
4. Press Search.
5. Select a destination from the list.
6. Press the Go! button to begin navigation.

SETTING A DESTINATION USING THE MAP SCREEN

1. Press on the map to trigger the roaming and viewing screen.
2. Press on the map again to place a pin at that location.

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Note: *Information about the location of the pin appears on the screen.*

3. Press the **Go!** button to begin navigation to the pin.

SETTING A DESTINATION USING A PREDICTIVE DESTINATION

Press the predicted destination card on the screen to navigate to it. These appear when the navigation system has learned your driving habits.

SETTING A DESTINATION USING A RECENT DESTINATION

1. Press Where To? at the top of the screen.
2. Press the Recents tile.
3. Select a destination from the list.

SETTING A DESTINATION USING A SAVED DESTINATION

1. Press Where To? at the top of the screen.
2. Press Saved Places.
3. Select a saved destination.

Note: *Press the star icon next when viewing location details to save the location.*

SETTING A DESTINATION USING A POINT OF INTEREST

1. Press and hold on a point of interest icon on the map.

Note: *Information about the location of the point of interest appears on the screen.*

2. Press the **Go!** button to begin navigation to the point of interest.

WAYPOINTS

ADDING A WAYPOINT

Press the Add Waypoint button when in an active navigation session.

1. Enter your waypoint on the keyboard.
2. Press Search.
3. Select a waypoint from the list.
4. Press Add to Trip.

EDITING WAYPOINTS

1. Press the waypoint you would like to edit.
2. Select an option to reorder or delete the waypoint.

ROUTE GUIDANCE

ADJUSTING THE GUIDANCE PROMPT VOLUME

Turn the volume control when a guidance prompt plays to adjust the volume.

REPEATING AN INSTRUCTION

Press the turn indicator to hear the last voice instruction.

CANCELING ROUTE GUIDANCE

Press the button to cancel route guidance to the selected location.

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TRAILER TOWING NAVIGATION

When you have an active subscription and Trailer Towing Navigation is switched on, the system will calculate the best route for trailer towing by avoiding dangerous road conditions based on the dimensions of your trailer.

Switching Trailer Towing Navigation On and Off

1. Press the **Navigation** button on the feature bar.
2. Press the **Menu** button.
3. Press **Trailer Routing**.
4. Switch **Trailer-optimized Routing** on or off.

Entering Trailer Dimensions

1. Press the **Navigation** button on the feature bar.
2. Press the **Menu** button.
3. Press **Trailer Routing**.
4. Press **Towing Menu**.
5. Press **Add Trailer**.
6. Follow the instructions on the screen to enter the type and dimensions of the trailer into the system.

Navigation Alerts

Alerts will appear on the navigation map while driving. An orange alert triangle indicates you should proceed with caution. When not following active guidance to a destination, a red alert triangle may appear and indicates you should avoid the road and find a detour.

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UPDATING THE VEHICLE SYSTEMS WIRELESSLY

Over-the-Air Updates allow you to update your vehicle system software wirelessly. To make sure you receive all updates, set a recurring schedule and connect to Wi-Fi. See **Connected Vehicle** (page 466). Updates may take longer if not connected to Wi-Fi, or may not download at all. Multiple connections may be required to complete a download.

Enabling Over-the-Air Updates

1. Press ***Settings*** on the touchscreen.
2. Press ***System Updates***.
3. Switch ***Automatic Updates*** on.

Note: *Over-the Air Updates are enabled by default.*

Note: *If you do not want to receive Over-the-Air Updates you can turn them off. You will not be notified of new updates.*

Scheduling an Update

Scheduling an update allows you to set a convenient time for the update to complete. We recommend updating overnight when your vehicle is not in use. Ensure Vehicle Connectivity and Automatic Over-the-Air Updates are enabled. Once you complete these steps, your schedule will be saved for future updates. As long as an update is not in process you can adjust your schedule.

Note: *Some updates may be applied outside of your set schedule. Information about the unscheduled update appears on the touchscreen after it is applied.*

Using the Settings Menu

1. Press ***Settings*** on the touchscreen.
2. Press ***System Updates***.
3. Press ***Schedule Updates***.
4. Use the controls to set the time and day of the update.
5. Save the schedule.

Note: *You can set the updates to occur at any time.*

Using the Status Bar Icon

When an update is available, tap the notification icon and follow the prompts on the screen. Additional Over-the-Air Update icons may appear on the status bar. See **Status Bar** (page 498).

Applying an Over-the-Air Update

You can see the progress of the update on the touchscreen. An update cannot be canceled once it has been started.

During scheduled updates you will not be able to drive your vehicle, start the vehicle, use remote controls to lock and unlock the vehicle. The alarm, central locks, and door tones are disabled. The electronic door lock will not function during an update. You can open the doors using the mechanical latch if child locks are not on. Pull the handle until it stops to use the mechanical latch. Some updates may not allow you to use your vehicle during the update process.

Note: *Some updates can complete in the background, but more complex updates can take up to 45 minutes.*

Note: *Double locking is switched off and central locking is switched on during and after an update.*

Note: *If your vehicle is plugged in, charging will stop during an update and resume when the update is complete.*

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Over-the-Air Update Requirements

If certain requirements are not met during a scheduled update, the update will be postponed. You can update your schedule if you want to retry the update sooner. The requirements for the update are as listed:

- Your vehicle is not running.
- Your vehicle is stopped.
- Your vehicle is parked.
- The hazard indicators are switched off.
- The alarm is not sounding.
- The doors are closed.
- The parking lights are switched off.
- You are not pressing the brake pedal.
- An emergency call is not in progress.
- The Stop Safely lamp is not illuminated. See **Instrument Cluster Warning Lamps** (page 131).

Viewing Update Information

If an update is successful, the touchscreen will provide additional details or statuses about the update. You can also access this information under the System Update tile.

If an update is not successful, follow the prompt that appears on the touchscreen.

PERFORMING A MASTER RESET

1. Press ***Settings*** on the touchscreen.
2. Press ***General***.
3. Press ***Reset***.
4. Press ***Master Reset***.
5. Follow the prompts on the screen to complete the reset.

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For a complete listing of the accessories that are available for your vehicle, please contact your authorized dealer or visit the online store web site:

Web Address (United States)
www.Accessories.Ford.com

Web Address (Canada)
www.Accessories.Ford.ca

We will repair or replace any properly authorized dealer-installed Ford Original Accessory found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessories.

We will warrant your Ford Original Accessory through the warranty that provides the greatest benefit:

- 24 months, unlimited mileage.
- The remainder of your new vehicle limited warranty.

Contact an authorized dealer for details and a copy of the warranty.

Ford Licensed Accessories are the accessory manufacturer's designs. The manufacturer develops and therefore warrants Ford Licensed Accessories, and does not design or test these accessories to Ford Motor Company engineering requirements. Contact an authorized Ford dealer for the manufacturer’s limited warranty details, and request a copy of the Ford Licensed Accessories product limited warranty from the accessory manufacturer.

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Ask an authorized dealer for specific weight information.
- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems that are equipped with radio transmitters, for example two-way radios, telephones and theft alarms. Any such equipment installed in your vehicle should comply with Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulations and should be installed only by an authorized dealer.
- An authorized dealer needs to install mobile communications systems. Improper installation may harm the operation of your vehicle, particularly if the manufacturer did not design the mobile communication system specifically for automotive use.
- If you or an authorized Ford dealer add any non-Ford electrical or electronic accessories or components to your vehicle, you may adversely affect battery performance and durability. In addition, you may also adversely affect the performance of other electrical systems in the vehicle.

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WHAT IS FORD PROTECT

Protect yourself from the rising cost of vehicle repairs with a Ford Protect extended service plan.

Ford Protect Extended Service Plans - United States Only

Ford Protect extended service plans mean peace of mind. Extended service plans are backed by Ford Motor Company, and provide more protection beyond the New Vehicle Limited Warranty coverage. When you visit your Ford Dealer, insist on the Ford Protect extended service plan.

Ford Protect Can Quickly Pay for Itself

One trip to the service center could easily exceed the price of your Ford Protect extended service plan. With the Ford Protect extended service plan, you minimize your risk for unexpected repair bills and rising repair costs.

Up to 1,000+ Covered Vehicle Components

There are four mechanical Ford Protect extended service plans with different levels of coverage. Ask your authorized dealer for details.

1. PremiumCARE - Our most comprehensive coverage. With over 1,000 covered components, this plan is so complete it is probably easier to list what is not covered.
2. ExtraCARE - Covers 113 components, and includes many high-tech items.
3. BaseCARE - Covers 84 components.
4. PowertrainCARE - Covers 29 critical components.

Ford Protect extended service plans are honored by all authorized Ford dealers in the United States, Canada and Mexico.

That means you get:

- Reliable, quality service at any Ford or Lincoln dealership.
- Repairs performed by factory trained technicians, using genuine parts.

Rental Car Reimbursement

First Day Rental Benefit

If you bring your car into your dealer for service, we will give you a rental vehicle to use for the day.

Extended Rental Benefits

If your vehicle is kept overnight for covered repairs, you are eligible for rental car coverage, warranty repairs, and field service actions.

Roadside Assistance

Exclusive 24/7 roadside assistance, including:

- Towing, flat-tire change and battery jump starts.
- Out of fuel and lock-out assistance.
- Travel expense reimbursement for lodging, meals and rental car.
- Assistance for taxi, shuttle, rental car coverage or other transportation.

Transferable Coverage

If you sell your vehicle before your Ford Protect extended service plan coverage expires, you can transfer any remaining coverage to the new owner. This should give you and your potential buyer peace of mind.

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Less Cost to Properly Maintain Your Vehicle

The Ford Protect extended service plan also offers a Premium Maintenance Plan that covers all scheduled maintenance, and selected wear items. The coverage is prepaid, so you never have to worry about the cost of your vehicle's maintenance.

Covered maintenance includes:

- Windshield wiper blades.
- Spark plugs.
- The clutch disc (if equipped).
- Brake pads and linings.
- Shock absorbers.
- Struts.
- Engine belts.
- Engine coolant hoses, clamps and o-rings.
- Diesel exhaust fluid replenishment (if equipped).
- Cabin air filter replacement every 20,000 mi (32,000 km) for electric vehicles only.

Interest Free Finance Options

Just a 5% down payment provides you with an affordable, no interest, no fee payment program allowing you all the security and benefits Ford Protect extended service plan has to offer while paying over time. You are pre-approved with no credit check or hassles. To learn more, call our Ford Protect extended service plan specialists at 800-367-3377.

Ford Protect Extended Service Plan
P.O. Box 321067
Detroit, MI 48232

Ford Protect Extended Service Plan (Canada Only)

You can get more protection for your vehicle by purchasing a Ford Protect extended service plan. Ford Protect extended service plan is the only service contract backed by Ford Motor Company of Canada, Limited. Depending on the plan you purchase, Ford Protect extended service plan provides benefits such as:

- Rental reimbursement.
- Coverage for certain maintenance and wear items.
- Protection against repair costs after your New Vehicle Limited Warranty Coverage expires.
- Roadside Assistance benefits.

There are several Ford Protect extended service plans available in various time, distance and deductible combinations. Each plan is tailored to fit your own driving needs, including reimbursement for towing and rental. When you purchase Ford Protect extended service plan, you receive added peace-of-mind protection throughout Canada, the United States and Mexico, provided by a network of participating authorized Ford Motor Company dealers.

Note: *Repairs performed outside of Canada and the United States are not eligible for Ford Protect extended service plan coverage.*

This information is subject to change. Visit your local Ford of Canada dealer or www.ford.ca to find the Ford Protect extended service plan that is right for you.

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GENERAL MAINTENANCE INFORMATION - 3.5L DURATEC/3.5L ECOBOOST™

Why Maintain Your Vehicle?

Carefully following the maintenance schedule helps protect against major repair expenses resulting from neglect or inadequate maintenance and may help to increase the value of your vehicle when you sell or trade it. Keep all receipts for completed maintenance with your vehicle.

We have established regular maintenance intervals for your vehicle based upon rigorous testing. It is important that you have your vehicle serviced at the correct times. These intervals serve two purposes; one is to maintain the reliability of your vehicle and the second is to keep the cost of owning your vehicle down.

It is your responsibility to have all scheduled maintenance performed and to make sure that the materials used meet the specifications identified in this owner's manual. See **Capacities and Specifications** (page 449).

Failure to perform scheduled maintenance invalidates warranty coverage on parts affected by the lack of maintenance.

Why Maintain Your Vehicle at Your Dealership?

Factory-trained Technicians

Service technicians participate in extensive factory-sponsored certification training to help them become experts on the operation of your vehicle. Ask your dealership about the training and certification their technicians have received.

Genuine Ford and Motorcraft Replacement Parts

Dealerships stock Ford, Motorcraft and Ford-authorized branded re-manufactured replacement parts. These parts meet or exceed our specifications. Parts installed at your dealership carry a nationwide 12-month or 12,000 mi (20,000 km) parts and labor limited warranty.

If you do not use Ford authorized parts they may not meet our specifications and depending on the part, it could affect emissions compliance.

Convenience

Many dealerships have extended evening and Saturday hours to make your service visit more convenient and they offer one stop shopping. They can perform any services that are required on your vehicle, from general maintenance to crash repairs.

Note: *Not all dealers have extended hours or body shops. Please contact your dealer for details.*

Protecting Your Investment

Maintenance is an investment that pays dividends in the form of improved reliability, durability and resale value. To maintain the correct performance of your vehicle and its emission control systems, make sure you have scheduled maintenance performed at the designated intervals.

Your vehicle is equipped with the Intelligent Oil-Life Monitor system, which displays a message in the information display at the correct oil change interval. This interval may be up to one year or 10,000 mi (16,000 km).

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When the oil change message appears in the information display, it is time for an oil change. Make sure you perform the oil change within two weeks or 500 miles (800 kilometers) of the message appearing. Make sure you reset the Intelligent Oil-Life Monitor after each oil change. See **Resetting the Engine Oil Change Reminder** (page 379).

If your information display resets prematurely or becomes inoperative, you should perform the oil change interval at six months or 5,000 mi (8,000 km) from your last oil change. Never exceed one year or 10,000 mi (16,000 km) between oil change intervals.

Your vehicle is very sophisticated and built with multiple, complex, performance systems. Every manufacturer develops these systems using different specifications and performance features. That is why it is important to rely upon your dealership to correctly diagnose and repair your vehicle.

Ford Motor Company has recommended maintenance intervals for various parts and component systems based upon engineering testing. Ford Motor Company relies upon this testing to determine the most appropriate mileage for replacement of oils and fluids to protect your vehicle at the lowest overall cost to you and recommends against maintenance schedules that deviate from the scheduled maintenance information.

We strongly recommend the use of only genuine Ford, Motorcraft or Ford-authorized re-manufactured replacement parts engineered for your vehicle.

Additives and Chemicals

This owner's manual and the Ford Workshop Manual list the recommended additives and chemicals for your vehicle. We do not recommend using chemicals or additives not approved by us as part of your vehicle's normal maintenance. Please consult your warranty information.

Oils, Fluids and Flushing

In many cases, fluid discoloration is a normal operating characteristic and, by itself, does not necessarily indicate a concern or that the fluid needs to be changed. However, a qualified expert, such as the factory-trained technicians at your dealership, should inspect discolored fluids that also show signs of overheating or foreign material contamination immediately.

Make sure to change your vehicle's oils and fluids at the specified intervals or in conjunction with a repair. Flushing is a viable way to change fluid for many vehicle sub-systems during scheduled maintenance. It is critical that systems are flushed only with new fluid that is the same as that required to fill and operate the system or using a Ford-approved flushing chemical.

Owner Checks and Services

Make sure you perform the following basic maintenance checks and inspections every month or at six-month intervals.

Check every month
Engine oil level.
Function of all interior and exterior lights.
Tires (including spare) for wear and correct pressure.
Windshield washer fluid level.

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Check every six months
Battery connections. Clean if necessary.
Body and door drain holes for obstructions. Clean if necessary.
Cooling system fluid level and coolant strength.
Door weatherstrips for wear. Lubricate if necessary.
Front door check arms for correct operation.
Hinges, latches and outside locks for correct operation. Lubricate if necessary.
Parking brake for correct operation.
Seatbelts and seat latches for wear and function.
Safety warning lamps (brake, ABS, airbag and seatbelt) for operation.
Washer spray and wiper operation. Clean or replace blades as necessary.

Multi-point Inspection

In order to keep your vehicle running correctly, it is important to have the systems on your vehicle checked regularly. This can help identify potential issues and prevent major problems. We recommend having the following multi-point inspection performed at every scheduled maintenance interval to help make sure your vehicle keeps running correctly.

Multi-point inspection
Accessory drive belt(s).
Battery performance.
Engine air filter.
Exhaust system.
Exterior lamps and hazard warning system operation.
Fluid levels*; fill if necessary.
For oil and fluid leaks.
Horn operation.
Radiator, cooler, heater and A/C hoses.
Suspension component for leaks or damage.
Steering and linkage.
Tires (including spare) for wear and correct pressure** .
Windshield for cracks, chips or pits.
Washer spray and wiper operation.

* Brake, coolant recovery reservoir, automatic transmission, power steering (if equipped with hydraulic power assist steering) and window washer.

**If your vehicle is equipped with a temporary mobility kit, check the tire sealant expiration Use By date on the canister. Replace as needed.

Be sure to ask your dealership service advisor or technician about the multi-point vehicle inspection. It is a comprehensive way to perform a thorough inspection of your vehicle. Your checklist gives you immediate feedback on the overall condition of your vehicle.

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GENERAL MAINTENANCE INFORMATION - ELECTRIC MOTOR

Why Maintain Your Vehicle?

Carefully following the maintenance schedule helps protect against major repair expenses resulting from neglect or inadequate maintenance and may help to increase the value of your vehicle when you sell or trade it. Keep all receipts for completed maintenance with your vehicle.

It is important that you have your vehicle serviced at the proper times. These intervals serve two purposes; first is to maintain the reliability of your vehicle and the second is to keep the cost of owning your vehicle down.

It is your responsibility to have all scheduled maintenance performed and to make sure that the materials used meet the specifications identified in this owner's manual. See **Capacities and Specifications** (page 449).

Failure to perform scheduled maintenance and regularly inspect your vehicle may result in vehicle damage not covered by the vehicle Warranty.

Why Maintain Your Vehicle at Your Dealership?

Our Genuine Replacement Parts

Dealerships stock our parts and our authorized branded re-manufactured replacement parts. These parts meet or exceed our specifications. Parts installed at your dealership carry a nationwide 24-month or unlimited mile (kilometer) parts and labor limited warranty.

If you do not use our authorized parts they may not meet our specifications.

Protecting Your Investment

Maintenance is an investment that pays dividends in the form of improved reliability, durability and resale value. To maintain the proper performance of your vehicle, make sure you have scheduled maintenance performed at the designated intervals.

It is important to rely upon your dealership to properly diagnose and repair your vehicle.

We have recommended maintenance intervals for various parts and component systems based upon engineering testing. We rely upon this testing to determine the most appropriate mileage for replacement of fluids to protect your vehicle at the lowest overall cost to you and recommends against maintenance schedules that deviate from the scheduled maintenance information.

We strongly recommend the use of only our genuine manufactured or our authorized re-manufactured replacement parts engineered for your vehicle.

Additives and Chemicals

We do not recommend using chemicals or additives not approved by us as part of your vehicle’s normal maintenance. Please consult your warranty information.

Fluids and Flushing

In many cases, fluid discoloration is a normal operating characteristic and, by itself, does not necessarily indicate a concern or that the fluid needs to be changed. However, a qualified expert, such as the factory-trained technicians at your dealership, should inspect discolored fluids that also show signs of overheating or foreign material contamination immediately.

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Make sure to change your vehicle's fluids at the specified intervals or in conjunction with a repair. Flushing is a viable way to change fluid for many vehicle sub-systems during scheduled maintenance. It is critical that systems are flushed only with new fluid that is the same as that required to fill and operate the system or using our approved flushing chemical.

Owner Checks and Services

Make sure you perform the following basic maintenance checks and inspections every month or at six-month intervals.

Check Every Month
Function of all interior and exterior lights.
Tires (including spare) for wear and proper pressure.
Windshield washer fluid level.

Check Every Six Months
12V Battery connections. Clean if necessary.
Body and door drain holes for obstructions. Clean if necessary.
Cooling system fluid level and coolant strength.
Door weatherstrips for wear. Lubricate if necessary.
Hinges, latches and outside locks for proper operation. Lubricate if necessary.
Parking brake for proper operation.
Safety belts and seat latches for wear and function.
Safety warning lamps (brake, ABS, airbag and safety belt) for operation.
Washer spray and wiper operation. Clean or replace blades as necessary.

Multi-point Inspection

In order to keep your vehicle running right, it is important to have the systems on your vehicle checked regularly. This can help identify potential issues and prevent major problems. We recommend having the following multi-point inspection performed at every scheduled maintenance interval to help make sure your vehicle keeps running great.

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Multi-Point Inspection	
12V Battery performance	Radiator, cooler, heater and air conditioning hoses
Exterior lamps and hazard warning system operation	Suspension components for leaks or damage
Fluid levels; fill if necessary[1]	Steering and linkage
For fluid leaks	Tires for wear and proper pressure [2]
Half-shaft dust boots	Windshield for cracks, chips or pits
Horn operation	Washer spray and wiper operation

[1] Brake, coolant recovery reservoir and window washer.

[2] Your vehicle is equipped with a temporary mobility kit; check the tire sealant expiration Use By date on the canister. Replace as needed.

Be sure to ask your dealership service advisor or technician about the multi-point vehicle inspection. It is a comprehensive way to perform a thorough inspection of your vehicle. Your checklist gives you immediate feedback on the overall condition of your vehicle.

NORMAL SCHEDULED MAINTENANCE - 3.5L DURATEC/3.5L ECOBOOST™

Intelligent Oil-Life Monitor™

Your vehicle is equipped with an Intelligent Oil-Life Monitor that determines when you should change the engine oil based on how your vehicle is used. By using several important factors in its calculations, the monitor helps reduce the cost of owning your vehicle and reduces environmental waste at the same time.

The following table provides examples of vehicle use and its impact on oil change intervals. It is a guideline only. Actual oil change intervals depend on several factors and generally decrease with severity of use.

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When to expect the oil change message	
Interval	**Vehicle use and example**
7,500–10,000 mi (12,000–16,000 km)	**Normal**
	Normal commuting with highway driving. No, or moderate, load or towing. Flat to moderately hilly roads. No extended idling.
5,000–7,500 mi (8,000–12,000 km)	**Severe**
	Moderate to heavy load or towing. Mountainous or off-road conditions. Extended idling. Extended hot or cold operation.
3,000–5,000 mi (4,800–8,000 km)	**Extreme**
	Maximum load or towing. Extreme hot or cold operation.

Normal Maintenance Intervals

At every oil change interval as indicated by the information display[1]
Change engine oil and filter.**
Rotate tires, inspect tire wear and measure tread depth.
Perform a multi-point inspection (recommended).
Inspect the automatic transmission fluid level (if equipped with dipstick). Consult your dealer for requirements.
Inspect the brake pads, shoes, rotors, drums, brake linings, hoses and parking brake.
Inspect the engine cooling system strength and hoses.
Inspect the exhaust system and heat shields.
Inspect front axle and U-joints. Lubricate if equipped with grease fittings.

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At every oil change interval as indicated by the information display[1]
Inspect the steering linkage, ball joints, suspension, tire-rod ends, driveshaft and U-joints. Lubricate any areas with grease fittings.
Inspect the wheels and related components for abnormal noise, wear, looseness or drag.

[1] Do not exceed one year or 10,000 mi (16,000 km) between service intervals.

[**] Reset the Intelligent Oil-Life Monitor after engine oil and filter changes.

Brake fluid maintenance[1]	
Every 3 years	Change the brake fluid.[2]

[1] Perform this maintenance item every 3 years. Do not exceed the designated time for the interval.

[2] Brake fluid servicing requires special equipment available at your authorized dealer.

Other maintenance items[1]	
Every 20,000 mi (32,000 km)	Replace cabin air filter.
Every 30,000 mi (48,000 km)	Torque rear axle U-bolts to specification.
	Replace engine air filter.
At 200,000 mi (320,000 km)	Change engine coolant.[2]
Every 100,000 mi (160,000 km)	Replace spark plugs.
	Inspect accessory drive belt(s).[3]
Every 150,000 mi (240,000 km)	Change automatic transmission fluid and filter.
	Change front axle fluid.
	Change rear axle fluid.

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Other maintenance items[1]	
	Change the transfer case fluid.[4]
	Replace accessory drive belt(s).

[1] Perform these maintenance items within 3,000 mi (4,800 km) of the last engine oil and filter change. Do not exceed the designated distance for the interval.

[2] Initial replacement at ten years or 200,000 mi (320,000 km), then every five years or 100,000 mi (160,000 km).

[3] After initial inspection, inspect every other oil change until replaced.

[4] Four-wheel drive only.

NORMAL SCHEDULED MAINTENANCE - ELECTRIC MOTOR

Normal Scheduled Maintenance[1]	
Every 12 months or 10,000 mi (16,000 km).	Rotate tires, inspect tire wear and measure tread depth.
	Perform multi-point inspection (recommended).
	Inspect brake pads, shoes, rotors, drums, brake linings, hoses and parking brake.
	Inspect cooling system level, strength and hoses.
	Inspect half-shaft boots.
	Inspect steering linkage, ball joints, suspension and tie-rod ends.
	Inspect wheels and related components for abnormal noise, wear, looseness or drag.

[1] Do not exceed one year or 10,000 mi (16,000 km) between service intervals.

Brake Fluid Maintenance[1]	
Every 3 Years	Change brake fluid.[2]

[1] Perform this maintenance item every 3 years. Do not exceed the designated time for the interval.

[2] Brake fluid servicing requires special equipment available at your authorized dealer.

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Other Maintenance Items	
Every 20,000 mi (32,000 km)	Replace cabin air filter.[1]
At 10 years or 150,000 mi (240,000 km)	Change the transmission fluid.
At 200,000 mi (322,000 km)	Change the coolant.[2]

[1] Cabin air filter life is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the cabin air filter.

[2] Initial replacement at 10 years or 200,000 mi (322,000 km), then every 5 years or 100,000 mi (160,000 km).

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SPECIAL OPERATING CONDITIONS SCHEDULED MAINTENANCE

If you operate your vehicle **primarily** in any of the following conditions, you need to perform extra maintenance as indicated. If you operate your vehicle **occasionally** under any of these conditions, it is not necessary to perform the extra maintenance. For specific recommendations, see your dealership service advisor or technician.

Perform the services shown in the following tables when specified or within 3000 miles (4800 kilometers) of the oil change required message appearing in the information display.

- **Example 1**: The message appears at 28,750 mi (46,270 km). Perform the 30,000 mi (48,000 km) automatic transmission fluid replacement.
- **Example 2**: The message does not appear, but the odometer reads 30,000 mi (48,000 km) (for example, the Intelligent Oil-Life Monitor was reset at 25,000 mi (40,000 km)). Perform the engine air filter replacement.

Towing a trailer or using a car-top carrier	
As required	Change engine oil and filter as indicated by the information display and perform services listed in the Normal Scheduled Maintenance chart.
Inspect frequently, service as required	Inspect and lubricate U-joints.
	See axle maintenance items under **Exceptions**.
Every 60000 miles (96000 km)	Replace spark plugs.

Extensive idling or low-speed driving for long distances, as in heavy commercial use (such as delivery, taxi, patrol car or livery)	
As required	Change engine oil and filter as indicated by the information display and perform services listed in the Normal Scheduled Maintenance chart.
Inspect frequently, service as required	Replace engine air filter.
Every 60000 miles (96000 km)	Replace spark plugs.

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Operating in dusty or sandy conditions (such as unpaved or dusty roads)	
Inspect frequently, service as required	Replace engine air filter.
Every 5000 miles (8000 km)	Inspect the wheels and related components for abnormal noise, wear, looseness or drag.
	Rotate tires, inspect tires for wear and measure tread depth.
Every 5000 miles (8000 km) or six months	Change engine oil and filter.*

*Reset your Intelligent Oil-Life Monitor after each engine oil and filter change.

Off-road operation	
Inspect frequently, service as required	Inspect steering linkage, ball joints and U-joints. Lubricate if equipped with grease fittings.
	Replace engine air filter.
Every 5000 miles (8000 km) or six months	Change engine oil and filter.*
	Inspect the wheels and related components for abnormal noise, wear, looseness or drag.
	Rotate tires, inspect tires for wear and measure tread depth.

*Reset your Intelligent Oil-Life Monitor after each engine oil and filter change.

Exclusive use of E85 (Flex fuel vehicles only)	
Every oil change interval	If ran exclusively on E85, fill the fuel tank full with regular unleaded fuel.

Exceptions

There are several exceptions to the Normal Schedule:

Axle and Transfer Case Maintenance

Axle(s) and transfer case (Four-wheel drive vehicles) fluid changes or level checks are not required unless a leak is suspected or the assembly has been submerged in water. Contact an authorized dealer for service.

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California fuel filter replacement

If you register your vehicle in California, the California Air Resources Board has determined that the failure to perform this maintenance item does not nullify the emission warranty or limit recall liability before the completion of your vehicle's useful life. Ford Motor Company, however, urges you to have all recommended maintenance services performed at the specified intervals and to record all vehicle service.

Hot climate oil change intervals

Vehicles operating in the Middle East, North Africa, Sub-Saharan Africa or locations with similar climates using an American Petroleum Institute (API) Certified for Gasoline Engines (Certification mark) oil of SM or SN quality, the normal oil change interval is 5,000 mi (8,000 km).

If the available API SM or SN oils are not available, then the oil change interval is 3,000 mi (4,800 km).

Engine air filter replacement

The life of the engine air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter.

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ROLLOVER WARNING

WARNING: Utility vehicles have a significantly higher rollover rate than other types of vehicles.

WARNING: Vehicles with a higher center of gravity (utility and four-wheel drive vehicles) handle differently than vehicles with a lower center of gravity (passenger cars). Avoid sharp turns, excessive speed and abrupt steering in these vehicles. Failure to drive cautiously increases the risk of losing control of your vehicle, vehicle rollover, personal injury and death.

WARNING: In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seatbelt.

WARNING: Do not become overconfident in the ability of four-wheel drive vehicles. Although a four-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in low traction situations, it won't stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

Utility vehicles and trucks handle differently than passenger cars in the various driving conditions that are encountered on streets, highways and off-road. Utility vehicles and trucks are not designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions.

THE BETTER BUSINESS BUREAU AUTO LINE PROGRAM

Your satisfaction is important to Ford Motor Company and to your dealer. If a warranty concern has not been resolved using the three-step procedure outlined earlier in this chapter in the Getting the Services you need section, you may be eligible to participate in the BBB AUTO LINE program.

The BBB AUTO LINE program consists of two parts – mediation and arbitration. During mediation, a representative of the BBB will contact both you and Ford Motor Company to explore options for settlement of the claim. If an agreement is not reached during mediation or you do not want to participate in mediation, and if your claim is eligible, you may participate in the arbitration process. An arbitration hearing will be scheduled so that you can present your case in an informal setting before an impartial person. The arbitrator considers the testimony provided and makes a decision after the hearing.

Disputes submitted to the BBB AUTO LINE program are usually decided within 40 days after you file your claim with the BBB. You are not bound by the decision, and may reject the decision and proceed to court where all findings of the BBB Auto Line dispute, and decision, are admissible in the court action. Should you choose to accept the BBB AUTO LINE decision, Ford is then bound by the decision, and must comply with the decision within 30 days of receipt of your acceptance letter.

BBB AUTO LINE Application: Using the information that follows, please call or write to request a program application. You will be asked for your name and address, general information about your new vehicle, information about your warranty concerns, and any steps you have

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already taken to try to resolve them. A Customer Claim Form will be mailed that needs to be completed, signed and returned to the BBB along with proof of ownership. Upon receipt, the BBB reviews the claim for eligibility under the Program Summary Guidelines.

You can get more information by calling BBB AUTO LINE at 1-800-955-5100, or writing to:

**BBB AUTO LINE a Division of BBB National Programs, Inc.
1676 International Drive, Suite 550
McLean, VA 22102**

BBB AUTO LINE applications can also be requested by calling the Ford Motor Company Customer Relationship Center at 1-800-392-3673.

For additional information, refer to the Better Business Bureau website.

Note: *Ford Motor Company reserves the right to change eligibility limitations, modify procedures, or to discontinue this process at any time without notice and without obligation.*

THE MEDIATION AND ARBITRATION PROGRAM

For vehicles delivered to authorized Canadian dealers. In those cases where you continue to feel that the efforts by Ford of Canada and the authorized dealer to resolve a factory-related vehicle service concern have been unsatisfactory, Ford of Canada participates in an impartial third party mediation/arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The CAMVAP program is a straightforward and relatively speedy alternative to resolve a disagreement when all other efforts to produce a settlement have failed. This procedure is without cost to you and is designed to eliminate the need for lengthy and expensive legal proceedings.

In the CAMVAP program, impartial third-party arbitrators conduct hearings at mutually convenient times and places in an informal environment. These impartial arbitrators review the positions of the parties, make decisions and, when appropriate, render awards to resolve disputes. CAMVAP decisions are fast, fair, and final as the arbitrator's award is binding on both you and Ford of Canada.

CAMVAP services are available in all Canadian territories and provinces. For more information, without charge or obligation, call your CAMVAP Provincial Administrator directly at 1-800-207-0685 or visit www.camvap.ca.

ORDERING A CANADIAN FRENCH OWNER'S MANUAL

You can obtain a French owner's manual from an authorized dealer or by contacting Helm, LLC at:

HELM, LLC
47911 Halyard Drive, Suite 200
Plymouth, Michigan 48170
Attention: Customer Service

Call toll free: 1-800-782-4356

Monday-Friday 8:00 a.m. - 6:00 p.m. EST

For additional information, visit www.helminc.com.

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REPORTING SAFETY DEFECTS IN THE UNITED STATES

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Ford Motor Company.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ford Motor Company.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to www.safercar.gov; or write to:

Administrator

1200 New Jersey Avenue, Southeast

Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from www.safercar.gov.

REPORTING SAFETY DEFECTS IN CANADA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada and Ford of Canada.

Transport Canada Contact Information	
Website (English)	http://tc.canada.ca/recalls
Website (French)	http://tc.canada.ca/rappels
Phone	1-800-333-0510

Ford of Canada Contact Information	
Website	www.ford.ca
Phone	1-800-565-3673

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THIRD PARTY SOFTWARE COPYRIGHT ACKNOWLEDGMENT

Your vehicle could have components that use open source software. For additional information, visit *http://corporate.ford.com/ford-open-source.html*.

TYPE APPROVALS

Radio Frequency Certification Labels for Audio Unit

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 3043A-AHUCHRFORD

FCC ID: NT8-AHUCHRFORD

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RCPFORA17-1142

United Arab Emirates

TRA
REGISTERED No.:
ER57265/17

DEALER No.:
DA0089862/12

Radio Frequency Certification Labels for Blind Spot Information System Sensors

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 4135A-SRR3B

FCC ID: OAYSRR3B

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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Mexico

IFETEL: RLVCOSR15-0904

United Arab Emirates

TRA
REGISTERED No:
ER62934

DEALER No:
DA40068

TRA
REGISTERED No. ER39534/15
DEALER No.: DA37380/15

Radio Frequency Certification Labels for Body Control Module

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 7812A - A2C766336

FCC ID: M3NA2C766336

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RTIFOFB20-1756

United Arab Emirates

TRA
REGISTERED No: ER68566/19
DEALER No: DA37380/15

Radio Frequency Certification Labels for Cruise Control Module

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 3432A-0065TR

FCC ID: L2C0065TR

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RLVDEL217-0751

United Arab Emirates

TRA

REGISTERED NO. ER54071/17

DEALER NO.: DA37380/15

Radio Frequency Certification Labels for Keys and Remote Controls

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 3248A-A08TAA

IC: 7812A-A3C054338

FCC ID: N5F-A08TAA

FCC ID: M3N-A3C054338

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

CFT: RLVVAA012-0480

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United Arab Emirates

TRA
REGISTERED No:
ER49357/16
DEALER No:
DA37380/15

TRA
REGISTERED No: ER81340/20
DEALER No.: DA88113/20

Radio Frequency Certification Labels for Passive Anti-Theft System

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 7812D-A2C95937800

FCC ID: KR5A2C95937800

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RLVCOA219-2103

United Arab Emirates

TRA
REGISTERED No.:
ER63544/18

DEALER No.:
DA37380/15

Radio Frequency Certification Labels for Radio Transceiver Module

Mexico

IFT: RLVAPFO20-1304

United Arab Emirates

TRA
REGISTERED No:
ER81341/20

DEALER No:
DA88113/20

United States of America

FCC ID: L2C0082R

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.

Radio Frequency Certification Labels for SYNC

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 216B-FG185SG32MH

IC: 1422A-SYNCG4L

FCC ID: ACJ-FG-185-SG32MH

FCC ID: KMH-SYNCG4L

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RCPPAFA16-2032-A1

United Arab Emirates

TRA
Registered No.:
ER61783/18
Dealer No.:
DA49564/16

UAE - TRA
REGISTERED No:
ER74902/19
DEALER No:
DA37380/15

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Radio Frequency Certification Labels for Telematics Control Unit

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 1422A-14H074NA1

FCC ID: KMH-14H074-NA1

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RTIFOFB20-1756

United Arab Emirates

TRA
REGISTERED No:
ER87741/20
DEALER No:
DA83047/19

Radio Frequency Certification Labels for Tire Pressure Monitoring System Sensors

Canada and United States of America

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

IC: 2546A-AG2SZ4

FCC ID: MRXAG2SZ4

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Mexico

IFT: RLVSCMR15-1238

United Arab Emirates

TRA
REGISTERED No.:
ER0130238/14

DEALER No.:
DA0047074/10

PERCHLORATE

Certain components in your vehicle such as airbag modules, seatbelt pretensioners and remote control batteries may contain perchlorate material. Special handling may apply for service or vehicle end of life disposal.

For more information visit: www.dtsc.ca.gov/hazardouswaste/perchlorate.

REPLACEMENT PARTS RECOMMENDATION

We have built your vehicle to the highest standards using quality parts. We recommend that you demand the use of genuine Ford and Motorcraft parts whenever your vehicle requires scheduled maintenance or repair. You can clearly identify genuine Ford and Motorcraft parts by looking for the Ford, FoMoCo or Motorcraft branding on the parts or their packaging.

Scheduled Maintenance and Mechanical Repairs

One of the best ways for you to make sure that your vehicle provides years of service is to have it maintained in line with our recommendations using parts that conform to the specifications detailed in this Owner's Manual.

Genuine Ford and Motorcraft parts meet or exceed these specifications.

Collision Repairs

We hope that you never experience a collision, but accidents happen sometimes.

Genuine Ford replacement collision parts meet our stringent requirements for fit, finish, structural integrity, corrosion protection and dent resistance. During vehicle development we validate that these parts deliver the intended level of protection as a whole system. A great way to know for sure you are getting this level of protection is to use genuine Ford replacement collision parts.

Warranty on Replacement Parts

Genuine Ford and Motorcraft replacement parts are the only replacement parts that benefit from a Ford Warranty.

The Ford Warranty may not cover damage caused to your vehicle as a result of failed non-Ford parts.

For additional information, refer to the terms and conditions of the Ford Warranty.

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MOBILE COMMUNICATIONS EQUIPMENT

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Using mobile communications equipment is becoming increasingly important in the conduct of business and personal affairs. However, you must not compromise your own or others' safety when using such equipment. Mobile communications can enhance personal safety and security when appropriately used, particularly in emergency situations. Safety must be paramount when using mobile communications equipment to avoid negating these benefits. Mobile communication equipment includes, but is not limited to, cellular phones, pagers, portable email devices, text messaging devices and portable two-way radios.

END USER LICENSE AGREEMENT

VEHICLE SOFTWARE END USER LICENSE AGREEMENT (EULA) (If Equipped)

- You ("You" or "Your" as applicable) have acquired a vehicle having several devices, including SYNC ® and various control modules, ("DEVICES") that include software licensed or owned by Ford Motor Company and its affiliates ("FORD MOTOR COMPANY"). Those software products of FORD MOTOR COMPANY origin, as well as associated media, printed materials, and "online" or electronic documentation ("SOFTWARE") are protected by international intellectual property laws and treaties. The SOFTWARE is licensed, not sold. All rights reserved.
- The SOFTWARE may interface with and/or communicate with, or may be later upgraded to interface with and/or communicate with additional software and/or systems provided by FORD MOTOR COMPANY.

IF YOU DO NOT AGREE TO THIS END USER LICENSE AGREEMENT ("EULA") DO NOT USE THE DEVICES OR COPY THE SOFTWARE. ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DEVICES, WILL CONSTITUTE YOUR AGREEMENT TO THIS EULA (OR RATIFICATION OF ANY PREVIOUS CONSENT).

GRANT OF SOFTWARE LICENSE: This EULA grants you the following license:

- You may use the SOFTWARE as installed on the DEVICES and as otherwise interfacing with systems and/or services provide by or through FORD MOTOR COMPANY or its third party software and service providers.

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Description of Other Rights and Limitations.

- **Speech Recognition:** If the SOFTWARE includes speech recognition component(s), you should understand that speech recognition is an inherently statistical process and that recognition errors are inherent in the process. Neither FORD MOTOR COMPANY nor its suppliers shall be liable for any damages arising out of errors in the speech recognition process. It is your responsibility to monitor any speech recognition functions included in the system.
- **Limitations on Reverse Engineering, Decompilation and Disassembly:** You may not reverse engineer, decompile, translate, disassemble or attempt to discover any source code or underlying ideas or algorithms of the SOFTWARE nor permit others to reverse engineer, decompile or disassemble the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation or to the extent as may be permitted by the licensing terms governing use of any open source components included with the SOFTWARE.
- **Limitations on Distributing, Copying, Modifying and Creating Derivative Works:** You may not distribute, copy, make modifications to or create derivative works based on the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation or to the extent as may be permitted by the licensing terms governing use of any open source components included with the SOFTWARE.
- **Single EULA:** The end user documentation for the DEVICES and related systems and services may contain multiple EULAs, such as multiple translations and/or multiple media versions (e.g., in the user documentation and in the software). Even if you receive multiple EULAs, you are licensed to use only one (1) copy of the SOFTWARE.
- **SOFTWARE Transfer:** You may permanently transfer your rights under this EULA only as part of a sale or transfer of the DEVICES, provided you retain no copies, you transfer all of the SOFTWARE (including all component parts, the media and printed materials, any upgrades, and, if applicable, the Certificate(s) of Authenticity), and the recipient agrees to the terms of this EULA. If the SOFTWARE is an upgrade, any transfer must include all prior versions of the SOFTWARE.
- **Termination:** Without prejudice to any other rights, FORD MOTOR COMPANY may terminate this EULA if you fail to comply with the terms and conditions of this EULA.
- **Internet-Based Services Components:** The SOFTWARE may contain components that enable and facilitate the use of certain Internet-based services. You acknowledge and agree that FORD MOTOR COMPANY, third party software and service suppliers, its affiliates and/or its designated agent may automatically check the version of the SOFTWARE and/or its components that you are utilizing and may provide upgrades or supplements to the SOFTWARE that may be automatically downloaded to your DEVICES.

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- **Additional Software/Services:** The SOFTWARE may permit FORD MOTOR COMPANY, third party software and service suppliers, its affiliates and/or its designated agent to provide or make available to you SOFTWARE updates, supplements, add-on components, or Internet-based services components of the SOFTWARE after the date you obtain your initial copy of the SOFTWARE ("Supplemental Components".) SOFTWARE updates may cause you to incur additional charges from your wireless service provider. If FORD MOTOR COMPANY or third party software and services suppliers provide or make available to you Supplemental Components and no other EULA terms are provided along with the Supplemental Components, then the terms of this EULA shall apply. FORD MOTOR COMPANY, its affiliates and/or its designated agent reserve the right to discontinue without liability any Internet-based services provided to you or made available to you through the use of the SOFTWARE.
- **Links to Third Party Sites:** The SOFTWARE may provide you with the ability to link to third party sites. The third party sites are not under the control of FORD MOTOR COMPANY, its affiliates and/or its designated agent. Neither FORD MOTOR COMPANY nor its affiliates nor its designated agent are responsible for (I) the contents of any third party sites, any links contained in third party sites, or any changes or updates to third party sites, or (ii) webcasting or any other form of transmission received from any third party sites. If the SOFTWARE provides links to third party sites, those links are provided to you only as a convenience, and the inclusion of any link does not imply an endorsement of the third party site by FORD MOTOR COMPANY, its affiliates and/or its designated agent.
- **Obligation to Drive Responsibly:** You recognize your obligation to drive responsibly and keep attention on the road. You will read and abide with the DEVICES operating instructions particularly as they pertain to safety and you agree to assume any risk associated with the use of the DEVICES.

UPGRADES AND RECOVERY MEDIA: If the SOFTWARE is provided by FORD MOTOR COMPANY separate from the DEVICES on media such as a ROM chip, CD ROM disk(s) or via web download or other means, and is labeled "For Upgrade Purposes Only" or "For Recovery Purposes Only" you may install one (1) copy of such SOFTWARE onto the DEVICES as a replacement copy for the existing SOFTWARE, and use it in accordance with this EULA, including any additional EULA terms accompanying the upgrade SOFTWARE.

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INTELLECTUAL PROPERTY RIGHTS: All title and intellectual property rights in and to the SOFTWARE (including but not limited to any images, photographs, animations, video, audio, music, text and "applets" incorporated into the SOFTWARE), the accompanying printed materials, and any copies of the SOFTWARE, are owned by FORD MOTOR COMPANY, or its affiliates or suppliers. The SOFTWARE is licensed, not sold. You may not copy the printed materials accompanying the SOFTWARE. All title and intellectual property rights in and to the content which may be accessed through use of the SOFTWARE is the property of the respective content owner and may be protected by applicable copyright or other intellectual property laws and treaties. This EULA grants you no rights to use such content outside its intended use. All rights not specifically granted under this EULA are reserved by FORD MOTOR COMPANY, its affiliates, and third party software and service providers and suppliers. Use of any on-line services which may be accessed through the SOFTWARE may be governed by the respective terms of use relating to such services. If this SOFTWARE contains documentation that is provided only in electronic form, you may print one copy of such electronic documentation.

EXPORT RESTRICTIONS: You acknowledge that the SOFTWARE is subject to U.S. and European Union export jurisdiction. You agree to comply with all applicable international and national laws that apply to the SOFTWARE, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and other governments.

TRADEMARKS: This EULA does not grant you any rights in connection with any trademarks or service marks of FORD MOTOR COMPANY, its affiliates, and third party software and service providers.

PRODUCT SUPPORT: Please refer to FORD MOTOR COMPANY instructions provided in the documentation for the DEVICES product support, such as the vehicle owner guide.

Should you have any questions concerning this EULA, or if you desire to contact FORD MOTOR COMPANY for any other reason, please refer to the address provided in the documentation for the DEVICES.

No Liability for Certain Damages: EXCEPT AS PROHIBITED BY LAW, FORD MOTOR COMPANY, ANY THIRD PARTY SOFTWARE OR SERVICES SUPPLIERS, AND THEIR AFFILIATES SHALL HAVE NO LIABILITY FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE SOFTWARE. THIS LIMITATION SHALL APPLY EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE. THERE ARE NO WARRANTIES OTHER THAN THOSE THAT MAY BE EXPRESSLY PROVIDED FOR YOUR NEW VEHICLE.

SYNC® Automotive Important Safety Information Read and follow instructions:

- Before using your SYNC® system, read and follow all instructions and safety information provided in this end user manual ("Owner Guide".) Not following precautions found in the Owner Guide can lead to an accident or other serious injuries.

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General Operation

- **Voice Command Control**: Certain functions within the SYNC® system may be accomplished using voice commands. Using voice commands while driving helps you to operate the system without removing your hands from the wheel or eyes from the road.
- **Prolonged Views of Screen:** Do not access any function requiring a prolonged view of the screen while you are driving. Pull over in a safe and legal manner before attempting to access a function of the system requiring prolonged attention.
- **Volume Setting:** Do not raise the volume excessively. Keep the volume at a level where you can still hear outside traffic and emergency signals while driving. Driving while unable to hear these sounds could cause an accident.
- **Navigation Features:** Any navigation features included in the system are intended to provide turn by turn instructions to get you to a desired destination. Please make certain all persons using this system carefully read and follow instructions and safety information fully.
- **Distraction Hazard:** Any navigation features may require manual (non-verbal) setup. Attempting to perform such set-up or insert data while driving can distract your attention and could cause an accident or other serious injury. Stop the vehicle in a safe and legal manner before attempting these operations.
- **Let Your Judgment Prevail:** Any navigation features are provided only as an aid. Make your driving decisions based on your observations of local conditions and existing traffic regulations. Any such feature is not a substitute for your personal judgment. Any route suggestions made by this system should never replace any local traffic regulations or your personal judgment or knowledge of safe driving practices.
- **Route Safety:** Do not follow the route suggestions if doing so would result in an unsafe or illegal maneuver, if you would be placed in an unsafe situation, or if you would be directed into an area that you consider unsafe. The driver is ultimately responsible for the safe operation of the vehicle and therefore, must evaluate whether it is safe to follow the suggested directions.
- **Potential Map Inaccuracy:** Maps used by this system may be inaccurate because of changes in roads, traffic controls or driving conditions. Always use good judgment and common sense when following the suggested routes.
- **Emergency Services:** Do not rely on any navigation features included in the system to route you to emergency services. Ask local authorities or an emergency services operator for these locations. Not all emergency services such as police, fire stations, hospitals and clinics are likely to be contained in the map database for such navigation features.

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Your Responsibilities and Assumptions of Risk

- You agree to each of the following:(a) Any use of the SOFTWARE while driving an automobile or other vehicle in violation of applicable law or otherwise driving in an unsafe manner presents a significant risk of distracted driving and should not be attempted under any circumstances;(b) Use of the SOFTWARE at excessive volume poses a significant risk of hearing damage and should not be attempted under any circumstances;(c) The SOFTWARE may not be compatible with new or different versions of an operating system, third party software, or third party services, and the SOFTWARE may potentially cause a critical failure of an operating system, third party software, or third party service.(d) Any third party service accessed by or third party software used with the SOFTWARE (I) may charge an additional fee for access, (ii) may not work correctly, on an uninterrupted basis, or error free, (iii) may change streaming formats or discontinue operation, (iv) may contain adult, profane or offensive content; and (v) may contain inaccurate, false or misleading traffic, weather, financial or safety information or other content; and (e) Use of the SOFTWARE may cause you to incur additional charges from your wireless service provider (WSP) and any data or minute calculators that may be included in the software program are for reference only, are not warranted in any way and should not be relied upon in anyway.
- When using the SOFTWARE, you agree to be responsible for and assume the entire risk to the items set forth in Section (a) – (e) above.

Disclaimer of Warranty

YOU EXPRESSLY ACKNOWLEDGE AND AGREE THAT USE OF THE DEVICES AND SOFTWARE IS AT YOUR SOLE RISK AND THAT THE ENTIRE RISK AS TO SATISFACTORY QUALITY, PERFORMANCE, COMPATIBILITY, ACCURACY AND EFFORT IS WITH YOU. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE SOFTWARE AND ANY THIRD PARTY SOFTWARE OR THIRD-PARTY SERVICES ARE PROVIDED "AS IS" AND “AS AVAILABLE”, WITH ALL FAULTS AND WITHOUT WARRANTY OF ANY KIND, AND FORD MOTOR COMPANY HEREBY DISCLAIMS ALL WARRANTIES AND CONDITIONS WITH RESPECT TO THE SOFTWARE, THIRD PARTY SOFTWARE, AND THIRD-PARTY SERVICES, EITHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES AND/OR CONDITIONS OF MERCHANTABILITY, OF SATISFACTORY QUALITY, OF FITNESS FOR AN ARTICULAR PURPOSE, OF ACCURACY, OF QUIET ENJOYMENT, AND NON-INFRINGEMENT OF THIRD-PARTY RIGHTS. FORD MOTOR COMPANY DOES NOT WARRANT (a) AGAINST INTERFERENCE WITH YOUR ENJOYMENT OF THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES, (b) THAT THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES WILL MEET YOUR REQUIREMENTS, (c) THAT THE OPERATION OF THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES WILL BE UNINTERRUPTED OR ERROR-FREE, (d) OR THAT DEFECTS IN THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES WILL BE CORRECTED. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY FORD MOTOR COMPANY OR ITS AUTHORIZED REPRESENTATIVE SHALL

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CREATE A WARRANTY. SHOULD THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES PROVE DEFECTIVE, YOU ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION. SOME JURISDICTIONS DO NOT ALLOW THE DISCLAIMER OF IMPLIED WARRANTIES OR LIMITATIONS ON APPLICABLE STATUTORY RIGHTS OF A CONSUMER, SO THE ABOVE DISCLAIMER MAY NOT FULLY APPLY TO YOU. THE SOLE WARRANTY PROVIDED BY FORD MOTOR COMPANY SHALL BE FOUND IN THE WARRANTY INFORMATION INCLUDING WITH YOUR OWNER GUIDE. TO THE EXTENT THAT THERE IS ANY CONFLICT BETWEEN THE TERMS OF THIS SECTION AND THE WARRANTY BOOKLET, THE WARRANTY BOOKLET SHALL CONTROL.

Applicable Law, Venue, Jurisdiction

- The laws of the State of Michigan govern this EULA and Your use of the SOFTWARE. Your use of the SOFTWARE may also be subject to other local, state, national, or international laws. Any litigation arising out of or related to this EULA shall be brought and maintained exclusively in a court of the State of Michigan located in Wayne County or in the United States District Court for the Eastern District of Michigan. You hereby consent to submit to the personal jurisdiction of a court in the State of Michigan located in Wayne County and the United States District Court for the Eastern District of Michigan for any dispute arising out of or relating to this EULA.

Binding Arbitration and Class Action Waiver

(a) Application. This Section applies to any dispute EXCEPT IT DOES NOT INCLUDE A DISPUTE RELATING TO COPYRIGHT INFRINGEMENT, OR TO THE ENFORCEMENT OR VALIDITY OF YOUR, FORD MOTOR COMPANY, OR ANY OF FORD MOTOR COMPANY'S LICENSORS' INTELLECTUAL PROPERTY RIGHTS. Dispute means any dispute, action, or other controversy between You and FORD MOTOR COMPANY, other than the exceptions listed above, concerning the SOFTWARE (including its price) or this EULA, whether in contract, warranty, tort, statute, regulation, ordinance, or any other legal or equitable basis.

(b) Notice of Dispute. In the event of a Dispute, You or FORD MOTOR COMPANY must give the other a "Notice of Dispute", which is a written statement of the name, address, and contact information of the party giving it, the facts giving rise to the dispute, and the relief requested. You and FORD MOTOR COMPANY will attempt to resolve any dispute through informal negotiation within 60 days from the date the Notice of Dispute is sent. After 60 days, You or FORD MOTOR COMPANY may commence arbitration.

(c) Small claims court. You may also litigate any dispute in small claims court in your county of residence or FORD MOTOR COMPANY'S principal place of business, if the dispute meets all requirements to be heard in the small claims court. You may litigate in small claims court whether or not You negotiated informally first.

(d) Binding arbitration. If You and FORD MOTOR COMPANY, do not resolve any dispute by informal negotiation or in small claims court, any other effort to resolve the dispute will be conducted exclusively by binding arbitration. You are giving up

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the right to litigate (or participate in as a party or class member) all disputes in court before a judge or jury. Instead, all disputes will be resolved before a neutral arbitrator, whose decision will be final except for a limited right of appeal under the Federal Arbitration Act. Any court with jurisdiction over the parties may enforce the arbitrator's award.

(e) Class action waiver. Any proceedings to resolve or litigate any dispute in any forum will be conducted solely on an individual basis. Neither you nor FORD MOTOR COMPANY, will seek to have any dispute heard as a class action, as a private attorney general action, or in any other proceeding in which any party acts or proposes to act in a representative capacity. No arbitration or proceeding will be combined with another without the prior written consent of all parties to all affected arbitrations or proceedings.

(f) Arbitration procedure. Any arbitration will be conducted by the American Arbitration Association (the "AAA"), under its Commercial Arbitration Rules. If You are an individual and use the SOFTWARE for personal or vehicle use, or if the value of the dispute is $75,000 or less whether or not You are an individual or how You use the SOFTWARE, the AAA Supplementary Procedures for Consumer-Related Disputes will also apply. To commence arbitration, submit a Commercial Arbitration Rules Demand for Arbitration form to the AAA. You may request a telephonic or in-person hearing by following the AAA rules. In a dispute involving $10,000 or less, any hearing will be telephonic unless the arbitrator finds good cause to hold an in-person hearing instead. For more information, see adr.org or call 1-800-778-7879. You agree to commence arbitration only in your county of residence or FORD MOTOR COMPANY'S principal place of business. The arbitrator may award the same damages to you individually as a court could. The arbitrator may award declaratory or injunctive relief only to you individually, and only to the extent required to satisfy your individual claim.

(g) Arbitration fees and incentives.

- I. Disputes involving $75,000 or less. FORD MOTOR COMPANY will promptly reimburse your filing fees and pay the AAA's and arbitrator's fees and expenses. If you reject FORD MOTOR COMPANY'S last written settlement offer made before the arbitrator was appointed ("last written offer"), your dispute goes all the way to an arbitrator's decision (called an "award"), and the arbitrator awards you more than the last written offer, FORD MOTOR COMPANY will give you three incentives: (1) pay the greater of the award or $1,000; (2) pay twice your reasonable attorney's fees, if any; and (3) reimburse any expenses (including expert witness fees and costs) that your attorney reasonably accrues for investigating, preparing, and pursuing your claim in arbitration. The arbitrator will determine the amounts.
- ii. Disputes involving more than $75,000. The AAA rules will govern payment of filing fees and the AAA's and arbitrator's fees and expenses.
- iii. Disputes involving any amount. In any arbitration you commence, FORD MOTOR COMPANY will seek its AAA or arbitrator's fees and expenses, or Your filing fees it reimbursed, only if the arbitrator finds the arbitration frivolous or brought for an improper purpose. In any arbitration FORD MOTOR COMPANY commences, it will pay all

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filing, AAA, and arbitrator's fees and expenses. It will not seek its attorney's fees or expenses from you in any arbitration. Fees and expenses are not counted in determining how much a dispute involves.

(h) Claims or disputes must be filed within one year. To the extent permitted by law, any claim or dispute under this EULA to which this Section applies must be filed within one year in small claims court (Section c) or in arbitration (Section d). The one-year period begins when the claim or dispute first could be filed. If such a claim or dispute is not filed within one year, it is permanently barred.

(I) Severability. If the class action waiver (Section e) is found to be illegal or unenforceable as to all or some parts of a dispute, then that portion of Section e will not apply to those parts. Instead, those parts will be severed and proceed in a court of law, with the remaining parts proceeding in arbitration. If any other provision of that portion Section e is found to be illegal or unenforceable, that provision will be severed with the remainder of Section e remaining in full force and effect.

Telenav Software End User License Agreement

Please read these terms and conditions carefully before you use the TeleNav Software. Your use of the TeleNav Software indicates that you accept these terms and conditions. If you do not accept these terms and conditions, do not break the seal of the package, launch, or otherwise use the TeleNav Software. TeleNav may revise this Agreement and the privacy policy at any time, with or without notice to you. You agree to visit http://www.telenav.com from time to time to review the then current version of this Agreement and of the privacy policy.

1. Safe and Lawful Use

You acknowledge that devoting attention to the TeleNav Software may pose a risk of injury or death to you and others in situations that otherwise require your undivided attention, and you therefore agree to comply with the following when using the TeleNav Software:

(a) observe all traffic laws and otherwise drive safely;

(b) use your own personal judgment while driving. If you feel that a route suggested by the TeleNav Software instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or directs you into an area that you consider to be unsafe, do not follow such instructions;

(c) do not input destinations, or otherwise manipulate the TeleNav Software, unless your vehicle is stationary and parked;

(d) do not use the TeleNav Software for any illegal, unauthorized, unintended, unsafe, hazardous, or unlawful purposes, or in any manner inconsistent with this Agreement;

(e) arrange all GPS and wireless devices and cables necessary for use of the TeleNav Software in a secure manner in your vehicle so that they will not interfere with your driving and will not prevent the operation of any safety device (such as an airbag).

You agree to indemnify and hold TeleNav harmless against all claims resulting from any dangerous or otherwise inappropriate use of the TeleNav Software in any moving vehicle, including as a result of your failure to comply with the directions above.

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2. Account Information

You agree: (a) when registering the TeleNav Software, to provide TeleNav with true, accurate, current, and complete information about yourself, and (b) to inform TeleNav promptly of any changes to such information, and to keep it true, accurate, current and complete.

3. Software License

- Subject to your compliance with the terms of this Agreement, TeleNav hereby grants to you a personal, non-exclusive, non-transferable license (except as expressly permitted below in connection with your permanent transfer of the TeleNav Software license), without the right to sublicense, to use the TeleNav Software (in object code form only) in order to access and use the TeleNav Software. This license shall terminate upon any termination or expiration of this Agreement. You agree that you will use the TeleNav Software only for your personal business or leisure purposes, and not to provide commercial navigation services to other parties.

3.1 License Limitations

- **(a)** reverse engineer, decompile, disassemble, translate, modify, alter or otherwise change the TeleNav Software or any part thereof; **(b)** attempt to derive the source code, audio library or structure of the TeleNav Software without the prior express written consent of TeleNav; **(c)** remove from the TeleNav Software, or alter, any of TeleNav's or its suppliers' trademarks, trade names, logos, patent or copyright notices, or other notices or markings; **(d)** distribute, sublicense or otherwise transfer the TeleNav Software to others, except as part of your permanent transfer of the TeleNav Software; or **(e)** use the TeleNav Software in any manner that

I. infringes the intellectual property or proprietary rights, rights of publicity or privacy or other rights of any party,

ii. violates any law, statute, ordinance or regulation, including but not limited to laws and regulations related to spamming, privacy, consumer and child protection, obscenity or defamation, or

iii. is harmful, threatening, abusive, harassing, tortuous, defamatory, vulgar, obscene, libelous, or otherwise objectionable; and (f) lease, rent out, or otherwise permit unauthorized access by third parties to the TeleNav Software without advanced written permission of TeleNav.

4. Disclaimers

- To the fullest extent permissible pursuant to applicable law, in no event will TeleNav, its licensors and suppliers, or agents or employees of any of the foregoing, be liable for any decision made or action taken by you or anyone else in reliance on the information provided by the TeleNav Software. TeleNav also does not warrant the accuracy of the map or other data used for the TeleNav Software. Such data may not always reflect reality due to, among other things, road closures, construction, weather, new roads and other changing conditions. You are responsible for the entire risk arising out of your use of the TeleNav Software. For example but without limitation, you agree not to rely on the TeleNav Software for critical navigation in areas where the well-being or survival of you or others

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is dependent on the accuracy of navigation, as the maps or functionality of the TeleNav Software are not intended to support such high risk applications, especially in more remote geographical areas.

- TELENAV EXPRESSLY DISCLAIMS AND EXCLUDES ALL WARRANTIES IN CONNECTION WITH THE TELENAV SOFTWARE, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES WHICH MAY ARISE FROM COURSE OF DEALING, CUSTOM OR TRADE AND INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS WITH RESPECT TO THE TELENAV SOFTWARE.
- Certain jurisdictions do not permit the disclaimer of certain warranties, so this limitation may not apply to you.

5. Limitation of Liability

- TO THE EXTENT PERMITTED UNDER APPLICABLE LAW, UNDER NO CIRCUMSTANCES SHALL TELENAV OR ITS LICENSORS AND SUPPLIERS BE LIABLE TO YOU OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR EXEMPLARY DAMAGES (INCLUDING IN EACH CASE, BUT NOT LIMITED TO, DAMAGES FOR THE INABILITY TO USE THE EQUIPMENT OR ACCESS DATA, LOSS OF DATA, LOSS OF BUSINESS, LOSS OF PROFITS, BUSINESS INTERRUPTION OR THE LIKE) ARISING OUT OF THE USE OF OR INABILITY TO USE THE TELENAV SOFTWARE, EVEN IF TELENAV HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOTWITHSTANDING ANY DAMAGES THAT YOU MIGHT INCUR FOR ANY REASON WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ALL DAMAGES REFERENCED HEREIN AND ALL DIRECT OR GENERAL DAMAGES IN CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE), THE ENTIRE LIABILITY OF TELENAV AND OF ALL OF TELENAV'S SUPPLIERS SHALL BE LIMITED TO THE AMOUNT ACTUALLY PAID BY YOU FOR THE TELENAV SOFTWARE. SOME STATES AND/OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

6. Arbitration and Governing Law

- You agree that any dispute, claim or controversy arising out of or relating to this Agreement or the TeleNav Software shall be settled by independent arbitration involving a neutral arbitrator and administered by the American Arbitration Association in the County of Santa Clara, California. The arbitrator shall apply the Commercial Arbitration Rules of the American Arbitration Association, and the judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction. Note that there is no judge or jury in an arbitration proceeding and the decision of the arbitrator shall be binding upon both parties. You expressly agree to waive your right to a jury trial. This Agreement and performance hereunder will be governed by and construed in accordance with the laws of the State of California, without giving effect to its conflict of law provisions. To the extent judicial action is necessary in connection with the binding arbitration, both TeleNav and you agree to submit

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to the exclusive jurisdiction of the courts of the County of Santa Clara, California. The United Nations Convention on Contracts for the International Sale of Goods shall not apply.

7. Assignment

- You may not resell, assign, or transfer this Agreement or any of your rights or obligations, except in totality, in connection with your permanent transfer of the TeleNav Software, and expressly conditioned upon the new user of the TeleNav Software agreeing to be bound by the terms and conditions of this Agreement. Any such sale, assignment or transfer that is not expressly permitted under this paragraph will result in immediate termination of this Agreement, without liability to TeleNav, in which case you and all other parties shall immediately cease all use of the TeleNav Software. Notwithstanding the foregoing, TeleNav may assign this Agreement to any other party at any time without notice, provided the assignee remains bound by this Agreement.

8. Miscellaneous

8.1

This Agreement constitutes the entire agreement between TeleNav and you with respect to the subject matter hereof.

8.2

Except for the limited licenses expressly granted in this Agreement, TeleNav retains all right, title and interest in and to the TeleNav Software, including without limitation all related intellectual property rights. No licenses or other rights which are not expressly granted in this Agreement are intended to, or shall be, granted or conferred by implication, statute, inducement, estoppel or otherwise, and TeleNav and its suppliers and licensors hereby reserve all of their respective rights other than the licenses explicitly granted in this Agreement.

8.3

By using the TeleNav Software, you consent to receive from TeleNav all communications, including notices, agreements, legally required disclosures or other information in connection with the TeleNav Software (collectively, "Notices") electronically. TeleNav may provide such Notices by posting them on TeleNav's Website or by downloading such Notices to your wireless device. If you desire to withdraw your consent to receive Notices electronically, you must discontinue your use of the TeleNav Software.

8.4

TeleNav's or your failure to require performance of any provision shall not affect that party's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

8.5

If any provision herein is held unenforceable, then such provision will be modified to reflect the intention of the parties, and the remaining provisions of this Agreement will remain in full force and effect.

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8.6

The headings in this Agreement are for convenience of reference only, will not be deemed to be a part of this Agreement, and will not be referred to in connection with the construction or interpretation of this Agreement. As used in this Agreement, the words "include" and "including" and variations thereof, will not be deemed to be terms of limitation, but rather will be deemed to be followed by the words "without limitation".

9. Other Vendors Terms and Conditions

- The Telenav Software utilizes map and other data licensed to Telenav by third party vendors for the benefit of you and other end users. This Agreement includes end-user terms applicable to these companies (included at the end of this Agreement), and thus your use of the Telenav Software is also subject to such terms. You agree to comply with the following additional terms and conditions, which are applicable to Telenav's third party vendor licensors.

9.1 End User Terms Required by HERE North America, LLC

The data ("Data") is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms and conditions which are agreed to by you, on the one hand, and Telenav ("Telenav") and its licensors (including their licensors and suppliers) on the other hand.

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Terms and Conditions

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CONTRACTOR (MANUFACTURER/ SUPPLIER) ADDRESS: c/o Nokia, 425 West Randolph Street, Chicago, Illinois 60606
This Data is a commercial item as defined in FAR 2.101 and is subject to these End-User Terms under which this Data was provided.
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2. Copyright Notice: In connection with each copy of all or any portion of the Data for the Territory of Canada, Client shall affix in a conspicuous manner the following copyright notice on at least one of: (i) the label for the storage media of the copy; (ii) the packaging for the copy; or (iii) other materials packaged with the copy, such as user manuals or end user license agreements: "This data includes information taken with permission from Canadian authorities, including © Her Majesty the Queen in Right of Canada, © Queen's Printer for Ontario, © Canada Post Corporation, GeoBase®, © The Department of Natural Resources Canada. All rights reserved."

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A. Any and all copies of the Data and/or packaging containing Data for Mexico shall contain the following notice: "Fuente: INEGI (Instituto Nacional de Estadística y Geografía)"

III. Latin America Territory

A. Third Party Notices. Any and all copies of the Data and/or packaging relating thereto shall include the respective Third Party Notices set forth below and used as described below corresponding to the Territory (or portion thereof) included in such copy:

Territory	Notice
Argentina	IGN "INSTITUTO GEOGRAFICO NACIONAL ARGENTINO"
Ecuador	"INSTITUTO GEOGRAFICO MILITAR DEL ECUADOR AUTORIZACION Nº IGM-2011-01- PCO-01 DEL 25 DE ENERO DE 2011" "source: © IGN 2009 - BD TOPO ®"
Guadeloupe, French Guiana and Martinique	
Mexico	"Fuente: INEGI (Instituto Nacional de Estadística y Geografía)"

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Country	Notice
Jordan	"© Royal Jordanian Geographic Centre". The foregoing notice requirement for Jordan Data is a material term of the Agreement. If Client or any of its permitted sublicensees (if any) fail to meet such requirement, HERE shall have the right to terminate Client's license with respect to the Jordan Data.

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A. Use of Certain Traffic Codes in Europe

1. General Restrictions Applicable to Traffic Codes. Client acknowledges and agrees that in certain countries of the Europe Territory, Client will need to obtain rights directly from third party RDS-TMC code providers to receive and use the Traffic Codes in the Data and to deliver to End-Users Transactions in any way derived from or based on such Traffic Codes. For such countries, HERE shall deliver the Data incorporating Traffic Codes to Client only after receiving certification from Client of its having obtained such rights.

2. Display of Third Party Rights Legends for Belgium. Client shall, for each Transaction that uses Traffic Codes for Belgium, provide the following notice to the End-User: "Traffic Codes for Belgium are provided by the Ministerie van de Vlaamse Gemeenschap and the Ministèrie de l'Equipement et des Transports."

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C. OS Enforcement. Without limiting Section IV(B) above, with respect to Data for the Territory of Great Britain, Client acknowledges and agrees that the Ordnance Survey ("OS") may bring a direct action against Client to enforce compliance with the OS copyright notice (see Section IV(D) below) and paper map requirements (see Section IV(B) above) contained in this Agreement.

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Taiwan Territory

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5. Service Continuity and Reception of the SUNA Traffic Channel

We will use reasonable endeavors to provide the SUNA Traffic Channel 24 hours a day, 365 days a year. The SUNA Traffic Channel may occasionally be unavailable for technical reasons or for planned maintenance. We will try to perform maintenance at times when congestion is light. We reserve the right to withdraw SUNA Products and/or Services at any time.

Also, we cannot assure the uninterrupted reception of the SUNA Traffic Channel RDS-TMC signal at any particular location.

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7. Please Note

Great care has been taken in preparing this manual. Constant product development may mean that some information is not entirely up-to-date. The information in this document is subject to change without notice.

EMISSION LAW

WARNING: Do not remove or alter the original equipment floor covering or insulation between it and the metal floor of the vehicle. The floor covering and insulation protect occupants of the vehicle from the engine and exhaust system heat and noise. On vehicles with no original equipment floor covering insulation, do not carry passengers in a manner that permits prolonged skin contact with the metal floor. Failure to follow these instructions may result in fire or personal injury.

U.S. federal laws and certain state laws prohibit removing or rendering inoperative emission control system components. Similar federal or provincial laws may apply in Canada. We do not approve of any vehicle modification without first determining applicable laws.

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Tampering with emissions control systems including related sensors or the Diesel Exhaust Fluid system can result in reduced engine power and the illumination of the service engine soon light.

Tampering With a Noise Control System

Federal laws prohibit the following acts:

- Removal or rendering inoperative by any person other than for purposes of maintenance.
- Repair or replacement of any device or element of the design incorporated into a new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use.
- The use of the vehicle after any person removes or renders inoperative any device or element of the design.

The U.S. Environmental Protection Agency may presume to constitute tampering as follows:

- Removal of hood blanket, fender apron absorbers, fender apron barriers, underbody noise shields or acoustically absorptive material.
- Tampering or rendering inoperative the engine speed governor, to allow engine speed to exceed manufacturer specifications.

If the engine does not start, runs rough, experiences a decrease in engine performance, experiences excess fuel consumption or produces excessive exhaust smoke, check for the following:

- A plugged or disconnected air inlet system hose.
- A plugged engine air filter element.
- Water in the fuel filter and water separator.
- A clogged fuel filter.
- Contaminated fuel.
- Air in the fuel system, due to loose connections.
- An open or pinched sensor hose.
- Incorrect engine oil level.
- Incorrect fuel for climatic conditions.
- Incorrect engine oil viscosity for climactic conditions.

Note: *Some vehicles have a lifetime fuel filter that is integrated with the fuel tank. Regular maintenance or replacement is not needed.*

Note: *If these checks do not help you correct the concern, have your vehicle checked as soon as possible.*

Noise Emissions Warranty, Prohibited Tampering Acts and Maintenance

On January 1, 1978, Federal regulation became effective governing the noise emission on trucks over 10,000 lb (4,536 kg) Gross Vehicle Weight Rating (GVWR). The preceding statements concerning prohibited tampering acts and maintenance, and the noise warranty found in the Warranty Guide, are applicable to complete chassis cabs over 10,000 lb (4,536 kg) GVWR.

EXPORT UNIQUE OPTIONS

For your particular global region, your vehicle may be equipped with features and options that are different from the features and options that are described in this Owner's Manual. A market unique supplement may be supplied that complements this book. By referring to the market unique supplement, if provided, you can properly identify those features, recommendations and specifications that are unique to your vehicle. This Owner's

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Manual is written primarily for the U.S. and Canadian markets. Features or equipment listed as standard may be different on units built for export. **Refer to this Owner's Manual for all other required information and warnings.**

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ELECTROMAGNETIC COMPATIBILITY

WARNING: Do not place objects or mount equipment on or near the airbag cover, on the side of the front or rear seatbacks, or in areas that may come into contact with a deploying airbag. Failure to follow these instructions may increase the risk of personal injury in the event of a crash.

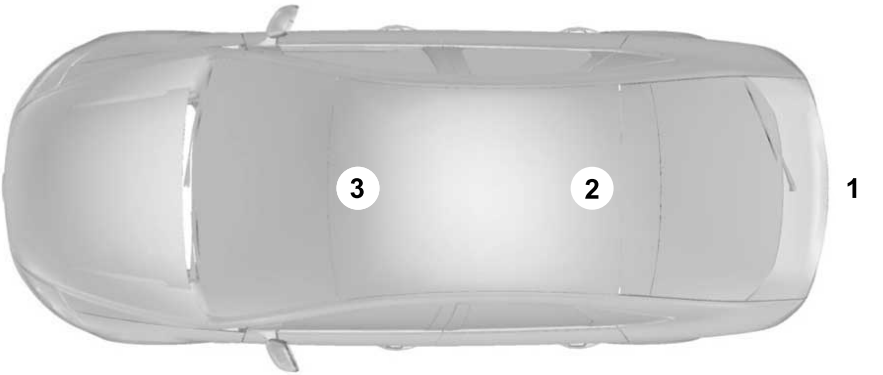
WARNING: Do not fasten antenna cables to vehicle wiring, fuel pipes and brake pipes.

WARNING: Keep antenna and power cables at least 4 in (10 cm) from any electronic modules and airbags.

Note: *We test and certify your vehicle to meet electromagnetic compatibility legislation. It is your responsibility to make sure that any equipment an authorized dealer installs on your vehicle complies with applicable local legislation and other requirements. Installation of some aftermarket electronic devices could degrade the performance of vehicle functions, which use radio frequency signals such as broadcast radio receiver, tire pressure monitoring system, push button start,* ***Bluetooth****® connectivity or satellite navigation.*

Note: *Any radio frequency transmitter equipment in your vehicle (such as cellular telephones and amateur radio transmitters) must keep to the parameters in the following illustrations and table. We do not provide any other special provisions or conditions for installations or use.*

Car/SUV



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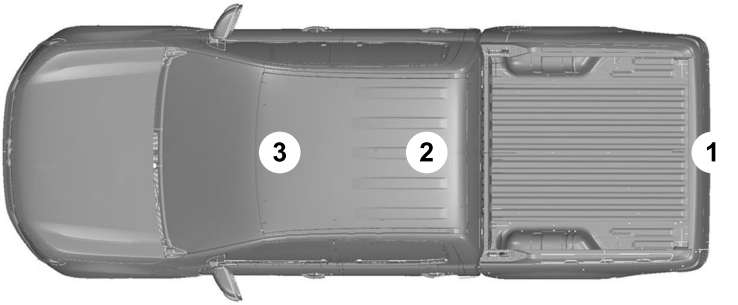
Van

Truck



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Frequency Band MHz	Maximum Output Power Watt (Peak RMS)	Antenna Positions
1-30	50	1
50-54	50	2, 3
68-88	50	2, 3
142-176	50	2, 3
380-512	50	2, 3
806-870	10	2, 3

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