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**ABOUT THIS MANUAL**

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



**WARNING:** Always drive with due care and attention when using and operating the controls and features on your vehicle.

**Note:** This manual describes a range of product features and options, sometimes before they are generally available. Therefore, you may find options in this manual that are not found on your vehicle.

**Note:** Some of the illustrations in this manual may be used for different models, so they may appear different than your vehicle.. However, the essential information in the illustrations is always correct.

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

**Note:** Pass on this manual when selling your vehicle. It is an integral part of the vehicle.

**Protecting the Environment**


































You must play your part in protecting the environment. Correct vehicle usage and the authorized disposal of waste, cleaning and lubrication materials are significant steps toward this aim.






**SYMBOL GLOSSARY**

**WARNING:** You risk death or serious injury to yourself and others if you do not follow the instruction highlighted by the warning symbol.

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

Symbol	Description	Symbol	Description	Symbol	Description
	Safety alert		See Owner's Manual		Anti-lock braking system
	Avoid smoking, flames, or sparks		Battery		Battery acid

Symbol	Description	Symbol	Description	Symbol	Description
	Brake fluid – non petroleum base		Brake system		Cabin air filter
	Check fuel cap		Child Safety Door Lock and Unlock		Child seat lower anchor
	Child seat tether anchor		Cruise control		Do not open when hot
	Engine air filter		Engine coolant		Engine coolant temperature
	Engine oil		Explosive gas		Fan warning
	Fasten safety belt		Front airbag		Front fog lamps
	Fuel pump reset		Fuse compartment		Hazard warning flasher
	Heated rear window		Interior luggage compartment release		Jack
	Lighting control		Low tire pressure warning		Maintain correct fluid level
	Panic alarm		Parking aid system		Parking brake system
	Power steering fluid		Power windows front and rear		Power window lockout

Symbol	Description	Symbol	Description	Symbol	Description
	Service engine soon		Side airbag		Stability control
	Windshield defrost and demist		Windshield washer and wiper		

## DATA RECORDING

### Service Data Recording

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, 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. For U.S. only (if equipped), if you choose to use the SYNC® Vehicle Health Report, 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 for any purpose. See your SYNC® supplement for more information.

### Event Data Recording

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

- **How various systems in your vehicle were operating;**
- **Whether or not the driver and passenger safety belts were buckled/fastened;**
- **How far (if at all) the driver was depressing the accelerator and/or the brake pedal; and**
- **How fast the vehicle was travelling; and**

- 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.

**Note:** EDR data is recorded by your vehicle only if a non-trivial crash situation occurs; no data is recorded by the EDR under normal driving conditions and no personal data or information (e.g., name, gender, age, and crash location) is recorded (see limitations regarding 911 Assist and Traffic, directions and Information privacy below). However, parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have such special equipment, can read the information if they have access to the vehicle or the EDR. Ford Motor Company and Ford of Canada do not access event data recorder information without obtaining consent, unless pursuant to 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.

**Note:** Including to the extent that any law pertaining to Event Data Recorders applies to SYNC® or its features, please note the following: Once 911 Assist (if equipped) is enabled (set ON), 911 Assist may, through any paired and connected cell phone, disclose to emergency services that the vehicle has been in a crash involving the deployment of an airbag or, in certain vehicles, the activation of the fuel pump shut-off. Certain versions or updates to 911 Assist may also be capable of being used to electronically or verbally provide to 911 operators the vehicle location (such as latitude and longitude), and/or other details about the vehicle or crash or personal information about the occupants to assist 911 operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not activate the 911 Assist feature. See your SYNC® chapter for more information.

Additionally, when you connect to Traffic, Directions and Information (if equipped, U.S. only), the service uses GPS technology and advanced vehicle sensors to collect the vehicle's current location, travel direction, and speed ("vehicle travel information"), only to help provide you with the directions,

**traffic reports, or business searches that you request. If you do not want Ford or its vendors to receive this information, do not activate the service. Ford Motor Company and the vendors it uses to provide you with this information do not store your vehicle travel information. For more information, see Traffic, Directions and Information, Terms and Conditions. See your SYNC® supplement for more information.**

#### **CALIFORNIA PROPOSITION 65**



**WARNING:** Some constituents of engine exhaust, certain vehicle components, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **PERCHLORATE MATERIAL**

**Note:** Certain components in your vehicle such as airbag modules, safety belt pretensioners, and remote control batteries may contain perchlorate material. Special handling may apply for service or vehicle end of life disposal. See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate) for more information.

#### **LINCOLN AUTOMOTIVE FINANCIAL SERVICES (U.S. ONLY)**

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

For your convenience we offer a number of ways to contact us, as well as help manage your account.

Phone: 1-888-498-8801

For more information regarding Lincoln Automotive Financial Services, as well as access Account Manager, please go to [www.LincolnAFS.com](http://www.LincolnAFS.com).

#### **REPLACEMENT PARTS RECOMMENDATION**

Your vehicle has been built 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 do happen. Genuine Ford replacement collision parts meet our stringent requirements for fit, finish, structural integrity, corrosion protection and dent resistance. During vehicle development we validate 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. Damage caused to your vehicle as a result of the failure of non-Ford parts may not be covered by the Ford Warranty. For additional information, refer to the terms and conditions of the Ford Warranty.

**SPECIAL NOTICES****New Vehicle Limited Warranty**

For a detailed description of what is covered and what is not covered by your vehicle's New Vehicle Limited Warranty, refer to the *Warranty Manual* that is provided to you along with your Owner's Manual.

**Special Instructions**

For your added safety, your vehicle is fitted with sophisticated electronic controls.



**WARNING:** Please read the *Supplementary Restraints System* chapter. Failure to follow the specific warnings and instructions could result in personal injury.



**WARNING:** Front seat mounted rear-facing child or infant seats should **NEVER** be placed in front of an active passenger airbag.

**MOBILE COMMUNICATIONS EQUIPMENT**

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.



**WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that you use extreme caution when using any device or feature 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 handheld device while driving, encourage the use of voice operated systems when possible and that you become aware of applicable state and local laws that may affect use of electronic devices while driving.

**EXPORT UNIQUE (NON-UNITED STATES/CANADA) VEHICLE SPECIFIC INFORMATION**

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 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.**

**GENERAL INFORMATION**

See the following sections for directions on how to properly use safety restraints for children.



**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 purchased separately from the 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 recommendations for safety restraints are based on probable child height, age and weight thresholds from NHTSA and other safety organizations, or are the minimum requirements of law. Ford recommends checking with a NHTSA Certified Child Passenger Safety Technician (CPST) and consult your pediatrician to make sure your child seat is appropriate for your child, and is compatible with and properly installed in the vehicle. To locate a child seat fitting station and CPST, contact the NHTSA toll free at 1-888-327-4236 or on the internet at <http://www.nhtsa.dot.gov>. In Canada, check with your local St. John Ambulance office for referral to a CPST or for further information, contact your provincial ministry of transportation, your local St. John Ambulance office at <http://www.sfa.ca>, or Transport Canada at 1-800-333-0371 (<http://www.tc.gc.ca>). Failure to properly restrain children in safety seats made especially for their height, age, and weight may result in an increased risk of serious injury or death to your child.

<b>Recommendations for Safety Restraints for Children</b>		
	<b>Child size, height, weight, or age</b>	<b>Recommended restraint type</b>
Infants or toddlers	Children weighing 40 lb (18 kg) or less (generally age four or younger).	Use a child safety seat (sometimes called an infant carrier, convertible seat, or toddler seat).



Recommendations for Safety Restraints for Children		
	Child size, height, weight, or age	Recommended restraint type
Small children	Children who have outgrown or no longer properly fit in a child safety seat (generally children who are less than 4 feet 9 inches (1.45 meters) tall, are greater than age four (4) and less than age twelve (12), and between 40 lb (18 kg) and 80 lb (36 kg) and upward to 100 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 4 feet 9 inches (1.45 meters) tall or greater than 80 lb (36 kg) or 100 lb (45 kg) if recommended by child restraint manufacturer).	Use a vehicle safety belt having the lap belt snug and low across the hips, shoulder belt centered across the shoulder and chest, and seatback upright.

- You are required by law to properly use safety seats for infants and toddlers in the U.S. and Canada.
- Many states and provinces require that small children use approved booster seats until they reach age eight, a height of 4 ft 9 in. (1.45 meters) tall, or 80 lb (36 kg). Check your local and state or provincial laws for specific requirements regarding the safety of children in your vehicle.
- When possible, always properly restrain children twelve (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.

**CHILD SEATS**

Use a child safety seat (sometimes called an infant carrier, convertible seat, or toddler seat) for Infants, toddlers or children weighing 40 lb (18 kg) or less (generally age four or younger)


**CHILD SEAT POSITIONING**


**!** **WARNING:** Airbags can kill or injure a child in a child seat. NEVER place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the vehicle seat all the way back. When possible, all children age 12 and under should be properly restrained in a rear seating position. If all children cannot be seated and restrained properly in a rear seating position, properly restrain the largest child in the front seat.


**!** **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 the 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.

**!** **WARNING:** Never let a passenger hold a child on his or her lap while the vehicle is moving. The passenger cannot protect the child from injury in a collision, which may result in serious injury or death.

**!** **WARNING:** Never use pillows, books, or towels to boost a child. They can slide around and increase the likelihood of injury or death in a collision.

 **WARNING:** Always restrain an unoccupied child seat or booster seat. These objects may become projectiles in a collision or sudden stop, which may increase the risk of serious injury.

 **WARNING:** Never place, or allow a child to place, the shoulder belt under a child’s arm or behind the back because it reduces the protection for the upper part of the body and may increase the risk of injury or death in a collision.

 **WARNING:** Do not leave children, unreliable adults, or pets unattended in your vehicle.

Restraint Type	Child Weight	Use any attachment method as indicated below by X				
		LATCH (lower anchors and top tether anchor)	LATCH (lower anchors only)	Safety belt and top tether anchor	Safety belt and LATCH (lower anchors and top tether anchor)	Safety belt only
Rear facing child seat	Up to 48 lb (21 kg)		X			X
Forward facing child seat	Up to 48 lb (21 kg)	X		X	X	
Forward facing child seat	Over 48 lb (21 kg)			X	X	

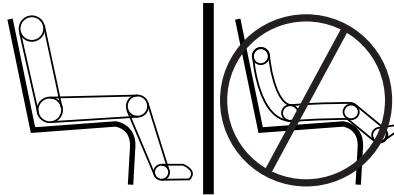
**Note:** The child seat must rest tightly against the vehicle seat. It may be necessary to lift or remove the head restraint. See the *Seats* chapter for information on head restraints.

**BOOSTER SEATS**

**WARNING:** Never place, or allow a child to place, the shoulder belt under a child's arm or behind the back because it reduces the protection for the upper part of the body and may increase the risk of injury or death in a collision.

Use a belt-positioning booster seat for children who have outgrown or no longer properly fit in a child safety seat (generally children who are less than 4 feet 9 inches (1.45 meters) tall, are greater than age four (4) and less than age twelve (12), and between 40 lb (18 kg) and 80 lb (36 kg) and upward to 100 lb (45 kg) if recommended by your child restraint manufacturer). Many state and provincial laws require that children use approved booster seats until they reach age eight, a height of 4 feet 9 inches (1.45 meters) 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 the vehicle seat back 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 the vehicle lap/shoulder belt.

### Types of Booster Seats



- Backless booster seats

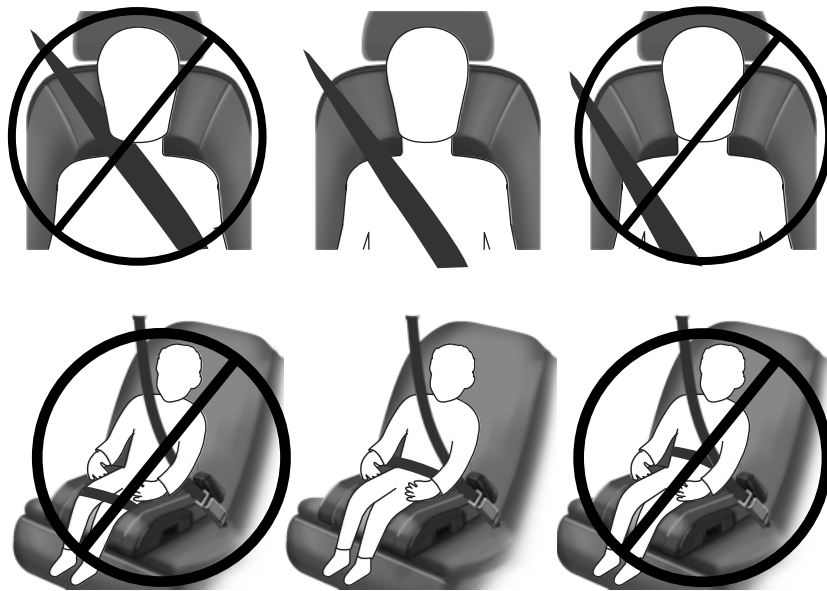
If your backless booster seat has a removable shield, remove the shield. If a vehicle seating position has a low seat back or no head restraint, a backless booster seat may place your child's head (as measured at the tops of the ears) above the top of the seat. In this case, move the backless booster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



- 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 (center) 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.



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

### INSTALLING CHILD SAFETY SEATS

#### Using lap and shoulder belts

**!** **WARNING:** Airbags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

**!** **WARNING:** Children 12 and under should be properly restrained in the rear seat whenever possible.



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

When installing a child safety seat with combination lap and shoulder belts:

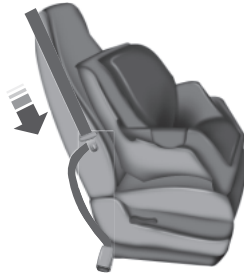
- Use the correct safety belt buckle for that seating position.
- Insert the belt tongue into the proper buckle until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.
- Keep the buckle release button pointing up and away from the safety seat, with the tongue between the child seat and the release button, to prevent accidental unbuckling.
- Place the vehicle seat back in the upright position.
- Put the safety belt in the automatic locking mode. Refer to Step 5. This vehicle does not require the use of a locking clip.

Perform the following steps when installing the child seat with combination lap and shoulder belts:

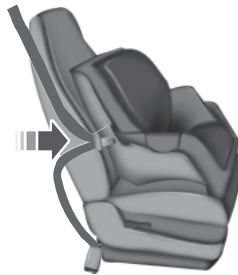
**Note:** Although the child seat illustrated is a forward facing child seat, the steps are the same for installing a rear facing child seat.



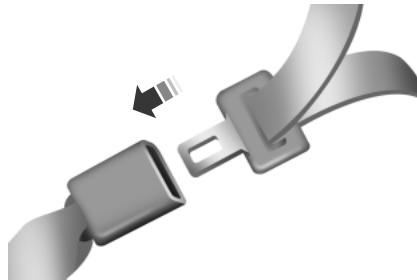
1. Position the child safety seat in a seat with a combination lap and shoulder belt.



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 seat according to the child seat manufacturer's instructions. Be sure the belt webbing is not twisted.



4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.



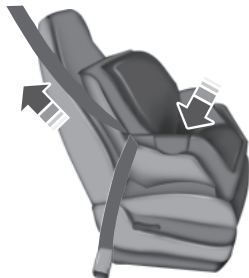


5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until all of the belt is pulled out.

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

6. Allow the belt to retract to remove slack. The belt will click as it retracts to indicate it is in the automatic locking mode.

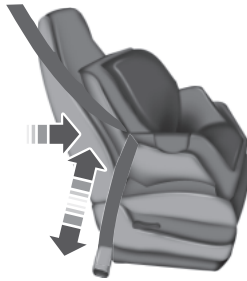
7. Try to pull the belt out of the retractor to make sure the retractor is in the automatic locking mode. You should not be able to pull more belt out. If the retractor is not locked, unbuckle the belt and repeat Steps 5 and 6.



8. Remove remaining slack from the belt. Force the seat down with extra weight, e.g., 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 will exist once the additional weight of the child is added to the child restraint. It also helps to achieve the proper snugness of the child seat to the vehicle. Sometimes, a slight lean towards the buckle will additionally help to remove remaining slack from the belt.

9. Attach the tether strap (if the child seat is equipped). Refer to *Using tether straps* later in this chapter.



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 inch (2.5 cm) of movement for proper installation.

Ford recommends checking with a NHTSA Certified Child Passenger Safety Technician (CPST) to make certain the child restraint is properly installed. In Canada, check with your local St. John Ambulance office for referral to a CPST.

#### Using Lower Anchors and Tethers for Children (LATCH)



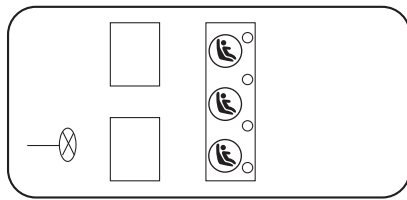
**WARNING:** Never attach two child safety seats to the same anchor. In a crash, one anchor may not be strong enough to hold two child safety seat attachments and may break, causing serious injury or death.



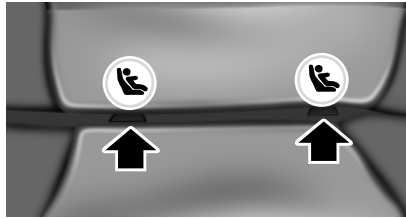
**WARNING:** Depending on where you secure a child restraint, and depending on the child restraint design, you may block access to certain safety belt buckle assemblies and/or LATCH lower anchors, rendering those features potentially unusable. To avoid risk of injury, occupants should only use seating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

The LATCH system is composed of three vehicle anchor points: two lower anchors located where the vehicle seat back and seat cushion meet (called the seat bight) and one top tether anchor located behind that seating position.

LATCH compatible child safety seats have two rigid or webbing mounted attachments that 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 safety belts to attach the child seat, however the safety belt can still be used to attach the child seat. For forward-facing child seats, the top tether strap must also be attached to the proper top tether anchor, if a top tether strap has been provided with your child seat.



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



The LATCH anchors are located at the rear section of the rear seat between the cushion and seatback below the symbols as shown. Follow the child seat manufacturer's instructions to properly install a child seat with LATCH attachments.

Follow the instructions on attaching child safety seats with tether straps. Refer to *Using tether straps* later in this chapter.

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

**Child seat positioning for LATCH lower anchors**

All the LATCH lower anchors are equally spaced, 11 in. (28 cm) apart, allowing for the following child seat positioning:

- If a single child seat is installed using the LATCH lower anchors, it can be installed at any rear seating position.
- If two child safety seats are installed using the LATCH lower anchors, they must be placed in the outboard seating positions only.
- If three child safety seats are installed, you can install two using the LATCH lower anchors by placing them in each outboard seating position and the third in the center using the lap and shoulder belt, OR you can use the LATCH lower anchors for the center child safety seat and the lap and shoulder belts for the other two child safety seats in the outboard positions. Use the tether anchors if applicable.

**Combining Safety Belt and LATCH Lower Anchors for Attaching Child Safety Seats**

When used in combination, either the safety belt or the LATCH lower anchors may be attached first, provided a proper installation is achieved. Attach the tether strap afterward, if included with the child seat.

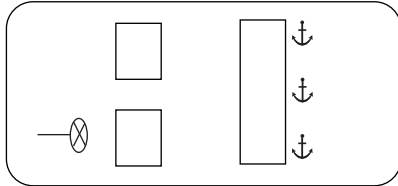
**Using Tether Straps**

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

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

Once the child safety seat has been installed using either the safety belt, 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):



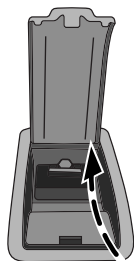
Perform the following steps to install a child safety seat with tether anchors:

**Note:** If you install a child seat with rigid LATCH attachments, do not tighten the tether strap enough to lift the child seat 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 seat. Keeping the child seat just touching the vehicle seat gives the best protection in a severe crash.

1. Route the tether strap over the top of the head restraint.
2. Locate the correct anchor for the selected seating position.



2. Locate the correct anchor for the selected seating position.



3. Open the tether anchor cover.



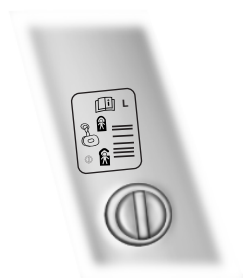
4. Clip the tether strap to the anchor as shown.

5. Tighten the child safety seat tether strap according to the manufacturer's instructions.

If your child restraint system is equipped with a tether strap, and the child restraint manufacturer recommends its use, Ford also recommends its use.

#### CHILD SAFETY LOCKS

The childproof locks are located on the rear edge of each rear door and must be set separately for each door.



When these locks are set, the rear doors cannot be opened from the inside.

- Insert the key and turn to the lock position (key horizontal) to engage the childproof locks.
- Insert the key and turn to the unlock position (key vertical) to disengage the childproof locks.

### PRINCIPLES OF OPERATION



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



**WARNING:** To reduce the risk of injury, make sure children sit where they can be properly restrained.



**WARNING:** Never let a passenger hold a child on his or her lap while the vehicle is moving. The passenger cannot protect the child from injury in a collision.



**WARNING:** All occupants of the vehicle, including the driver, should always properly wear their safety belts, even when an airbag supplemental restraint system (SRS) is provided.



**WARNING:** It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and safety belts. Be sure everyone in your vehicle is in a seat and using a safety belt properly.



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



**WARNING:** Each seating position in your vehicle has a specific safety belt assembly which is made up of one buckle and one tongue that are designed to be used as a pair. 1) Use the shoulder belt on the outside shoulder only. Never wear the shoulder belt under the arm. 2) Never swing the safety belt around your neck over the inside shoulder. 3) Never use a single belt for more than one person.



**WARNING:** When possible, all children 12 years old and under should be properly restrained in a rear seating position.



**WARNING:** Safety belts and seats can become hot in a vehicle that has been closed up in sunny weather; they could burn a small child. Check seat covers and buckles before you place a child anywhere near them.



**WARNING:** Front and rear seat occupants, including pregnant women, should wear safety belts for optimum protection in an accident.

All seating positions in this vehicle have lap and shoulder safety belts. All occupants of the vehicle should always properly wear their safety belts, even when an airbag supplemental restraint system is provided.

The safety belt system consists of:

- Lap and shoulder safety belts.
- Shoulder safety belt with automatic locking mode, (except driver safety belt).
- Height adjuster at the front outboard seating positions
- Safety belt pretensioner at the front outboard seating positions.
- Belt tension sensor at the front outboard passenger seating position.



- Safety belt warning light and chime. Refer to *Safety belt warning light and indicator chime* later in this chapter.



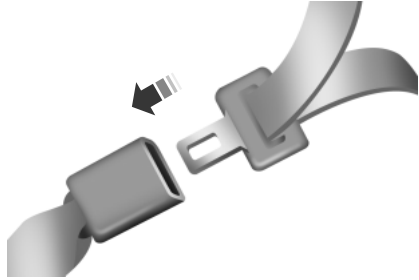
- Crash sensors and monitoring system with readiness indicator. Refer to *Crash sensors and airbag indicator* in the *Supplemental Restraint System* chapter.

The safety belt pretensioners are designed to activate in frontal, near-frontal and side collisions, and in rollovers. The safety belt pretensioners on the retractor and anchor at the front seating positions are designed to tighten the safety belts firmly against the occupant's body when activated. This helps increase the effectiveness of the safety belts. In frontal collisions, the safety belt pretensioners can be activated alone or, if the collision is of sufficient severity, together with the front airbags.

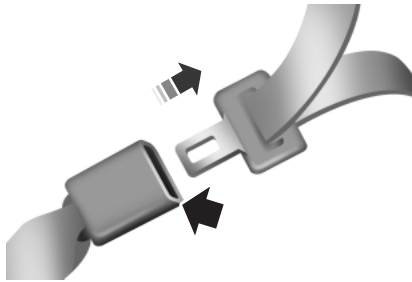


### FASTENING THE SAFETY BELTS

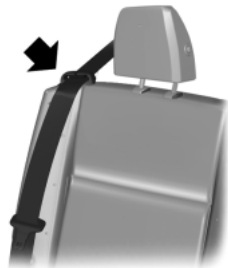
The front outboard and rear safety restraints in the vehicle are combination lap and shoulder belts.



1. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.




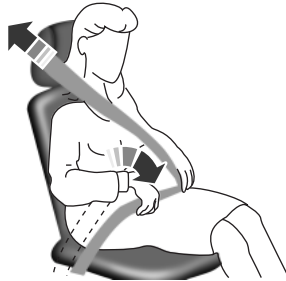
2. To unfasten, press the release button and remove the tongue from the buckle.



When in use, the rear safety belts should be placed in the belt guides on the outboard seatbacks.


**Restraint of Pregnant Women**


 **WARNING:** Always ride and drive with your seatback upright and the safety belt properly fastened. The lap portion of the safety belt should fit snug and be positioned low across the hips. The shoulder portion of the safety belt should be positioned across the chest. Pregnant women should also follow this practice. See the following figure.



Pregnant women should always wear their safety belt. 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 should be positioned to cross the middle of the shoulder and the center of the chest.

**Safety Belt Locking Modes**

 **WARNING:** After any vehicle collision, the safety belt system at all passenger seating positions must be checked by an authorized dealer to verify that the automatic locking retractor feature for child seats is still functioning properly. In addition, all safety belts should be checked for proper function.

 **WARNING:** BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED if the safety belt assembly automatic locking retractor feature or any other safety belt function is not operating properly when checked by an authorized dealer. Failure to replace the belt and retractor assembly could increase the risk of injury in collisions.

All safety restraints in the vehicle are combination lap and shoulder belts. The driver safety belt has the first type of locking mode, and the front outboard passenger and rear seat safety belts have both types of locking modes described as follows:

### **Vehicle sensitive mode**

This is the normal retractor mode, which allows free shoulder belt length adjustment to your movements and locking in response to vehicle movement. For example, if the driver brakes suddenly or turns a corner sharply, or the vehicle receives an impact of approximately 5 mph (8 km/h) or more, the combination safety belts will lock to help reduce forward movement of the driver and passengers.

In addition, the retractor is designed to lock if the webbing is pulled out too quickly. If this occurs, let the belt retract slightly and pull webbing out again in a slow and controlled manner.

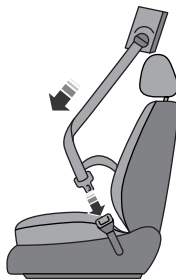
### **Automatic locking mode**

In this mode, the shoulder belt is automatically pre-locked. The belt will still retract to remove any slack in the shoulder belt. The automatic locking mode is not available on the driver safety belt.

### **When to use the automatic locking mode**

This mode should be used any time a child safety seat, except a booster, is installed in passenger front or rear seating positions. Children 12 years old and under should be properly restrained in a rear seating position whenever possible. Refer to the *Child Safety* chapter.

### **How to use the automatic locking mode**



1. Buckle the combination lap and shoulder belt.
2. Grasp the shoulder portion and pull downward until the entire belt is pulled out.

Allow the belt to retract. As the belt retracts, you will hear a clicking sound. This indicates the safety belt is now in the automatic locking mode.

**How to disengage the automatic locking mode**

Disconnect the combination lap/shoulder belt and allow it to retract completely to disengage the automatic locking mode and activate the vehicle sensitive (emergency) locking mode.

**Safety Belt Extension Assembly**

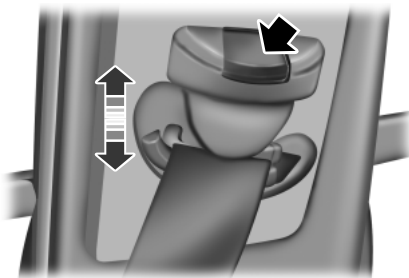
**WARNING:** Do not use extensions to change the fit of the shoulder belt across the torso.

If the safety belt is too short when fully extended, a safety belt extension assembly can be obtained from an authorized dealer.

Use only extensions manufactured by the same supplier as the safety belt. Manufacturer identification is located at the end of the webbing on the label. Also, use the safety belt extension only if the safety belt is too short for you when fully extended.

**SAFETY BELT HEIGHT ADJUSTMENT**

**WARNING:** Position the safety belt height adjusters so that the belt rests across the middle of your shoulder. Failure to adjust the safety belt properly could reduce the effectiveness of the safety belt and increase the risk of injury in a collision.



Adjust the height of the shoulder belt so the belt rests across the middle of your shoulder.

To adjust the shoulder belt height, squeeze the button and slide the height adjuster up or down. Release the button and pull down on the height adjuster to make sure it is locked in place.

**SAFETY BELT WARNING LIGHT AND INDICATOR CHIME**



This lamp illuminates and an audible warning will sound if the driver's safety belt has not been fastened when the vehicle's ignition is turned on.

**Conditions of operation**

If...	Then...
The driver's safety belt is not buckled before the ignition switch is turned to the on position...	The safety belt warning light illuminates 1-2 minutes and the warning chime sounds 4-8 seconds.
The driver's safety belt is buckled while the indicator light is illuminated and the warning chime is sounding...	The safety belt warning light and warning chime turn off.
The driver's safety belt is buckled before the ignition switch is turned to the on position...	The safety belt warning light and indicator chime remain off.

**SAFETY BELT-MINDER®**

This feature supplements the safety belt warning function by providing additional reminders by intermittently sounding a chime and illuminating the safety belt warning light when the driver's or front passenger's seat is occupied and the safety belt is unbuckled.

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 activating the Belt-Minder® feature for objects placed in the front passenger seat, warnings will only be given to front seat occupants as determined by the front passenger sensing system.

If the Belt-Minder® warnings have expired (warnings for approximately five minutes) for one occupant (driver or front passenger), the other occupant can still activate the Belt-Minder® feature.

<b>If...</b>	<b>Then...</b>
The driver's and front passenger's safety belts are buckled before the ignition switch is turned to the on position or less than 1-2 minutes have elapsed since the ignition switch has been turned to on...	The Belt-Minder® feature will not activate.
The driver's or front passenger's safety belt is not buckled when the vehicle has reached at least 6 mph (9.7 km/h) and 1-2 minutes have elapsed since the ignition switch has been turned to on...	The Belt-Minder® feature is activated - the safety belt warning light illuminates and the warning chime sounds for six seconds every 25 seconds, repeating for approximately five minutes or until the safety belts are buckled.
The driver's or front passenger's safety belt becomes unbuckled for approximately one minute while the vehicle is traveling at least 6 mph (9.7 km/h) and more than 1-2 minutes have elapsed since the ignition switch has been turned to on...	The Belt-Minder® feature is activated - the safety belt warning light illuminates and the warning chime sounds for six seconds every 25 seconds, repeating for approximately five minutes or until the safety belts are buckled.

**Deactivating and Activating the Belt-Minder® Feature**

**WARNING:** While the design allows you to deactivate your Belt-Minder®, this system is designed to improve your chances of being safely belted and surviving an accident. We recommend you leave the Belt-Minder® system activated for yourself and others who may use the vehicle. To reduce the risk of injury, do not deactivate/activate the Belt-Minder® feature while driving the vehicle.

**Note:** The driver and front passenger Belt-Minder® are deactivated and activated independently. When deactivating or activating one seating position, do not buckle the other position as this will terminate the process.

*Read Steps 1 - 5 thoroughly before proceeding with the deactivation and activation programming procedure.*

**Note:** The driver and front passenger Belt-Minder® features must be disabled or enabled separately. Both cannot be disabled or enabled during the same key cycle.

**Note:** If you are using MyKey®, the Belt-Minder® cannot be disabled. Also, if the Belt-Minder® has been previously disabled, it will be re-enabled during the use of MyKey®. Refer to the *MyKey®* chapter.

The driver and front passenger Belt-Minder® features can be deactivated and activated by performing the following procedure:

Before following the procedure, make sure that:

- The parking brake is set.
  - The transmission selector lever is in position **P**.
  - The ignition is off.
  - The driver and front passenger safety belts are unbuckled.
1. Switch the ignition on. **DO NOT START THE ENGINE.**
  2. Wait until the safety belt warning light turns off (approximately one minute).
  3. Wait 10 seconds after the safety belt warning light turns off.
- Step 4 must be completed within 20 seconds after the completion of Step 3.

4. For the seating position being disabled buckle then unbuckle the safety belt three times at a moderate speed, ending in the unbuckled state.

- After Step 4, the safety belt warning light will be turned on for three seconds.

5. Within approximately seven seconds of the light turning off, buckle then unbuckle the safety belt.

- This will disable the Belt-Minder® feature for that seating position if it is currently enabled. As confirmation, the safety belt warning light will flash four times per second for three seconds.
- This will enable the Belt-Minder® feature for that seating position if it is currently disabled. As confirmation, the safety belt warning light will flash four times per second for three seconds, followed by three seconds with the light off, then followed by the safety belt warning light flashing four times per second for three seconds again.

#### **CHILD RESTRAINT AND SAFETY BELT MAINTENANCE**

Inspect the vehicle safety belts and child safety seat systems periodically to make sure they work properly and are not damaged. Inspect the vehicle and child seat safety belts to make sure there are no nicks, tears or cuts. Replace if necessary. All vehicle safety belt assemblies, including retractors, buckles, front safety belt buckle assemblies, buckle support assemblies (slide bar-if equipped), shoulder belt height adjusters (if equipped), shoulder belt guide on seatback (if equipped), child safety seat LATCH and tether anchors, and attaching hardware, should be inspected after a collision. Read the child restraint manufacturer's instructions for additional inspection and maintenance information specific to the child restraint. Ford Motor Company recommends that all safety belt assemblies in use in vehicles involved in a collision be replaced. However, if the collision 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. Safety belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

For proper care of soiled safety belts, refer to *Cleaning the Interior* in the *Vehicle Care* chapter.



### **PERSONAL SAFETY SYSTEM™**

The Personal Safety System provides an improved overall level of frontal crash protection to front seat occupants and is designed to help further reduce the risk of airbag-related injuries. The system is able to analyze different occupant conditions and crash severity before activating the appropriate safety devices to help better protect a range of occupants in a variety of frontal crash situations.

Your vehicle's Personal Safety System consists of:

- Driver and passenger dual-stage airbag supplemental restraints.
- Front outboard safety belts with pretensioners, energy management retractors (first row only), and safety belt usage sensors.
- Driver's seat position sensor
- Front passenger sensing system
- Passenger airbag off/on indicator lamp
- Front crash severity sensors.
- Restraints Control Module (RCM) with impact and safing sensors.
- Restraint system warning light and backup tone.
- The electrical wiring for the airbags, crash sensor(s), safety belt pretensioners, front safety belt usage sensors, driver seat position sensor, front passenger sensing system, and indicator lights.


### **How does the Personal Safety System work?**


The Personal Safety System can adapt the deployment strategy of your vehicle's safety devices according to crash severity and occupant conditions. A collection of crash and occupant sensors provides information to the restraints control module. During a crash, the restraints control module may activate the safety belt pretensioners and/or either one or both stages of the dual-stage airbag supplemental restraints based on crash severity and occupant conditions.


## 42      **Supplementary Restraints System**


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### **PRINCIPLES OF OPERATION**


 **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 the vehicle, including the driver, should always properly wear their safety belts, even when an airbag supplemental restraint system is provided.


 **WARNING:** Always transport children 12 years old and under in the back seat and always properly use appropriate child restraints.

 **WARNING:** Never place your arm over the airbag module as a deploying airbag can result in serious arm fractures or other injuries.

 **WARNING:** Airbags can kill or injure a child in a child seat. NEVER place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

 **WARNING:** Do not attempt to service, repair, or modify the airbag supplemental restraint systems or its fuses. Contact your authorized dealer as soon as possible.

 **WARNING:** Several airbag system components get hot after inflation. Do not touch them after inflation.

 **WARNING:** If the airbag has deployed, the airbag will not function again and must be replaced immediately. If the airbag is not replaced, the unrepaired area will increase the risk of injury in a collision.

The airbags are a supplemental restraint system and are designed to work with the safety belts 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 (e.g., 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. While the system is designed to help reduce serious injuries, contact with a deploying airbag may also 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.

#### **SOS POST-CRASH ALERT SYSTEM™**


The system flashes the turn signal lamps and sounds the horn (intermittently) in the event of a serious impact that deploys an airbag equipped on your vehicle such as front, side, side curtain or Safety Canopy®.


The horn and lamps will turn off when:

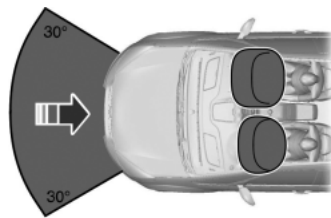
- the hazard control button is pressed
- the panic button is pressed on the remote entry transmitter, or
- the vehicle runs out of power.

## 44 Supplementary Restraints System

### DRIVER AND PASSENGER AIRBAGS


 **WARNING:** Never place your arm or any objects over an airbag module. Placing your arm over a deploying airbag can result in serious arm fractures or other injuries. Objects placed on or over the airbag inflation area may cause those objects to be propelled by the airbag into your face and torso causing serious injury.

 **WARNING:** Airbags can kill or injure a child in a child seat. Never place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.




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

The driver and passenger front airbag system consists of:

- Driver and passenger airbag modules
-  • Crash sensors and monitoring system with readiness indicator. Refer to *Crash sensors and airbag indicator* later in this chapter.
- Front passenger sensing system.

### Proper Driver and Front Passenger Seating Adjustment

 **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 safety belts, it's very important that they continue to sit properly. A properly seated occupant sits upright, leaning against the seat back, and centered 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 is greatly increased.

### Children and Airbags



**WARNING:** Airbags can kill or injure a child in a child seat.

NEVER place a rear-facing child seat in front of an active airbag.

If you must use a forward-facing child seat in the front seat, move the seat all the way back.



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 collision.

### FRONT PASSENGER SENSING SYSTEM



**WARNING:** Even with Advanced Restraints Systems, children 12 and under should be properly restrained in a rear seating position.



**WARNING:** Sitting improperly out of position or with the seat back reclined too far can take off weight from the seat cushion and affect the decision of the front passenger sensing system, resulting in serious injury or death in a crash.

Always sit upright against your seatback, with your feet on the floor.



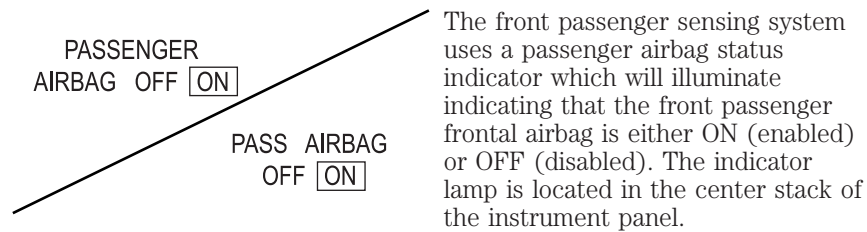
**WARNING:** To reduce the risk of possible serious injury:

Do not stow objects in seat back map pocket (if equipped) or hang objects off seat back if a child is in the front passenger seat. Do not place objects underneath the front passenger seat or between the seat and the center console (if equipped). Check the passenger airbag off or pass airbag off indicator lamp for proper airbag status. Failure to follow these instructions may interfere with the passenger seat sensing system.



**WARNING:** Any alteration or modification to the front passenger seat may affect the performance of the front passenger sensing system.

This system works with sensors that are part of the front passenger's seat and safety belt to detect the presence of a properly-seated occupant and determine if the front passenger's frontal airbag should be enabled (may inflate) or not.



**Note:** The passenger airbag status indicator OFF and ON lamps will illuminate for a short period of time when the ignition is first turned on to confirm it is functional.

The front passenger sensing system is designed to disable (will not inflate) the front passenger's frontal airbag when the front passenger seat is unoccupied, or a rear facing infant seat, a forward-facing child restraint, or a booster seat is detected.

- When the front passenger sensing system disables (will not inflate) the front passenger frontal airbag, the passenger airbag status indicator will illuminate the OFF lamp and stay lit to remind you that the front passenger frontal airbag is disabled.

- If the child restraint has been installed and the passenger airbag status indicator illuminates the ON lamp, then turn the vehicle off, remove the child restraint from the vehicle and reinstall the restraint following the child restraint manufacturer's instructions.

The front passenger sensing system is designed to enable (may inflate) the front passenger's frontal airbag anytime the system senses that a person of adult size is sitting properly in the front passenger seat.

- When the front passenger sensing system enables the front passenger frontal airbag (may inflate), the passenger airbag status indicator will illuminate the ON lamp and remain illuminated.

If a person of adult size is sitting in the front passenger's seat, but the passenger airbag status indicator OFF lamp is lit, it is possible that the person isn't sitting properly in the seat. If this happens:

- Turn the vehicle off and ask the person to place the seatback in the full upright position.
- Have the person sit upright in the seat, centered on the seat cushion, with the person's legs comfortably extended.
- Restart the vehicle and have the person remain in this position for about two minutes. This will allow the system to detect that person and enable the passenger's frontal airbag.
- If the passenger airbag status indicator OFF lamp remains lit even after this, the person should be advised to ride in the rear seat.

Occupant	Passenger Airbag Status Indicator	Passenger Airbag
Empty	Unlit	Disabled
Child	Lit	Disabled
Adult	Unlit	Enabled

**Note:** When the passenger airbag status indicator OFF lamp is illuminated, the passenger side airbag (seat mounted) may be disabled to avoid the risk of airbag deployment injuries.

After all occupants have adjusted their seats and put on safety belts, it's very important that they continue to sit properly. A properly seated occupant sits upright, leaning against the seat back, and centered 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 is greatly increased.

## 48      **Supplementary Restraints System**

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If you think that the state of the passenger airbag status indicator lamp is incorrect, check for the following:

- Objects lodged underneath the seat
- Objects between the seat cushion and the center console (if equipped)
- Objects hanging off the seat back
- Objects stowed in the seatback map pocket (if equipped)
- Objects placed on the occupant's lap
- Cargo interference with the seat
- Other passengers pushing or pulling on the seat
- Rear passenger feet and knees resting or pushing on the seat

The conditions listed above may cause the weight of a properly seated occupant to be incorrectly interpreted by the front passenger sensing system. The person in the front passenger seat may appear heavier or lighter due to the conditions described in the previous list.



To know if the front passenger sensing system is operating properly, refer to *Crash sensors and airbag indicator* later in this chapter.

### **If the airbag readiness light is lit, do the following:**

The driver and/or adult passengers should check for any objects that may be lodged underneath the front passenger seat or cargo interfering with the seat.

If objects are lodged and/or cargo is interfering with the seat; please take the following steps to remove the obstruction:


- Pull the vehicle over.
- Turn the vehicle off.
- Driver and/or adult passengers should check for any objects lodged underneath the front passenger seat or cargo interfering with the seat.
- Remove the obstruction(s) (if found).
- Restart the vehicle.
- Wait at least two minutes and verify that the airbag readiness light in the instrument cluster is no longer illuminated.
- If the airbag readiness light in the instrument cluster remains illuminated, this may or may not be a problem due to the front passenger sensing system.


DO NOT attempt to repair or service the system; take your vehicle immediately to an authorized dealer.





If it is necessary to modify an advanced front airbag system to accommodate a person with disabilities, contact the Ford Customer Relationship Center at the phone number shown in the *Customer Assistance* section of this owner's manual.


### SIDE AIRBAGS

 **WARNING:** Do not place objects or mount equipment on or near the airbag cover, on the side of the seatbacks (of the front seats), or in front seat 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 collision.

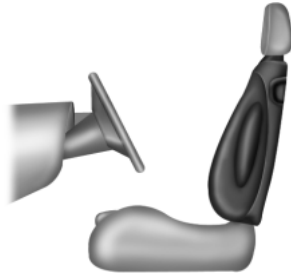
 **WARNING:** Do not use accessory seat covers. The use of accessory seat covers may prevent the deployment of the side airbags and increase the risk of injury in an accident.

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

 **WARNING:** Do not attempt to service, repair, or modify the airbag, its fuses or the seat cover on a seat containing an airbag. Contact your authorized dealer as soon as possible.

 **WARNING:** If the side airbag has deployed, **the airbag will not function again. The side airbag system (including the seat) must be inspected and serviced by an authorized dealer.** If the airbag is not replaced, the unrepaired area will increase the risk of injury in a collision.

The side airbags are fitted on the outboard side of the seatbacks of the front seats. In certain lateral collisions, the airbag on the side affected by the collision will be inflated. The airbag was designed to inflate between the door panel and occupant to further enhance the protection provided occupants in side impact collisions.



The system consists of the following:

- A label or embossed side panel indicating that side airbags are fitted to your vehicle.
- Side airbags located inside the seatback of the driver and front passenger seats.



- Crash sensors and monitoring system with readiness indicator. Refer to *Crash sensors and airbag indicator* later in this chapter.
- Front passenger sensing system

**Note:** The passenger sensing system will deactivate the passenger seat-mounted side airbag if it detects an empty, unbuckled passenger seat.

The design and development of the side airbag system included recommended testing procedures that were developed by a group of automotive safety experts known as the Side Airbag Technical Working Group. These recommended testing procedures help reduce the risk of injuries related to the deployment of side airbags.

### SAFETY CANOPY® CURTAIN AIRBAGS




**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 collision.





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



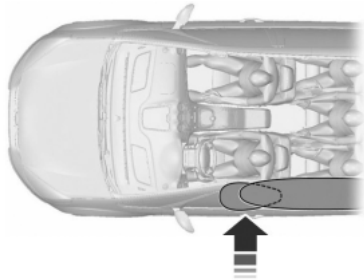
**WARNING:** Do not attempt to service, repair, or modify the curtain airbags, its fuses, the A, B, or C pillar trim, or the headliner on a vehicle containing curtain airbags. Contact your authorized dealer as soon as possible.

 **WARNING:** All occupants of the vehicle including the driver should always wear their safety belts even when an airbag SRS and curtain airbag is provided.

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

 **WARNING:** If the curtain airbags have deployed, **the curtain airbags will not function again. The curtain airbags (including the A, B and C pillar trim and headliner) must be inspected and serviced by an authorized dealer.** If the curtain airbag is not replaced, the unrepaired area will increase the risk of injury in a collision.

The Safety Canopy will deploy during significant side collisions 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 lateral collisions or rollover events, the Safety Canopy will be activated, regardless of which seats are occupied. The Safety Canopy is designed to inflate between the side window area and occupants to further enhance protection provided in side impact collisions and rollover events.



The system consists of the following:

- Safety canopy curtain airbags fitted 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 readiness indicator. Refer to *Crash Sensors and Airbag Indicator* in this chapter.

## 52 Supplementary Restraints System

Children 12 years old and under should always be properly restrained 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.

The design and development of the Safety Canopy included recommended testing procedures that were developed by a group of automotive safety experts known as the Side Airbag Technical Working Group. These recommended testing procedures help reduce the risk of injuries related to the deployment of side airbags (including the Safety Canopy).

### CRASH SENSORS AND AIRBAG INDICATOR



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

The vehicle has a collection of crash and occupant sensors which provide information to the Restraints Control Module (RCM) which deploys (activates) the front safety belt pretensioners, driver airbag, passenger airbag, seat mounted side airbags, and the Safety Canopy®. Based on the type of accident (frontal impact, side impact or rollover) the restraints control module will deploy 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. Refer to *Warning lamps and indicators* in the *Instrument Cluster* chapter. 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 either flash or stay lit.
- The readiness light will not illuminate immediately after the ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and/or light are repaired.

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

The safety belt pretensioners and the airbag supplemental restraint system is designed to activate when the vehicle sustains longitudinal or lateral deceleration sufficient to cause the restraints control module to deploy a safety device or when a certain likelihood of a rollover event is detected by the rollover sensor.

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

- Front airbags are designed to activate only in frontal and near-frontal collisions (not rollovers, side impacts or rear impacts) unless the collision causes sufficient longitudinal deceleration.
- The safety belt pretensioners and rear inflatable safety belts are designed to activate in frontal, near-frontal and side collisions, and in rollovers.
- Side airbags are designed to inflate in side-impact collisions, not rollovers, rear impacts, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration.
- The Safety Canopy is designed to inflate in certain side impact collisions or rollover events, not in rear impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration or rollover likelihood.

**AIRBAG DISPOSAL**

Contact your authorized dealer as soon as possible. Airbags **MUST BE** disposed of by qualified personnel.

**PRINCIPLE OF OPERATION**

The remote control allows you to:

- remotely lock or unlock the vehicle doors
- remotely open the trunk
- remotely start or stop the engine (if equipped)
- arm and disarm the anti-theft system
- activate the panic alarm
- activate the global windows.

**Intelligent Access**

Your vehicle will allow you to unlock and enter your vehicle without actively using a key or remote control. You can use this feature at the front doors or at the liftgate or trunk. You can activate the intelligent access feature as long as you have one of your intelligent access keys within range of the front doors or the liftgate or trunk.

**GENERAL INFORMATION ON RADIO FREQUENCIES**

The remote control complies with part 15 of the FCC rules and with RSS-210 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.

**Note:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The typical operating range for your transmitter is approximately 33 feet (10 meters). Vehicles with the remote start feature will have a greater range. A decrease in operating range could be caused by:

- weather conditions
- nearby radio towers
- structures around the vehicle
- other vehicles parked next to your vehicle.

**Intelligent Access**

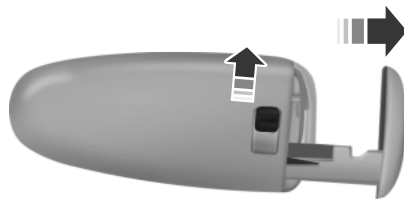
The system uses a radio frequency signal to communicate with your vehicle and authorize your vehicle to unlock when commanded (either by touching the inside of the driver door or front passenger exterior door handle, by activating the exterior power trunk or liftgate button, or a button on the transmitter itself). If excessive radio frequency interface is present in the area, or if the transmitter battery is low, it may be necessary to mechanically unlock your door. The mechanical key blade in your intelligent access key can be used to open the driver's door in this situation. Refer to *Remote Control* in this chapter for more information on the location and use of the mechanical key blade.

**REMOTE CONTROL**

**Intelligent Access Key**



Your vehicle is equipped with two intelligent access keys which operate the power locks and the remote start system. The key must be in the vehicle to activate the push button start system.



The intelligent access key also contains a removable mechanical key blade that can be used to unlock the driver door. Slide the release on the back of the transmitter to release the mechanical key blade, then pull the blade out.



**Note:** Your vehicle's back-up keys were issued with a security tag that provides important vehicle key cut information. Keep the tag in a safe place for future reference.

**Replacing the Battery**

**Note:** Refer to local regulations when disposing of transmitter batteries.

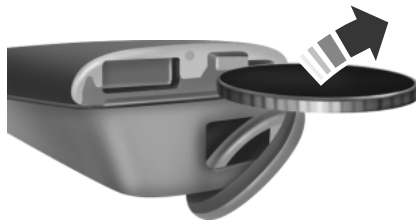
**Note:** Do not wipe off any grease on the battery terminals or on the back surface of the circuit board.

**Note:** Replacing the battery will not delete the transmitter from the vehicle. The transmitter should operate normally.

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

**Intelligent Access Transmitter**

1. Remove the backup key from the transmitter.



2. Twist a thin coin in the slot hidden behind the backup key slot to remove the battery cover.



3. Remove the old battery.

4. Insert the new battery. Refer to the instruction inside the transmitter for the correct orientation of the battery. Press the battery down to make sure it is fully in the housing.

5. Snap the battery cover back onto the transmitter and install the backup key.



### Memory Feature

The feature allows you to recall the driver seat, power mirrors and steering column memory positions.

Press the unlock button on the remote control or activate intelligent access to recall memory. The mirrors will move to the programmed position and the seat will move to the easy entry position. The seat will move to the final position when the ignition is switched out of off (if easy entry feature is enabled).

### Programming Memory To the Transmitter

1. Move the memory features to the desired positions using the associated controls.



2. Press and hold button 1 until a tone is heard to confirm setting. Continue to hold until a second tone is heard.

3. Within three seconds press lock button on the remote control.

4. Wait 10 seconds, then press unlock button on the remote control.

5. Repeat this procedure for another memory button and transmitter if desired.

### Deactivating Memory From the Transmitter

1. Press and hold the desired button for five seconds. A tone will sound when the memory store is done. Continue to hold until a second tone is heard.

2. Within three seconds press the unlock button on the remote control.

3. Repeat this procedure for each additional transmitter if desired.

**Car Finder**

Press the button twice within three seconds. The horn will chirp and the turn signals will flash. It is recommended that this method be used to locate your vehicle, rather than using the panic alarm.

**Sounding a Panic Alarm**

**Note:** The panic alarm will only operate when the ignition is off.



Press the button to activate the alarm. Press the button again or turn the ignition on to deactivate.

**Remote Start**

**WARNING:** To avoid exhaust fumes, do not use remote start if your vehicle is parked indoors or areas that are not well ventilated.

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



Your vehicle has remote start if the transmitter has this button.

The remote start feature allows you to start the engine from outside the vehicle. The transmitter has an extended operating range.

Vehicles with automatic climate control can be configured to operate when the vehicle is remote started. Refer to the *Climate Control* chapter for more information. A manual climate control system will run at the setting it was set to when the vehicle was last turned off.

Many states and provinces have restrictions for the use of remote start. Check your local and state or provincial laws for specific requirements regarding remote start systems.

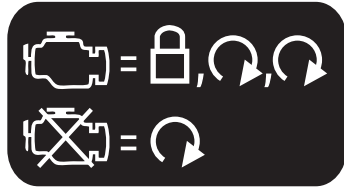
The remote start system will not work if:

- the ignition is on
- the alarm system is triggered
- the feature has been disabled
- the hood is not closed

- two remote vehicle starts have already been attempted within the last hour
- the vehicle is not in P (Park)
- the vehicle battery voltage is too low
- the service engine soon light is on.

### **Remote Starting the Engine**

**Note:** Each button press must be done within three seconds of each other. The vehicle will not remote start if this sequence is not followed and the horn will not chirp.



The label on your transmitter details the starting procedure. To remote start the engine:

1. Press the lock button to lock all the doors.
2. Press the remote start button twice. The exterior lamps will flash twice.

The horn will chirp if the system fails to start (unless quiet start is on). Quiet start will run the blower fan at a slower speed to reduce noise. It can be switched on or off. Refer to the *Information Displays* chapter.

**Note:** If the vehicle has been remote started you must press the START/STOP button on the instrument panel once while applying the brake pedal before driving the vehicle.

The power windows will be inhibited during the remote start and the radio will not turn on automatically.

The parking lamps will remain on and the engine will run for 5, 10, or 15 minutes, depending on the setting. Refer to the *Information Displays* chapter to select the duration of the remote start system.

***Extending the Engine Run Time***

Repeat Steps 1 and 2 with the engine still running to extend the run time for another remote start duration. If you programmed the duration to last 10 minutes, the second 10 minutes will begin after what is left of the first activation time. For example, if the vehicle had been running from the first remote start for five minutes, the engine will continue to run now for a total of 15 minutes. You can only extend the remote start once.

Wait at least five seconds before remote starting after an engine shutdown. Only two remote starts are allowed.

The ignition must be turned on and then back off or allow one hour to pass before using remote start again if additional remote starts are desired.

***Turning the Engine Off After Remote Starting***

Press the button once. The parking lamps will turn off.

You may have to be closer to the vehicle than when starting due to ground reflection and the added noise of the running engine.

You can disable or enable the remote start system through the information display. Refer to the *Information Display* chapter.

**REPLACING A LOST KEY OR REMOTE CONTROL**

Replacement or additional keys or remote controls can be purchased from your authorized dealer. Your dealer can program the transmitters to your vehicle or you may be able to program them yourself. Refer to the *Security* chapter for information on programming your transmitters.

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**PRINCIPLES OF OPERATION**

MyKey® allows you to program keys with restricted driving modes to promote good driving habits. All but one of the keys programmed to the vehicle can be activated with these restricted modes. Any keys that have not been programmed are referred to as an “administrator key” or “admin key” which can be used to:

- create a restricted key
- program optional MyKey settings
- clear all MyKey features altogether.

Once a key has been programmed you can access the following information using the information display control:

- How many admin keys and MyKeys are programmed to the vehicle.
- The total distance the vehicle has been driven with a MyKey.

For vehicles equipped with Intelligent Access Key (push button start), when both a MyKey and an Admin Intelligent Access key (fob) are present, the admin fob will be recognized by the vehicle to start the engine.

**Standard Settings**

These settings cannot be changed.

- Belt-Minder. This cannot be disabled and the five-minute timer does not expire. The audio system is muted when MyKey Belt-Minder is activated.
- Early low fuel. Warnings are displayed in the information display control followed by an audible tone when the fuel tank is at 1/8 tank or less.
- Driver assist features, if equipped on your vehicle, are forced on: Rear parking aid, Blind spot information system (BLIS) with cross traffic alert, Lane departure warning, Forward collision warning system and Satellite radio adult content restriction.

**Optional Settings**

These settings can be configured right after a MyKey is first created or changed afterward with an admin key.

- Vehicle speed limit of 65, 70, 75 and 80 mph (105, 113, 121 and 130 km/h). Visual warnings are displayed followed by an audible tone when vehicle speed has reached the selected top speed.
- Vehicle speed minder of 45, 55 or 65 mph (75, 90, or 105 km/h). Visual warnings are displayed followed by an audible tone when the preselected vehicle speed is exceeded.

- Audio system maximum volume of 45%. A message in the audio system is displayed when attempting to exceed the limited volume. Also, Speed sensitive compensated volume (sscv) feature will be disabled.
- Always on setting. When this is selected, you will not be able to disable AdvanceTrac, 911 Assist or Do not disturb feature (if your vehicle is equipped with these features).

### CREATING A MYKEY

Use the information display control to create a MyKey.

1. Insert the key you want to program into the ignition or, if the vehicle is equipped with push button start, put the intelligent access key in the backup slot; refer to *Starting and Stopping the Engine* chapter for backup slot location.
2. Turn the ignition on.
3. Access the main menu on the information display controls and select Settings, then MyKey by pressing OK or the > button.
4. Press OK to select Create.
5. When prompted hold the OK button until you see a message informing you to label this key as a MyKey. The key will be restricted at the next start.

The key is successfully programmed. Make sure you label it so you can distinguish it from the admin keys.

To program optional settings for the key(s), refer to *Programming/Changing optional settings*.

### Programming/Changing Optional Settings

**Note:** All programmed keys can be cleared within the same key cycle in which a key was programmed, otherwise an admin key is required to clear the keys. To clear all keys, refer to *Clearing all MyKeys*.

You can access the optional settings through the information display control.

1. Turn the ignition on using an admin key.
2. Access the main menu and select Settings, then MyKey.
3. Use the arrow buttons to get to an optional feature.
4. Press OK or > to scroll through settings.
5. Press OK or > to make a selection.

### CLEARING ALL MYKEYS

**Note:** All programmed MyKeys can be cleared within the same key cycle in which a MyKey was created, otherwise an admin key is required to clear the keys.

To clear all MyKeys (which removes all restrictions and returns them to admin key status), use the information display control to do the following:

1. Access the main menu and select Settings, then MyKey.
2. Scroll to Clear All and press the OK button.
3. Hold the OK button until ALL MYKEYS CLEARED is displayed.

### CHECKING MYKEY SYSTEM STATUS

The information display control displays information about keys programmed to the vehicle:

- **MYKEY MILES:** Tracks mileage when a restricted key is used. If mileage does not accumulate as expected, then the key is not being used by the intended user. The only way to reset this to zero is by clearing MyKeys. If the mileage is lower than the last time you checked, then the key system has been recently reset.
- **# MYKEY(S):** Indicates how many restricted keys are programmed to the vehicle. Can also be used to detect deletion of a restricted key.
- **# ADMIN KEY(S):** Indicates how many admin keys are programmed to the vehicle. Can also be used to detect if an additional key has been programmed to the vehicle.

### USING MYKEY WITH REMOTE START SYSTEMS

MyKey is NOT compatible with non-Ford-approved aftermarket remote start systems. If you choose to install a remote start system please see your Ford authorized dealer for a Ford-approved remote start system.

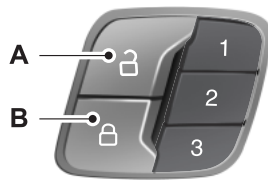
## MYKEY TROUBLESHOOTING

Condition	Potential Causes
I cannot program a key	<ul style="list-style-type: none"> <li>• The key in the ignition does not have admin privileges.</li> <li>• The key in the ignition is the only admin key (there always has to be at least one admin key).</li> <li>• The intelligent access key is not in the backup slot (vehicles with push button start).</li> <li>• SecuriLock passive anti-theft system is disabled or in unlimited mode.</li> </ul>
I cannot program the optional settings	<ul style="list-style-type: none"> <li>• The key in the ignition does not have admin privileges.</li> <li>• No keys are programmed to the vehicle. Refer to <i>Creating a MyKey</i>.</li> </ul>
I cannot clear the MyKey programmed keys	<ul style="list-style-type: none"> <li>• Key in the ignition does not have admin privileges.</li> <li>• No restricted keys are programmed to the vehicle. Refer to <i>Creating a MyKey</i>.</li> </ul>
I lost the only admin key	<ul style="list-style-type: none"> <li>• Purchase a new key from your authorized dealer.</li> </ul>
I lost a key	<ul style="list-style-type: none"> <li>• Program spare keys as outlined under <i>SecuriLock</i> in the <i>Security</i> chapter.</li> </ul>
No restricted key functions with intelligent access key (push button start)	<ul style="list-style-type: none"> <li>• An admin fob is present at engine start-up.</li> <li>• No MyKey programmed keys are programmed to the vehicle. Refer to <i>Creating a MyKey</i></li> </ul>
MyKey miles do not accumulate	<ul style="list-style-type: none"> <li>• The MyKey programmed key is not being used by the intended user.</li> <li>• The key system has been reset.</li> </ul>



**LOCKING AND UNLOCKING**

You can use the power door lock control or the remote control to lock and unlock the vehicle.

**Power Door Locks**

A. Unlock

B. Lock

**Remote Control**

The remote control can be used any time the vehicle is not running.

**Unlocking the Doors (Two-Stage Unlock)**

Press the button to unlock all the doors.

Press the button again within three seconds to unlock all doors. The turn signals will flash.

Press and hold both the lock and unlock buttons on the remote control for four seconds to disable or enable two-stage unlocking. Disabling two-stage unlocking allows all vehicle doors to unlock with one press of the button. The turn signals will flash twice to indicate the unlocking mode was changed. The unlocking mode will be applied to the remote control, keyless entry keypad and intelligent access.

Intelligent access at the driver's door will unlock all doors when two-stage unlocking is disabled.

**Locking the Doors**

Press the button to lock all the doors. The turn signals will illuminate.

Press the button again within three seconds to confirm that all the doors are closed. The doors will lock again, the horn will chirp and the turn signals will illuminate if all the doors and the luggage compartment are closed.

**Note:** If any door or the luggage compartment is not closed, or if the hood is not closed on vehicles equipped with an anti-theft alarm or remote start, the horn will chirp twice and the lamps will not flash.

**Opening the Trunk**

Press the button twice within three seconds to open the trunk.

Make sure the trunk is closed and latched before driving your vehicle. An unlatched trunk may cause objects to fall out or block the driver's rear view.

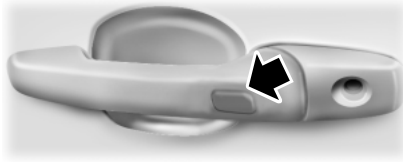
**Activating Intelligent Access**

The intelligent access key must be within 3 feet (1 meter) of the vehicle.

**At the Front Doors**

Pull a front exterior door handle. The door will unlock and can be opened.

Press and hold the door handle lock sensor to lock the vehicle.

**At the Trunk**

Press the exterior trunk release button hidden near the license plate.

**Smart Unlocks**

The smart unlock feature is intended to prevent you from unintentionally locking your intelligent access key inside your vehicle's passenger compartment or rear cargo area.

When you lock your vehicle using the driver or passenger power door lock control (with the door open, vehicle in park and ignition off), after you close the door the vehicle will search for an intelligent access key in the passenger compartment. If an intelligent access key is found inside the vehicle, all of the doors will immediately unlock and the horn will chirp, indicating that the intelligent access key is inside.

In order to override the smart unlock feature and intentionally lock the intelligent access key inside the vehicle, you can lock your vehicle after all doors are closed by using the keyless entry keypad, pressing the lock button on another intelligent access key or touching the locking area on the handle with another intelligent access key in your hand. Refer to *SecuriCode™ Keyless Entry Keypad* in this chapter for more information on keyless entry keypad operation.

When you open one of the front doors and lock the vehicle using the power door lock control, all doors will lock then doors if:

- the ignition is on, or
- the ignition is off and the vehicle is not in P (Park).

#### **Autolock Feature (If Enabled)**

The autolock feature will lock all the doors when:

- all the doors are closed,
- the ignition is on,
- you shift into any gear putting the vehicle in motion, and
- the vehicle attains a speed greater than 12 mph (20 km/h).

The autolock feature repeats when:

- any door is opened then closed while the ignition is on and the vehicle speed is 9 mph (15 km/h) or lower, and
- the vehicle then attains a speed greater than 12 mph (20 km/h).

#### **Autounlock Feature (If Enabled)**

The autounlock feature will unlock all the doors when:

- the ignition is on, all the doors are closed, and the vehicle has been in motion at a speed greater than 12 mph (20 km/h);
- the vehicle has then come to a stop and the ignition is turned off or to accessory; and
- the driver door is opened within 10 minutes of the ignition being turned off or to accessory.

**Note:** The doors will not autounlock if the vehicle has been electronically locked after the ignition is turned off and before the driver door is opened.

#### **Deactivating or Activating**

**Note:** The autolock and autounlock features can be activated or deactivated independently of each other.

These features can be activated or deactivated:

- through your authorized dealer
- by using the information display.

**Illuminated Entry**

The interior lamps, parking lamps and puddle lamps (if equipped) illuminate when the intelligent access key or the keyless entry keypad is used to unlock the vehicle.

The system will turn off the lights if:

- the ignition is turned on
- the lock button on the remote control is pressed
- the vehicle is locked using the keyless entry keypad
- after 25 seconds of illumination.

The lights will not turn off if:

- they have been turned on with the dimmer control
- any door is open.

**Illuminated Exit**

The interior dome lamps, parking lamps and puddle lamps (if equipped) will illuminate when all doors are closed and the ignition is turned off.

The lights will turn off if all the doors remain closed and:

- 25 seconds elapse
- the START/STOP button is pressed.

**Battery Saver**

If the courtesy lamps, dome lamps or headlamps are left on, the battery saver will shut them off 10 minutes after the ignition has been turned off.

**Accessory Mode Battery Saver for Intelligent Access Keys**

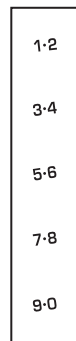
If you shut off the engine and leave the ignition in the on or accessory mode, the ignition will shut off after 30 minutes.

**SECURICODE™ KEYLESS ENTRY KEYPAD**

The keypad, located near the driver's window, is invisible until touched and then it lights up so you can see and touch the appropriate buttons.

**Note:** If you enter your entry code too fast on the keypad, the unlock function may not work. Re-enter your entry code more slowly.

You can use the keypad to:



- lock or unlock the doors
- open the trunk
- recall memory features
- enable or disable the autolock and autounlock
- arm and disarm the anti-theft alarm (if equipped)

The keypad can be operated with the factory set 5-digit entry code; this code is located on the owner's wallet card in the glove box and is available from your authorized dealer. You can also create up to three of your own 5-digit personal entry codes.

**Programming a Personal Entry Code**

To create your own personal entry code:

1. Enter the factory set code.
2. Press the 1•2 on the keypad within five seconds .
3. Enter your personal 5-digit code. Each number must be entered within five seconds of each other.
4. For memory recall feature, enter the sixth digit 1•2 to store driver 1 settings or 3•4 to store driver 2 settings.

**Note:** Pressing 5•6, 7•8, or 9•0 keypad numbers as a sixth digit will not recall a driver memory setting.

**Note:** The factory-set code cannot be associated with a memory setting.

5. The doors will lock then unlock to confirm that your personal entry code has been programmed.

You may also program a personal entry code through the MyFord Touch® / MyLincoln Touch™ system (if equipped). Refer to the *MyFord Touch® / MyLincoln Touch™* chapter.

**Tips:**

- Do not set a code that uses five of the same number.
- Do not use five numbers in sequential order.
- The factory set code will work even if you have set your own personal code.

**Erasing a Personal Code**

1. Enter the factory set 5-digit code.
2. Press and release the 1•2 on the keypad within five seconds.
3. Press and hold the 1•2 for two seconds. This must be done within five seconds of completing Step 2.

All personal codes are now erased and only the factory set 5- digit code will work.

**Anti-Scan Feature**

The keypad will go into an anti-scan mode if the wrong code has been entered seven times (35 consecutive button presses). This mode disables the keypad for one minute and the keypad lamp will flash.

The anti-scan feature will turn off after:

- one minute of keypad inactivity
- pressing the unlock button on the remote control
- the ignition is turned on
- unlocking the vehicle using intelligent access.

**Unlocking and Locking the Doors**

**To unlock the driver's door:** enter the factory set 5-digit code or your personal code. Each number must be pressed within five seconds of each other. The interior lamps will illuminate. **Note:** All doors will unlock if the two-stage unlocking feature is disabled. Refer to *Locking and Unlocking* earlier in this chapter.

**To unlock all doors:** enter the factory set code or your personal code, then press the 3•4 control within five seconds.

**To lock all doors:** press and hold 7•8 and 9•0 at the same time (with the driver's door closed). You do not need to enter the keypad code first.

**TRUNK RELEASE**


Press the button located on the instrument panel.




To open the trunk with the outside release button:

1. Unlock the trunk with the remote control or power door lock control. The trunk will unlock when you press the release button if the intelligent access transmitter is within 3 feet (1 meter) of the trunk.
2. Press the release button located near the license plate.

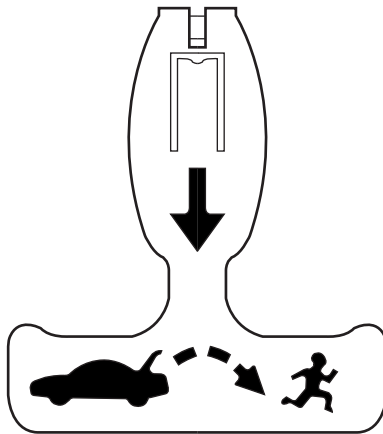
**INTERIOR LUGGAGE COMPARTMENT RELEASE**

 **WARNING:** Keep vehicle doors and luggage compartment locked and keep keys and remote transmitters out of a child's reach. Unsupervised children could lock themselves in the trunk and risk injury. Children should be taught not to play in vehicles.

 **WARNING:** Do not leave children, unreliable adults, or animals unattended in the vehicle. On hot days, the temperature in the trunk or vehicle interior 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.

Your vehicle is equipped with a release handle that provides a means of escape for children and adults if they become locked inside the luggage compartment.

Adults should familiarize themselves with the operation and location of the release handle.



The handle is located inside the luggage compartment either on the luggage compartment door (lid) or near the tail lamps. It is composed of a material that will glow for hours in darkness following brief exposure to ambient light.

Pull the handle and push up on the luggage compartment door (lid) to open from within the luggage compartment.



**SECURILOCK® PASSIVE ANTI-THEFT SYSTEM**

**Note:** The system is not compatible with non-Ford aftermarket remote start systems. Use of these systems may result in vehicle starting problems and a loss of security protection.

**Note:** Metallic objects, electronic devices or a second coded key on the same key chain may cause vehicle starting issues if they are too close to the key when starting the engine. Prevent these objects from touching the coded key while starting the engine. Switch the ignition off, move all objects on the key chain away from the coded key and restart the engine if a problem occurs.

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

The system is an engine immobilization system. It is designed to help prevent the engine from being started unless a coded key programmed to your vehicle is used. Using the wrong key may prevent the engine from starting. A message may appear in the information display.

If you are unable to start the engine with a correctly coded key, a malfunction has happened and a message may appear in the information display.

**Automatic Arming**

The vehicle is armed immediately after switching the ignition off.

**Automatic Disarming**

Switching the ignition on with a coded key disarms the vehicle.

**Replacement Keys**

**Note:** Your vehicle comes equipped with two intelligent access keys.

The intelligent access key functions as a programmed key that operates the driver door lock and activates the intelligent access with push button start systems, as well as a remote control.

If your intelligent access key is lost or stolen and you don't have an extra coded key, you will need to have your vehicle towed to an authorized dealer. The key codes need to be erased from your vehicle and new coded keys will need to be programmed.

Store an extra programmed key away from the vehicle in a safe place to help prevent any inconveniences. See your authorized dealer to purchase additional spare or replacement keys.

### **Programming a Spare Intelligent Access Keys**

**Note:** A maximum of four intelligent access keys can be programmed to your vehicle. You must take your vehicle and all access keys to your authorized dealer to be erased and reprogrammed if you would like to replace a previously programmed access key with a new access key, or if you already have four access keys programmed to your vehicle.

You must have two previously programmed intelligent access keys inside the vehicle and the new unprogrammed intelligent access keys readily accessible. See your authorized dealer to have the spare key programmed if two previously programmed keys are not available.

Make sure that the vehicle is off before beginning this procedure. Make sure that all doors are closed before beginning and that they remain closed throughout the procedure. Perform all steps within 30 seconds of starting the sequence. Stop and wait for at least one minute before starting again if any steps are performed out of sequence.

Read and understand the entire procedure before you begin.



1. Place the new unprogrammed intelligent access key in the pocket inside of the glove box.
2. Press the driver or passenger power door unlock control three times.
3. Press and release the brake pedal one time.
4. Press the driver or passenger power door lock control three times.
5. Press and release the brake pedal one time. The indicator on the START/STOP button should begin to rapidly flash, indicating the programming mode has been entered and two programmed intelligent access keys have been detected in the vehicle.
6. Press the START/STOP button within one minute. A message will appear in the information display indicating that the new intelligent access key was programmed.
7. Remove the intelligent access key from the center console pocket and press the unlock button on the newly programmed intelligent access key to exit programming mode.
8. Verify that the remote entry functions operate (press lock then unlock, making sure you end in unlock) and that the vehicle starts with new intelligent access key.

**ANTI-THEFT ALARM**

The system will warn you of unauthorized entry to your vehicle.

The turn signal lamps will flash and sound the horn up to a total of 10 times when:

- any door, the hood or the liftgate/trunk is opened without using the keypad, the remote control or the intelligent access transmitter
- the ignition is turned on with an invalid key.

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

**Arming the Alarm**

The system is ready to arm whenever the ignition is off. Lock the vehicle to arm the alarm.

The turn signal lamps will flash once after locking the vehicle to indicate the alarm is in the pre-armed mode and will become fully armed in 20 seconds.

Once fully armed, any intelligent access keys found inside the vehicle are disabled and will not start the engine. Press the unlock button to re-enable them.

**Disarming the Alarm**

To disarm the alarm, do any of the following:

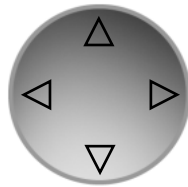
- Press the power door unlock button within the 20-second pre-armed mode will.
- Press the unlock button on the remote control.
- Unlock the doors with the keyless entry pad.
- Enter the vehicle using intelligent access.
- Press the panic button on the remote control. The alarm system will still be armed, but this shuts off the horn and turn lamps when the alarm is sounding.

**Note:** If the driver's door is unlocked with a key, a chime will sound when you open the door and a message will appear in the information display. You will have 12 seconds to disarm the alarm using any of the actions above, otherwise the alarm will trigger.

**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. Refer to *Sitting In the Correct Position* in the *Seats* chapter.



Use the control on the side of the steering column to adjust the position.

To adjust:

- tilt: use the top or bottom of the control
- telescope: use the front or rear of the control.

**Easy Entry and Exit Feature**

The column will move to the full up and in position when the ignition is turned off and this feature is activated through the information display. The column will return to the previous setting when the ignition is turned on.

**Memory Feature**

The steering column positions are saved when doing a memory set function and can be recalled with the memory feature. Refer to the *Seats* chapter.

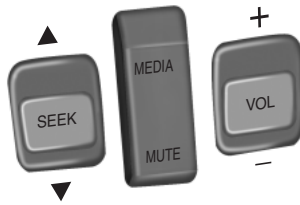
Pressing the adjustment control during memory recall will cancel the operation. The column will respond to the adjustment control.

The steering column is designed to set a stopping position just short of the end of the column position to prevent damage to the steering column. A new stopping position will be set if the steering column encounters an object while tilting.

To reset the steering column to its normal stopping position:

1. Press the steering column control again after encountering the new stopping position.
2. Continue pressing the control until it reaches the end of the column position.

A new stopping position will be set. The steering column will stop just short of the end of the column position the next time it is tilted.

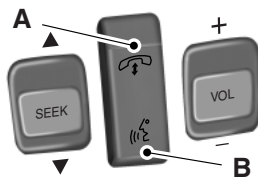
**AUDIO CONTROL**

**SEEK:** Press to select the next or previous stored preset or track. Press and hold to select the next or previous frequency or seek through a track.

**MEDIA:** Press repeatedly to scroll through available audio modes.

**MUTE:** Press to silence the radio.

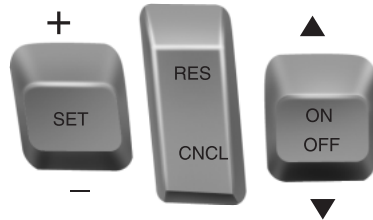
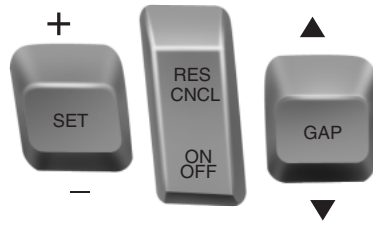
**VOL (Volume):** Press to increase or decrease the volume.

**VOICE CONTROL (IF EQUIPPED)**

A. Phone mode

B. Voice recognition

Refer to the *MyLincoln Touch*™ chapter.

**CRUISE CONTROL****Type 1****Type 2**

Refer to the *Cruise Control* chapter for information on this feature.

### INFORMATION DISPLAY CONTROL



Refer to the *Information Displays* chapter for more information.

### Cluster Display Control Features



Use this control to adjust the right side of the cluster display. Navigate through the screen and press OK to select. Refer to the *MyLincoln Touch™* chapter.

### HEATED STEERING WHEEL (IF EQUIPPED)

Refer to the *MyLincoln Touch™* chapter.

**ADJUSTABLE PEDALS (IF EQUIPPED)**

**WARNING:** Never adjust the accelerator and brake pedal with feet on the pedals while the vehicle is moving.

The control is located on the left side of the steering column. Press and hold the appropriate control to move the pedals.

A. Farther

B. Closer



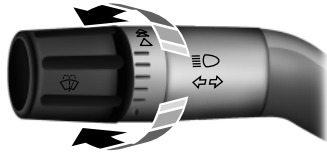
The pedal positions are saved and recalled with the memory feature. Refer to the *Seats* chapter.

The pedals should only be adjusted when the vehicle is parked.



**WINDSHIELD WIPERS**

**Note:** Fully defrost the windshield in icy conditions before turning on the windshield wipers.

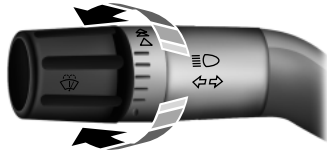


Rotate the end of the control away from you to increase the speed of the wipers. Rotate toward you to decrease the speed of the wipers.

**RAIN-SENSING WIPERS**

**Note:** Wet road conditions may result in inconsistent or unexpected wiping or smearing. Lower the sensitivity, switch to normal or high-speed wiping or turn the wipers off to reduce smearing.

**Note:** Turn off the wipers before entering a car wash.



Use the rotary control to adjust the sensitivity to one of the interval moisture settings. The wipers will not cycle until moisture is detected on the windshield. The wiper speed will vary based on the amount of moisture detected on the windshield and the sensitivity setting. The wipers will continue to wipe as long as moisture is detected.

Keep the outside of the windshield clean, especially the area around the interior mirror where the sensor is located, or sensor performance may be affected.

**WINDSHIELD WASHERS**

**Note:** Do not operate the wipers on a dry windshield. This may scratch the glass, damage the wiper blades or cause the wiper motor to burn out. Always use the windshield washer before wiping a dry windshield.

**Note:** Do not operate the washer when the washer reservoir is empty. This may cause the washer pump to overheat.

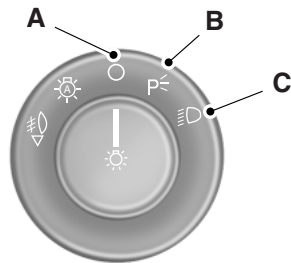


Press the end of the stalk to activate the washer.

- A brief press causes a single wipe without washer fluid.
- A quick press and hold causes the wipers to swipe three times with washer fluid.
- A long press and hold will activate the wipers and washer fluid for up to 10 seconds.

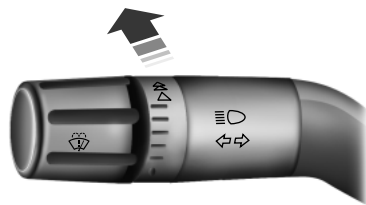
A wipe will occur a few seconds after washing to clear any remaining washer fluid. This feature can be turned on and off in the information display.

**LIGHTING CONTROL**



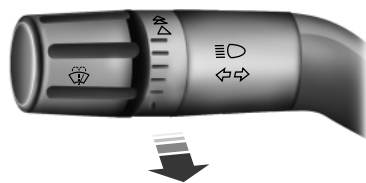
- A. Off
- B. Parking lamps, instrument panel lamps, license plate lamps and tail lamps
- C. Headlamps

**High Beams**



- Push the lever toward the instrument panel to activate.
- Push the lever toward the instrument panel again or pull the lever towards you to deactivate.

**Headlamp Flasher**

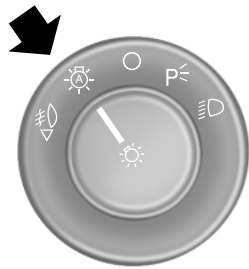


Pull toward you slightly to activate and release to deactivate.

**AUTOLAMPS**

**WARNING:** In severe weather conditions, it may be necessary to switch your headlamps on manually.

**Note:** If the vehicle is equipped with autolamps, it will have the *windshield wiper rainlamp feature*. When the windshield wipers are turned to low- or high-speed wiping during daylight, and the headlamp control is in the autolamp position, the exterior lamps will turn on after a brief delay and will remain on until the wipers are turned off.



The autolamp system provides light sensitive automatic on-off control of the exterior lights normally controlled by the headlamp control.

The headlamps will remain on for a period of time after you switch the ignition off. You can adjust the time delay using the message center in the instrument cluster. See *Information displays*.

**INSTRUMENT LIGHTING DIMMER**

- Press repeatedly or press and hold at the first position until the desired level is reached.
- Fully press and hold the top of the control to activate the “dome on” feature. This will turn on the interior courtesy lights. Fully press and hold the bottom of the control to turn off the interior courtesy lights.

**HEADLAMP EXIT DELAY**

You can set the delay time to keep the headlamps on for up to three minutes after the ignition is turned off.

Follow the steps below to change the delay time (Steps 1 through 6 must be done within 10 seconds):

1. Turn the ignition off.
  2. Turn the lighting control to the autolamp position.
  3. Turn the lighting control to the off position.
  4. Turn the ignition on.
  5. Turn the ignition off.
  6. Turn the lighting control to the autolamp position. The headlamps and parking lamps will turn on.
  7. Turn the lighting control to the off position when the desired delay time has been reached. The headlamps and parking lamps will turn off.
- You can set the headlamp exit delay to one of the following settings:

- Off
- 10 seconds
- 20 seconds
- 30 seconds
- 60 seconds
- 90 seconds
- 120 seconds
- 180 seconds

**Note:** You can also adjust the time delay using the display controls in the instrument cluster. See the *Information Displays* chapter.

**DAYTIME RUNNING LAMPS (IF EQUIPPED)**

**WARNING:** Always remember to turn on your headlamps at dusk or during inclement weather. The Daytime Running Lamp (DRL) system does not activate the tail lamps and generally may not provide adequate lighting during these conditions. Failure to activate your headlamps under these conditions may result in a collision.

The system turns the headlamps on with a reduced output.

To activate:

- the ignition must be in the on position and
- the lighting control is in the off, autolamp, or parking lamp position.
- the transmission is not in P (Park).

#### **AUTOMATIC HIGH BEAM CONTROL (IF EQUIPPED)**

The system will automatically turn on your high beams if it is dark enough and no other traffic is present. When it detects an approaching vehicle's headlights, a preceding vehicle's tail lamps or street lighting, the system will turn off the high beams (low beams remain on) before they distract other drivers.

**Note:** If it appears that automatic control of the high beams is not functioning properly, check the windshield in front of the camera for blockage. A clear view of the road is required for proper system operation. Any windshield damage in the area of the camera field-of-view should be repaired.

**Note:** If a blockage is detected (e.g. bird dropping, bug splatter, snow, or ice) and no changes are observed, the system will go into low beam mode until the blockage is cleared. A message may also appear in the instrument cluster display noting the front camera is blocked.

**Note:** Typical road dust, dirt and water spots will not affect the automatic high beam system's performance. However, in cold or inclement weather conditions, the automatic high beam system's availability may be decreased. If the driver wants to change the beam state independently of the system, the driver may turn the high beams ON or OFF using the multifunction switch stalk. Automatic control will resume when conditions are correct.

**Note:** Modification of the vehicle ride height (e.g. using much larger tires) may degrade feature performance.

A camera sensor is centrally mounted behind the windshield of the vehicle, and monitors the conditions to decide when to switch the high beams off and on.

Once the system is active the high beams will switch on if:

- The ambient light level is low enough that high beams are needed.
- There is no traffic in front of the vehicle
- Vehicle speed must be greater than 25 mph (40 kph)..

- Severe weather is not detected.

The high beams will switch off if:

- An approaching vehicle's headlights or a preceding vehicle's tail lamps are detected.
- The vehicle speed falls below 16 mph (25 kph).
- The ambient light level is high enough that high beams are not needed.
- Severe rain, snow or fog is detected.
- The camera is blocked.

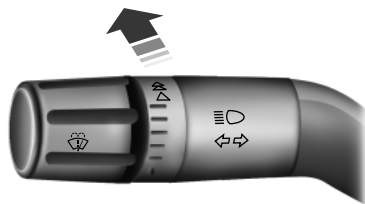
### Activating the system

Switch the system on within the information display. See *Information displays*.



Turn the lighting control to the autolamps position.

### Manually overriding the system



When the automatic control has activated high beams, pushing or pulling the stalk will provide a temporary override to low beam.

To permanently deactivate the system use the information display menu or turn the lighting control switch from autolamps to headlamps.

**FRONT FOG LAMPS**

The fog lamps can be turned on when the lighting control is pulled toward you and in the headlamps, parking lamps or autolamps positions.

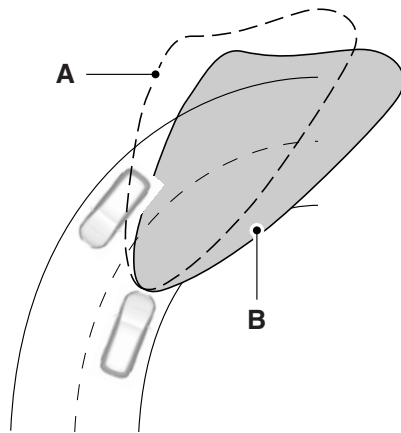
The fog lamps will not operate when the high beams are active.

**ADAPTIVE HEADLAMPS (if equipped)**

The headlamp beams move in the same direction as the steering wheel which provides more visibility when driving around curves.

A. Without adaptive headlamps

B. With adaptive headlamps



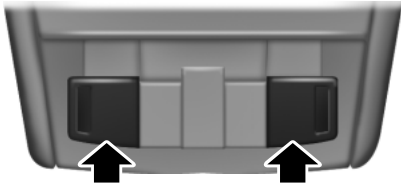
**Note:** The system has a power-up movement check feature. When the vehicle is started, the lamps track left to right, then back to center to alert the driver that the system is working properly. There is a delay of two to five seconds before the adaptive headlamp system will operate when the vehicle is driven, as the system is inactive below 3 mph (5 km/h).



**DIRECTION INDICATORS**

- Push down to activate the left turn signal.
- Push up to activate the right turn signal.

**Note:** Tap the lever up or down to make the direction indicators flash three times to indicate a lane change.

**INTERIOR LAMPS****Front row map lamps**

To turn on the map lamps, press the outer edge of the clear lens. The front row map lamp lights when:

- any door is opened.
- the instrument panel dimmer button is pressed until the courtesy lamp comes on.
- the remote entry controls are pressed and the ignition is off.

**Second row map lamps**

The second row lamps light when:

- any door is opened,
- the top of the instrument panel dimmer switch is pressed until the courtesy lamps come on, and
- any of the remote entry controls are pressed and the ignition is off.

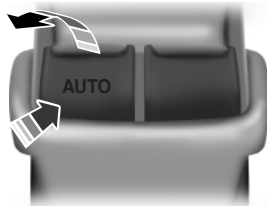
Press the lamp lens to activate the reading lamps.

**POWER WINDOWS**

**WARNING:** Do not leave children unattended in the vehicle and do not let children play with the power windows. They may seriously injure themselves.



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



Press or lift the switches to operate the windows.

- Press the switch to the first detent and hold to open the window.
- Lift the switch to the first detent and hold to close the window.

**Rear Window Buffeting**

You may hear a wind throb or buffeting noise when one or both of the rear windows are open. This noise can be reduced by lowering a front window approximately 2–3 inches (5–8 centimeters).

**One-Touch Up or Down (All Windows)**

This feature automatically opens or closes the window.

Press or lift the switch completely and release. The window will fully open or close. Press or lift it again to stop the window.

**Global Opening and Closing**

**Note:** The ignition must be off and the accessory delay feature must not be activated in order for this feature to operate.

**Note:** This feature can be disabled or enabled by your authorized dealer.


You can open and close the vehicle's windows, and vent the moonroof (if equipped) using the remote control.

**Opening the Windows**

Press and hold the unlock button on the remote control to begin opening the windows and venting the moonroof (if equipped). The power sunscreen will also open.

Press the lock or unlock button on the remote control to stop motion.

**Closing the Windows**

 **WARNING:** Before operating power windows and moonroof, you should verify that they are free of obstructions and ensure that children and/or pets are not in the proximity of window openings.

Press and hold the lock button on the remote control to begin closing the windows and moonroof (if equipped).

Press the lock or unlock button the remote control to stop motion.

**Bounce-Back**

The window will stop automatically while closing and reverse some distance if there is an obstacle in the way.

**Overriding the Bounce-Back Feature**

Pull up the window switch and hold within two seconds of the window reaching the bounce-back position. The window will travel up with no bounce-back protection. The window will stop if the switch is released before the window is fully closed.

**Window Lock**

Press the control to lock or unlock the rear window controls.

**Accessory Delay**

You can use the window switches for several minutes after you turn the ignition off, or until either front door is opened.

**EXTERIOR MIRRORS****Power Exterior Mirrors**

**WARNING:** Do not adjust the mirror while the vehicle is in motion.



- A. Left mirror
- B. Adjustment control
- C. Right mirror

To adjust your mirrors:

1. Press the button to select the mirror you want to adjust. An indicator light on the button will illuminate.
2. Use the adjustment control to adjust the position of the mirror.
3. Press the mirror button again to deselect the mirror. The indicator light will turn off.

**Fold-Away 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.

### Heated Exterior Mirror

**Note:** Do not remove ice from the mirrors with a scraper or attempt to readjust the mirror glass if it is frozen in place. These actions could cause damage to the glass and mirrors.

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

Both mirrors are heated automatically to remove ice, mist and fog when the rear window defrost is activated.

### Memory Mirrors

Mirror positions can be saved and recalled through the memory function. Refer to the *Seats* chapter.

### Auto-Dimming Feature

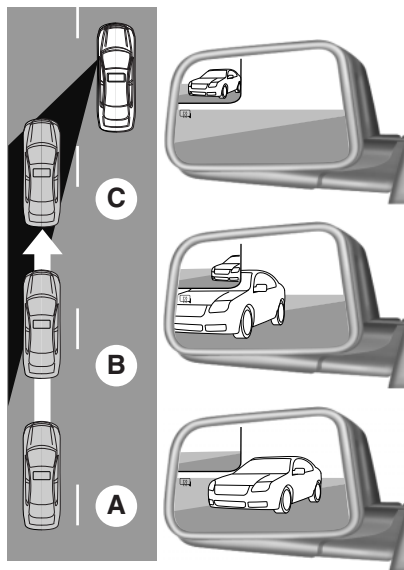
The driver's side exterior mirror will automatically dim when the interior auto-dimming mirror is activated.

**Integrated Blind Spot Mirrors (If Equipped)**

**WARNING:** Objects in the blind spot mirror are closer than they appear.

Blind spot mirrors have an integrated convex mirror built into the upper outboard corner of the exterior mirrors. They are designed to assist you by increasing visibility along the side of your vehicle.

Check the main mirror first before a lane change, then check the blind spot mirror. If no vehicles are present in the blind spot mirror and the traffic in the adjacent lane is at a safe distance, signal that you are going to change lanes. Glance over your shoulder to verify traffic is clear, and carefully change lanes.



The approaching vehicle's image is small and near the inboard edge of the main mirror when it is at a distance. The image becomes larger and begins to move outboard across the main mirror as the vehicle approaches (A). Its image will transition from the main mirror and begin to appear in the blind spot mirror as the vehicle approaches (B). The vehicle will transition to your peripheral field of view as it leaves the blind spot mirror (C).

**Blind Spot Information System (BLIS®) with Cross Traffic Alert (CTA) (If Equipped)**

Refer to *Blind Spot Information System (BLIS®) with Cross Traffic Alert (CTA)* in the *Driving Aids* chapter.

**INTERIOR MIRROR**

**WARNING:** Do not adjust the mirror when your vehicle is moving.

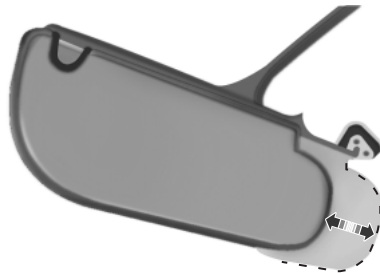
**Note:** Do not clean the housing or glass of any mirror with harsh abrasives, fuel or other petroleum or ammonia based cleaning products.

You can adjust the interior mirror to your preference. Some mirrors also have a second pivot point. This lets you move the mirror head up or down and from side to side.

**Auto-Dimming Mirror**

**Note:** Do not block the sensors on the front and back of the mirror. Mirror performance may be affected. A rear center passenger or raised rear center head restraint may also block light from reaching the sensor.

The mirror will dim automatically to reduce glare when bright lights are detected from behind your vehicle. It will automatically return to normal reflection when you select reverse gear to make sure you have a clear view when backing up.

**SUN VISORS****Slide-On-Rod**

Rotate the visor toward the side window and extend it rearward for extra sunlight coverage.

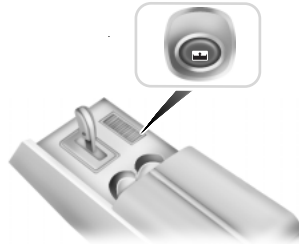
Retract the visor before moving it back toward the windshield and storing it.

**Illuminated Visor Vanity Mirror**

Lift the cover to switch on the lamp.

**SUNSHADE (IF EQUIPPED)**

The power rear sunshade covers the rear window of the vehicle.



The control is located in the center console access bin.

Press the control to move the sunshade up or down.


**Note:** Do not try to manually move the sunshade.


The sunshade has a one-touch down feature. Press and release the control to move the sunshade down. To stop motion during one-touch operation, press the control a second time.

The sunshade will automatically retract when the transmission is shifted into R (Reverse).

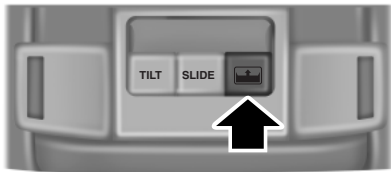


**DUAL PANEL MOONROOF AND POWER SUNSCREEN (IF EQUIPPED)**

 **WARNING:** Do not let children play with the moonroof or leave children unattended in the vehicle. They may seriously hurt themselves.

 **WARNING:** When closing the dual panel moonroof, you should verify that it is free of obstructions and ensure that children and/or pets are not in the proximity of the roof opening.

The moonroof and sunscreen controls are located on the overhead console. The moonroof and sunscreen have a one-touch open and close feature. To stop their motion during one-touch operation, press the control a second time.

**Opening and Closing the Sunscreen**

Press and release the control to open the sunscreen.

**Note:** The sunscreen stops at the first panel for the dual panel moonroof. Press again and release to continue to open the sunscreen past the second panel.

Pull and release the control to close the sunscreen. The moon roof, if open, will automatically close prior to closing the sunscreen.

**Opening and Closing the Moonroof**

Press and release the SLIDE control to open the moonroof. The sunscreen, if closed, will automatically open prior to opening the moonroof.

Pull and release the SLIDE control to close the moonroof.

**Bounce-Back**

The moonroof automatically stops closing and reverses if an obstacle is detected while closing.

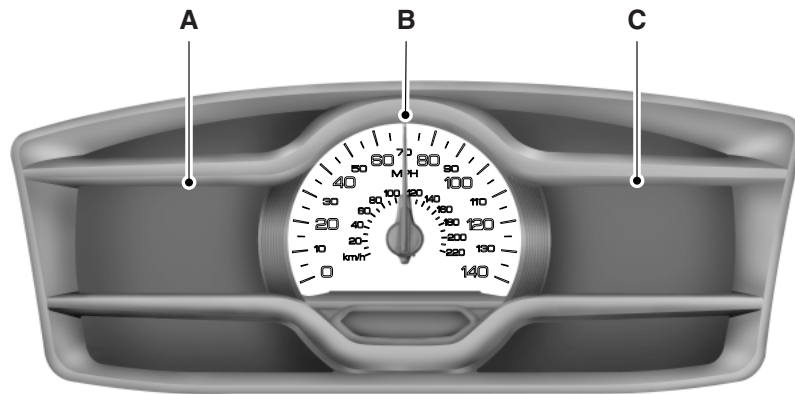
Pull and hold the SLIDE control within two seconds of a bounce-back event to override the function. The closing force begins to increase each of the next three times the moonroof is closed, with bounce-back active.

**Venting the Moonroof**

Press and release the TILT control to vent the moonroof. Pull and release the TILT control to close the moonroof.

**GAUGES**

Cluster shown in standard measure – metric clusters similar.



A. Information display. See *Information displays* for more information.

B. Speedometer

C. Infotainment display. See *MyLincoln Touch™* for more information.

**WARNING LAMPS AND INDICATORS**

There indicators can alert you to a vehicle condition that may become serious enough to cause expensive repairs. Many lights will illuminate when you start your vehicle to make sure they work. If any light remains on after starting the vehicle, refer to the respective system warning light for additional information.

**Note:** Some warning indicators are reconfigurable telltales (RTT). These indicators appear in the information display and function the same as a warning light, but do not display on startup.

**Adaptive cruise control (if equipped) (RTT)**

The speed control system indicator light changes color to indicate what mode the system is in:



- On (white light): Illuminates when the adaptive cruise control system is turned on. Turns off when the speed control system is turned off.
- Engaged (green light): Illuminates when the adaptive cruise control system is engaged. Turns off when the speed control system is disengaged.

**Stability Control System**

Displays when the AdvanceTrac®/Traction control is active. If the light remains on, have the system serviced immediately.

**Stability Control System Off**

Illuminates when AdvanceTrac®/Traction control has been disabled by the driver.

**Airbag readiness**

If this light fails to illuminate when the ignition is turned on, continues to flash or remains on, contact your authorized dealer as soon as possible. A chime will sound when there is a malfunction in the indicator light.

**Anti-lock brake system**

If the ABS light stays illuminated or continues to flash, a malfunction has been detected. Contact your authorized dealer as soon as possible. Normal braking is still functional unless the brake warning light also is illuminated.

**Brake system warning light**

To confirm the brake system warning light is functional, it will momentarily illuminate when the ignition is turned to the on position when the engine is not running, or in a position between on and start, or by applying the parking brake when the ignition is turned to the on position.

If it illuminates when you are driving, check that the parking brake is not engaged. If the parking brake is not engaged, this indicates low brake fluid level or a brake system malfunction. Have the system checked immediately by your authorized dealer.



**WARNING:** Driving a vehicle with the brake system warning light on is dangerous. A significant decrease in braking performance may occur. It will take you longer to stop the vehicle. Have the vehicle checked by your authorized dealer as soon as possible. Driving extended distances with the parking brake engaged can cause brake failure and the risk of personal injury.

**Charging system (RTT)**

Illuminates when the battery is not charging properly. If it stays on while the engine is running, there may be a malfunction with the charging system. Contact your authorized dealer as soon as possible. This indicates a problem with the electrical system or a related component.

**Door ajar (RTT)**

Displays when the ignition is on and any door is not completely closed.

**Engine oil pressure (RTT)**

Illuminates when the oil pressure falls below the normal range.

**Engine coolant temperature (RTT)**

Illuminates when the engine coolant temperature is high. Stop the vehicle as soon as possible, switch off the engine and let cool.

**Fog lamps**

Illuminates when the fog lamps are turned on.

**Grade assist (if equipped) (RTT)**

Illuminates when grade assist is turned on.

**Heads up display (if equipped)**

A red beam of lights will illuminate on the windshield in certain instances when using adaptive cruise control and/or the collision warning system. It will also illuminate momentarily when you start your vehicle to make sure the display works.

**High beams**

Illuminates when the high-beam headlamps are on.

**Lane keeping system (if equipped) (RTT)**

Illuminates when the lane keeping system is activated.

**Low fuel (RTT)**

Illuminates when the fuel level in the fuel tank is at or near empty.

**Low tire pressure warning**

Illuminates when your tire pressure is low. If the light remains on at start up or while driving, the tire pressure should be checked. When the ignition is first turned to on, the light will illuminate for 3 seconds to ensure the bulb is working. If the light does not turn on or begins to flash, contact your authorized dealer as soon as possible.

**Low washer fluid (RTT)**

Illuminates when the windshield washer fluid is low.

**Park lamps**

Illuminates when the park lamps are on.

**Powertrain malfunction/reduced power (RTT)**

Illuminates when a powertrain or an AWD fault has been detected. Contact your authorized dealer as soon as possible.

**Safety belt**

Reminds you to fasten your safety belt. A Belt-Minder® chime will also sound to remind you to fasten your safety belt.

**Service engine soon**

The *service engine soon* indicator light illuminates when the ignition is first turned to the on position to check the bulb and to indicate whether the vehicle is ready for

Inspection/Maintenance (I/M) testing. Normally, the “service engine soon” light will stay on until the engine is cranked, then turn itself off if no malfunctions are present. However, if after 15 seconds the “service engine soon” light blinks eight times, it means that the vehicle is not ready for I/M testing. See the *Readiness for inspection/maintenance (I/M) testing* in the *Fuel and Refueling* chapter.

Solid illumination after the engine is started indicates the on-board diagnostics system (OBD-II) has detected a malfunction. Refer to *On-board diagnostics (OBD-II)* in the *Fuel and Refueling* chapter. If the light is blinking, engine misfire is occurring which could damage your catalytic converter. Drive in a moderate fashion (avoid heavy acceleration and deceleration) and have your vehicle serviced immediately by your authorized dealer.



**WARNING:** Under engine misfire conditions, excessive exhaust temperatures could damage the catalytic converter, the fuel system, interior floor coverings or other vehicle components, possibly causing a fire.

**Speed control (if equipped) (RTT)**

The speed control system indicator light changes color to indicate what mode the system is in:

- On (white light): Illuminates when the speed control system is turned on. Turns off when the speed control system is turned off.
- Engaged (green light): Illuminates when the speed control system is engaged. Turns off when the speed control system is disengaged.

**Turn signal**

Illuminates when the left or right turn signal or the hazard warning flasher is turned on. If the indicators stay on or flash faster, check for a burned out bulb.

**AUDIBLE WARNINGS AND INDICATORS****Key In Ignition Warning Chime**

Sounds when the key is left in the ignition in the off or accessory position and the driver's door is opened.

Sounds when the keyless vehicle is in RUN and the driver's door is opened (if equipped).

**Headlamps On Warning Chime**

Sounds when the headlamps or parking lamps are on, the ignition is off (the key is not in the ignition) and the driver's door is opened.

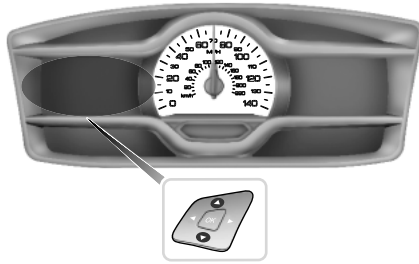
**Parking Brake On Warning Chime**

Sounds when you have left the parking brake on and drive your vehicle. If the warning chime remains on after you have released the parking brake, have the system checked by your authorized dealer immediately.

**GENERAL INFORMATION**

**WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device or feature that may take their focus off the road. Your primary responsibility is the safe operation of the vehicle. We recommend against the use of any handheld device while driving and that you comply with all applicable laws.

Various systems on your vehicle can be controlled using the information display controls on the steering wheel. Corresponding information is displayed in the information display.

**Information Display Controls**

- Press the up and down arrow buttons to scroll through and highlight the options within a menu.
- Press the right arrow button to enter a sub-menu.
- Press the left arrow button to exit a menu.
- Press the OK button to choose and confirm a setting/messages.

**Main menu**

From the main menu bar on the left side of the information display, you can choose from the following categories:



Display Mode



Trip 1 & 2



Fuel Economy





Settings



Information

Scroll up/down to highlight one of the categories, then press the right arrow key or OK to enter into that category. Press the left arrow key as needed to exit back to the main menu.

**Display Mode**



Use the up/down arrow buttons to choose between the following display options.

Display mode	†Option 1	Option 2	Option 3	†Option 4
XXX mi (km) to empty	X			
Fuel gauge	X	X	X	X
Bar tachometer	X			X
Round tachometer		X	X	
Engine coolant temp gauge			X	
Total odometer (lower left corner)	X	X	X	X

†Vehicles with Intelligent AWD only. You can choose to have only the fuel gauge show in this mode. Refer to *Display > Gauge Display* found in the table under the *Settings* section later in this chapter.

Regardless of display mode chosen, when SelectShift Automatic™ transmission (SST) is activated, the cluster will change to the round tachometer if not already selected. After the round tachometer displays, other display modes with the bar tachometer can also be chosen.

- XXX mi (km) to empty: Shows approximate fuel level before the fuel tank reaches empty. The value is dynamic and can change (raise or lower) depending on driving style.
- Fuel gauge: Indicates approximately how much fuel is left in the fuel tank. The fuel gauge may vary slightly when the vehicle is in motion or on a grade. When the fuel level becomes low, the level indicator will change to amber. When the fuel level becomes critically low, the level indicator will change to red.

**Note:** When a MyKey® is in use, low fuel warnings will display earlier. The fuel icon and arrow indicates which side of the vehicle the fuel filler door is located.

- Bar/Round tachometer: Indicates the engine speed in revolutions per minute. Driving with your tachometer pointer continuously at the top of the scale may damage the engine. During SelectShift Automatic™ transmission (SST) use, the currently selected gear will appear in the display.
- Engine coolant temperature gauge: Indicates engine coolant temperature. At normal operating temperature, the level indicator will be in the normal range. If the engine coolant temperature exceeds the normal range, stop the vehicle as soon as safely possible, switch off the engine and let the engine cool.
- Intelligent AWD (if equipped): displays power distribution between the front and rear wheels. More power to either front or rear wheels will be displayed by more area filled in.

### Trip 1 & 2



Choose between the standard or enhanced trip display.

Trip 1 & 2	Standard display	†Enhanced display
Trip distance	X	X
Elapsed trip time	X	X
Average fuel economy		X
Estimated amount of fuel consumed		X
Total odometer (lower left corner)		
Press OK to pause the Trip 1 or 2 screen. Press again to un-pause.		
Press and hold OK to reset the currently displayed trip information.		
†When the vehicle is in P (Park), the enhanced display is always shown regardless of setting.		

- Trip distance — shows the accumulated trip distance.
- Elapsed trip time— timer stops when the vehicle is turned off and restarts when the vehicle is restarted.
- Average fuel economy — shows the average fuel economy for a given trip.

- Estimated amount of fuel consumed — shows the amount of fuel used for a given trip.
- Elapsed trip time — timer stops when the vehicle is turned off and restarts when the vehicle is restarted.

**Fuel Economy**



Use the up/down arrow buttons to choose the desired fuel economy display.

Fuel Economy	Inst Fuel Economy	XX. Min Fuel History
Instantaneous fuel usage	X	
†Fuel usage over a 5, 10, or 30 minute time span		X
Total odometer (lower left corner)		
Press and hold OK to reset the currently displayed fuel usage information.		
†To configure the fuel usage time span, press the right arrow button when in this screen.		

- Inst. Fuel Economy: This display shows a visual graph of your instantaneous fuel economy.
- XX. Min Fuel History: This display shows a bar chart of your fuel history.

**Settings**

In this mode, you can configure different driver setting choices.

**Note:** Some items are optional and may not appear.

<b>Driver Assist</b>		
Traction Control	On (default setting) / Off	
Blindspot	On (default on key cycle) / Off	
Drive Control	Handling in D	Sport / Normal / Comfort
	Handling in S	Sport / Normal
Collision Warning	Sensitivity	High / Normal / Low
	Chimes	On (default on key cycle) / Off
	Warn	On (default on key cycle) / Off
Cross Traffic	On (default on key cycle) / Off	
Cruise Control	Adaptive or Normal	
Driver Alert	On (default on key cycle) / Off	
Front Park Aid	On (default on key cycle) / Off	
Lane Keeping	Mode	Alert / Aid / Both
	Sensitivity	Normal / Increased
	Intensity	High / Normal / Low
Rear Park Aid	On (default on key cycle) / Off	
<b>Vehicle</b>		
Auto Highbeam	On / Off	
Autolamp Delay	Off or number of seconds	
Easy Entry/Exit	On / Off	
DTE Calculation	Normal / Towing	
Locks	Autolock	On / Off
	Autounlock	On / Off
	Remote Unlocking	All doors / Driver's door
Oil Life Reset	Set to XXX %	

Vehicle			
Remote Start	Climate Control (using this feature allows you to select different climate control modes when the vehicle is started using the remote start feature)	Heater – A/C	Auto / Last Settings
		Heated Wheel	Auto / Off
		Front Defrost	Auto / Off
		Rear Defrost	Auto / Off
		Driver Seat	Auto / Off
		Passenger Seat	Auto / Off
	Duration	5 / 10 /15 minutes	
	Quiet Start	On / Off	
	System	Enable / Disable	
Windows	Remote Open	On / Off	
	Remote Close	On / Off	
Wipers	Courtesy Wipe	On / Off	
	Rain Sensing	On / Off	

*MyKey	
Create MyKey	Press and hold OK to create MyKey
911 Assist	Always On / User Selectable
Traction Control	Always On / User Selectable
Max Speed	Choose desired speed or off
Speed Minder	Choose desired speed or off
Volume Limiter	On / Off
Do Not Disturb	Always On / User Selectable
Clear MyKeys	Hold OK to Clear All MyKeys

\*Some MyKey items will only appear if a MyKey is set.

Display	
Gauge Display	Fuel Gauge / Fuel + Tach

<b>Language</b>	
Select your applicable language	
<b>Units</b>	
Distance	Miles & GAL / L/100km / km/L
Temperature	Fahrenheit (°F) / Celsius (°C)

**Information**

In this mode, you can view different vehicle system information and perform a system check.

<b>Warnings</b>	
XX Warnings	Displays the number of warnings that need immediate attention in red. You can only view the warnings from the System Check menu. View them immediately by pressing OK and then OK again to enter system check. Use the up/down arrows to scroll through the warnings.

<b>MyKey</b>	
Admin Keys (Number of admin keys)	
MyKeys (Number of MyKeys programmed)	
MyKey Miles (km) (Distance traveled using a programmed MyKey)	

<b>Driver Alert</b>	
Displays the associated driver alert graphic.	

<b>System Check</b>	
All active warnings will display first if applicable. The system check menu may appear different based upon equipment options and current vehicle status. Use the up/down arrow buttons to scroll through the list.	

**INFORMATION MESSAGES**

**Note:** Depending on the vehicle options equipped with your vehicle, not all of the messages will display or be available. Certain messages may be abbreviated or shortened depending upon which cluster type you have.



Press the OK button to acknowledge and remove some messages from the information display. Other messages will be removed automatically after a short time. When a warning message appears, you must wait two seconds before being able to clear it. Certain messages need to be confirmed before you can access the menus.

**Message indicators:** Some messages will be supplemented by a system specific symbol.

Adaptive Cruise Control Messages	Action / Description
Adaptive Cruise Malfunction	Displayed when a radar malfunction is preventing the ACC from engaging.
Adaptive Cruise Not Available	Displayed when conditions exist such that the adaptive cruise cannot function properly.
Adaptive Cruise Not Available Sensor Blocked	Displayed when the radar is blocked because of poor radar visibility due to bad weather or ice/mud/water in front of radar. Driver can typically clean the sensor to resolve.
AdvanceTrac® / Traction Control Messages	Action / Description
Service AdvanceTrac	Displayed when the AdvanceTrac® system has detected a condition that requires service. Contact your authorized dealer as soon as possible.
Traction control off	Displayed when the traction control has been disabled by the driver.

<b>Alarm/Security Messages</b>	<b>Action / Description</b>
To Stop Alarm, Start Vehicle	Displayed when the perimeter alarm system is armed and the vehicle is entered using the key on the driver's side door. In order to prevent the perimeter alarm system from triggering, the ignition must be turned to start or on before the 12 second chime expires.
<b>AWD Messages</b>	<b>Action / Description</b>
AWD Off	Displayed when the AWD system has been automatically disabled to protect itself. This is caused by operating the vehicle with the compact spare tire installed or if the system is overheating. The AWD system will resume normal function and clear this message after driving a short distance with the road tire re-installed or after the system is allowed to cool.
Check AWD	Displayed in conjunction with the Throttle Control/Transmission/AWD light when the AWD system is not operating properly. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.



<b>Battery and Charging System Messages</b>	<b>Action / Description</b>
Check Charging System	Displayed when the charging system needs servicing. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.
Turn Power Off to Save Battery	Displayed when the battery management system determines that: <ul style="list-style-type: none"> <li>• the battery is at a low state of charge or,</li> <li>• the ignition has been in accessory position or on position with the engine off for approximately 45 minutes.</li> </ul> Turn the ignition off as soon as possible to protect the battery. This message will clear once the vehicle has been started and the battery state of charge has recovered. Turning off unnecessary electrical loads will allow faster battery state-of-charge recovery.
Transport Mode Contact Dealer	Contact your authorized dealer as soon as possible.
Factory Mode Contact Dealer	Contact your authorized dealer as soon as possible.
<b>BLIS® Messages</b>	<b>Action / Description</b>
Blind Spot Not Available Sensor Blocked	Displayed when the blind spot information system/cross traffic alert system sensors are blocked. Driver can typically clean the sensor to resolve.
Blind Spot System Fault	Displayed when a fault with the blind spot information system has occurred. Contact your authorized dealer as soon as possible.
Cross Traffic Not Available Sensor Blocked	Displayed when the blind spot information system/cross traffic alert system sensors are blocked. Driver can typically clean the sensor to resolve.

<b>BLIS® Messages</b>	<b>Action / Description</b>
Cross Traffic System Fault	Displayed when a fault with the cross traffic alert system has occurred. Contact your authorized dealer as soon as possible.
Vehicle Coming From X	Displayed when the blind spot information system with cross traffic alert (CTA) system is operating and senses a vehicle.
<b>Brake System Messages</b>	<b>Action / Description</b>
Brake Fluid Level Low	Indicates the brake fluid level is low and the brake system should be inspected immediately.
Check Brake System	Displayed when the brake system needs servicing. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.
Park Brake Engaged	Displayed when the parking brake is set, the engine is running and the vehicle is driven more than 3 mph (5 km/h). If the warning stays on after the parking brake is released, contact your authorized dealer as soon as possible.
<b>Collision Warning System Messages</b>	<b>Action / Description</b>
Collision Warn Not Available	Displayed when there is a system malfunction with the collision warning system. The system will be disabled. Contact your authorized dealer as soon as possible.
Collision Warn Not Available Sensor Blocked	Displayed when the collision warning system radar is blocked because of poor radar visibility due to bad weather or ice/mud/water in front of the radar. Driver can typically clean the sensor to resolve. Contact your authorized dealer as soon as possible.

<b>Collision Warning System Messages</b>	<b>Action / Description</b>
Collision Warning Malfunction	Displayed when there is a system malfunction with the collision warning system. The system will be disabled. Contact your authorized dealer as soon as possible.
Collision Warning Display Fault	Displayed when there is a system malfunction with the collision warning system display. Contact your authorized dealer as soon as possible.
<b>Door Messages</b>	<b>Action / Description</b>
X Door Ajar	Displayed when a door is not completely closed.
Trunk Ajar	Displayed when the trunk is not completely closed.
<b>Driver Alert Messages</b>	<b>Action / Description</b>
Driver Alert Warning Rest Now	Stop and rest as soon as it is safe to do so.
Driver Alert Warning Rest suggested	Take a rest break soon.
<b>Fuel Messages</b>	<b>Action / Description</b>
Check Fuel Fill Inlet	Displayed when the fuel fill inlet may not be properly closed.
Fuel Level Low	Displayed as an early reminder of a low fuel condition.

Keys and Intelligent Access Messages	Action / Description
No Key Detected	<p>Displayed if the intelligent access key is not detected by the system in the following three scenarios:</p> <ul style="list-style-type: none"> <li>•When the start/stop button is pressed in an attempt to either start the engine or cycle through the ignition states.</li> <li>•When the engine is running and a door is opened then closed.</li> <li>•When the vehicle's speed exceeds 10 mph (16 km/h) for the first time after starting.</li> </ul>
Key Programmed x Keys Total	Displayed during spare key programming, when an intelligent access key is programmed to the system.
Max Number of Keys Programmed	Displayed during spare key programming when the maximum number of keys have been programmed.
Press Brake to Start	Displayed when the start/stop button is pressed without the brake pedal being applied. This is a reminder that the brake pedal must be applied when the start/stop button is pressed in order to start the engine.
Restart Now or Key is Needed	Displayed when the start/stop button is pressed to shut off the engine and a Intelligent Access Key is not detected inside the vehicle.
Accessory Power Active	Displayed when the vehicle is in the accessory ignition state.
Starting System Fault	This message is displayed when there is a problem with your vehicle's starting system. See your authorized dealer for service.

Lane Keeping System Messages	Action / Description
Lane keeping Sys. Malfunction Service required	The system has malfunctioned. Contact your authorized dealer 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 the requires the windshield to be cleaned to operate properly.
Front Camera Malfunction Service Required	The system has malfunctioned. Contact your authorized dealer as soon as possible.
Keep Hands on Steering Wheel	Displayed when the system requests the driver to keep their hands on the steering wheel.
Maintenance Messages	Action / Description
LOW Engine Oil Pressure	Stop the vehicle as soon as safely possible, turn off the engine. Check the oil level. If the warning stays on or continues to come on with your engine running, contact your authorized dealer as soon as possible.
Change Engine Oil Soon	Displayed when the engine oil life remaining is 10% or less.
Oil Change Required	Displayed when the oil life left reaches 0%.
Engine Coolant Over Temp	Displayed when the engine coolant temperature is excessively high.
Washer Fluid Level Low	Indicates the washer fluid reservoir is less than one quarter full. Check the washer fluid level.
Steering Malfunction Service Now	Displays when the steering system needs service. See your authorized dealer.

<b>Maintenance Messages</b>	<b>Action / Description</b>
Service Power Steering	The power steering system has detected a condition that requires service. See your authorized dealer.
Service Power Steering Now	The power steering system has detected a condition within the power steering system that requires service immediately. See your authorized dealer.
Power Steering Assist Fault	The power steering system has disabled power steering assist due to a system error. See your authorized dealer.
<b>MyKey® Messages</b>	<b>Action / Description</b>
MyKey active Drive Safely	Displayed when MyKey® is active.
MyKey not Created	Displayed during key programming when MyKey® cannot be programmed.
Speed Limited to xx MPH/km/h	Displayed when starting the vehicle and MyKey® is in use and the MyKey speed limit is on.
Vehicle Near MyKey Top Speed	Displayed when a MyKey® is in use and the MyKey speed limit is on and the vehicle speed is near the selected top speed.
Check Speed Drive Safely	Displayed when a MyKey® is in use and the optional setting is on and the vehicle exceeds a preselected speed.
Buckle Up to Unmute Audio	Displayed when a MyKey® is in use and Belt-Minder® is activated.
Could Not Program Key	Displayed when an attempt is made to program a spare key using two existing MyKeys.
Lane Keeping Aid On MyKey Setting	Displayed when the lane keeping aid is on per MyKey settings.

<b>Park Aid Messages</b>	<b>Action / Description</b>
Check Park Aid	Displayed when the transmission is in R (Reverse) and the park aid is disabled.
Check Rear Park Aid	Displayed when the transmission is in R (Reverse) and the park aid is disabled.
Rear Park Aid On Off	Displays the rear park aid status.
<b>Passenger Sensing System Message</b>	<b>Action / Description</b>
Remove Objects Near Passenger Seat	Displayed when objects are by the passenger seat. After the objects are moved away from the seat, if the warning stays on or continues to come on contact your authorized dealer as soon as possible.
<b>Reminder Messages</b>	<b>Action / Description</b>
Steering Lock Turn Wheel to Unlock	Displays when you need to turn the steering wheel in order to disengage the steering lock.
Shift to Park	Displayed when the engine is turned off and shift select lever is in any position other than P (Park).
<b>Tire Messages</b>	<b>Action / Description</b>
Low Tire Pressure	Displays when one or more tires on your vehicle have low tire pressure.
Tire Pressure Monitor Fault	Displays when the tire pressure monitoring system is malfunctioning. If the warning stays on or continues to come on, contact your authorized dealer.
Tire Pressure Sensor Fault	Displayed when a tire pressure sensor is malfunctioning, or your spare tire is in use. For more information on how the system operates under these conditions, refer to <i>Tire Pressure Monitoring System (TPMS)</i> in the <i>Wheels and tires</i> chapter . If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.

**GENERAL AUDIO INFORMATION****Radio Frequencies and Reception Factors**

AM and FM frequencies are established by the Federal Communications Commission (FCC) and the Canadian Radio and Telecommunications Commission (CRTC). Those frequencies are:

AM: 530, 540–1700, 1710 kHz

FM: 87.9–107.7, 107.9 MHz

<b>Radio reception factors</b>	
<b>Distance/Strength</b>	The further you travel from an FM station, the weaker the signal and the weaker the reception.
<b>Terrain</b>	Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.
<b>Station overload</b>	When you pass a ground-based broadcast repeating tower, a stronger signal may overtake a weaker one and result the audio system muting.

**CD/CD Player Information**

**Note:** CD units are designed to play commercially pressed 4.75 in (12 cm) audio compact discs only. Due to technical incompatibility, certain recordable and re-recordable compact discs may not function correctly when used in Ford CD players.

**Note:** CDs with homemade paper (adhesive) labels should not be inserted into the CD player as the label may peel and cause the CD to become jammed. It is recommended that homemade CDs be identified with permanent felt tip marker rather than adhesive labels. Ballpoint pens may damage CDs. Please contact your authorized dealer for further information.

**Note:** Do not use any irregularly shaped discs or discs with a scratch protection film attached.

Always handle discs by their edges only. Clean the disc with an approved CD cleaner only, wiping from the center of the disc toward the edge. Do not clean in a circular motion.



Do not expose discs to direct sunlight or heat sources for extended periods of time.

### MP3 Track and Folder Structure

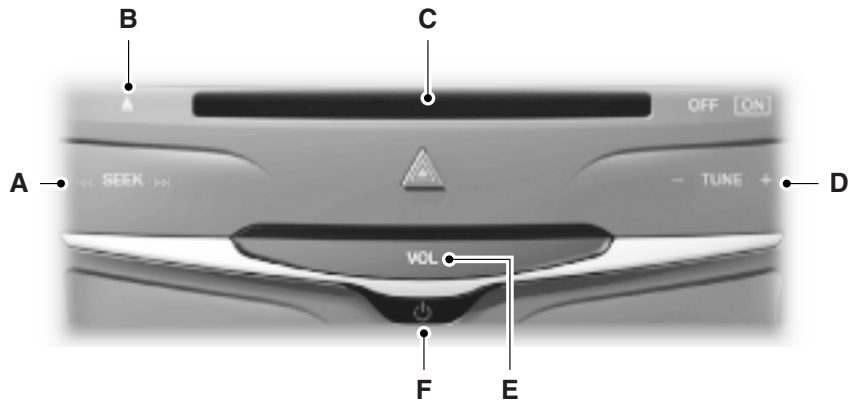
Audio systems capable of recognizing and playing MP3 individual tracks and folder structures work as follows:

- There are two different modes for MP3 disc playback: MP3 track mode (system default) and MP3 folder mode.
- MP3 track mode ignores any folder structure on the MP3 disc. The player numbers each MP3 track on the disc (noted by the .mp3 file extension) from T001 to a maximum of T255. **Note:** The maximum number of playable MP3 files may be less depending on the structure of the CD and exact model of radio present.
- MP3 folder mode represents a folder structure consisting of one level of folders. The CD player numbers all MP3 tracks on the disc (noted by the .mp3 file extension) and all folders containing MP3 files, from F001 (folder) T001 (track) to F253 T255.
- Creating discs with only one level of folders helps with navigation through the disc files.

If you are burning your own MP3 discs, it is important to understand how the system reads the structures you create. While various files may be present, (files with extensions other than mp3), only files with the .mp3 extension are played; other files are ignored by the system. This enables you to use the same MP3 disc for a variety of tasks on your work computer, home computer and your in-vehicle system.

In track mode, the system displays and plays the structure as if it were only one level deep (all .mp3 files are played, regardless of being in a specific folder). In folder mode, the system only plays the .mp3 files in the current folder.

## AM/FM/Single CD Premium Audio System



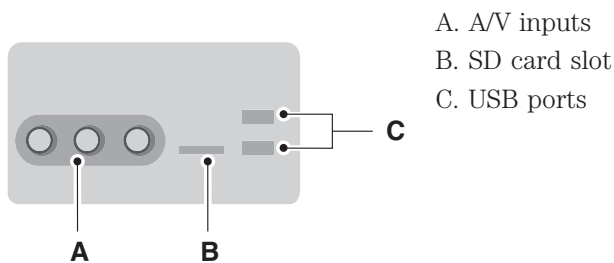
**!** **WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that you use extreme caution when using any device or feature that may take your focus off the road. Your primary responsibility is the safe operation of the vehicle. We recommend against the use of any handheld device while driving, encourage the use of voice-operated systems when possible and that you become aware of applicable state and local laws that may affect use of electronic devices while driving.

**Note:** Most of the audio features are controlled through the MyLincoln Touch™ system. Refer to the *MyLincoln Touch™* chapter for more information.

When you select:	You can:
A. Seek/Reverse/Fast Forward	<b>In radio mode</b> , select a frequency band and press one of the seek buttons. The system stops at the first station it finds in that direction. <b>In SIRIUS mode</b> , select the previous or next channel. If a specific category is selected, (Jazz, Rock, News, etc.), use the SEEK buttons find to the previous or next channel in the selected category. <b>In CD mode</b> , select the previous or next track.
B. Eject	Eject a CD.
C. CD Slot	Insert a CD.
D. TUNE +/TUNE -	<b>In radio mode</b> , you can search the frequency band in individual increments. <b>In SIRIUS mode</b> , you can find the next or previous available SIRIUS satellite station.
E. Volume	Press the right or left side, or slide your finger across the control, to adjust the volume up or down.
F. Power	Press the power control to turn the system on and off.

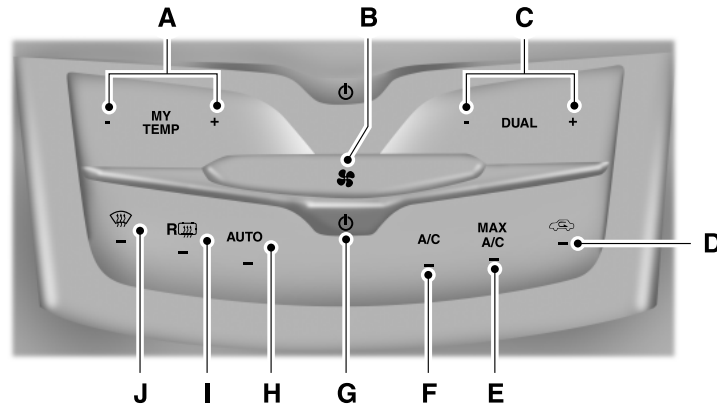
**MEDIA HUB**

The media hub is located in the center console and has the following features:



For more information, refer to the MyLincoln Touch™ material.

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**DUAL AUTOMATIC TEMPERATURE CONTROL SYSTEM**


**Note:** You can switch temperature units between Fahrenheit and Celsius. Refer to *Menu* in the *MyLincoln Touch™* chapter.

A. **MyTemp:** Allows you to quickly adjust to a frequently used setting with a single touch.

Press + and - to increase and decrease the temperature.

Touch and hold MyTemp to save the current temperature. To access the setting again, touch the MyTemp indicator again.

B. **Fan speed control:** Slide your finger over the rear slider area to increase or decrease the fan speed.

C. **DUAL:** Allows the passenger to set their temperature independent of the driver temperature.

D. **Recirculated air:** Press the button to switch between outside air and recirculated air. When the LED on the button is lit, the air currently in the passenger compartment is being recirculated. Using recirculated air can reduce the time needed to cool the interior and reduce unwanted odors from entering your vehicle.

**Note:** Recirculated air engages automatically when MAX A/C is selected or can be turned on manually in any airflow mode except Defrost.

E. **MAX A/C:** Distributes recirculated air through the instrument panel vents to cool the vehicle. This position is more economical and efficient than normal A/C.

F. **A/C:** Press the button to turn air conditioning on or off. Air conditioning cools the vehicle using outside air. To improve air conditioning when starting your vehicle, drive with the windows slightly open for two to three minutes.

Use A/C with recirculated air to improve cooling performance and efficiency.

**Note:** A/C turns on automatically in MAX A/C, Defrost and Floor/Defrost.

G. **Power:** Press to turn the system on and off. When the system is off, outside air is prevented from entering the vehicle.

H. **AUTO:** Press the button to turn on fully automatic operation. Select the desired temperature using the temperature control. The system automatically determines fan speed, air distribution, A/C operation, and outside or recirculated air, to heat or cool the vehicle to maintain the selected temperature.

I. **Rear defrost:** Turns the heated rear window on and off. Refer to *Heated rear window* later in this chapter for more information. If your vehicle is equipped with heated mirrors, this button turns them on also.

J. **Defrost:** Distributes air through the windshield defroster vents and de-mister vents. This setting can also be used to defog and clear the windshield of a thin covering of ice.

#### GENERAL OPERATING TIPS

- To reduce fog build-up on the windshield during humid weather, select Defrost. Temperature and fan speed can also be increased to improve clearing.
- To reduce humidity build-up inside the vehicle, do not drive with the system off or with recirculated air engaged.
- Do not put objects under the front seats that will interfere with the airflow to the back seats.
- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the A/C cool down, drive with the windows slightly open for 2-3 minutes after start up or until the vehicle has been aired out.
- A small amount of air may be felt from the floor vent regardless of the air distribution setting that is selected.

During extreme high ambient temperatures when idling stationary for extended periods of time in gear, it is recommended to run the A/C in the MAX A/C mode, adjust the blower fan speed to the lowest setting and put the vehicle's transmission into the P (Park) position to continue to receive cool air from your A/C system.

For maximum cooling performance MAX A/C in AUTO, press MAX A/C.

For maximum cooling performance MAX A/C in manual override control:

1. Choose Panel, A/C, and recirculation controls.
2. Set the temperature to LO.
3. Set the fan to the highest blower setting.

To aid in side window defogging/demisting in cold or humid weather:

1. Select Defrost or Floor/Defrost mode. To maximize performance select Defrost.
2. Select A/C.
3. Adjust the temperature control to maintain comfort.
4. Set the fan speed to the highest setting.

#### **HEATED REAR WINDOW**

**Note:** The ignition must be on to use this feature.

Press the control to clear the rear window of thin ice and fog. Press the control again within 10 minutes to switch it off. It turns off automatically after 10 minutes, or when you switch the ignition off.

**Do not use razor blades or other sharp objects to clean the inside of the rear window or to remove decals from the inside of the rear window. This may cause damage to the heated grid lines and will not be covered by your warranty.**

**CABIN AIR FILTER**

**Note:** A cabin air filter must be installed at all times to prevent foreign objects from entering the system. Running the system without a filter in place could result in degradation or damage to the system.

Your vehicle is equipped with a cabin air filter, which is located just in front of the windshield under the cowl grille on the passenger side of the vehicle.

The particulate air filtration system is designed to reduce the concentration of airborne particles such as dust, spores and pollen in the air being supplied to the interior of the vehicle. The particulate filtration system gives the following benefits to customers:

- Improves the customer's driving comfort by reducing particle concentration
- Improves the interior compartment cleanliness
- Protects the climate control components from particle deposits

For more information regarding the interval at which you should replace the cabin air filter, refer to the *Scheduled Maintenance* chapter.

For additional cabin air filter information, or to replace the filter, see an authorized dealer.

**REMOTE START CLIMATE OPERATION (IF EQUIPPED)**

The climate control system adjusts the cabin temperature during remote start.

You cannot adjust the system during remote start operation. Turn the ignition on to return the system to its previous settings. You can now make adjustments. You will need to turn certain vehicle-dependent features back on, such as:

- Heated seats
- Cooled seats
- Heated steering wheel
- Heated mirrors
- Heated rear window.

You can adjust the settings using the information display controls. See the *Information Displays* chapter.

**Automatic Climate Systems*****Automatic Settings***

You can set the climate control to operate in AUTO mode through the information display setting: Remote Start > Climate Control > Heater – A/C > Auto. The climate control system automatically sets the interior temperature to 72°F (22°C).

In hot weather, the system is set to 72°F (22°C). Cooled seats are set to high (if available, and selected to AUTO in the information display).

In moderate weather, the system either heats or cools (based on previous settings). The rear defroster, heated mirrors and heated/cooled seats are not automatically turned on.

In cold weather, the system is set to 72°F (22°C). The heated seats and heated steering wheel are set to high (if available, and selected to AUTO in the information display). The rear defroster and heated mirrors are automatically turned on.

***Last Settings***


You can set the climate control to operate using the last climate control settings through the information display setting: Remote Start > Climate Control > Heater – A/C > Last Settings. The climate control system automatically uses the settings last selected before the vehicle was turned off.


***Heated and Cooled Devices***


The climate control system controls other heated and cooled devices inside the vehicle. These devices (if available, and selected to AUTO in the information displays) may also be switched on during remote start. Heated devices are typically switched on during cold weather, and cooled devices during hot weather.

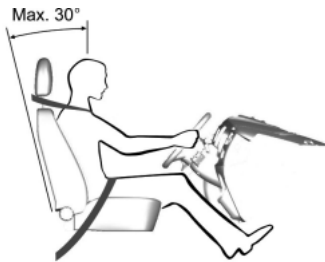


**SITTING IN THE CORRECT POSITION**

 **WARNING:** Sitting improperly out of position or with the seatback reclined too far can take off weight from the seat cushion and affect the decision of the passenger sensing system, resulting in serious injury or death in a crash. Always sit upright against your seatback, with your feet on the floor.

 **WARNING:** Do not recline the seatback as this can cause the occupant to slide under the seat's safety belt, resulting in severe personal injury in the event of a collision.

 **WARNING:** Do not place objects higher than the seatbacks to reduce the risk of injury in a collision or during heavy braking or when stopping suddenly.



When you use them properly, the seat, head restraint, safety belt and airbags will provide optimum protection in the event of a collision. We recommend that you follow these guidelines:

- Do not recline the seatback more than 30 degrees from vertical.
- Sit in an upright position with the base of your spine as far back as possible.
- Adjust the head restraint so that the top of it is level with the top of your head and as far forward as possible, remaining comfortable.
- Keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 10 inches (250 mm) between your breastbone and the airbag cover.
- Hold the steering wheel with your arms slightly bent.
- Bend your legs slightly so that you can press the pedals fully.

- Position the shoulder strap of the safety belt 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.

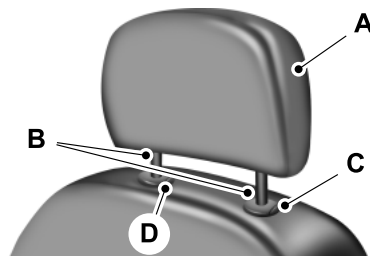
### HEAD RESTRAINTS

**WARNING:** To minimize the risk of neck injury in the event of a crash, the driver and passenger occupants should not sit in and/or operate the vehicle, until the head restraint is placed in its proper position. The driver should never adjust the head restraint while the vehicle is in motion.

**WARNING:** The adjustable head restraint is a safety device. Whenever possible it should be installed and properly adjusted when the seat is occupied.

**WARNING:** Install the head restraint properly to minimize the risk of neck injury in the event of a crash.

#### Front seat head restraints



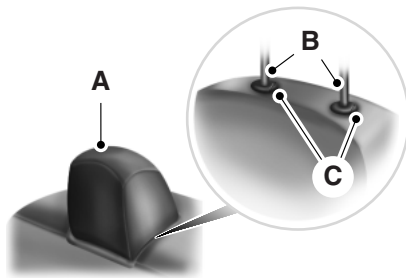
The head restraints consist of:

- An energy absorbing head restraint
- Two steel stems
- Guide sleeve adjust/release button
- Guide sleeve unlock/remove button

**Note:** Before adjusting any head restraint, adjust the seatback to an upright driving/riding position. Properly adjust the head restraint so that the top of the head restraint is even with the top of your head and positioned as close as possible to the back of your head. For occupants of extremely tall stature, adjust the head restraint to its full up position. To adjust the head restraint, do the following:

- **Raise:** pull up on the head restraint (A).
- **Lower:** press and hold the guide sleeve adjust/release button (C) and push down on the head restraint (A).
- **Remove:** Pull up the head restraint until it reaches the highest adjustment position and then press and hold both the adjust/release button (C) and the unlock/remove button (D), then pull up on the head restraint.
- **Reinstall:** Align the steel stems into the guide sleeves and push the head restraint down until it locks.

#### Rear seat non-adjustable outboard head restraints



The head restraints consist of:

- A. An energy absorbing head restraint
- B. Two steel stems
- C. Guide sleeve unlock/remove button

- **Remove:** Simultaneously press and hold both unlock/remove buttons (C), then pull up on the head restraint.
- **Reinstall:** Align the steel stems into the guide sleeves and push the head restraint down until it locks.

**Tilting Head Restraints (If Equipped)**

The front head restraints may have a tilting feature for extra comfort. To tilt the head restraint, do the following:





1. Adjust the seatback to an upright driving/riding position.
2. Tilt the head restraint forward by gently pulling the top of the head restraint.

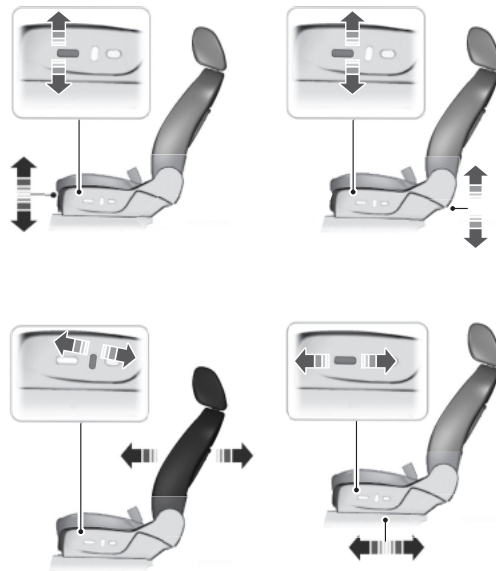
Once it is in its forward-most position, tilting it forward once more will release it to the upright position.

**Note:** Do not attempt to force the head restraint backward after it is tilted. Instead, continue tilting it forward until the head restraint releases to the upright position.

**POWER SEATS**

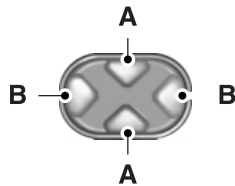
 **WARNING:** Never adjust the driver's seat or seatback when the vehicle is moving.

 **WARNING:** Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback.



**Note:** On vehicles with memory seats, to prevent damage to the seat, the power seats are designed to set a stopping position just short of the end of the seat track. If the seat encounters an object while moving forward or backward, a new stopping position will be set. To reset the seat to its normal stopping position:

- After encountering the new stopping position, press the power seat control again to override
- Continue pressing the control until it reaches the end of the seat track.
- Continue pressing the control for approximately two seconds; you will feel the seat bounce back slightly.



### Power lumbar

A. Press the top of the control to raise the height of the lumbar support. Press the bottom of the control to lower the height of the lumbar support

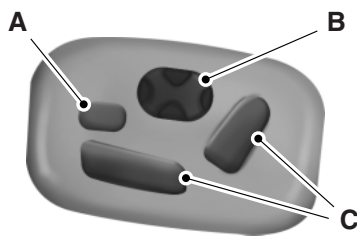
B. Press the front of the control to adjust firmness. Press the rear of the control to adjust softness.

### Multi-contour Active Motion™ Seat (if equipped)

**Note:** The massage system will turn off after 20 minutes.

**Note:** The engine must be running or the vehicle must be in accessory mode to activate the seats.

**Note:** Allow a few seconds for any selection to activate. The seatback and cushion massage cannot function at the same time.



A. Cushion and seatback massage control

B. Lumbar control

C. Power seat controls

- **Seat cushion massage:** Push and release the front portion of the massage control (A). Press again to cancel or press the lumbar control to cancel.
- **Seatback massage:** Push and release the rear portion of the massage button (A). Press again to cancel or press the lumbar control to cancel.
- **Lumbar selection:** Press either up or down on the lumbar control (B) to select the top, middle, or bottom part of the seat back.
- **Lumbar adjust:** Push and hold the front of the lumbar control (B) to increase the firmness of the selected portion of the seatback or push and hold the rear of the lumbar to decrease the firmness.
- **Power seat controls (C)**

We recommend first selecting the lumbar to the desired setting and then selecting the back or cushion massage setting.

**MEMORY FUNCTION**

The memory control, located on the driver's door, allows positioning recall of the:

- Driver seat
- Power mirrors
- Adjustable pedals (if equipped)
- Power tilt/telescopic steering column (if equipped)

**Programming a memory position**

**Note:** A memory position may be programmed at any time.

- To program a position, move the memory features to the desired positions using the associated controls. Press and hold the desired memory button for at least two seconds. A chime will sound confirming that a memory position has been set.
- To program another position, repeat the previous procedure using the other buttons.

**Recalling a memory position**

A programmed memory position can be recalled:

- in any transmission selector lever position if the ignition is not on.
- only in position **P** or **N** if the ignition is on.

Press the desired memory control to recall a memory position.

**Recalling a memory position with the remote control**

The memory positions are also recalled when you press unlock on your remote control (if the transmitter is programmed to a memory position) or, when you enter a valid personal entry code that is programmed to a memory position. If the easy entry feature is enabled, the seat will first move to the easy entry position. The seat will move to the final position when the key is in the ignition or when the push button start system is put in accessory mode/started.

To program the memory feature to a remote control, refer to *Keys and remote control*.

**Easy access/easy out feature**

This feature automatically moves the steering wheel all the way up and in and moves the driver's seat rearward 2 in. (5 cm) when:

- the transmission selector lever is in position **N** or **P**
- the ignition is turned off

The seat and steering wheel will move to the original position when:

- the transmission selector lever is in position **N** or **P**
- the ignition is put in accessory mode/started

The easy entry feature can be turned off or on through the vehicle message center. Refer to the *Information Displays* chapter.

**HEATED AND COOLED SEATS****Heated Seats**

**WARNING:** Persons who are unable to feel pain to the skin because of advanced age, chronic illness, diabetes, spinal cord injury, medication, alcohol use, exhaustion, or other physical conditions, must exercise care when using the seat heater. The seat heater may cause burns even at low temperatures, especially if used for long periods of time. Do not place anything on the seat that insulates against heat, such as a blanket or cushion, because this may cause the seat heater to overheat. Do not puncture the seat with pins, needles, or other pointed objects because this may damage the heating element which may cause the seat heater to overheat. An overheated seat may cause serious personal injury.

**Note:** Do not do the following:

- Place heavy objects on the seat
- Operate the seat heater if water or any other liquid is spilled on the seat. Allow the seat to dry thoroughly.

The heated seats will only function when the engine is running.



To operate the heated seats:



Press the heated seat symbol located on the touchscreen to cycle through the various heat settings and off. Warmer settings are indicated by more indicator lights.

If the engine falls below 350 rpms while the heated seats are on, the feature will turn itself off and will need to be reactivated.

### Cooled Seats

The cooled seats will only function when the engine is running.

To operate the cooled seats:



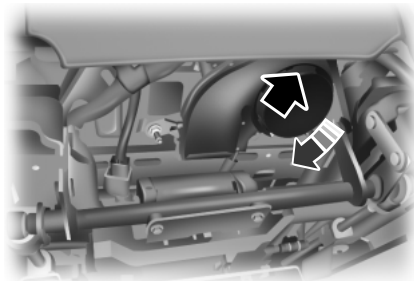
Press the cooled seat symbol located on the touchscreen to cycle through the various cooling settings and off. Cooler settings are indicated by more indicator lights.

If the engine falls below 350 rpms while the cooled seats are on, the feature will turn itself off and will need to be reactivated.

### Heated and Cooled Seat Air Filter Replacement (If Equipped)

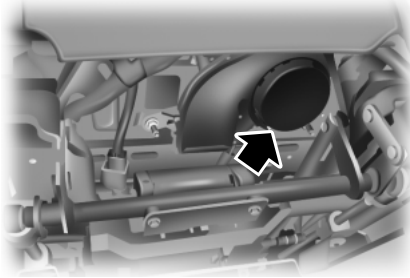
The climate controlled seat system includes air filters that must be replaced periodically. Refer to *Scheduled maintenance information*.

The filters are located under each front seat and can be accessed from the 2nd row foot-well area. Move the front seats all the way forward and to the full up positions to ease access.



To remove an air filter:

1. Turn the vehicle off.
2. Push up on the outside rigid edge of the filter and rotate counterclockwise once the tabs are released, then remove the filter.



To install a filter:

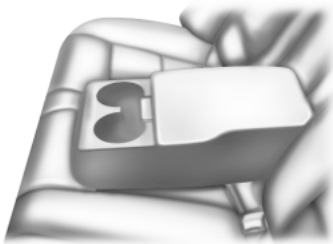
1. First, position the filter in its housing making sure that the far forward end is all the way up in the housing.
2. Push in on the center of the outside edge of the filter and rotate up into the housing until it clips into position.

## REAR SEATS

### Rear seat armrest



**WARNING:** Use only soft cups in the cupholder. Hard objects can injure you in a collision.



To access the cup holders, rotate armrest into use position. To open the storage compartment, pull up on the latch.

**Armrest pass-through**

Pull down the door located in back of the armrest in order to store cargo of a longer length such as skis or lumber.

**Note:** Do not exceed 80 lb (36 kg) of weight on the pass-through door.

**Rear Heated Seats**

**WARNING:** Persons who are unable to feel pain to the skin because of advanced age, chronic illness, diabetes, spinal cord injury, medication, alcohol use, exhaustion, or other physical conditions, must exercise care when using the seat heater. The seat heater may cause burns even at low temperatures, especially if used for long periods of time. Do not place anything on the seat that insulates against heat, such as a blanket or cushion, because this may cause the seat heater to overheat. Do not puncture the seat with pins, needles, or other pointed objects because this may damage the heating element which may cause the seat heater to overheat. An overheated seat may cause serious personal injury.

**Note:** Do not do the following:

- Place heavy objects on the seat
- Operate the seat heater if water or any other liquid is spilled on the seat. Allow the seat to dry thoroughly.

The rear seat heat controls are located on the rear of the center console.

The heated seats only operate when the ignition is on. To operate the heated seats:



- Press the indicated side of the control for maximum heat.
- Press again to deactivate.



- Press the indicated side of the control for minimum heat.
- Press again to deactivate.

The indicator light will illuminate when the heated seats have been activated.

The heated seats reset at every ignition run cycle. They will turn off automatically when the engine is turned off.

**HOMELINK® WIRELESS CONTROL SYSTEM (IF EQUIPPED)**

**! WARNING:** Make sure that the garage door and security device are free from obstruction when you are programming. Do not program the system with the vehicle in the garage.

**! WARNING:** Do not use the system with any garage door opener that does not have the safety stop and reverse feature as required by U.S. Federal Safety Standards (this includes any garage door opener manufactured before April 1, 1982).

**Note:** Make sure you keep the original remote control transmitter for use in other vehicles as well as for future system programming.

**Note:** We recommend that upon the sale or lease termination of your vehicle, you erase the programmed function buttons for security reasons. See *Erasing the function button codes* later in this section.

**Note:** You can program a maximum of three devices. To change or replace any of the three devices after it has been initially programmed, you must first erase the current settings. See *Erasing the function button codes* later in this section.



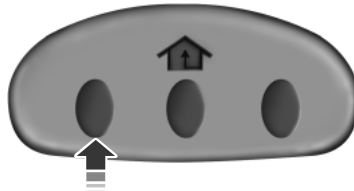
The universal garage door opener replaces the common hand-held garage door opener with a three-button transmitter that is integrated into the driver's sun visor.

The system includes two primary features, a garage door opener and a platform for remote activation of devices with the home. As well as being programmed for garage doors, the system transmitter can be programmed to operate entry gate operators, security systems, entry door locks, and home or office lighting.

Additional system information can be found on-line at [www.homelink.com](http://www.homelink.com) or by calling the toll-free help line on 1-800-355-3515.

**Programming**

**Note:** Put a new battery in the hand-held transmitter. This will ensure quicker training and accurate transmission of the radio-frequency signal.



1. Switch the ignition on.
2. Hold the garage door hand-held transmitter 1–3 in. (2–8 cm) away from the button on the sun visor you want to program.

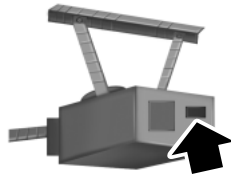
**Note:** During programming, the hand-held transmitter may stop transmitting. If this occurs press and hold the function button while you press and release the hand-held transmitter every two seconds. The indicator light will flash slowly and then rapidly once the radio frequency signal is accepted.

3. Press and hold both the button on the sun visor you want to program and the hand-held transmitter button until the indicator light on the sun visor changes from flashing slowly to rapidly, then release.

4. Press and hold the function button you programmed for 5 seconds, then release. You may need to do this twice to activate the door. If your garage door does not operate, observe the indicator light.

If the indicator light stays on, programming is complete. Press and release the programmed button to activate the door.

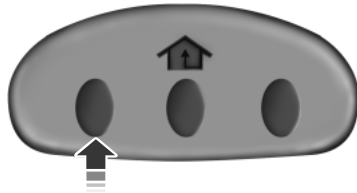
If the indicator light on the sun visor flashes rapidly for two seconds then turns to a constant light, follow the steps below.



**Note:** You may need a ladder to reach the unit and you may need to remove the cover or lamp lens.

1. Press the learn button on the garage door opener motor.

**Note:** You will have 30 seconds to complete the next step.

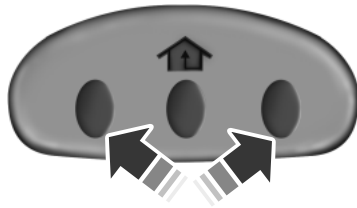


2. Return to your car.
3. Press and hold the function button you want to program for 2 seconds, then release. Repeat this step. Depending on the brand of garage door opener you may need to repeat this sequence a third time.

To program additional buttons repeat steps one through four.

For questions or comments, please contact HomeLink® at [www.homelink.com](http://www.homelink.com) or 1-800-355-3515.

**Erasing the Function Button Codes**



**Note:** You can not erase individual buttons.

1. Press and hold the outer two function buttons simultaneously for approximately 20 seconds until the indicator lights above the buttons flash rapidly.
2. When the indicator lights flash, release the buttons. The codes for all buttons are erased.

**Reprogramming a single button**

To program a device to a previously trained button, follow these steps:

1. Press and hold the desired button. **Do NOT** release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the button, follow Step 1 in the *Programming* section.

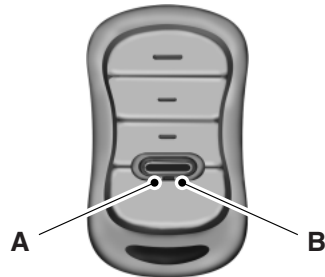
For questions or comments, contact HomeLink® at [www.homelink.com](http://www.homelink.com) or 1-800-355-3515.

**Programming HomeLink® to a Genie Intellicode® 2 garage door opener**

**Note:** The Genie Intellicode® 2 transmitter must already be programmed to operate with the garage door opener.

**Programing the transmitters**

To program HomeLink® to the transmitter you must first put the transmitter into programming mode. To do this



- A. Red LED
- B. Green LED

1. Press and hold one of the buttons on the hand-held transmitter for 10 seconds. The LED light will change from green to green and red.
2. Press the same button twice to confirm the change to Programming mode. If done properly the LED light will appear red.
3. Hold the transmitter within 1–3 inches (2–8 cm) of the button on the sun visor you want to program.
4. Press and hold the both programmed Genie button on the hand-held transmitter and the button on the sun visor you want to program. The indicator light on the sun visor will flash rapidly when the programming is successful.

**Note:** the Genie transmitter will transmit for up to 30 seconds. If HomeLink® does not program within 30 seconds the Genie transmitter will need to be pressed again. If the Genie transmitter LED displays green and red, release the button until the LED turns off before pressing the button again.

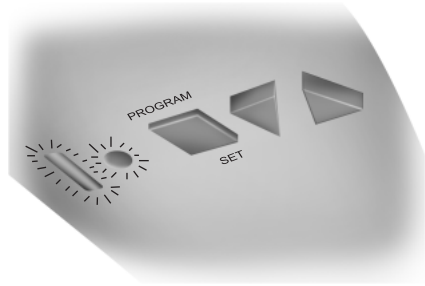
Once HomeLink® has been programmed successfully, the Genie transmitter must be changed out of program mode. To do this:

1. Press and hold the previously programmed Genie button on the hand-held transmitter for 10 seconds. The indicator light will change from red to red and green.
2. Press the same button twice to confirm the change. If done correctly the LED will turn green.



**Programming HomeLink® to the Genie Intellicode® garage door opener motor**

**Note:** You may need a ladder to access the garage door opener motor.



To program HomeLink® to the garage door opener motor.

1. Press and hold the PROGRAM button on the Garage door opener motor until both blue LED's turn on.
2. Release the PROGRAM button. Only the smaller round LED should be on.
3. Press and release the program button. The larger purple LED will flash

**Note:** The next two steps must be completed in 30 seconds.

4. Press and release the Genie Intellicode 2 hand-held transmitter's previously programmed button. Both indicator lights on the garage door opener motor unit should now flash purple.
5. Press and hold the previously programmed button on the sun visor for 2 seconds. Repeat this step up to 3 times until the garage door moves. Programming is now complete.

At this point programming is complete.

**Clearing a HomeLink® device**

To erase programming from the three HomeLink® buttons press and hold the two outer HomeLink® buttons until the indicator light begins to flash. The led will begin flashing in 10 to 20 seconds, at which time both buttons should be released. Programming has now been erased, and the led should blink slowly to indicate the device is in train mode when any of the three HomeLink buttons are pressed.

**FCC and RSS-210 Industry Canada Compliance**

This device complies with Part 15 of the FCC Rules and with RSS-210 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.

Changes or modifications to your device not expressly approved by the party responsible for compliance can void the user's authority to operate the equipment.

**AUXILIARY POWER POINTS**

**WARNING:** Do not plug optional electrical accessories into the cigarette lighter socket (if equipped). Improper use of the lighter can cause damage not covered by your warranty, and can result in fire or serious injury.

**Note:** Do not insert objects other than an accessory plug into the power point. This will damage the outlet and blow the fuse.

**Note:** Do not hang any type of accessory or accessory bracket from the plug.

**Note:** Do not use the power point over the vehicle capacity of 12 volts DC 180 watts or a fuse may blow.

**Note:** Do not use the power point for operating a cigarette lighter element.

**Note:** Improper use of the power point can cause damage not covered by your warranty.

**Note:** Always keep the power point caps closed when not in use.

Run the engine for full capacity use of the power point. To prevent the battery from being discharged:

- Do not use the power point longer than necessary when the engine is not running.
- Do not leave devices plugged in overnight or when the vehicle is parked for extended periods.

**Locations**

Power points may be found:

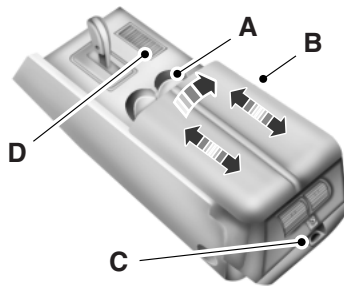
- on the center console
- inside the storage compartment
- on the rear of the center console.

### CENTER CONSOLE



**WARNING:** Use only soft cups in the cupholder. Hard objects can injure you in a collision.

Your vehicle may be equipped with a variety of console features. These include:



A. Cupholders

B. Sliding driver and passenger arm rests, utility compartment with audio input jack, USB port and power point

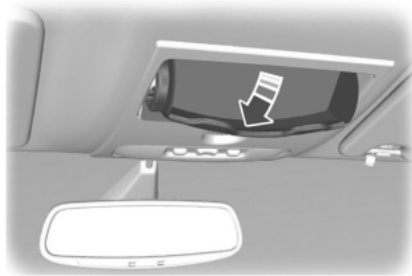
**Note:** Move the arm rests to the rearward position to open the utility compartment.

C. Rear power point, heated seat switches and air vents

D. Power point door and a power rear sunshade control (if equipped)

### OVERHEAD CONSOLE

The appearance of the overhead console will vary according to your option package.





Press near the rear edge of the door to open it.


## 148 Starting and Stopping the Engine


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### GENERAL INFORMATION

 **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, which can start a fire.

 **WARNING:** Do not start your vehicle in a closed garage or in other enclosed areas. Exhaust fumes can be toxic. Always open the garage door before you start the engine.

 **WARNING:** If you smell exhaust fumes inside your vehicle, have your vehicle checked by an authorized dealer immediately. Do not drive if you smell exhaust fumes.

If you disconnect the battery, your vehicle may exhibit some unusual driving characteristics for approximately 5 miles (8 km) after you connect it. This is because the engine management system must realign itself with the engine. You may disregard any unusual driving characteristics during this period.

This system meets all Canadian interference-causing equipment standard requirements regulating the impulse electrical field strength of radio noise.

When starting your vehicle, avoid pressing the accelerator pedal before and during operation. Only use the accelerator pedal when you have difficulty starting the engine.

**IGNITION**

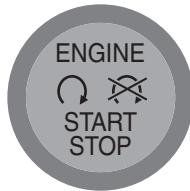
**Note:** In order to switch off the engine while the vehicle is in motion, press and hold the start button for at least one second or press the start button three times within two seconds. Then, shift to neutral and use the brakes to bring the vehicle to a safe stop. After the vehicle has stopped, turn the engine off and shift into park.

- **Off:** Press and release the start button without applying the brake pedal when your vehicle is in on mode or when the engine is running and there is no vehicle speed. This position shuts the engine and all electrical accessories off.
- **Accessory:** Press and release the start button without applying the brake pedal. This allows electrical accessories such as the radio to operate while the engine is not running.
- **On:** Press and hold the start button once from accessory mode or twice from off without applying the brake pedal. This powers your vehicle's electrical system. The warning lights in the instrument cluster illuminate, but the engine remains off.
- **Start:** Press the start button (for any length of time) while applying the brake pedal. Cranks the engine.

**KEYLESS STARTING**

**WARNING:** The keyless starting system may not function if the key is close to metal objects or electronic devices such as mobile phones.

**Note:** A valid passive key must be located inside the vehicle to switch the ignition on and start the engine.



To turn the ignition on, press the start button once. It is located on the instrument panel to the right of the steering wheel. All electrical circuits and accessories are operational, and warning lamps and indicators illuminate.

To start the vehicle, do the following:

1. Make sure the transmission is in P (Park).
2. Fully press the brake pedal.
3. Press the start button. The engine may continue cranking for up to 10 seconds or until the vehicle starts.

## 150 Starting and Stopping the Engine

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To turn the ignition off, press the start button when the vehicle is on or the engine is running.

The system does not function if:

- the key frequencies are jammed.
- the key battery is dead.

If you are unable to start your vehicle, do the following.



1. Insert the key into the key holder located in the glove box. Insert the key into the slot with the buttons facing out and with key ring up.
2. With the key in this position, you can use the start button to switch the ignition on and start your vehicle.

### Stopping the Engine while the Vehicle is Stationary

1. Move the gearshift lever to P (Park).
2. Press the start button.

**Note:** The ignition, all electrical circuits, warning lamps and indicators will be switched off.

### Fast Restart

The fast restart feature allows you to restart your vehicle within 20 seconds of switching the vehicle off, if a valid key is not present. Apply the brake pedal and press the start button for up to 20 seconds. After 20 seconds have expired, you can no longer start your vehicle without the passive key present inside the vehicle.

Once the vehicle has started, the vehicle remains running until being turned off by the start button, even if the key is no longer found in the vehicle. Whenever a door is opened and then closed while the vehicle is running, the system searches for a key inside the vehicle. If the key is no longer present in the vehicle, you cannot restart your vehicle outside of the fast restart time.

### STARTING A GASOLINE ENGINE

When the engine starts, the idle RPM runs faster to warm the engine. If the engine idle speed does not slow down automatically, have the vehicle checked.

Before starting the vehicle:

- Make sure all occupants buckle their safety belts.
- Make sure the headlamps and electrical accessories are off.
- Make sure the parking brake is set.
- Make sure the gearshift is in P (Park).
- Turn the ignition on without starting the vehicle.

Some warning lights briefly illuminate.

**Note:** Do not touch the accelerator pedal.

1. Select P (Park) or N (Neutral).
2. Fully press the brake pedal.
3. Press the start button to start the engine. The engine may continue cranking for up to 15 seconds or until the vehicle starts.

**Note:** If the engine does not start on the first try, wait for a short period of time and try again.

If you have difficulty starting the engine when the temperature is below  $-13^{\circ}\text{F}$  ( $-25^{\circ}\text{C}$ ), press the accelerator pedal slightly and try again.

If the engine does not start after three attempts, wait 10 seconds and follow this flooded engine procedure.

1. Select P (Park) or N (Neutral).
2. Fully press the accelerator pedal and hold it there.
3. Fully press the brake pedal.
4. Start the engine.

### Guarding against Exhaust Fumes



**WARNING:** If you smell exhaust fumes inside your vehicle, have this checked immediately. Do not drive your vehicle if you smell exhaust fumes. Carbon monoxide is present in exhaust fumes. Take precautions to avoid its dangerous effects.

## 152 Starting and Stopping the Engine

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### Important Ventilating Information

If you stop your vehicle and leave the engine idling for long periods of time, we recommend that you do one of the following:

- Open the windows at least one inch (2.5 centimeters).
- Set your climate control to outside air.

### ENGINE BLOCK HEATER (IF EQUIPPED)



**WARNING:** Failure to follow engine block heater instructions could result in property damage or physical injury.



**WARNING:** Do not use your heater with ungrounded electrical systems or two-pronged (cheater) adapters. There is a risk of electrical shock.

**Note:** The heater is most effective when outdoor temperatures are below 0°F (-18°C).

The heater acts as a starting aid by warming the engine coolant. This allows the climate control system to respond quickly. The equipment includes a heater element (installed in the engine block) and a wire harness. You can connect the system to a grounded 120 volt A/C electrical source.

We recommend that you do the following for safe and correct operation:

- Use a 16-gauge outdoor extension cord that is product certified by Underwriter's Laboratory or Canadian Standards Association. This extension cord must be able to be used outdoors, in cold temperatures, and be clearly marked *Suitable for Use with Outdoor Appliances*. Never use an indoor extension cord outdoors; it 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 the heater cord plug connections are free and clear of water. This could cause an electric shock or fire.



- Make sure the vehicle is parked in a clean area, clear of combustibles.
- Make sure the heater, heater cord and extension cord are firmly connected.
- Check for heat anywhere in the electrical hookup once the system has been operating for approximately 30 minutes.
- Make sure the system is unplugged and properly stowed before driving your vehicle. Make sure the protective cover seals the prongs of the block heater cord plug when not in use.
- Make sure the heater system is checked for proper operation before winter.

### 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.

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 heater longer than three hours does not improve system performance and unnecessarily uses electricity.

**SAFETY 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 door (Easy Fuel® “no cap” fuel system), do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.



**WARNING:** Automotive fuels can cause serious injury or death if misused or mishandled.



**WARNING:** The flow of fuel through a fuel pump nozzle can produce static electricity, which can cause a fire if fuel is pumped into an ungrounded fuel container.



**WARNING:** Fuel ethanol and gasoline 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 filler neck. Never smoke while refueling. Fuel vapor is extremely hazardous under certain conditions. Care should be taken to avoid inhaling excess fumes.

Observe the following guidelines when handling automotive fuel:

- Extinguish all smoking materials and any open flames before refueling your vehicle.
- Always turn off the vehicle before refueling.
- Automotive fuels can be harmful or fatal if swallowed. Fuel such as gasoline is highly toxic and if swallowed can cause death or permanent injury. If fuel is swallowed, call a physician immediately, even if no symptoms are immediately apparent. The toxic effects of fuel may not be visible for hours.
- Avoid inhaling fuel vapors. Inhaling too much fuel vapor of any kind 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 liquid in your eyes. If fuel is splashed in the eyes, 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 also be harmful if absorbed through the skin. If fuel is splashed on the skin and/or clothing, promptly remove contaminated clothing and wash skin thoroughly with soap and water. Repeated or prolonged skin contact with fuel liquid or vapor causes skin irritation.
- Be particularly careful if you are taking “Antabuse” or other forms of disulfiram for the treatment of alcoholism. Breathing gasoline vapors, or skin contact could cause an adverse reaction. In sensitive individuals, serious personal injury or sickness may result. If fuel is splashed on the skin, promptly wash skin thoroughly with soap and water. Consult a physician immediately if you experience an adverse reaction.

#### FUEL QUALITY

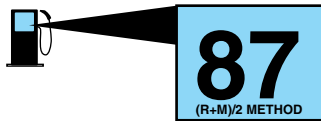
**Note:** Use of any fuel other than those recommended may cause powertrain damage, a loss of vehicle performance, and repairs may not be covered under warranty.

#### Choosing the Right Fuel

Use only UNLEADED fuel or UNLEADED fuel blended with a maximum of 15% ethanol. Do not use fuel ethanol (E85), diesel fuel, fuel-methanol, leaded fuel or any other fuel because it could damage or impair the emission control system. The use of leaded fuel is prohibited by law.

#### Octane Recommendations

3.7L V6 engine



“Regular” unleaded gasoline with a pump (R+M)/2 octane rating of 87 is recommended. Some stations offer fuels posted as “Regular” with an octane rating below 87,

particularly in high altitude areas. Fuels with octane levels below 87 are not recommended.

**3.5L V6 EcoBoost™ engine**

“Regular” unleaded gasoline with a pump (R+M)/2 octane rating of 87 is recommended. Some stations offer fuels posted as “Regular” with an octane rating below 87, particularly in high altitude areas. Fuels with octane levels below 87 are not recommended. Premium fuel will provide improved performance and is recommended for severe duty usage such as trailer tow.

Do not be concerned if your engine sometimes knocks lightly. However, if it knocks heavily while you are using fuel with the recommended octane rating, see your authorized dealer to prevent any engine damage.

**RUNNING OUT OF FUEL**

Avoid running out of fuel because this situation may have an adverse effect on powertrain components.

If you have run out of fuel:

- You may need to cycle 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. On restarting, cranking time will take a few seconds longer than normal. With keyless ignition, just start the engine. Crank time will be longer than usual.
- Normally, adding 1 gallon (3.8L) of fuel is enough to restart the engine. If the vehicle is out of fuel and on a steep grade, more than 1 gallon (3.8L) may be required.
- The service engine soon indicator may come on. For more information on the service engine soon indicator, refer to *Warning lamps and indicators* in the *Instrument Cluster* chapter.

**Refilling with a Portable Fuel Container**

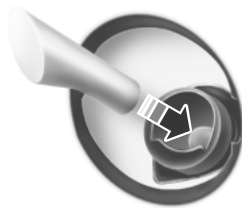
**WARNING:** Do not insert the nozzle of portable fuel containers or aftermarket funnels into the capless fuel system. This could damage the fuel system and its seal, and may cause fuel to run onto the ground instead of filling the tank, which could result in serious personal injury.



**WARNING:** Do not try to pry open or push open the capless fuel system with foreign objects. This could damage the fuel system and its seal and cause injury to you or others.

**Note:** Do not use aftermarket funnels; they will not work with the capless fuel system and can damage it. The included funnel has been specially designed to work safely with your vehicle.

When filling the vehicle's fuel tank from a portable fuel container, use the funnel included with the vehicle.



1. Locate the white plastic funnel in the spare tire compartment.
2. Slowly insert the funnel into the capless fuel system.
3. Fill the vehicle with fuel from the portable fuel container.

4. When done, clean the funnel or properly dispose of it. Extra funnels can be purchased from your authorized dealer if you choose to dispose of the funnel.

### REFUELING



**WARNING:** Fuel vapor burns violently and a fuel fire can cause severe injuries. To help avoid injuries to you and others:

- Read and follow all the instructions on the pump island;
- Turn off your engine when you are refueling;
- Do not smoke if you are near fuel or refueling your vehicle;
- Keep sparks, flames and smoking materials away from fuel;
- Stay outside your vehicle and do not leave the fuel pump unattended when refueling your vehicle — this is against the law in some places;
- Keep children away from the fuel pump; never let children pump fuel.
- Do not use personal electronic devices while refueling.

Use the following guidelines to avoid electrostatic charge build-up when filling an ungrounded fuel container:

- Place approved fuel container on the ground.
- DO NOT fill a fuel container while it is in the vehicle (including the cargo area).
- Keep the fuel pump nozzle in contact with the fuel container while filling.
- DO NOT use a device that would hold the fuel pump handle in the fill position.

**Easy Fuel® “No Cap” Fuel System**

**WARNING:** The fuel system may be under pressure. If you hear a hissing sound near the fuel filler door, do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.

When fueling your vehicle:

1. Turn the engine off.
2. Open the fuel filler door by pressing the center of the door about one inch from the door's rear edge.
3. Insert the fuel plug key (if equipped) into the locking plug and turn it counterclockwise to unlock it.
4. Slowly insert the fuel filler nozzle fully into the fuel system, and leave the nozzle fully inserted until you are done pumping.
5. After you are done pumping fuel, slowly remove the fuel filler nozzle—allow about ten seconds after pumping fuel before removing the fuel filler nozzle. This allows residual fuel to drain back into the fuel tank and not spill onto the vehicle.
6. Reinstall the plug (if equipped) into the fuel fill inlet and turn the key clockwise to lock.

**Note:** Do not overfill the tank or fuel spillage will occur.

If the fuel fill inlet was not properly closed, a Check Fuel Fill Inlet message may appear on the information display. See the *Information Displays* chapter for more information.

At the next opportunity, do the following:

1. Safely pull off the road.
2. Turn off the engine.
3. Open the fuel filler door and remove any visible debris from the fuel fill opening.
4. Insert either the fuel fill nozzle or the fuel fill funnel provided with the vehicle several times to dislodge any debris and/or allow the inlet to close properly.

If this action corrects the problem, the message may not reset immediately. It may take several driving cycles for the message to turn off. A driving cycle consists of an engine start-up (after four or more hours with the engine off) followed by city/highway driving. Continuing to drive with the message on may cause the service engine soon lamp to turn on as well.

**FUEL CONSUMPTION****Filling the tank**

The advertised capacity is the indicated capacity and the empty reserve combined. Indicated capacity is the difference in the amount of fuel in a full tank and a tank when the fuel gauge indicates empty. Empty reserve is the amount of fuel in the tank after the fuel gauge indicates empty.

**Note:** The amount of usable fuel in the empty reserve varies and should not be relied upon to increase driving range. When refueling your vehicle after the fuel gauge indicates empty, you might not be able to refuel the full amount of the advertised capacity of the fuel tank due to the empty reserve still present in the tank.

For consistent results when filling the fuel tank:

- Turn the ignition off before fueling; an inaccurate reading results if the engine is left running.
- Use the same fill rate (low–medium–high) each time the tank is filled.
- Allow no more than two automatic click–offs when filling.

Results are most accurate when the filling method is consistent.

**Calculating fuel economy**

Do not measure fuel economy during the first 1,000 miles (1,600 km) of driving (this is your engine's break-in period); a more accurate measurement is obtained after 2,000 miles–3,000 miles (3,200 km–4,800 km). Also, fuel expense, frequency of fill-ups or fuel gauge readings are not accurate ways to measure fuel economy.

1. Fill the fuel tank completely and record the initial odometer reading.
2. Each time you fill the tank, record the amount of fuel added.
3. After at least three to five tank fill-ups, fill the fuel tank and record the current odometer reading.
4. Subtract your initial odometer reading from the current odometer reading.
5. Calculate fuel economy as follows:

Standard: Divide miles traveled by gallons used.

Metric: Multiply liters used by 100, then divide by kilometers traveled.

Keep a record for at least one month and record the type of driving (city or highway). This provides an accurate estimate of the vehicle's fuel economy under current driving conditions. Additionally, keeping records during summer and winter show how temperature impacts fuel economy. In general, lower temperatures mean lower fuel economy.

**EMISSION CONTROL SYSTEM**

**WARNING:** Do not park, idle, or drive your vehicle in dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, which can start a fire.



**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 dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

Your vehicle is equipped with various emission control components and a catalytic converter which will enable your vehicle to comply with applicable exhaust emission standards. To make sure that the catalytic converter and other emission control components continue to work properly:

- Use only the specified fuel listed.
- Avoid running out of fuel.
- Do not turn off the ignition while your vehicle is moving, especially at high speeds.
- Have the items listed in *scheduled maintenance information* performed according to the specified schedule.

The scheduled maintenance items listed in *scheduled maintenance information* are essential to the life and performance of your vehicle and to its emissions system.

If other than Ford, Motorcraft® or Ford-authorized parts are used for maintenance replacements or for service of components affecting emission control, such non-Ford parts should be equivalent to genuine Ford Motor Company parts in performance and durability.

Illumination of the service engine soon indicator, charging system warning light or the temperature warning light, fluid leaks, strange odors, smoke or loss of engine power could indicate that the emission control system is not working properly.

An improperly operating or damaged exhaust system may allow exhaust to enter the vehicle. Have a damaged or improperly operating exhaust system inspected and repaired immediately.

Do not make any unauthorized changes to your vehicle or engine. By law, vehicle owners and anyone who manufactures, repairs, services,



sells, leases, trades vehicles, or supervises a fleet of vehicles are not permitted to intentionally remove an emission control device or prevent it from working. Information about your vehicle's emission system is on the Vehicle Emission Control Information Decal located on or near the engine. This decal also lists engine displacement.

Please consult your *Warranty Guide* for complete emission warranty information.

### On-board Diagnostics (OBD-II)

Your vehicle is equipped with a computer that monitors the engine's emission control system. This system is commonly known as the on-board diagnostics system (OBD-II). The OBD-II system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists your authorized dealer in properly servicing your vehicle.



When the service engine soon indicator illuminates, the OBD-II system has detected a malfunction. Temporary malfunctions may cause the service engine soon indicator to illuminate.

Examples are:

1. The vehicle has run out of fuel—the engine may misfire or run poorly.
2. Poor fuel quality or water in the fuel—the engine may misfire or run poorly.
3. The fuel fill inlet may not have been properly closed. See *Easy Fuel*® “no cap” fuel system in this chapter.
4. Driving through deep water—the electrical system may be wet.

These temporary malfunctions can be corrected by filling the fuel tank with good quality fuel, properly closing the fuel fill inlet or letting the electrical system dry out. After three driving cycles without these or any other temporary malfunctions present, the service engine soon indicator should stay off the next time the engine is started. A driving cycle consists of a cold engine startup followed by mixed city/highway driving. No additional vehicle service is required.

If the service engine soon indicator remains on, have your vehicle serviced at the first available opportunity. Although some malfunctions detected by the OBD-II may not have symptoms that are apparent, continued driving with the service engine soon indicator on can result in increased emissions, lower fuel economy, reduced engine and transmission smoothness, and lead to more costly repairs.

**Readiness for Inspection/Maintenance (I/M) Testing**

Some state/provincial and local governments may have Inspection/Maintenance (I/M) programs to inspect the emission control equipment on your vehicle. Failure to pass this inspection could prevent you from getting a vehicle registration.



If the service engine soon indicator is on or the bulb does not work, the vehicle may need to be serviced. Refer to *On-board diagnostics (OBD-II)* in this chapter.

Your vehicle may not pass the I/M test if the service engine soon indicator is on or not working properly (bulb is burned out), or if the OBD-II system has determined that some of the emission control systems have not been properly checked. In this case, the vehicle is considered not ready for I/M testing.


If the vehicle's engine or transmission has just been serviced, or the battery has recently run down or been replaced, the OBD-II system may indicate that the vehicle is not ready for I/M testing. To determine if the vehicle is ready for I/M testing, turn the ignition key to the on position for 15 seconds without cranking the engine. If the service engine soon indicator blinks eight times, it means that the vehicle is not ready for I/M testing; if the service engine soon indicator stays on solid, it means that the vehicle is ready for I/M testing.

The OBD-II system is designed to check the emission control system during normal driving. A complete check may take several days. If the vehicle is not ready for I/M testing, the following driving cycle consisting of mixed city and highway driving may be performed:

15 minutes of steady driving on an expressway/highway followed by 20 minutes of stop-and-go driving with at least four 30-second idle periods.

Allow the vehicle to sit for at least eight hours without starting the engine. Then, start the engine and complete the above driving cycle. The engine must warm up to its normal operating temperature. Once started, do not turn off the engine until the above driving cycle is complete. If the vehicle is still not ready for I/M testing, the above driving cycle will have to be repeated.

**AUTOMATIC TRANSMISSION**

 **WARNING:** Always set the parking brake fully and make sure the gearshift is latched in P (Park). Turn the ignition to the off position and remove the key whenever you leave your vehicle.

Your vehicle has been designed to improve fuel economy by reducing fuel usage while coasting or decelerating. When you take your foot off the accelerator pedal and the vehicle begins to slow down, the torque converter clutch locks up and aggressively shuts off fuel flow to the engine while decelerating. This fuel economy benefit may be perceived as a light to medium braking sensation when removing your foot from the accelerator pedal.

**P (Park)**

This position locks the transmission and prevents the front wheels from turning.

To put your vehicle in gear:

- Press the brake pedal
- Move the gearshift lever into the desired gear

To put your vehicle in P (Park):

- Come to a complete stop
- Move the gearshift lever and securely latch it in P (Park)

**R (Reverse)**

With the gearshift lever in R (Reverse), the vehicle will move backward. Always come to a complete stop before shifting into and out of R (Reverse).

**N (Neutral)**

With the gearshift lever in N (Neutral), the vehicle can be started and is free to roll. Hold the brake pedal down while in this position.

**D (Drive) with overdrive**

The normal driving position for the best fuel economy. Transmission operates in gears one through six. The automatic transmission shift strategy has the ability to detect hilly terrain or mountainous areas and will provide a limited amount of grade assist features automatically.

**S (Sport)**

Moving the gearshift lever to S (Sport):

- Provides additional grade (engine) braking and extends lower gear operation to enhance performance for uphill climbs, hilly terrain or mountainous areas. This will increase engine RPM during engine braking.
- Provides additional lower gear operation through the automatic transmission shift strategy which reacts to vehicle inputs (vehicle acceleration, accelerator pedal, brake pedal and vehicle speed).
- Gears are selected more quickly and at higher engine speeds.

**Note:** The system will stay in S (Sport) until the gear shift lever is moved into another gear for example P (park) or D (Drive).

**SelectShift Automatic® Transmission (if equipped)**

**Note:** Your transmission must be in S (Sport) for SelectShift to operate properly.

Your SelectShift automatic transmission gives you the ability to manually change gears if you'd like. To use SelectShift, move the gearshift lever into S (Sport). Now you can use the paddles on your steering wheel to manually select gears.

**Paddle Shifters (if equipped)**

The paddle shifters allow you to shift gears quickly, without taking your hands off the steering wheel. Temporary manual control is provided when pulling the paddles with the gearshift in the D (Drive) position. The system will determine when temporary manual control is no longer desired and reverts back to automatic control. Extensive manual control can be achieved by moving the shifter to the S (Sport) position. The system will stay in manual control until the shifter is moved out of the manual position.

When using the paddles for manual shifting:

- Pull the right paddle (+) to upshift.
- Pull the left paddle (–) to downshift.



Upshift to the recommended shift speeds according to the following chart:

<b>Upshifts when accelerating (recommended for best fuel economy)</b>	
Shift from:	
1 - 2	15 mph (24 km/h)
2 - 3	25 mph (40 km/h)
3 - 4	40 mph (64 km/h)
4 - 5	45 mph (72 km/h)
5 - 6	50 mph (80 km/h)

The instrument cluster will show the current selected gear you are in.

SelectShift will automatically make some downshifts for you if it has determined that you have not downshifted in time. Although SelectShift will make some downshifts for you, it will still allow you to downshift at any time as long as SelectShift determines that the engine will not be damaged from over-revving.

**Note:** Engine damage may occur if excessive engine revving is held without shifting.

### Brake-shift interlock



**WARNING:** Do not drive your vehicle until you verify that the brake lamps are working.



**WARNING:** Always set the parking brake fully and make sure the gearshift lever is latched in P (Park). Switch the ignition to off and remove the key whenever you leave your vehicle.



**WARNING:** If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer.

This vehicle is equipped with a brake-shift interlock feature that prevents the gearshift lever from being moved from P (Park) when the ignition is in the on position unless the brake pedal is applied. If you cannot move the gearshift lever out of P (Park) when the ignition is on and the brake pedal applied, it is possible that a fuse has blown or the vehicle's brake lamps are not operating properly.

If the fuse is not blown and the brake lamps are working properly, you will need to have your vehicle towed to an authorized dealer.

#### **Automatic transmission adaptive learning**

This feature is designed to increase durability and provide consistent shift feel over the life of the vehicle. A new vehicle or transmission may have firm and/or soft shifts. This operation is considered normal and will not affect function or durability of the transmission. Over time, the adaptive learning process will fully update transmission operation. Additionally, whenever the battery is disconnected or a new battery installed, the strategy must be relearned.

#### **If Your Vehicle Gets Stuck in Mud or Snow**

**Note:** Do not rock the vehicle if the engine is not at normal operating temperature or damage to the transmission may occur.

**Note:** Do not rock the vehicle for more than a minute or damage to the transmission and tires may occur, or the engine may overheat.

If your vehicle gets stuck in mud or snow, it may 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.

**USING YOUR ALL-WHEEL DRIVE (AWD) SYSTEM (IF EQUIPPED)**

AWD uses all four wheels to power the vehicle. This increases traction, enabling you to drive over terrain and road conditions that a conventional two-wheel drive vehicles cannot. The AWD system is active all the time and requires no input from the operator.

**Note:** Your AWD vehicle is not intended for off-road use. The AWD feature gives your vehicle some limited off-road capabilities in which driving surfaces are relatively level, obstruction-free and otherwise similar to normal on-road driving conditions. Operating your vehicle under other than those conditions could subject the vehicle to excessive stress which might result in damage which is not covered under your warranty.

**Note:** When an AWD system fault is present, the warning Check AWD will display in the message center. The AWD system is not functioning correctly and defaulted to front-wheel drive. When this warning is displayed, have your vehicle serviced at an authorized dealer.

**Note:** The AWD Off message may also be displayed in the message center if the AWD system has overheated and defaulted to front-wheel drive. This condition may occur if the vehicle was operated in extreme conditions with excessive wheel slip, such as deep sand. To resume normal AWD function as soon as possible, stop the vehicle in a safe location and stop the engine for at least 10 minutes. After the engine has been restarted and the AWD system has adequately cooled, the AWD Off message will turn off and normal AWD function will return. The AWD Off message will turn off when the system cools and normal AWD function returns.

If your vehicle is equipped with AWD, a spare tire of a different size other than the tire provided should never be used. If the mini-spare tire is installed, the AWD system may disable automatically and enter front-wheel drive only mode to protect driveline components. This condition may be indicated by an AWD Off message in the information display. If there is an AWD Off message in the message center from using the spare tire, this indicator should turn off after reinstalling the repaired or replaced normal road tire and cycling the ignition off and on. It is recommended to reinstall the repaired or replaced road tire as soon as possible. Major dissimilar tire sizes between the front and rear axles could cause the AWD system to stop functioning and default to front-wheel drive or damage the AWD system.

**Driving In Special Conditions With All-Wheel Drive (AWD)**

AWD vehicles are equipped for driving on sand, snow, mud and rough roads and have operating characteristics that are somewhat different from conventional vehicles, both on and off the highway.

When driving at slow speeds in deep sand under high outside temperatures, use a low gear when possible. Lower gear operation will maximize the engine and transmission cooling capability.

Under severe operating conditions, the A/C may cycle on and off to protect overheating of the engine.

***Basic operating principles in special conditions***

- Drive slower in strong crosswinds which can affect the normal steering characteristics of your vehicle.
- Be extremely careful when driving on pavement made slippery by loose sand, water, gravel, snow or ice.

***If Your Vehicle Goes Off the Edge of the Pavement***

- If your vehicle goes off the edge of the pavement, slow down, but avoid severe brake application, ease the vehicle back onto the pavement only after reducing your speed. Do not turn the steering wheel too sharply while returning to the road surface.
- It may be safer to stay on the apron or shoulder of the road and slow down gradually before returning to the pavement. You may lose control if you do not slow down or if you turn the steering wheel too sharply or abruptly.
- It often may be less risky to strike small objects, such as highway reflectors, with minor damage to your vehicle rather than attempt a sudden return to the pavement which could cause the vehicle to slide sideways out of control or rollover. Remember, your safety and the safety of others should be your primary concern.

***If Your Vehicle Gets Stuck***



**WARNING:** Always set the parking brake fully and make sure the gearshift is latched in P (Park). Turn the ignition to the lock position and remove the key whenever you leave your vehicle.



**WARNING:** If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer.



**WARNING:** Do not spin the wheels at over 35 mph (56 km/h). The tires may fail and injure a passenger or bystander.



**Note:** Do not rock the vehicle if the engine is not at normal operating temperature or damage to the transmission may occur.

**Note:** Do not rock the vehicle for more than a few minutes or damage to the transmission and tires may occur or the engine may overheat.

If your vehicle gets stuck in mud or snow it may 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.

If your vehicle is equipped with AdvanceTrac® with Roll Stability Control™, it may be beneficial to disengage the AdvanceTrac® with Roll Stability Control™ system while attempting to rock the vehicle.

### **Emergency Maneuvers**

- In an unavoidable emergency situation where a sudden sharp turn must be made, remember to avoid “over-driving” your vehicle (i.e., turn the steering wheel only as rapidly and as far as required to avoid the emergency). Excessive steering will result in less vehicle control, not more. Additionally, smooth variations of the accelerator and/or brake pedal pressure should be utilized if changes in vehicle speed are called for. Avoid abrupt steering, acceleration or braking which could result in an increased risk of loss of vehicle control, vehicle rollover and/or personal injury. Use all available road surface to return the vehicle to a safe direction of travel.
- In the event of an emergency stop, avoid skidding the tires and do not attempt any sharp steering wheel movements.
- If the vehicle goes from one type of surface to another (i.e., from concrete to gravel) there will be a change in the way the vehicle responds to a maneuver (steering, acceleration or braking). Again, avoid these abrupt inputs.

### **Sand**

When driving over sand, try to keep all four wheels on the most solid area of the trail. Avoid reducing the tire pressures but shift to a lower gear and drive steadily through the terrain. Apply the accelerator slowly and avoid spinning the wheels.

Do not drive your AWD vehicle in deep sand for an extended period of time. This will cause the AWD system to overheat. After the system has cooled down, normal AWD function will return. When driving at slow speeds in deep sand under high outside temperatures, use L (Low) gear when possible. L (Low) gear operation will maximize the engine and transmission cooling capability.

Under severe operating conditions, the A/C may cycle on and off to protect overheating of the engine.

Avoid excessive speed because vehicle momentum can work against you and cause the vehicle to become stuck to the point that assistance may be required from another vehicle. Remember, you may be able to back out the way you came if you proceed with caution.

### **Mud and Water**

If you must drive through high water, drive slowly. Traction or brake capability may be limited.

When driving through water, determine the depth; avoid water higher than the bottom of the wheel rims (for cars) or the bottom of the hubs (for trucks) (if possible) and proceed slowly. If the ignition system gets wet, the vehicle may stall.

Once through water, always try the brakes. Wet brakes do not stop the vehicle as effectively as dry brakes. Drying can be improved by moving your vehicle slowly while applying light pressure on the brake pedal.

Be cautious of sudden changes in vehicle speed or direction when you are driving in mud. Even AWD vehicles can lose traction in slick mud. As when you are driving over sand, apply the accelerator slowly and avoid spinning your wheels. If the vehicle does slide, steer in the direction of the slide until you regain control of the vehicle.

After driving through mud, clean off residue stuck to rotating driveshafts and tires. Excess mud stuck on tires and rotating driveshafts causes an imbalance that could damage drive components.

**Note:** Driving through deep water may damage the transmission.

If the front or rear axle is submerged in water, the axle lubricant and PTU (power transfer unit) lubricant should be checked and changed if necessary.



“Tread Lightly” is an educational program designed to increase public awareness of land-use regulations and responsibilities in our nations wilderness areas. Ford Motor Company joins the U.S. Forest

Service and the Bureau of Land Management in encouraging you to help preserve our national forest and other public and private lands by “treading lightly.”

***Driving on Hilly or Sloping Terrain***

**Note:** Avoid driving crosswise or turning on steep slopes or hills. A danger lies in losing traction, slipping sideways and possibly rolling over. Whenever driving on a hill, determine beforehand the route you will 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.

Although natural obstacles may make it necessary to travel diagonally up or down a hill or steep incline, you should always try to drive straight up or straight down.

When climbing a steep slope or hill, start in a lower gear rather than downshifting to a lower gear from a higher gear once the ascent has started. This reduces strain on the engine and the possibility of stalling.

If you do stall out, do not try to turnaround because you might roll over. It is better to back down to a safe location.

Apply just enough power to the wheels to climb the hill. Too much power will cause the tires to slip, spin or lose traction, resulting in loss of vehicle control.



Descend a hill in the same gear you would use to climb up the hill to avoid excessive brake application and brake overheating. Do not descend in neutral; instead, disengage overdrive or manually shift to a lower gear. When descending a steep hill, avoid sudden hard braking as you could lose control. The front wheels have to be turning in order to steer the vehicle.

Your vehicle has anti-lock brakes, therefore apply the brakes steadily. Do not “pump” the brakes.

***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 the vehicle slides while cornering, steer in the direction of the slide until you regain control of the vehicle.

**Note:** Excessive tire slippage can cause transmission damage.

AWD vehicles have advantages over 2WD vehicles in snow and ice but can skid like any other vehicle.

Should you start to slide while driving on snowy or icy roads, turn the steering wheel in the direction of the slide until you regain control.

Avoid sudden applications of power and quick changes of direction on snow and ice. Apply the accelerator slowly and steadily when starting from a full stop.

Avoid sudden braking as well. Although an AWD vehicle may accelerate better than a two-wheel drive vehicle in snow and ice, it won't stop any faster, because as in other vehicles, braking occurs at all four wheels. Do not become overconfident as to road conditions.

Make sure you allow sufficient distance between you and other vehicles for stopping. Drive slower than usual and consider using one of the lower gears. In emergency stopping situations, apply the brake steadily. Since your vehicle is equipped with a four wheel anti-lock brake system (ABS), do not "pump" the brakes. Refer to the *Brakes* chapter for additional information on the operation of the anti-lock brake system.

***Maintenance and Modifications***

The suspension and steering systems on your vehicle have been designed and tested to provide predictable performance whether loaded or empty and durable load carrying capability. For this reason, Ford Motor Company strongly recommends that you do not make modifications such as adding or removing parts (such as lift kits or stabilizer bars) or by using replacement parts not equivalent to the original factory equipment.

Any modifications to a vehicle that raise the center of gravity can make it more likely the vehicle will rollover as a result of a loss of control. Ford Motor Company recommends that caution be used with any vehicle equipped with a high load or device (such as ladder or luggage racks).

Failure to maintain your vehicle properly may void the warranty, increase your repair cost, reduce vehicle performance and operational capabilities and adversely affect driver and passenger safety. Frequent inspection of vehicle chassis components is recommended if the vehicle is subjected to off-highway usage.

**GENERAL INFORMATION**

**Note:** Occasional brake noise is normal. If a metal-to-metal, continuous grinding or continuous squeal sound is present, the brake linings may be worn-out and should be inspected by an authorized dealer. If the vehicle has continuous vibration or shudder in the steering wheel while braking, the vehicle should be inspected by an authorized dealer.

**Note:** Brake dust may accumulate on the wheels, even under normal driving conditions. Some dust is inevitable as the brakes wear and does not contribute to brake noise. Refer to the *Vehicle Care* chapter for wheel cleaning instructions.



Refer to the *Instrument Cluster* chapter for information on the brake system warning light.

Wet brakes result in reduced braking efficiency. Gently press the brake pedal a few times when driving from a car wash or standing water to dry the brakes.

**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. Turn the engine off, shift to P (Park) and apply the parking brake, and then inspect the accelerator pedal for any interferences. If none are found and the condition persists, have your vehicle towed to the nearest authorized dealer.

**Brake Assist**

Brake assist detects when you brake heavily by measuring the rate at which you press the brake pedal. It provides maximum braking efficiency as long as you press the pedal. Brake assist can reduce stopping distances in critical situations.

### Anti-lock Brake System (ABS)

This system helps you maintain steering control during emergency stops by keeping the brakes from locking.



The ABS lamp momentarily illuminates when the ignition is turned on. If the light does not illuminate during start up, remains on or flashes, the ABS may be disabled and may need to be serviced.



If the ABS is disabled, normal braking is still effective. If the brake warning lamp illuminates with the parking brake released, have your brake system serviced immediately.

### HINTS ON DRIVING WITH ANTI-LOCK BRAKES

When the system is operating, the brake pedal will pulse and may travel further. Maintain pressure on the brake pedal. You may also hear a noise from the system. This is normal.

The ABS will not eliminate the dangers inherent 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.

### PARKING BRAKE



**WARNING:** If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer as soon as possible.



**WARNING:** Always set the parking brake fully and make sure that the gearshift is securely latched in position **P**.

To set the parking brake, press the parking brake pedal down to its fullest extent.

To release the parking brake, press the parking brake pedal down again.

### PRINCIPLES OF OPERATION

The traction control system helps avoid drive wheel spin and loss of traction.

If your vehicle begins to slide, the system applies the brakes to individual wheels and, when needed, reduces engine power at the same time. If the wheels spin when accelerating on slippery or loose surfaces, the system reduces engine power in order to increase traction.

### USING TRACTION CONTROL

**Note:** If your vehicle is equipped with MyKey®, it is possible to prevent turning the TCS off. Refer to the *MyKey®* chapter.

In certain situations (e.g. stuck in snow or mud), turning the traction control off may be beneficial as this allows the wheels to spin with full engine power. Turn off the traction control system through the information display. See the *Information Displays* chapter for more information.

### System Indicator Lights and Messages



**WARNING:** If a failure has been detected within the Traction Control System, the stability control light will illuminate steadily. Verify that the Traction Control System was not manually disabled using the information display control. If the stability control light still illuminates steadily, have the system serviced by an authorized dealer immediately. Operating your vehicle with Traction Control disabled could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.



The stability control light temporarily illuminates on engine start-up and flashes when a driving condition activates the stability system.





The stability control off light temporarily illuminates on engine start-up and stays on when the traction control system is turned off.

When the traction control system is turned off or on, a message appears in the information display showing system status.



**PRINCIPLES OF OPERATION**

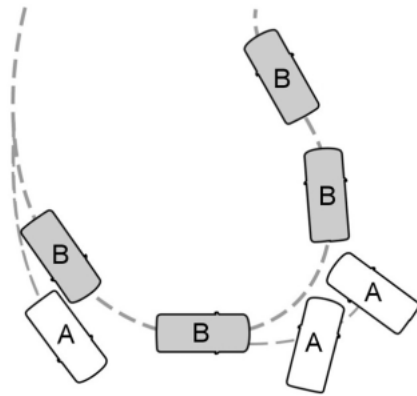
 **WARNING:** Vehicle modifications involving braking system, aftermarket roof racks, suspension, steering system, tire construction and/or wheel/tire size may change the handling characteristics of the vehicle and may adversely affect the performance of the AdvanceTrac® system. In addition, installing any stereo loudspeakers may interfere with and adversely affect the AdvanceTrac® system. Install any aftermarket stereo loudspeaker as far as possible from the front center console, the tunnel, and the front seats in order to minimize the risk of interfering with the AdvanceTrac® sensors. Reducing the effectiveness of the AdvanceTrac® 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 AdvanceTrac® 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. If your AdvanceTrac® system activates, SLOW DOWN.

The AdvanceTrac® system helps you keep control of your vehicle when on a slippery surface. The electronic stability control (ESC) portion of the system helps avoid skids and lateral slides and the traction control system (TCS) helps avoid drive wheel spin and loss of traction. (For details on TCS operation, see the *Traction Control* chapter.)

**A** Vehicle without AdvanceTrac® skidding off its intended route.


**B** Vehicle with AdvanceTrac® maintaining control on a slippery surface.





### USING ADVANCETRAC®


The system automatically activates when you start your engine. The AdvanceTrac® system cannot be completely turned off, but the ESC portion of the system is disabled when the transmission is in R (Reverse). The traction control portion of the system can be turned off independently. See the *Traction Control* chapter.

**SENSING SYSTEM**

 **WARNING:** To help avoid personal injury, please read and understand the limitations of the system as contained in this section. Sensing is only an aid for some (generally large and fixed) objects when moving in reverse on a flat surface at parking speeds. Traffic control systems, inclement weather, air brakes, and external motors and fans may also affect the function of the sensing system; this may include reduced performance or a false activation.

 **WARNING:** To help avoid personal injury, always use caution when in R (Reverse) and when using the sensing system.

 **WARNING:** This system is not designed to prevent contact with small or moving objects. The system is designed to provide a warning to assist the driver in detecting large stationary objects to avoid damaging the vehicle. The system may not detect smaller objects, particularly those close to the ground.

 **WARNING:** Certain add-on devices such as large trailer hitches, bike or surfboard racks and any device that may block the normal detection zone of the system, may create false beeps.

**Note:** Keep the sensors (located on the bumper/fascia) 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:** If your vehicle sustains damage to the bumper/fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.

The sensing system warns the driver of obstacles within a certain range of the bumper area. The system turns on automatically whenever the ignition is switched on.

When receiving a detection warning, the radio volume is reduced to a predetermined level. After the warning goes away, the radio volume returns to the previous level.

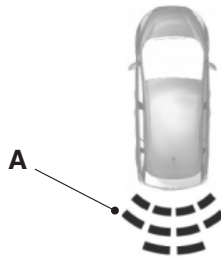
The system can be turned off using the information display control. Refer to the *Information Display* chapter. If a fault is present in the system, a warning message appears in the information display and does not allow the driver to switch the faulted system on.

**Note:** If your vehicle is equipped with MyKey®, it is possible to prevent turning the sensing system off. Refer to the *MyKey®* chapter.

### Using the Front and Rear Sensing System

#### Rear Sensing System

The rear sensors are only active when the transmission is in R (Reverse). As the vehicle moves closer to the obstacle, the rate of the audible warning increases. When the obstacle is fewer than 12 inches (30 centimeters) away, the warning sounds continuously. If a stationary or receding object is detected farther than 12 inches (30 centimeters) from the side of the vehicle, the tone sounds for only three seconds. Once the system detects an object approaching, the warning sounds again.



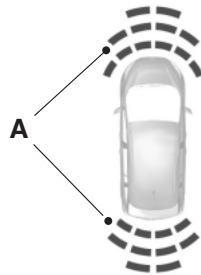
A. Coverage area of up to 6 feet (2 meters) from the rear bumper (with a decreased coverage area at the outer corners of the bumper).

The system detects certain objects while the transmission is in R (Reverse):

- and moving toward a stationary object at a speed of 3 mph (5 km/h) or less.
- but not moving, and a moving object is approaching the rear of the vehicle at a speed of 3 mph (5 km/h) or less.
- and moving at a speed of less than 3 mph (5 km/h) and a moving object is approaching the rear of the vehicle at a speed of less than 3 mph (5 km/h).

**Front Sensing System**

The front sensors are active when the gearshift is in any position other than P (Park) or N (Neutral) and the vehicle speed is below 7 mph (12 km/h).



A. Coverage area of up to 27 inches (70 centimeters) from the front of the vehicle and about 6–14 inches (15–35 centimeters) to the side of the front end of the vehicle. Refer to the reverse sensing section for details on coverage area.

The system sounds an audible warning when obstacles are near either bumper in the following manner:

- Objects detected by the front sensors are indicated by a high-pitched tone from the front radio speakers.
- Objects detected by the rear sensors are indicated by a lower pitched tone from the rear radio speakers.
- The sensing system reports the obstacle which is closest to the front or rear of the vehicle. For example, if an obstacle is 24 inches (60 centimeters) from the front of the vehicle and, at the same time, an obstacle is only 16 inches (40 centimeters) from the rear of the vehicle, the lower pitched tone sounds.
- An alternating warning sounds from the front and rear if there are objects at both bumpers that are closer than 12 inches (30 centimeters).

For specific information on the reverse sensing portion of the system, refer to that section.

**ACTIVE PARK ASSIST (IF EQUIPPED)**

**WARNING:** This system is designed to be a supplementary park aid. It may not work in all conditions and is not intended to replace the driver's attention and judgment. The driver is responsible for avoiding hazards and maintaining a safe distance and speed, even when the system is in use.

**Note:** The driver is always responsible for controlling the vehicle, supervising the system and intervening if required.

The system detects an available parallel parking space and automatically steers the vehicle into the space (hands-free) while you control the accelerator, gearshift and brakes. The system visually and/or audibly instructs the driver to park the vehicle.

The system may not function correctly if something passes between the front bumper and the parking space (i.e. a pedestrian or cyclist) or if the edge of the neighboring parked vehicle is high from the ground (i.e. a bus, tow truck or flatbed truck).

**Note:** The sensors may not detect objects in heavy rain or other conditions that cause disruptive reflections.

**Note:** The sensors may not detect objects with surfaces that absorb ultrasonic waves.

The system should not be used if:

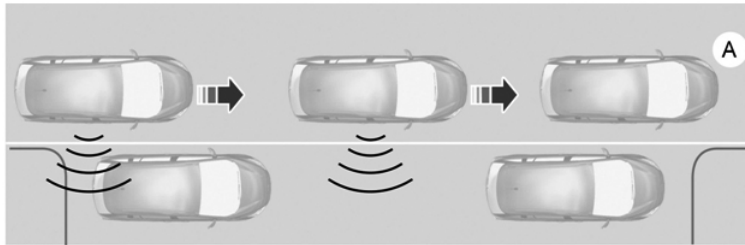
- a foreign object (i.e. bike rack or trailer) is attached to the front or rear of the vehicle or at another location close to the sensors.
- an overhanging object (i.e. surfboard) is attached to the roof.
- the front bumper or side sensors are damaged (i.e. in a collision) or obstructed by a foreign object (i.e. front bumper cover).
- a mini-spare tire is in use.

**Using Active Park Assist**



Press the button; the touch screen displays a message and a corresponding graphic to indicate it's searching for a parking space. Use the turn signal to indicate which side of the vehicle you want the system to search on.

**Note:** If the turn signal is not on, the system automatically searches on the vehicle's passenger side.



When a suitable space is found, the touch screen displays a message and a chime sounds. Slow down and stop at approximately position (A), then follow the instructions on the touch screen.

**Note:** You must observe that the selected space remains clear of obstructions at all times in the maneuver.

**Note:** Vehicles with overhanging loads (e.g. a bus or a truck), street furniture and other items may not be detected by active park assist. You must ensure the selected space is suitable for parking.

**Note:** The vehicle should be driven as parallel to other vehicles as possible while passing a parking space.

**Note:** The system always offers the last detected parking space (i.e. if the vehicle detects multiple spaces while you are driving, it offers the last one).

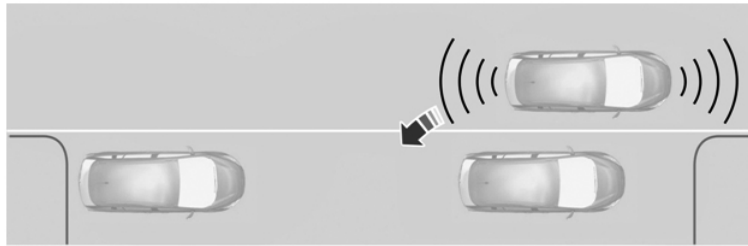
**Note:** If driven above approximately 20 mph (35 km/h), the touch screen shows a message to alert the driver to reduce vehicle speed.

**Automatic Steering into Parking Space**

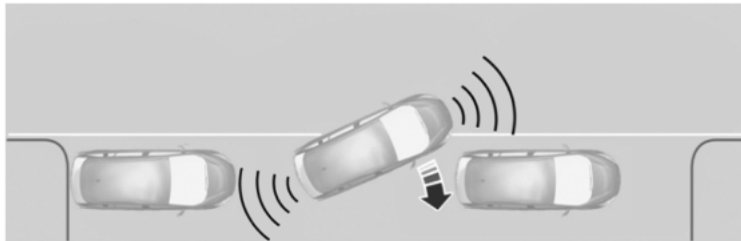
**Note:** If vehicle speed exceeds 7 mph (12 km/h), the system turns off and you need to take full control of the vehicle.

**Note:** If a maneuver is interrupted before completion, the system turns off. The steering wheel position will not indicate the actual position of the steering and you have to full take control of the vehicle.

With hands off the wheel (and nothing obstructing its movement) and the transmission in R (Reverse), the vehicle steers itself as instructions to safely move the vehicle back and forward in the space are displayed in the touch screen. While reversing, the touch screen displays a message instructing the driver to check their surroundings (for safety reasons) and to back-up slowly, accompanied by a corresponding graphic.



When you think the vehicle has enough space in front and behind it, or you hear a solid tone from the parking aid, bring the vehicle to a complete stop.





When automatic steering is finished, the touch screen displays a message indicating that the active park assist process is done. The driver is responsible for checking the parking job and making any necessary corrections before putting the transmission in P (Park).

**Deactivating the Park Assist Feature**

The system can be deactivated manually by:

- pressing the active park assist button
- grabbing the steering wheel
- driving above approximately 20 mph (35 km/h) for 30 seconds during an active park search
- driving above 7 mph (12 km/h) during automatic steering
- turning off the traction control system.

Certain vehicle conditions can also deactivate the system:

- Traction control has activated on a slippery or loose surface.
- Anti-lock brake system activation or failure.
- Any door (except the driver's) opens.
- Something touches the steering wheel.

If a problem occurs with the system, a warning message is displayed, followed by a chime. Occasional active park assist messages may occur in normal operation. For recurring or frequent active park assist faults, contact an authorized dealer to have your vehicle serviced.

**Troubleshooting the System**

<b>The system does not look for a space</b>
The traction control system may be off
Any door (except the driver's) may not be completely closed
<b>The system does not offer a particular space</b>
Something may be contacting the front bumper or side sensors
There is not enough room on both sides of the vehicle in order to park
There is not enough space for the parking maneuver on the opposite side of the parking space
The vehicle is farther than 5 ft (1.5 m) from the parking space
The vehicle is closer than 16 in. (40 cm) from neighboring parked vehicles
The transmission is in R (Reverse); the vehicle must be moving forward to detect a parking space
<b>The system does not position the vehicle where I want in the space</b>
The vehicle is rolling in the opposite direction of the transmission (i.e. rolling forward when R [Reverse] is selected)
The transmission is in R (Reverse); the vehicle must be moving forward to detect a parking space
An irregular curb along the parking space prevents the system from aligning the vehicle properly
Vehicles or objects bordering the space may not be positioned correctly
The vehicle was pulled too far past the parking space. The system performs best when you drive the same distance past the parking space
The tires may not be installed or maintained correctly (i.e. not inflated correctly, improper size, or of different sizes)
A repair or alteration has changed detection capabilities
A parked vehicle has a high attachment (i.e. salt sprayer, snowplow, moving truck bed, etc.)
The parking space length or position of parked objects changed after your vehicle passed
The temperature around your vehicle changes quickly (i.e. driving from a heated garage into the cold, or after leaving a car wash)

**REAR VIEW CAMERA SYSTEM (IF EQUIPPED)**

**!** **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:** Back up as slow as possible since higher speeds might limit your reaction time to stop the vehicle.

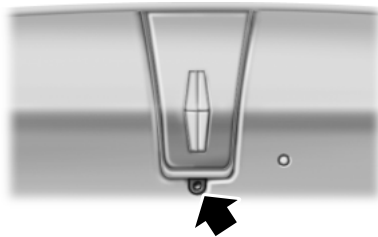
**!** **WARNING:** Use caution when using the rear video camera and the trunk is ajar. If the trunk is ajar, the camera will be out of position and the video image may be incorrect. All guidelines (if enabled) have been removed when the trunk is ajar.

**!** **WARNING:** Use caution when turning camera features on or off while in R (Reverse). Make sure the vehicle is not moving.

The rear view camera system provides a video image of the area behind the vehicle.

During operation, lines appear in the display which represent your vehicle's path and proximity to objects behind the vehicle.

The camera is located on the trunk.



**Using the Rear View Camera System**

The rear view camera system displays what is behind your vehicle when you place the transmission in R (Reverse). The system uses fixed guidelines which show the actual path the vehicle is moving in while reversing in a straight line. This can be helpful when backing into a parking space or aligning the vehicle with another object behind the vehicle.

**Note:** Do not use the camera system if the trunk is ajar.

**Note:** If the image comes on while the transmission is not in R (Reverse), have the system inspected by your authorized dealer.

**Note:** When towing, the camera only sees what is being towed behind the vehicle. This might not provide adequate coverage as it usually provides in normal operation and some objects might not be seen. In some vehicles, the guidelines may disappear once the trailer tow connector is engaged.

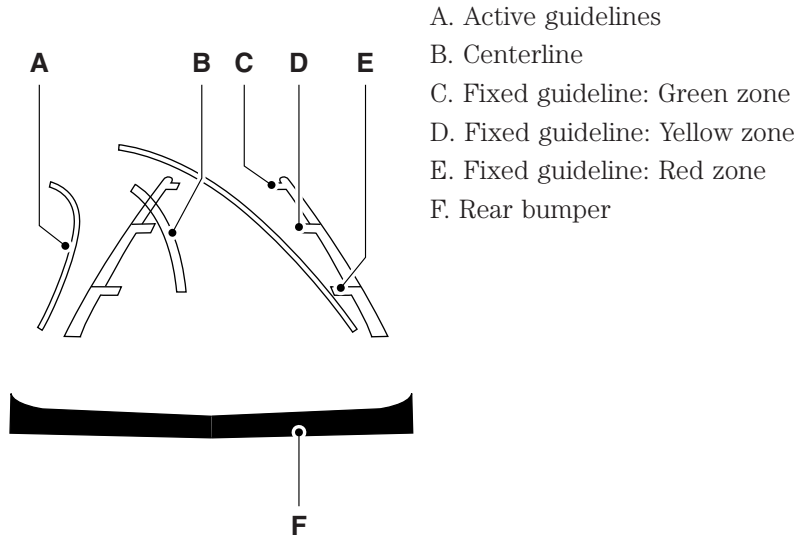
**Note:** The camera may not operate correctly under the following conditions:

- Nighttime or dark areas if one or both reverse lamps are not operating.
- The camera's view is obstructed by mud, water or debris. Clean the lens with a soft, lint-free cloth and non-abrasive cleaner.
- The rear of the vehicle is hit or damaged, causing the camera to become misaligned.

**Guidelines and the Centerline**

**Note:** Active guidelines and fixed guidelines are only available when the transmission is in R (Reverse).

**Note:** The centerline is only available if Active or Fixed guidelines are on.



Active guidelines are only shown with fixed guidelines. To use active guidelines, turn the steering wheel to point the guidelines toward an intended path. If the steering wheel position is changed while reversing, the vehicle might deviate from the original intended path.

The fixed and active guidelines fade in and out depending on the steering wheel position. When the steering wheel position is straight, the active guidelines are not shown.

Always use caution while reversing. Objects in the red zone are closest to your vehicle and objects in the green zone are further away. Objects are getting 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 the vehicle.

Selectable settings for this feature are ACTIVE + FIXED, FIXED and OFF.

**Visual Park Aid Alert**

**Note:** Visual park alert is only available when the transmission is in R (Reverse).

**Note:** The reverse sensing system is not effective at speeds above 3 mph (5 km/h) and may not detect certain angular or moving objects.

The visual park aid alert allows the driver to view the area that is being detected by the reverse sensing system. The system uses red, yellow and green highlights which appear on top of the video image when an object is detected by the reverse sensing system. The alert highlights the closest object detected. The reverse sensing alert can be disabled and if visual park aid alert is enabled, highlighted areas are still displayed.

Refer to *Adjusting the Rear View Camera Settings* above on how to enable or disable the visual park alert feature.

**Manual Zoom**

**WARNING:** When manual zoom is on, the full area behind the vehicle is not shown. Be aware of your surroundings when using the manual zoom feature.

**Note:** Manual zoom is only available when the transmission is in R (Reverse).

**Note:** When manual zoom is enabled, only the centerline is shown.

Allows the driver to get a closer view of an object behind the vehicle. The zoomed image keeps the bumper in the image to provide a reference. The zoom is only active while the transmission is in R (Reverse). When the transmission is shifted out of R (Reverse), the feature automatically turns off and must be reset when it is used again.

Selectable settings for this feature are OFF, Level 1, Level 2 or Level 3. Press the up and down arrows to change the view. The selection level appears between the buttons (i.e. Level 1). The default setting for the manual zoom is OFF.

**Rear Camera Delay**

When shifting the transmission out of R (Reverse) and into any gear other than P (Park), the camera image remains in the display until the vehicle speed reaches 6 mph (10 km/h). This occurs when the rear camera delay feature is on, or until a radio button is selected.

Selectable settings for this feature are ON and OFF. The default setting for the rear camera delay is OFF.

**PRINCIPLES OF OPERATION**

Cruise control lets you maintain a set speed without keeping your foot on the accelerator pedal.

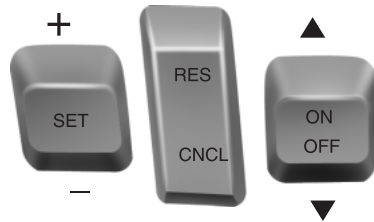
**USING CRUISE CONTROL**

**WARNING:** Do not use cruise control in heavy traffic or on roads that are winding, slippery or unpaved.

**Note:** Vehicle speed may vary momentarily when driving up or down a steep hill. Apply the brakes if the vehicle speed increases above the set speed while driving downhill.

**Note:** Cruise control will disengage if the vehicle speed decreases more than 10 mph (16 km/h) below your set speed while driving uphill.

The cruise controls are located on the steering wheel.

**Switching On Cruise Control**

Press the ON control up and release.



The indicator will turn on in the instrument cluster.

**Setting a Speed**

1. Accelerate to the desired speed.
2. Press the SET control upward and release.
3. Take your foot off the accelerator pedal.

The indicator will change colors in the instrument cluster.

**Changing the Set Speed**

- Press SET up or down and hold to increase or decrease the set speed. Release the control when you reach the desired speed.
- Press SET up or down and release. The set speed will change in approximately 1 mph (2 km/h) increments.
- Press the accelerator pedal or brake pedal until you reach the desired speed. Press SET up and release.

**Canceling a Set Speed**

Press CNCL or tap the brake pedal. The set speed will not be erased.

**Resuming a Set Speed**

Press and release RES.

**Switching Off Cruise Control**

**Note:** The set speed is erased when you switch off cruise control.

Press the OFF control down and release or turn off the ignition.

**USING ADAPTIVE CRUISE CONTROL (IF EQUIPPED)**

**WARNING:** Always pay close attention to changing road conditions, especially when using adaptive cruise control. Adaptive cruise control cannot replace attentive driving. Failing to follow any of the warnings below or failing to pay attention to the road may result in a collision, serious injury or death.



**WARNING:** Adaptive cruise control is not a collision warning or avoidance system. Additionally, adaptive cruise control will not detect:

- Stationary or slow moving vehicles below 6 mph (10 km/h).
- Pedestrians or objects in the roadway.
- Oncoming vehicles in the same lane.



**WARNING:** Do not use the adaptive cruise control when entering or leaving a highway, in heavy traffic or on roads that are winding, slippery or unpaved.



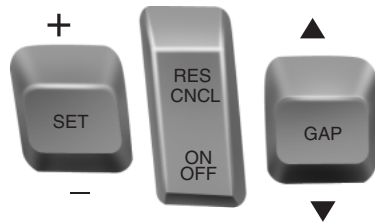


**WARNING:** Do not use in poor visibility, specifically fog, rain, spray or snow.

**Note:** It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

The system is designed to automatically adjust your speed to maintain a proper distance between you and the vehicle in front of you in the same lane. The driver can select from one of four GAP settings, the controls are located on the steering wheel.

At startup, the system sets the gap to the last selected setting. Once activated, the driver can deactivate the system at any time by pressing the brake pedal, pressing the steering wheel ON/OFF control or pressing the RES/CNCL control. In addition, the driver can temporarily increase the vehicle speed above the current speed by manually pressing on the accelerator pedal.



The controls for using your cruise control are located on the steering wheel.

### Setting Adaptive Cruise Control



1. Press and release ON.

The information display will show the gray indicator light, current gap setting and SET.

2. Accelerate to the desired speed.

3. Press SET upward and release. The vehicle speed will be stored in the memory.



The information display will show a green indicator light, current gap setting and desired set speed.

4. Take your foot off the accelerator pedal.



5. A lead vehicle graphic will illuminate if there is a vehicle detected in front of you.

### Following a Vehicle



**WARNING:** When following a vehicle in front of you, the vehicle will not decelerate automatically to a stop, nor will the vehicle always decelerate quickly enough to avoid a collision without driver intervention. Always apply the brakes when necessary. Failing to do so may result in a collision, serious injury or death.



**WARNING:** Adaptive cruise control only warns of vehicles detected by the radar sensor. In some cases there may be no warning or the warning may be delayed. The driver should always apply the brakes when necessary. Failing to do so may result in a collision, serious injury or death.

**Note:** The brakes may emit a sound when they are being modulated by the adaptive cruise control system.

When a vehicle ahead of you enters the same lane or a slower vehicle is ahead in the same lane, the vehicle speed will adjust automatically to maintain a preset gap distance. The distance setting is adjustable.

The lead vehicle graphic will be illuminated.

The vehicle will maintain a constant distance between 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 your lane or out of view
- the vehicle speed falls below 16 mph (26 km/h)
- a new gap distance is set.

The vehicle brakes will be automatically applied to slow the vehicle to maintain a safe distance from the vehicle in front. The maximum braking which is applied by the system is limited and can be overridden by the driver applying the brakes.

If the system predicts that its maximum braking level will not be sufficient, an audible warning will sound while the system continues to brake. This is accompanied by a heads-up display; a red warning bar illuminating on the windshield. The driver should take immediate action.

### Setting the Gap Distance

**Note:** It is the driver's responsibility to select a gap appropriate to the driving conditions.



The distance between your vehicle and the vehicle in front of you can be decreased or increased by pressing the GAP control up or down. The selected gap will be

displayed in the message center as shown by the bars in the graphic. Four gap distance settings are available.

Graphic display (bars between vehicles)	Following distance	Following distance at 60 mph (100 km/h)	Dynamic behavior
1 bar	1 second	29 yards (28 m)	Sporty
2 bars	1.5 seconds	44 yards (42 m)	Normal
3 bars	1.9 seconds	56 yards (53 m)	Normal
4 bars	2.3 seconds	66 yards (64 m)	Comfort

Each time the vehicle is restarted, the last chosen gap for the current driver will be automatically selected.

### Disengaging Adaptive Cruise Control

Press the brake pedal or press CNCL to disengage the system. The last set speed will be displayed with a strikethrough.

Disengaging the system will not erase your previous set speed.

### Overriding Adaptive Cruise Control



**WARNING:** Whenever the driver is overriding the ACC by pressing the accelerator pedal, the ACC will not automatically apply the brakes to maintain separation from any vehicle ahead.

The set speed and gap distance can be overridden by pressing the accelerator pedal.



When the driver is overriding the system, the green indicator light is illuminated, and the follow vehicle is not shown in the information display. The system will resume operation when you release the accelerator pedal. The vehicle speed will decrease to the set speed, or a lower speed if following a slower vehicle.

### Changing the Set Speed

There are three ways to change the set speed:

- Accelerate or brake to the desired speed and press SET upward and release.
- Increase or decrease the speed by holding SET upward or downward until the desired set speed is shown on the information display. The vehicle speed will gradually change to the selected speed.
- Increase or decrease the speed in increments of 1 mph (2 km/h) by briefly pressing the SET upward or downward.

The system may apply the brakes to slow the vehicle down to the new set speed. The set speed will display continuously in the information display while the system is active.

### Resuming the Set Speed

**Note:** Resume should only be used if the driver is aware of the set speed and intends to return to it.

Press and release RES/CNCL. The vehicle will return to the previously set speed. The set speed will display continuously in the information display while the system is active.

**Low Speed Automatic Cancellation**

The system is not functional at vehicle speeds below 16 mph (26 km/h). An audible alarm will sound and the automatic braking will be released if the vehicle drops below this speed.

**Hilly Condition Usage**

**Note:** An audible alarm will sound and the system will shut down if it is applying brakes for an extended period of time. This allows the brakes to cool down. The system will function normally again when the brakes have cooled down.

You should select a lower gear position when the system is active in situations such as prolonged downhill driving on steep grades (i.e., driving in mountainous areas). Additional engine braking is needed in these situations to reduce the load on the vehicle's regular brake system to prevent them from overheating.

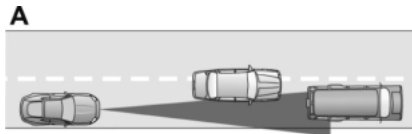
**Switching Off Adaptive Cruise Control**

**Note:** The set speed memory is erased when you turn off the system. Press and release OFF or turn off the ignition.

**Detection Issues**

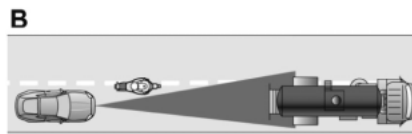
The radar sensor has a limited field of vision. It may not detect vehicles at all or detect a vehicle later than expected in some situations. The lead vehicle graphic will not illuminate if a vehicle is not detected in front of you.

Detection issues can occur:

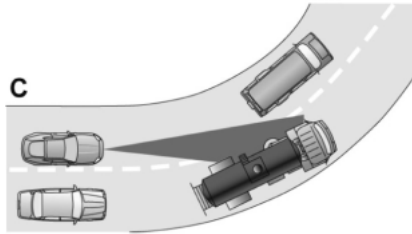


A. When driving on a different line than the vehicle in front.

B. With vehicles that edge into your lane. These vehicles can only be detected once they have moved 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. The driver should stay alert and intervene when necessary.

If the front end of the vehicle is hit or damaged, the radar sensing zone may be altered causing missed or false vehicle detections. See your authorized dealer to have the radar checked for proper coverage and operation.

#### **Adaptive Cruise Control Not Available**

Several conditions exist which can cause the system to deactivate or prevent the system from activating when requested. These conditions include:

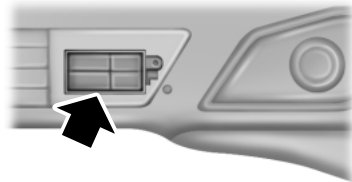
- a blocked sensor
- high brake temperature
- a failure in the system or a related system.

**Blocked Sensor**

**WARNING:** Do not use ACC when towing a trailer with brake controls. Aftermarket trailer brakes will not function properly when ACC is activated because the brakes are electronically controlled. Failing to do so may result in loss of vehicle control, which could result in serious injury.



**WARNING:** Do not use tires sizes other than those recommended because this can affect the normal operation of ACC. Failing to do so may result in a loss of vehicle control, which could result in serious injury.



A message regarding a blocked sensor is displayed if the radar signals from the sensor have been obstructed. The sensor is located behind a fascia cover near the driver side of the lower grille. A vehicle ahead cannot be detected and the system will not function

when the radar signals are obstructed. The following table lists possible causes and actions for this message being displayed.

Cause	Action
The surface of the radar in the grille is dirty or obstructed in some way	Clean the grille surface in front of the radar or remove the object causing the obstruction
The surface of the radar in the grille is clean but the message remains in the display	Wait a short time. It may take several minutes for the radar to detect that it is no longer obstructed
Heavy rain or snow is interfering with the radar signals	Do not use ACC in these condition because it may not detect, warn, or respond to potential collisions.
Swirling water, or snow or ice on the surface of the road may interfere with the radar signals	Do not use ACC in these condition because it may not detect, warn, or respond to potential collisions.
Desert / remote area with no other vehicles and no roadside objects	Wait a short time or switch to normal cruise control.

Due to the nature of radar technology, it is possible to get a blockage warning and not be blocked. This can happen, for example, when driving in sparse rural or desert environments. A false blocked condition will either self clear or clear after a key cycle.

### Switching to Normal Cruise Control



**WARNING:** Normal cruise control will not brake due to slower vehicles. Always be aware of which mode is selected and apply the brakes when necessary.

You can manually change from adaptive cruise control to normal cruise control through the information display.



The cruise control indicator light will replace the adaptive cruise control indicator light if normal cruise control is selected. The gap setting will not be displayed, the system will not automatically respond to lead vehicles and automatic braking will not be activated. The system will default to adaptive cruise control when the engine is started.



**DRIVER ALERT (IF EQUIPPED)**

**WARNING:** The driver alert system is designed to aid you. It is not intended to replace your attention and judgment. You are still responsible to drive with due care and attention.

**Note:** The system will store the on/off setting in the information display menu through ignition cycles.

**Note:** If enabled in the menu, the system will be active above the 40 mph (64 km/h).

**Note:** The system works as long as one lane marking can be detected by the camera.

**Note:** If the camera is blocked or if the windshield is damaged, the system may not function.

**Note:** The system may not be available in poor weather or other low visibility conditions.

The system automatically monitors your driving behavior using various inputs including the front camera sensor.

If the system detects that your driving alertness is reduced below a certain threshold, the system will alert you using a chime and a message in the cluster display

**Switching the System On and Off**

By default, the system is enabled. You may disable or re-enable the system by selecting Setting then Driver Assist then Driver Alert in the menu. When activated, the system will monitor your alertness level based upon your driving behavior in relation to the lane markings, and other factors.

**System Warnings**

**Note:** The system will not issue warnings below approximately 40 mph (65 km/h).

The warning system is in two stages. At first the system issues a temporary warning that you need to take a rest. This message will only appear for a short time. If the system detects further reduction in driving alertness, another warning may be issued which will remain in the information display for a longer time. Press OK on the steering wheel control to clear the warning.

### System Display

When active the system will run automatically in the background and only issue warning if required. You can view the status at any time using the information display.

Select Information then Driver Alert to show the status screen in the information display.

The alertness level is shown by six steps in a colored bar.



The current assessment of your alertness is within a typical range.



The current assessment of your alertness indicates that you should rest as soon as safely possible.

The status bar will travel from left to right as the calculated alertness level decreases. As the rest icon is approached the color turns from green to yellow to red. The yellow position represents the first warning is active and the red position represents the second warning is active.

**Note:** If you have recently received a warning; you should consider resting, even if the current assessment is with the typical range.

**Note:** The alertness level will be show in grey if the camera sensor cannot track the road lane markings or if the vehicle speed drops below approximately 40 mph (65 km/h).

### Resetting the System

You can reset the system by either:

- Switching the ignition off and on.
- Stopping the vehicle and then opening and closing the driver's door.

**LANE KEEPING SYSTEM (IF EQUIPPED)**

**WARNING:** The system is designed to aid the driver. It is not intended to replace the driver's attention and judgment. The driver is still responsible to drive with due care and attention.

The system detects unintentional drifting toward the outside of the lane and alerts and/or aids the driver to stay in the lane through the steering system and instrument cluster display. The system automatically detects and tracks the road lane markings using a camera that is mounted behind the interior rear view mirror.

**Note:** The system needs to be activated by the driver at each key cycle.

**Note:** The system works above 40 mph (64 km/h).

**Note:** The system works as long as one lane marking can be detected by the camera.

**Note:** If the camera is blocked or if the windshield is damaged, the system may not function.

**Note:** When Aid mode is on and the driver's hands are off the steering wheel for a short continuous period of time, the system alerts the driver to put their hands on the steering wheel. The system may detect a light grip/touch on the steering wheel as hands off driving. See *System settings*.

**Switching the System On and Off**

To turn the system on, the button must be pressed each time the vehicle is started. The system can be turned off by pressing the button again.

**Note:** The system is defaulted to off each time the vehicle is started, unless a MyKey® is detected. If a MyKey® is detected, the system is defaulted to on.

**Note:** If a MyKey® is detected, pressing the button will not affect the on/off status of the system. Only the Mode, Sensitivity and Intensity settings can be changed when a MyKey® is present.

**System Settings**

The system has three optional setting menus available. To view or adjust them, select Settings > Vehicle Settings > Driver Assist > Lane Keeping Sys in the left-hand instrument cluster display using the OK button on the steering wheel. The last-known selection for each of these settings is stored by the system. You do not need to readjust your settings each time you turn on the system.

**Mode:** This setting allows the driver to select which of the system features will be enabled and turned on when the button is pressed.

- Alert only – Provides a steering wheel vibration when an unintended lane departure is detected.
- Aid only – Provides a steering input toward the lane center when an unintended lane departure is detected.
- Alert + Aid

**Sensitivity:** This setting affects where in the lane a warning is provided (e.g. the increased sensitivity setting will move the warning zones in closer). This setting does not impact the aid mode.

- Normal
- Increased

**Intensity:** This setting affects the intensity of the steering wheel vibration used for the alert mode. This setting does not impact the aid mode.

- Low
- Medium
- High

**System Display**

When the system is turned on, an overhead graphic of a vehicle with lane markings will be displayed in the left-hand instrument cluster display. If the aid mode is selected when the system is turned on, a separate white icon will also appear in the instrument cluster.

When the system is turned off, the lane marking graphics will not be displayed.

**Note:** The overhead vehicle graphic may still be displayed if adaptive cruise control is enabled.

While the system is on, the color of the lane markings will change to indicate the system status.

Gray: Indicates that the system is temporarily unable to provide a warning or intervention on the indicated side(s). This may be because:

- the vehicle is under the activation speed
- the turn indicator is active
- the vehicle is in a dynamic maneuver
- the road has no or poor lane markings in the camera field-of-view
- the camera is obscured or unable to detect the lane markings due to environmental conditions (e.g. significant sun angles or shadows, snow, heavy rain, fog), traffic conditions (e.g. following a large vehicle that is blocking or shadowing the lane), or vehicle conditions (e.g. poor headlamp illumination).

See *Troubleshooting* for additional information.

Green: Indicates that the system is available or ready to provide a warning or intervention, on the indicated side(s).

Yellow: Indicates that the system is providing or has just provided a lane keeping aid intervention.

Red: Indicates that the system is providing or has just provided a lane keeping alert warning.

The system can be temporarily suppressed at any time by the following:

- Pressing the button
- Quick braking
- Fast acceleration
- Using the turn signal indicator
- Evasive steering maneuver

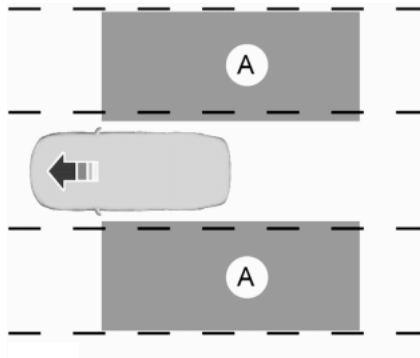
**Troubleshooting**

<b>Why is the feature not available (line markings are gray) when I can see the lane markings on the road?</b>
Vehicle speed is outside the operational range of the feature
Sun is shining directly into the camera lens
Quick intentional lane change
Staying too close to the lane marking
Driving at high speeds in curves
Previous feature activation happened within the last one second
Ambiguous lane markings (mainly in construction zones)
Rapid transition from light to dark or vice versa
Sudden offset in lane markings
ABS or AdvanceTrac activation
Camera blockage due to dirt, grime, fog, frost or water on the windshield
Too close to the vehicle in front of you
Transitioning between no lane markings to lane markings or vice versa
Standing water on the road
Faint lane markings (partial yellow lane markings on concrete roads)
Lane width too narrow or too wide
Camera not calibrated after a windshield replacement
When driving on tight roads or on uneven roads
<b>Why does the vehicle not come back into the middle of the lane always, as expected, in the Aid or Aid + Alert mode?</b>
High cross winds
Large road crown
Rough roads, grooves, shoulder drop-offs
Heavy uneven loading of the vehicle or improper tire inflation pressure
If the tires have been exchanged (including snow tires), or the suspension has been modified

### BLIND SPOT INFORMATION SYSTEM (BLIS®) WITH CROSS TRAFFIC ALERT (CTA) (IF EQUIPPED)



**WARNING:** To help avoid injuries, NEVER use the BLIS® as a replacement for using the interior and exterior mirrors and looking over your shoulder before changing lanes. BLIS® is not a replacement for careful driving and only an assist.



BLIS® aids the driver in detecting vehicles that may have entered the blind spot zone (A). The detection area is on both sides of the vehicle, extending rearward from the exterior mirrors to approximately 10 feet (3 meters) beyond the bumper. The system alerts you if certain vehicles enter the blind spot zone while driving.

BLIS® aids the driver in detecting vehicles that may have entered the blind spot zone (A). The detection area is on both sides of the vehicle, extending rearward from the exterior mirrors to approximately 10 feet (3 meters) beyond the bumper. The system alerts you if certain vehicles enter the blind spot zone while driving.

CTA warns the driver of vehicles approaching from the sides when the transmission is in R (Reverse).

**Note:** BLIS® is not designed to prevent contact with other vehicles or objects; or to detect parked vehicles, people, animals or infrastructure (fences, guardrails, trees, etc.). It is designed to alert the driver to vehicles in the blind zones.

**Note:** When a vehicle passes quickly through the blind zone (typically fewer than two seconds), the system does not trigger.

### Using the Systems

BLIS® turns on when the engine is started and the vehicle is driven forward above 3 mph (5 km/h); it remains on while the transmission is in D (Drive) and N (Neutral). If shifted out of D (Drive) or N (Neutral), the system enters CTA mode. Once shifted back into D (Drive), BLIS® turns back on when the vehicle is driven above 3 mph (5 km/h).

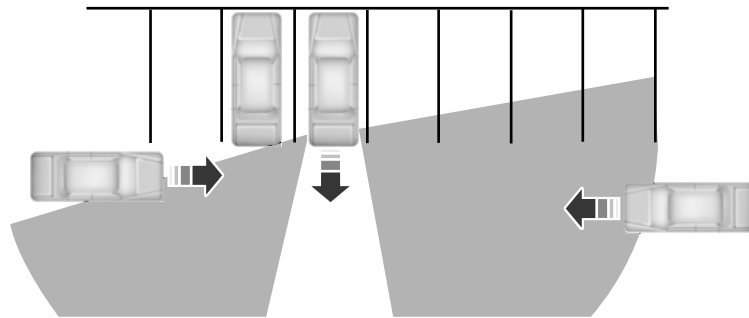
**Note:** BLIS® does not function in R (Reverse) or P (Park) or provide any additional warning when a turn signal is on.

CTA detects approaching vehicles from up to 45 feet (14 meters) away though coverage decreases when the sensors are blocked. Reversing slowly helps increase the coverage area and effectiveness.



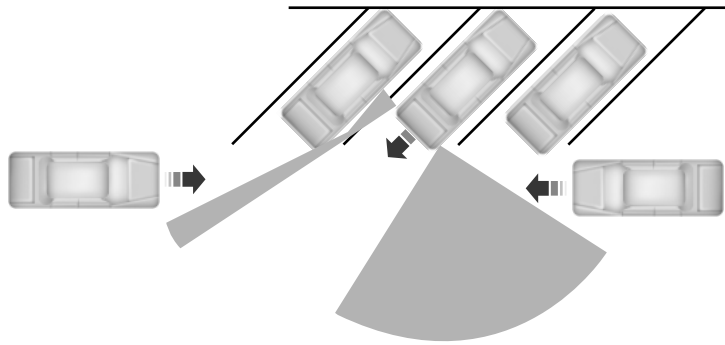
**WARNING:** To help avoid personal injury, NEVER use the CTA system as a replacement for using the interior and exterior mirrors and looking over your shoulder before backing out of a parking space. CTA is not a replacement for careful driving and only an assist.

In this first example, the left sensor is only partially obstructed; zone coverage is nearly maximized.





Zone coverage also decreases when parking at shallow angles. Here, the left sensor is mostly obstructed; zone coverage on that side is severely limited.



**System Lights and Messages**



The BLIS® and CTA systems illuminate a yellow alert indicator in the outside mirror on the side of the vehicle the approaching vehicle is coming from.

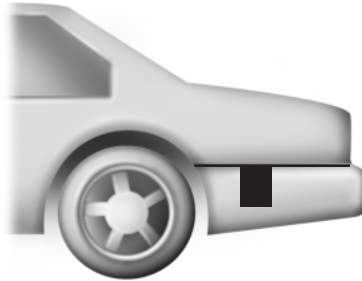
**Note:** The alert indicator dims when the headlamp switch is not in the off position and nighttime darkness is detected.

CTA also sounds a series of tones and a message appears in the information display indicating a vehicle is coming from the right or left. CTA works with the reverse sensing system which sounds its own series of tones; see the *Parking Aids* chapter.

**System Sensors**

**WARNING:** Just prior to the system recognizing a blocked condition and alerting the driver, the number of missed objects will increase. To help avoid injuries, NEVER use the BLIS® as a replacement for using the side and rear view mirrors and looking over your shoulder before changing lanes. BLIS® is not a replacement for careful driving and only an assist.

**Note:** It is possible to get a blockage warning with no blockage present; this is rare and known as a false blockage warning. A false blocked condition either self-corrects or clears after a key cycle.



The system uses radar sensors which are located behind the bumper fascia on each side of the vehicle. Do not allow these areas to become obstructed by mud, snow or bumper stickers, as this can cause degraded system performance.

If the system detects a degraded performance condition, **BLIND SPOT NOT AVAILABLE**, or **CROSS TRAFFIC NOT AVAILABLE** appear in the information display and the alert indicator illuminates in the appropriate mirror(s). The information display warning can be cleared but the alert indicator remains illuminated.

When the blockage is removed, the system can be reset in two ways: 1) when at least two objects are detected while driving, or 2) turn the ignition key from on to off, then back on. If the blockage is still present after the key cycle, the system senses again that it is blocked after driving in traffic.

Reasons for messages being displayed	
The radar surface is dirty or obstructed	Clean the fascia area in front of the radar or remove the obstruction.
The radar surface is not dirty or obstructed	Drive normally in traffic for a few minutes to allow the radar to detect passing vehicles so it can clear the blocked state.
Heavy rainfall/snowfall interferes with the radar signals	No action required. The system automatically resets to an unblocked state once the rainfall/snowfall rate decreases or stops. Do not use BLIS® and/or CTA in these conditions.

**System Limitations**

The BLIS® and CTA systems do have their limitations; situations such as severe weather conditions or debris build-up on the sensor area may limit vehicle detection.

The following are other situations that may limit the BLIS®:

- Certain maneuvering of vehicles entering and exiting the blind zone.
- Vehicles passing through the blind zone at very fast rates.
- When several vehicles forming a convoy pass through the blind zone.

The following are other situations that may limit the CTA system:

- Adjacently parked vehicles or objects obstructing the sensors.
- Approaching vehicles passing at speeds greater than 15 mph (24 km/h).
- Driving in reverse faster than 3 mph (5 km/h).
- Backing out of an angled parking spot.

**False Alerts**

**Note:** If the vehicle has a factory equipped tow bar, and it is towing a trailer, the sensors will detect the trailer and turn the BLIS off to avoid false alerts. For non-factory equipped tow bars you may want to turn the BLIS off manually.

There may be certain instances when either the BLIS® or CTA systems illuminate the alert indicator with no vehicle in the coverage zone; this is known as a false alert. Some amount of false alerts are normal; they are temporary and self-correct.

### System Errors

If either system senses a problem with the left or right sensor, the BLIS® indicator in the information display will illuminate and remain on. Also, **BLIND SPOT SYSTEM FAULT** or **CROSS TRAFFIC SYSTEM FAULT** message will appear. When problems that may cause the left or right indicator not to illuminate, only the information display message faults appear.

### Switching the Systems Off and On

One or both systems can be switched off temporarily by using the information display control; refer to the *Information Display* chapter. When the BLIS® is switched off, the driver does not receive alerts and the information display shows BLIND SPOT SYS OFF and/or CTA SYSTEM OFF. The system switches back on whenever the ignition is switched on.

One or both systems can also be switched off permanently at your authorized dealer. Once switched off, switching it back on must also be done at the dealership.

### COLLISION WARNING SYSTEM (IF EQUIPPED)



**WARNING:** This system is designed to be a supplementary driving aid. It is not intended to replace the driver's attention, and judgment, or the need to apply the brakes. This system does NOT activate the brakes automatically. Failure to press the brake pedal to activate the brakes may result in a collision.



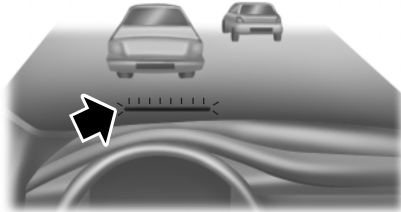
**WARNING:** The collision warning system with brake support cannot help prevent all collisions. Do not rely on this system to replace driver judgment and the need to maintain distance and speed.

**Note:** The system does not detect, warn or respond to potential collisions with vehicles to the rear or sides of the vehicle.

**Note:** The collision warning system is active at speeds above approximately 5 mph (8 km/h).



This system is designed to alert the driver of certain collision risks. A radar detects if your vehicle is rapidly approaching another vehicle traveling in the same direction as yours.



If it is, a red warning light illuminates and an audible warning chime sounds.

The brake support system assists the driver in reducing the collision speed by charging the brakes. If the risk of collision further increases after the warning light illuminates, the brake support prepares the brake system for rapid braking. This may be apparent to the driver. The system does not automatically activate the brakes but, if the brake pedal is pressed, full force braking is applied even if the brake pedal is lightly pressed.

#### Using the Collision Warning System

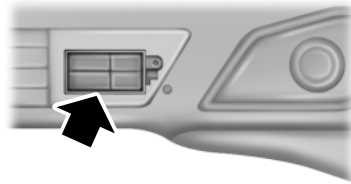


**WARNING:** The collision warning system's brake support can only help reduce the speed at which a collision occurs if the driver applies the vehicle's brakes. The brake pedal must be pressed just like any typical braking situation.

The warning system and chime can be turned on and off separately; the warning system sensitivity can be adjusted to one of three possible settings by using the information display control. Refer to the *Information Displays* chapter.

**Note:** If the system cannot be turned off in a vehicle equipped with MyKey®, refer to the *MyKey®* chapter.

**Note:** If collision warnings are perceived as being too frequent or disturbing then the warning sensitivity can be reduced, though the manufacturer recommends using the highest sensitivity setting where possible. Setting lower sensitivity would lead to fewer and later system warnings. Refer to the *Information Displays* chapter for instructions on reducing the sensitivity.

**Blocked Sensors**

If a message regarding a blocked sensor appears in the information display, the radar signals from the sensor have been obstructed. The sensors are located behind a fascia cover near the driver side of the lower grille. When the sensors are obstructed, a vehicle ahead cannot

be detected and the collision warning system does not function. The following table lists possible causes and actions for this message being displayed.

<b>Cause</b>	<b>Action</b>
The surface of the radar in the grille is dirty or obstructed in some way	Clean the grille surface in front of the radar or remove the object causing the obstruction
The surface of the radar in the grille is clean but the message remains in the display	Wait a short time. It may take several minutes for the radar to detect that it is no longer obstructed
Heavy rain, spray, snow, or fog is interfering with the radar signals	The collision warning system is temporarily disabled. Collision warning should automatically reactivate a short time after the weather conditions improve.
Swirling water, or snow or ice on the surface of the road may interfere with the radar signals	The collision warning system is temporarily disabled. Collision warning should automatically reactivate a short time after the weather conditions improve.

**System Limitations**

**WARNING:** The collision warning system's brake support can only help reduce the speed at which a collision occurs if the driver applies the vehicle's brakes. The brake pedal must be pressed just like any typical braking situation.

Due to the nature of radar technology, there may be certain instances where vehicles do not provide a collision warning. These include:

- Stationary vehicles or vehicles moving below 6 mph (10 km/h).
- Pedestrians or objects in the roadway.
- Oncoming vehicles in the same lane.
- Severe weather conditions (see blocked sensor section).
- Debris build-up on the grille near the headlamps (see blocked sensor section).
- Small distance to vehicle ahead.
- Steering wheel and pedal movements are large (very active driving style).
- High interior temperatures, which may deactivate the illumination or the warning lamps until the interior temperature reduces (audible warning still sounds).

Certain conditions may reduce the visibility of the warning lamp; therefore, it is recommended to keep the audible warning on.

If the front end of the vehicle is hit or damaged, the radar sensing zone may be altered causing missed or false collision warnings. See your authorized dealer to have your collision warning radar checked for proper coverage and operation.

**LINCOLN DRIVE CONTROL**

The Lincoln driving experience is delivered through a suite of sophisticated electronic vehicle systems that continuously monitor both your inputs and the road conditions to optimize ride comfort, steering, handling, and powertrain response and sound.

These systems include:

- Continuously Controlled Damping which dynamically adjusts the shock absorbers in real time to match the road surface and your inputs.
- Electronically Power-Assisted Steering which adjusts steering effort and feel based on vehicle speed and your inputs.

- Active Noise Control which utilizes vehicle electronics to enhance the acoustic experience.
- Electronic Stability Control and Traction Control which maintain vehicle control in adverse conditions or high performance driving.
- Electronic Throttle Control which enhances the powertrain response to your inputs.

These systems have a range of modes which you can choose from in order to customize your ideal driving experience:

- Comfort – Provides a more relaxed driving experience. Steering effort is decreased, suspension movement is more fluid. Comfort mode is ideal when enhanced traveling comfort is desired.
- Normal – Delivers a balanced combination of comfortable, controlled ride and confident handling and powerful yet quiet powertrain sound. This mode provides an engaging drive experience and a direct connection to the road without sacrificing any of the composure demanded from a luxury vehicle. Unwanted noises from the powertrain are cancelled while desired sounds are shaped to deliver a smooth powerful note. This setting is ideal for everyday use and daily driving.
- Sport – Provides a sportier driving experience. Suspension stiffens, with an emphasis on handling and control. The engine responds more directly to your inputs and takes on a more powerful tone. Sport mode is intended to be used during more spirited driving.

### **Setting up Lincoln Adaptive Drive**

You can configure which of the Adaptive Drive modes is active when the vehicle is in D (Drive) or in S (Sport). The configuration is retained until modified from the main menu on the information display using the following procedure:

1. Choose Settings.
2. Choose Driver Assist.
3. Choose Adaptive Drive.
4. Select the shift position you would like to configure, either D or S.
5. Choose from Comfort, Normal, or Sport modes as your preferred setting in D.
6. Choose from Normal or Sport modes as your preferred setting in S.



**STEERING****Electric Power Steering**

**WARNING:** The electric power steering system has diagnostic checks that continuously monitor the system to ensure proper operation. When a system error is detected a steering message will appear in the information display.



**WARNING:** The electric power steering system has diagnostic checks that continuously monitor the system to ensure proper operation of the electronic system. When an electronic error is detected, a message will be displayed in the information display. If this happens, stop the vehicle in a safe place, and turn off the engine. After at least 10 seconds, reset the system by restarting the engine, and watch the information display for a steering message. If a steering message returns, or returns while driving, take the vehicle to your dealer to have it checked.



**WARNING:** Obtain immediate service if a system error is detected. You may not notice any difference in the feel of your steering, but a serious condition may exist. Failure to do so may result in loss of steering control.

Your vehicle is equipped with an electric power-assisted steering system. There is no fluid reservoir to check or fill.

If your vehicle loses electrical power while you are driving (or if the ignition is turned off), you can steer the vehicle manually, but it takes more effort. Extreme continuous steering may increase the effort it takes for you to steer. This occurs to prevent internal overheating and permanent damage to your steering system. If this should occur, you will neither lose the ability to steer the vehicle manually nor will it cause permanent damage. Typical steering and driving maneuvers will allow the system to cool and steering assist will return to normal.

When a steering system error is detected, steering messages may appear in the information display.

#### ***Steering Tips***

If the steering wanders or pulls, check for:

- an improperly inflated tire
- uneven tire wear
- loose or worn suspension components
- loose or worn steering components
- improper vehicle alignment

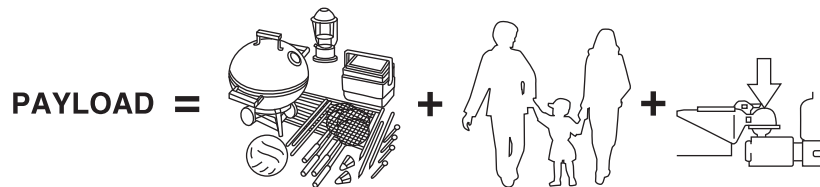
A high crown in the road or high crosswinds may also make the steering seem to wander/pull.

**LOAD LIMIT****Vehicle Loading – With and Without a Trailer**

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, with or without a trailer, from the vehicle's Tire Label or Safety Compliance Certification Label:

**Base Curb Weight** – is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

**Vehicle Curb Weight** – is the weight of your new vehicle when you picked it up from your authorized dealer plus any aftermarket equipment.



**Payload** – is the combined weight of cargo and passengers that the vehicle is carrying. The maximum payload for your vehicle can be found on the Tire Label on the B-Pillar or the edge of the driver's door (vehicles exported outside the US and Canada may not have a Tire 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 Label is the maximum payload for the vehicle as built by the assembly plant. If any aftermarket or authorized-dealer installed equipment has been installed on the vehicle, the weight of the equipment must be subtracted from the payload listed on the Tire Label in order to determine the new payload.

**!** **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.

**Example only:**

**TIRE AND LOADING INFORMATION**

SEATING CAPACITY	TOTAL 5	FRONT 2	REAR 3
------------------	---------	---------	--------

The combined weight of occupants and cargo should never exceed : **XXX kg or XXX lbs.**

TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION
FRONT	LT225/75R 16.5E	200 KPA, 29 PSI	
REAR	LT225/75R 16.5E	200 KPA, 29 PSI	
SPARE	T145/80D16 P225/60R17	420 KPA, 60 PSI 200 KPA, 29 PSI	

**TIRE AND LOADING INFORMATION**  
**RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT**

SEATING CAPACITY NOMBRE DE PLACES	TOTAL 5	FRONT AVANT 2	REAR ARRIERE 3
--------------------------------------	---------	------------------	-------------------

The combined weight of occupants and cargo should never exceed **492 kg or 1085 lbs.**  
Le poids total des occupants et du chargement ne doit jamais dépasser **492 kg ou 1085 lb.**

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS A FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
FRONT AVANT	P235/70R16	240 KPA, 35 PSI	VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS
REAR ARRIERE	P235/70R16	240 KPA, 35 PSI	
SPARE DE SECOURS	T145/90R17	415 KPA, 60 PSI	

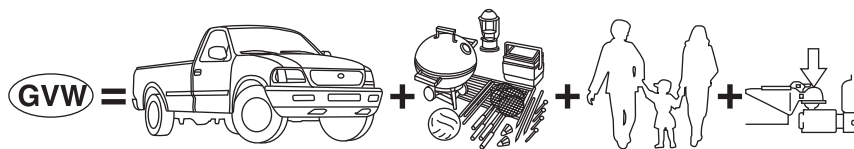


**Cargo Weight** – includes all weight added to the Base Curb Weight, including cargo and optional equipment. When towing, trailer tongue load weight is also part of cargo weight.

**GAW (Gross Axle Weight)** – is the total weight placed on each axle (front and rear) – including vehicle curb weight and all payload.

**GAWR (Gross Axle Weight Rating)** – is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label. The label shall be 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. The total load on each axle must never exceed its GAWR.**

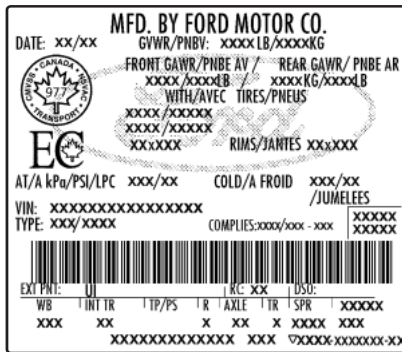
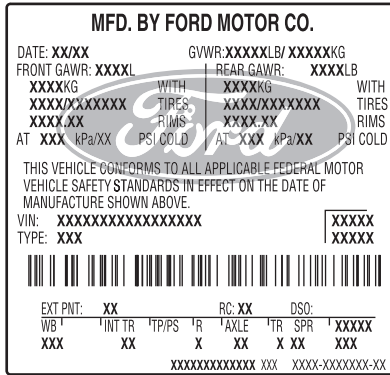
**Note:** For trailer towing information refer to *Trailer towing* found in this chapter or the *RV and Trailer Towing Guide* provided by your authorized dealer.



**GVW (Gross Vehicle Weight)** – is the Vehicle Curb Weight + cargo + passengers.

**GVWR (Gross Vehicle Weight Rating)** – is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label. The label shall be 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. The GVW must never exceed the GVWR.**

- Example only:



**!** **WARNING:** Exceeding the Safety Compliance Certification Label vehicle weight rating limits could result in substandard vehicle handling or performance, engine, transmission and/or structural damage, serious damage to the vehicle, loss of control and personal injury.



**GCW (Gross Combined Weight)** – is the weight of the loaded vehicle (GVW) plus the weight of the fully loaded trailer.

**GCWR (Gross Combined Weight Rating)** – 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 GVWR, not at GCWR. Separate functional brakes should be used for safe control of towed vehicles and for trailers where the GCW of the towing vehicle plus the trailer exceed the GVWR of the towing vehicle. **The GCW must never exceed the GCWR.**

**Maximum Loaded Trailer Weight** – is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with only mandatory options, no cargo (internal or external), a tongue load of 10–15% (conventional trailer), and driver only (150 lb. [68 kg]). **Consult your authorized dealer (or the *RV and Trailer Towing Guide* provided by your authorized dealer) for more detailed information.**

**!** **WARNING:** Do not exceed the GVWR or the GAWR specified on the Safety Compliance Certification Label.



**WARNING:** Do not use replacement tires with lower load carrying capacities than the original tires because they may lower the 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:** Exceeding any vehicle weight rating limitation could result in serious damage to the vehicle and/or personal injury.

#### 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 lbs." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. ( $1400 - 750 (5 \times 150) = 650$  lb.). In metric units ( $635 - 340 (5 \times 68) = 295$  kg.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
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.

The following gives you a few examples on how to calculate the available amount of cargo and luggage load capacity:

- Another example for your vehicle with 1,400 lb. (635 kg) of cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, 4 of your friends and all the golf bags? You and four friends average 220 lb. (99 kg) each and the golf bags weigh approximately 30 lb. (13.5 kg) each. The calculation would be:  $1,400 - (5 \times 220) - (5 \times 30) = 1,400 - 1,100 - 150 = 150$  lb. Yes, you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be:  $635 \text{ kg} - (5 \times 99 \text{ kg}) - (5 \times 13.5 \text{ kg}) = 635 - 495 - 67.5 = 72.5$  kg.



- A final example for your vehicle with 1,400 lb. (635 kg) of 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 2 years. Measuring the inside of the vehicle with the rear seat folded down, you have room for 12-100 lb. (45 kg) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 lb. (99 kg), the calculation would be:  $1,400 - (2 \times 220) - (12 \times 100) = 1,400 - 440 - 1,200 = -240$  lb. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be:  $635 \text{ kg} - (2 \times 99 \text{ kg}) - (12 \times 45 \text{ kg}) = 635 - 198 - 540 = -103$  kg. You will need to reduce the load weight by at least 240 lb. (104 kg). If you remove 3-100 lb. (45 kg) cement bags, then the load calculation would be:

$1,400 - (2 \times 220) - (9 \times 100) = 1,400 - 440 - 900 = 60$  lb. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be:  $635 \text{ kg} - (2 \times 99 \text{ kg}) - (9 \times 45 \text{ kg}) = 635 - 198 - 405 = 32$  kg.

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. The label shall be 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.

**TOWING A TRAILER**

**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 the vehicle and could result in engine damage, transmission damage, structural damage, loss of vehicle control, vehicle rollover and personal injury.

Your vehicle's load capacity is designated by weight, not by volume, so you cannot necessarily use all available space when loading a vehicle.

Towing a trailer places an additional load on your vehicle's engine, transmission, axle, brakes, tires and suspension. Inspect these components periodically during, and after, any towing operation.

**Load Placement**

To help minimize how trailer movement affects the vehicle when driving:

- Load the heaviest items closest to the trailer floor.
- Load the heaviest items so they are 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.
- Select a tow bar 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 the vehicle, when viewed from the side.

When driving with a trailer or payload, a slight takeoff vibration or shudder may be present due to the increased payload weight. Additional information regarding proper trailer loading and setting your vehicle up for towing is noted under *Load limit* in the *Load Carrying* chapter and in the *RV & Trailer Towing Guide*, available at your authorized dealer.

**RECOMMENDED TOWING WEIGHTS**

**Note:** Do not exceed the trailer weight for your vehicle configuration listed in the chart below.

**Note:** Make sure to take into consideration trailer frontal area. Do not exceed:

- 12 feet<sup>2</sup> (1.11 meters<sup>2</sup>) trailer frontal area.

**Note:** For high altitude operation, reduce the gross combined weight by 2% per 1000 feet (300 meters) starting at the 1000 foot (300 meter) elevation point.

**Note:** Certain states require electric trailer brakes for trailers over a specified weight. Be sure to check state regulations for this specified weight. The maximum trailer weights listed may be limited to this specified weight, as the vehicle's electrical system may not include the wiring connector needed to activate electric trailer brakes.

Your vehicle may tow a Class I trailer provided the maximum trailer weight is less than or equal to the maximum trailer weight listed for your vehicle configuration on the following chart.

Powertrain	Maximum Trailer Weight - lb (kg)
3.7L TiVCT FWD	1000 (454)
3.7L TiVCT AWD	1000 (454)
3.5L GTDI AWD	1000 (454)

### ESSENTIAL TOWING CHECKS

Follow these guidelines to ensure safe towing:

- Do not tow a trailer until your vehicle has been driven at least 1000 miles (1600 kilometers).
- Consult your local motor vehicle laws for towing a trailer.
- Refer to the instructions included with towing accessories for the proper installation and adjustment specifications.
- Service your vehicle more frequently if you tow a trailer. Refer to your scheduled maintenance information.
- If you use a rental trailer, follow the instructions the rental agency gives you.

For load specification terms found on the tire label and Safety Compliance label and for instructions on calculating your vehicle's load, refer to *Load limit* in the *Load Carrying* chapter.

Remember to account for the trailer tongue weight as part of the vehicle load when calculating the total vehicle weight.

### Hitches

Do not use a hitch that either clamps onto the bumper or attaches to the axle.

Distribute the trailer load so 10-15% of the total trailer weight is on the tongue.

### Safety Chains

**Note:** Never attach safety chains to the bumper.

Always connect the safety chains to the hook retainers of the vehicle hitch.

To connect the safety chains, cross them under the trailer tongue and allow enough slack for turning tight corners. Do not allow the chains to drag on the ground.

### Trailer Brakes



**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.

Electric brakes and manual, automatic or surge-type trailer brakes are safe if installed properly and adjusted to the manufacturer's specifications. The trailer brakes must meet local and Federal regulations.

**The braking system of the tow vehicle is rated for operation at the GVWR not GCWR.**

**Separate functioning brake systems are required for safe control of towed vehicles and trailers weighing more than 1500 pounds (680 kilograms) when loaded.**

### Trailer Lamps

Trailer lamps are required on most towed vehicles. Make sure all running lights, brake lights, turn signals and hazard lights are working. Contact your authorized dealer or trailer rental agency for proper instructions and equipment for hooking up the lamps.

### Before Towing a Trailer

Practice turning, stopping and backing-up to get the feel of the vehicle-trailer combination before starting on a trip. When turning, make wider turns so the trailer wheels will clear curbs and other obstacles.

### When Towing a Trailer

- Do not drive faster than 70 mph (113 km/h) during the first 500 miles (800 kilometers).
- Do not make full-throttle starts.
- Check your hitch, electrical connections and trailer wheel lug nuts thoroughly after you have traveled 50 miles (80 kilometers).

- When stopped in congested or heavy traffic during hot weather, place gearshift in P (Park) 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 automatically when you are towing on long, steep grades.
- Shift to a lower gear when driving down a long or steep hill. Do not apply the brakes continuously, as they may overheat and become less effective.
- If your transmission is equipped with a Grade Assist or Tow/Haul feature, use this feature when towing. This provides engine braking and helps eliminate excessive transmission shifting for optimum fuel economy and transmission cooling.
- Allow more distance for stopping with a trailer attached; anticipate stops and brake gradually.
- Avoid parking on a grade. However, if you must park on a grade:
  1. Turn the steering wheel to point the vehicle tires away from traffic flow
  2. Set the vehicle parking brake
  3. Place the automatic transmission in P (Park) or manual transmission in a high gear
  4. Place wheel chocks under in front and back of the trailer wheels. (Chocks not equipped with vehicle.)

### **Launching or Retrieving a Boat or Personal Water Craft (PWC)**

**Note:** Disconnect the wiring to the trailer **before** backing the trailer into the water.

**Note:** Reconnect the wiring to the trailer after the trailer is removed from the water.

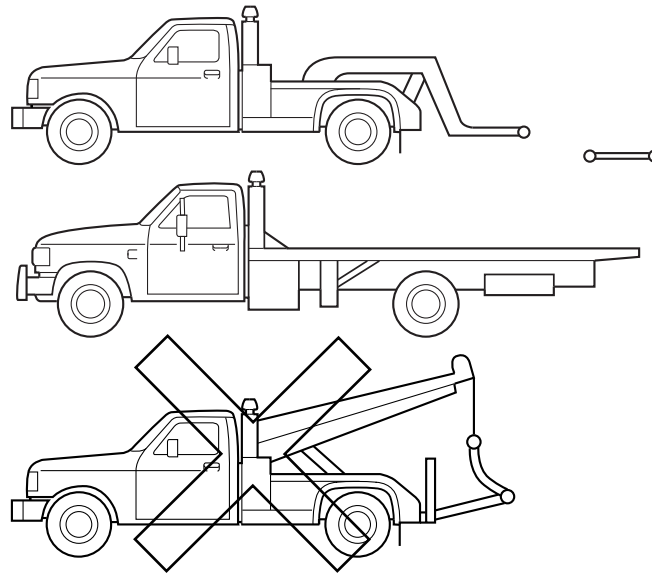
When backing down a ramp during boat launching or retrieval:

1. Do not allow the static water level to rise above the bottom edge of the rear bumper.
2. Do not allow waves to break higher than six inches (15 centimeters) above the bottom edge of the rear bumper.

Exceeding these limits may allow water to enter vehicle components:

1. Causing internal damage to the components.
2. Affecting driveability, emissions, and reliability.

Replace the rear axle lubricant any time the rear axle has been submerged in water. Water may have contaminated the rear axle lubricant, which is not normally checked or changed unless a leak is suspected or other axle repair is required.

**WRECKER TOWING**

If you need to have your vehicle towed, contact a professional towing service or, if you are a member of a roadside assistance program, your roadside assistance service provider.

It is recommended that your vehicle be towed with a wheel lift and dollies or flatbed equipment. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure. If the vehicle is towed incorrectly, or by any other means, vehicle damage may occur. Ford Motor Company produces a towing manual for all authorized tow truck operators. Have your tow truck operator refer to this manual for proper hook-up and towing procedures for your vehicle.

Front-wheel drive (FWD) vehicles can be towed from the front if proper wheel lift equipment is used to raise the front wheels off the ground.

The rear wheels can be left on the ground when towed in this fashion.

FWD vehicles can also be towed from the rear using wheel lift equipment; however, the front wheels must be placed on a dolly to prevent damage to the transmission.

All-wheel drive (AWD) vehicles must be towed with a wheel lift and dollies or flatbed equipment, with all the wheels off the ground, to prevent damage to the transmission, AWD system or vehicle.

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**TOWING THE VEHICLE ON FOUR WHEELS****Emergency Towing**

In the event your vehicle becomes disabled (without access to wheel dollies, car-hauling trailer, or flatbed transport vehicle), it can be flat-towed (all wheels on the ground, regardless of the powertrain/transmission configuration) under the following conditions:

- The vehicle is facing forward so that it is towed in a forward direction.
- The transmission is placed in N (Neutral). Refer to *Automatic transmission* in the *Transmission* chapter if you cannot move the transmission into N (Neutral).
- Maximum speed is 35 mph (56 km/h).
- Maximum distance is 50 miles (80 kilometers).

**Recreational Towing**

**Note:** Put your climate control system in recirculated air mode to prevent exhaust fumes from entering the vehicle. Refer to the *Climate Control* chapter.

Follow these guidelines for your specific powertrain combination to tow your vehicle for personal travel (such as behind a motor home or a truck). These guidelines are designed to prevent damage to your vehicle after it is hooked-up to the RV or tow dolly.

Front-wheel drive (FWD) vehicles can be towed with all four wheels on the ground or with the front wheels off the ground by using a tow dolly. If you are using a tow dolly follow the instructions specified by the equipment provider. If you are towing with all four wheels on the ground, refer to the towing instructions found at the end of this section.

All-wheel drive (AWD) vehicles can be towed with all four wheels on the ground or with all four wheels off the ground using a vehicle transport trailer. Do not tow your AWD vehicle with the front wheels off the ground (by using a tow dolly) and the rear wheels on the ground; this will cause damage to your AWD system. If you are using a vehicle transport trailer, follow the instruction specified by the equipment provider. If you are towing with all four wheels on the ground, refer to the towing instructions found at the end of this section.

If you tow your vehicle with all four wheels on the ground:

- Tow only in the forward direction.
- Release the parking brake.
- Place the transmission in N (Neutral).
- Do not exceed 65 mph (105 km/h).
- Start the engine and allow it to run for five minutes at the beginning of each day and every six hours thereafter. With the engine running and your foot on the brake, shift into D (Drive) and then into R (Reverse) before shifting back into N (Neutral).



**BREAKING-IN**

You need to break in new tires for approximately 300 miles (480 kilometers). During this time, your vehicle may exhibit some unique driving characteristics. Avoid driving too fast during the first 1000 miles (1600 kilometers). Vary your speed frequently and change up through the gears early. Do not labor the engine. Do not tow during the first 1000 miles (1600 kilometers).

**ECONOMICAL DRIVING**

Fuel economy is affected by several things such as how you drive, the conditions you drive under and how you maintain your vehicle.

There are some things to keep in mind that may improve your fuel economy:

- Accelerate and slow down in a smooth, moderate fashion.
- Drive at steady speeds without stopping.
- Anticipate stops; slowing down may eliminate the need to stop.
- Combine errands and minimize stop-and-go driving.
- Close the windows for high-speed driving.
- Drive at reasonable speeds (traveling at 55 mph [88 km/h] uses 15% less fuel than traveling at 65 mph [105 km/h]).
- Keep the tires properly inflated and use only the recommended size.
- Use the recommended engine oil.
- Perform all regularly scheduled maintenance.

There are also some things you may not want to do because they may reduce your fuel economy:

- Sudden or hard accelerations.
- Rev the engine before turning it off.
- Idle for periods longer than one minute.
- Warm up your vehicle on cold mornings.
- Use the air conditioner or front defroster.
- Use the speed control in hilly terrain.
- Rest your foot on the brake pedal while driving.
- Drive a heavily loaded vehicle or tow a trailer.

- Carry unnecessary weight (approximately 1 mpg [0.4 km/L] is lost for every 400 lb [180 kg] of weight carried).
- Add particular accessories to your vehicle (e.g. bug deflectors, rollbars/light bars, running boards, ski racks).
- Drive with the wheels out of alignment.

### DRIVING THROUGH WATER



**WARNING:** Drive through water in an emergency only, and not as part of normal driving.

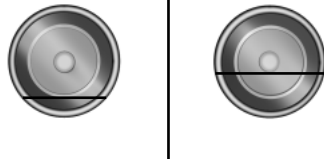


**WARNING:** Engine damage can occur if water enters the air filter.

**Note:** Driving through deep water may allow water into the transmission or air intake and can cause internal vehicle damage or cause it to stall.

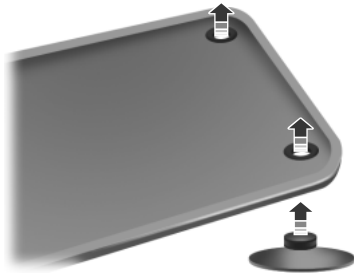
**Note:** Once through the water, always dry the brakes by moving your vehicle slowly while applying light pressure on the brake pedal.

If driving through deep or standing water is unavoidable, proceed very slowly. Never drive through water that is higher than the bottom of the wheel rims (for cars) or the bottom of the hubs (for trucks).



When driving through water, traction or brake capability may be limited. Also, water may enter your engine's air intake and severely damage your engine or your vehicle may stall.

Wet brakes do not stop the vehicle as quickly as dry brakes.

**FLOOR MATS**

**WARNING:** Always use floor mats that are designed to fit the foot well of your vehicle. Only use floor mats that leave the pedal area unobstructed. Only use floor mats that are firmly secured to retention posts so that they cannot slip out of position and interfere with the pedals or impair safe operation of your vehicle in other ways.

- Pedals that cannot move freely can cause loss of vehicle control and increase the risk of serious personal injury.
- Always make sure that the floor mats are properly attached to the retention posts in the carpet that are supplied with your vehicle. Floor mats must be properly secured to both retention posts to ensure mats do not shift out of position.
- Never place floor mats or any other covering in the vehicle foot well that cannot be properly secured to prevent them from moving and interfering with the pedals or the ability to control the vehicle.
- Never place floor mats or any other covering on top of already installed floor mats. Floor mats should always rest on top of vehicle carpeting surface and not another floor mat or other covering. Additional floor mats or any other covering will reduce the pedal clearance and potentially interfere with pedal operation.
- Check attachment of floor mats on a regular basis. Always properly reinstall and secure floor mats that have been removed for cleaning or replacement.

**WARNING** *(Continued)*

- Always make sure that objects cannot fall into the driver foot well while the vehicle is moving. Objects that are loose can become trapped under the pedals causing a loss of vehicle control.
- Failure to properly follow floor mat installation or attachment instructions can potentially cause interference with pedal operation causing loss of control of vehicle.
- To install floor mats, position the floor mat so that the eyelet is over the retention post and press down to lock in.
- To remove the floor mat, reverse the installation procedure.

**ROADSIDE ASSISTANCE****Vehicles sold in the U.S. : 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, seven days a week
- for the coverage period listed on the Roadside Assistance Card included in your Owner manual portfolio.

Roadside assistance will cover:

- a flat tire change with a good spare (except vehicles that have been 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 2.0 gallons (7.5L) of gasoline or 5.0 gallons (18.9L) of diesel fuel to a disabled vehicle. Fuel delivery service is limited to two no-charge occurrences within a 12-month period.
- winch out – available within 100 feet (30.5 meters) of a paved or county maintained road, no recoveries.
- towing – Ford and Lincoln eligible vehicles towed to an authorized dealer within 35 miles (56 km) of the disablement location or to the nearest authorized dealer. If a member requests to be towed to an authorized dealer more than 35 miles (56 km) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 miles (56 km).

Trailers shall be covered up to \$200 if the disabled eligible vehicle requires service at the nearest authorized dealer. If the trailer is disabled, but the towing vehicle is operational, the trailer does not qualify for any roadside services.

**Vehicles sold in the U.S. : Using roadside assistance**

Complete the roadside assistance identification card and place it in your wallet for quick reference. This card is found in the Owner's Guide portfolio in the glove compartment.

U.S. Lincoln vehicle customers who require Roadside Assistance, call 1-800-521-4140.

If you need to arrange roadside assistance for yourself, Ford Motor Company will reimburse a reasonable amount for towing to the nearest dealership within 35 miles (56 km). To obtain reimbursement information, U.S. Lincoln vehicle customers call 1-800-521-4140. Customers will be asked to submit their original receipts.

**Vehicles sold in Canada : Getting roadside assistance**

Canadian customers who require roadside assistance, call 1-800-665-2006.

**Vehicles sold in Canada : Using roadside assistance**

Complete the roadside assistance identification card and place it in your wallet for quick reference. In Canada, the card is found in the Warranty Guide in the glove box.

Canadian Roadside coverage and benefits may differ from the U.S. coverage. Please refer to your Warranty Guide or visit our website at [www.ford.ca](http://www.ford.ca) for information on Canadian services and benefits.

Canadian customers who need to obtain roadside information, call 1-800-665-2006 or visit our website at [www.ford.ca](http://www.ford.ca).

**HAZARD WARNING FLASHERS**

The hazard flasher control is located on the instrument panel by the radio. Use it when your vehicle is disabled and is creating a safety hazard for other motorists.

- Press the flasher control and all front and rear direction signals will flash.
- Press the flasher control again to turn them off.

**Vehicles equipped with MyTouch**

- Press and hold the flasher control and all front and rear direction signals will flash.
- Press and hold the flasher control again to turn them off.

**Note:** With extended use, the flasher may run down your battery.

**FUEL CUT-OFF SWITCH**

**WARNING:** Failure to inspect and if necessary repair fuel leaks after a collision may increase the risk of fire and serious injury. Ford Motor Company recommends that the fuel system be inspected by an authorized dealer after any collision.

In the event of a moderate to severe collision, this vehicle is equipped with a fuel pump shut-off feature that stops the flow of fuel to the engine. Not every impact will cause a shut-off.

Should your vehicle shut off after a collision, you may restart your vehicle by doing the following:

1. Turn the ignition off.
2. Turn the ignition on.
3. Repeat steps 1 and 2 to re-enable fuel pump.

**Note:** If your vehicle has the push button start system, press the stop/start button twice to reactivate the fuel system.

**JUMP-STARTING THE VEHICLE**

**WARNING:** The gases around the battery can explode if exposed to flames, sparks, or lit cigarettes. An explosion could result in injury or vehicle damage.



**WARNING:** Batteries contain sulfuric acid which can burn skin, eyes and clothing, if contacted.

Do not attempt to push-start your automatic transmission vehicle. Automatic transmissions do not have push-start capability. Attempting to push-start a vehicle with an automatic transmission may cause transmission damage.

When the battery is disconnected or a new battery is installed, the automatic transmission must relearn its shift strategy. As a result, the transmission may have firm soft shifts, firm shifts or both. This operation is considered normal and will not affect function or durability of the transmission. Over time, the adaptive learning process will fully update transmission operation.

**Preparing Your Vehicle**

**Note:** Use only a 12 volt supply to start your vehicle.

**Note:** Do not disconnect the battery of the disabled vehicle as this could damage the vehicle's electrical system

1. Park the booster vehicle close to the hood of the disabled vehicle making sure the two vehicles do not touch. Set the parking brake on both vehicles and stay clear of the engine cooling fan and other moving parts.
2. Check all battery terminals and remove any excessive corrosion before you attach the battery cables. Ensure that vent caps are tight and level.
3. Turn the heater fan on in both vehicles to protect from any electrical surges. Turn all other accessories off.

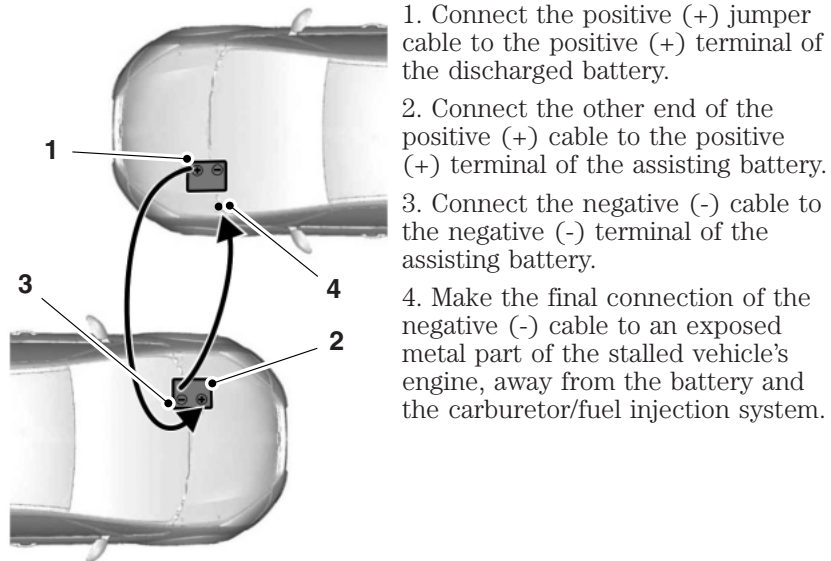
**Connecting the Jumper Cables**

**WARNING:** Do not connect the end of the second cable to the negative (-) terminal of the battery to be jumped. A spark may cause an explosion of the gases that surround the battery.

**Note:** Do not attach the negative (-) cable to fuel lines, engine rocker covers, the intake manifold or electrical components as grounding points.

**Note:** In the illustration, the vehicle on the bottom is used to designate the assisting (boosting) battery.





Ensure that the cables are clear of fan blades, belts, moving parts of both engines, or any fuel delivery system parts.

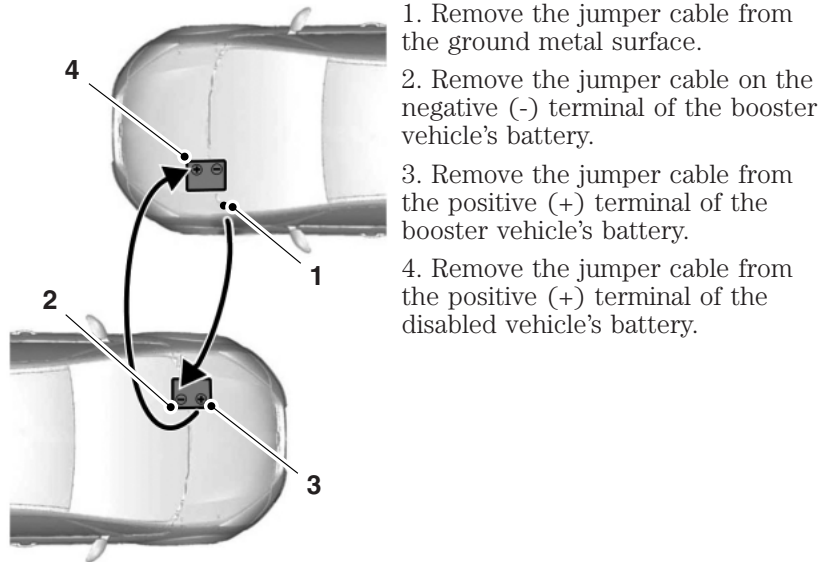
### Jump Starting

1. Start the engine of the booster vehicle and run the engine at moderately increased speed.
2. Start the engine of the disabled vehicle.
3. Once the disabled vehicle has been started, run both engines for an additional three minutes before disconnecting the jumper cables.

**Removing the Jumper Cables**

**Note:** In the illustration, the vehicle on the bottom is used to designate the assisting (boosting) battery.

Remove the jumper cables in the reverse order that they were connected.



After the disabled vehicle has been started and the jumper cables removed, allow it to idle for several minutes so the engine computer can relearn its idle conditions.

**GETTING THE SERVICES YOU NEED**

Warranty repairs to your vehicle must be performed by an authorized dealer. While any authorized dealer handling your vehicle line will provide warranty service, we recommend you return to your selling authorized dealer who wants to ensure your continued satisfaction.

Please note that certain warranty repairs require special training, equipment or both, so not all authorized dealers are authorized to perform all warranty repairs. This means that, depending on the warranty repair needed, you may have to take your vehicle to another authorized dealer.

A reasonable time must be allowed to perform a repair after taking your vehicle to the authorized dealer. Repairs will be made using Ford or Motorcraft parts, or remanufactured or other parts that are authorized by Ford.

**Away from home**

If you are away from home when your vehicle needs service, contact the Ford Customer Relationship Center or use the online resources listed below to find the nearest authorized dealer.

In the United States:

**Mailing address**

Ford Motor Company  
Customer Relationship Center  
P.O. Box 6248  
Dearborn, MI 48121

**Telephone**

1-800-521-4140  
(TDD for the hearing impaired: 1-800-232-5952)

**Online**

Additional information and resources are available online at [www.lincolnowner.com](http://www.lincolnowner.com)

- U.S. dealer locator by Dealer Name, City/State, or Zip Code
- Owner Guides
- Maintenance Schedules
- Recalls
- Ford Extended Service Plans
- Ford Genuine Accessories
- Service specials and promotions.

In Canada:

**Mailing address**

Lincoln Customer Relationship Centre  
Ford Motor Company of Canada, Limited  
P.O. Box 2000  
Oakville, Ontario L6J 5E4

**Telephone**

1-800-387-9333

**Online**

[www.lincolncanada.com](http://www.lincolncanada.com)

**Additional assistance**

If you have questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

1. Contact your Sales Representative or Service Advisor at your selling/servicing authorized dealer.
2. If your inquiry or concern remains unresolved, contact the Sales Manager, Service Manager or Customer Relations Manager.
3. If you require assistance or clarification on Ford Motor Company policies, please contact the Ford Customer Relationship Center

In order to help you serve you better, please have the following information available when contacting a Customer Relationship Center:

- Vehicle Identification Number (VIN)
- Your telephone number (home and business)
- The name of the authorized dealer and city where located
- The vehicle's current odometer reading

In some states, you must directly notify Ford in writing before pursuing remedies under your state's warranty laws. Ford is also allowed a final repair attempt in some states.

In the United States, a warranty dispute must be submitted to the BBB AUTO LINE before taking action under the Magnuson-Moss Warranty Act, or to the extent allowed by state law, before pursuing replacement or repurchase remedies provided by certain state laws. This dispute handling procedure is not required prior to enforcing state created rights or other rights which are independent of the Magnuson-Moss Warranty Act or state replacement or repurchase laws.

**IN CALIFORNIA (U.S. ONLY)**

California Civil Code Section 1793.2(d) requires that, if a manufacturer or its representative is unable to repair a motor vehicle to conform to the vehicle's applicable express warranty after a reasonable number of attempts, the manufacturer shall be required to either replace the vehicle with one substantially identical or repurchase the vehicle and reimburse the buyer in an amount equal to the actual price paid or payable by the consumer (less a reasonable allowance for consumer use). The consumer has the right to choose whether to receive a refund or replacement vehicle.

California Civil Code Section 1793.22(b) presumes that the manufacturer has had a reasonable number of attempts to conform the vehicle to its applicable express warranties if, within the first 18 months of ownership of a new vehicle or the first 18000 miles (29 000 km), whichever occurs first:

1. Two or more repair attempts are made on the same non-conformity likely to cause death or serious bodily injury OR
2. Four or more repair attempts are made on the same nonconformity (a defect or condition that substantially impairs the use, value or safety of the vehicle) OR
3. The vehicle is out of service for repair of nonconformities for a total of more than 30 calendar days (not necessarily all at one time)

In the case of 1 or 2 above, the consumer must also notify the manufacturer of the need for the repair of the nonconformity at the following address:

Ford Motor Company  
16800 Executive Plaza Drive  
Mail Drop 3NE-B  
Dearborn, MI 48126

You are required to submit your warranty dispute to BBB AUTO LINE before asserting in court any rights or remedies conferred by California Civil Code Section 1793.22(b). You are also required to use BBB AUTO LINE before exercising rights or seeking remedies created by the Federal Magnuson-Moss Warranty Act, 15 U.S.C. sec. 2301 et seq. If you choose to seek redress by pursuing rights and remedies not created by California Civil Code Section 1793.22(b) or the Magnuson-Moss Warranty Act, resort to BBB AUTO LINE is not required by those statutes.

**THE BETTER BUSINESS BUREAU (BBB) AUTO LINE PROGRAM (U.S. ONLY)**

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 will consider the testimony provided and make a decision after the hearing.

Disputes submitted to the BBB AUTO LINE program are usually decided within forty 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 provided below, 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 already taken to try to resolve them. A Customer Claim Form will be mailed that will need to be completed, signed and returned to the BBB along with proof of ownership. Upon receipt, the BBB will review 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  
4200 Wilson Boulevard, Suite 800  
Arlington, Virginia 22203-1833**

BBB AUTO LINE applications can also be requested by calling the Ford Motor Company Customer Relationship Center at 1-800-392-3673.

**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.

**UTILIZING THE MEDIATION/ARBITRATION PROGRAM (CANADA ONLY)**

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 straight forward 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](http://www.camvap.ca).

**GETTING ASSISTANCE OUTSIDE THE U.S. AND CANADA**

Before exporting your vehicle to a foreign country, contact the appropriate foreign embassy or consulate. These officials can inform you of local vehicle registration regulations and where to find unleaded fuel.

If you cannot find unleaded fuel or can only get fuel with an anti-knock index lower than is recommended for your vehicle, contact a regional office or owner relations/customer relationship office.

The use of leaded fuel in your vehicle without proper conversion may damage the effectiveness of your emission control system and may cause engine knocking or serious engine damage. Ford Motor Company/Ford of Canada is not responsible for any damage caused by use of improper fuel. Using leaded fuel may also result in difficulty importing your vehicle back into the U.S.

If your vehicle must be serviced while you are traveling or living in Asia-Pacific Region, Sub-Saharan Africa, U.S. Virgin Islands, Central America, the Caribbean, and Israel, contact the nearest authorized dealer. If the authorized dealer cannot help you, contact:

FORD MOTOR COMPANY  
FORD EXPORT OPERATIONS & GLOBAL INITIATIVES  
1555 Fairlane Drive  
Fairlane Business Park #3  
Allen Park, Michigan 48101  
U.S.A.

Telephone: (313) 594-4857

For customers in Guam, the Commonwealth of the Northern Mariana Islands (CNMI), America Samoa, and the U.S. Virgin Islands, please feel free to call our Toll-Free Number: (800) 841-FORD (3673).

FAX: (313) 390-0804

Email: [expcac@ford.com](mailto:expcac@ford.com)

If your vehicle must be serviced while you are traveling or living in Puerto Rico, contact the nearest authorized dealer. If the authorized dealer cannot help you, contact:

Ford International Business Development Inc.  
Customer Relationship Center  
P.O. Box 11957  
Caparra Heights Station  
San Juan, Puerto Rico 00922-1957  
Telephone: (800) 841-FORD (3673)  
FAX: (313) 390-0804  
Email: [prcac@ford.com](mailto:prcac@ford.com)  
[www.ford.com.pr](http://www.ford.com.pr)

If your vehicle must be serviced while you are traveling or living in the Middle East, contact the nearest authorized dealer. If the authorized dealer cannot help you, contact:

Ford Middle East  
Customer Relationship Center  
P.O. Box 21470  
Dubai, United Arab Emirates  
Telephone: +971 4 3326084  
Toll-Free Number for the Kingdom of Saudi Arabia: 800 8971409  
Local Telephone Number for Kuwait: 24810575  
FAX: +971 4 3327299  
Email: [menacac@ford.com](mailto:menacac@ford.com)  
[www.me.ford.com](http://www.me.ford.com)



If you buy your vehicle in North America and then relocate to any of the above locations, register your vehicle identification number (VIN) and new address with Ford Motor Company Export Operations & Global Growth Initiatives by emailing [expcac@ford.com](mailto:expcac@ford.com).

If you are in another foreign country, contact the nearest authorized dealer. If the authorized dealer employees cannot help you, they can direct you to the nearest Ford affiliate office.

**Customers in the U.S. should call 1-800-392-3673.**

**ORDERING ADDITIONAL OWNER'S LITERATURE**

To order the publications in this portfolio, contact Helm, Incorporated at:

HELM, INCORPORATED  
47911 Halyard Drive  
Plymouth, Michigan 48170  
Attention: Customer Service

Or to order a free publication catalog, call toll free: 1-800-782-4356

Monday-Friday 8:00 a.m. - 6:00 p.m. EST

Helm, Incorporated can also be reached by their website:  
[www.helminc.com](http://www.helminc.com).

*(Items in this catalog may be purchased by credit card, check or money order.)*

**Obtaining a French Owner's Manual**

French Owner's Manual can be obtained from your authorized dealer or by contacting Helm, Incorporated using the contact information listed previously in this section.

**REPORTING SAFETY DEFECTS (U.S. ONLY)**

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 <http://www.safercar.gov>; or write to:

Administrator  
1200 New Jersey Avenue, Southeast  
Washington, D.C. 20590

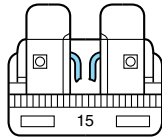
You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

**REPORTING SAFETY DEFECTS (CANADA ONLY)**

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, using their toll-free number: 1-800-333-0510, or online at: <https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/Index.aspx>.

**CHANGING A FUSE**

**Fuses**



If electrical components in the vehicle are not working, a fuse may have blown. Blown fuses are identified by a broken wire within the fuse. Check the appropriate fuses before replacing any electrical components.

**Note:** 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.

**Standard Fuse Amperage Rating and Color**

COLOR					
Fuse rating	Mini fuses	Standard fuses	Maxi fuses	Cartridge maxi fuses	Fuse link cartridge
2A	Grey	Grey	—	—	—
3A	Violet	Violet	—	—	—
4A	Pink	Pink	—	—	—
5A	Tan	Tan	—	—	—
7.5A	Brown	Brown	—	—	—
10A	Red	Red	—	—	—
15A	Blue	Blue	—	—	—
20A	Yellow	Yellow	Yellow	Blue	Blue
25A	Natural	Natural	—	Natural	Natural
30A	Green	Green	Green	Pink	Pink
40A	—	—	Orange	Green	Green
50A	—	—	Red	Red	Red
60A	—	—	Blue	Yellow	Yellow
70A	—	—	Tan	—	Brown
80A	—	—	Natural	Black	Black

**FUSE SPECIFICATION CHART****Power Distribution Box**

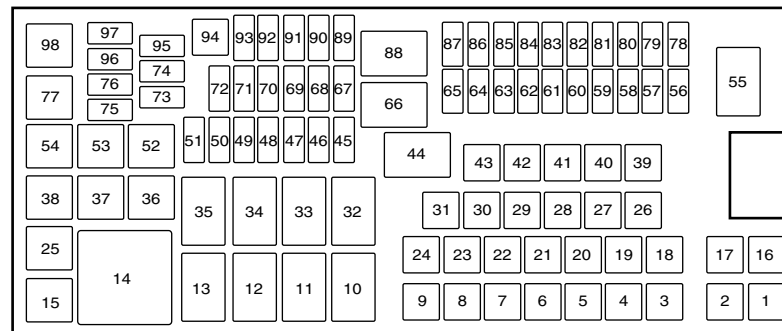
**WARNING:** Always disconnect the battery before servicing high current fuses.



**WARNING:** To reduce risk of electrical shock, always replace the cover to the power distribution box before reconnecting the battery or refilling fluid reservoirs.

The power distribution box is located in the engine compartment. It has high-current fuses that protect your vehicle's main electrical systems from overloads.

If the battery has been disconnected and reconnected, refer to *Changing the vehicle battery* in the *Maintenance* chapter.



The high-current fuses are coded as follows:

Fuse/Relay Number	Fuse Amp Rating	Protected Components
1	—	Not used
2	—	Not used
3	—	Not used
4	30A**	Wiper motor relay
5	50A**	Anti-lock brake system pump

Fuse/Relay Number	Fuse Amp Rating	Protected Components
6	—	Not used
7	—	Not used
8	20A**	Moonroof, Power sunshade
9	20A**	Second row powerpoint
10	—	Not used
11	—	Heated rear window relay
12	—	Not used
13	—	Starter motor relay
14	—	Left-hand cooling fan #2 relay
15	—	Fuel pump relay
16	—	Not used
17	—	Not used
18	40A**	Front blower motor relay
19	30A**	Starter relay
20	20A**	Storage bin power point
21	20A**	Rear heated seat module
22	—	Not used
23	30A**	Driver power seat, Memory module
24	—	Not used
25	—	Not used
26	40A**	Heated rear window relay
27	20A**	Cigar lighter
28	30A**	Climate controlled seats
29	40A**	Electric fan relay 1
30	40A**	Electric fan relay 2
31	25A**	Electric fan relay 3
32	—	Not used
33	—	Right-hand cooling fan relay
34	—	Blower motor relay
35	—	Left-hand cooling fan #1 relay
36	—	Not used

Fuse/Relay Number	Fuse Amp Rating	Protected Components
37	—	Not used
38	—	Not used
39	—	Not used
40	30A**	Left front smart window motor
41	30A**	Left rear smart window motor
42	30A**	Passenger power seat
43	20A**	Anti-lock brake system valves
44	—	Not used
45	5A*	Rain sensor
46	—	Not used
47	—	Not used
48	—	Not used
49	—	Not used
50	15A*	Heated mirrors
51	—	Not used
52	—	Not used
53	—	Not used
54	—	Not used
55	—	Wiper relay
56	—	Not used
57	20A*	Left high-intensity discharge headlamp
58	10A*	Alternator A-line
59	10A*	Brake on/off switch
60	—	Not used
61	—	Not used
62	10A*	A/C clutch relay
63	—	Not used
64	—	Not used
65	30A*	Fuel pump relay, Fuel injectors
66	—	Powertrain control module relay

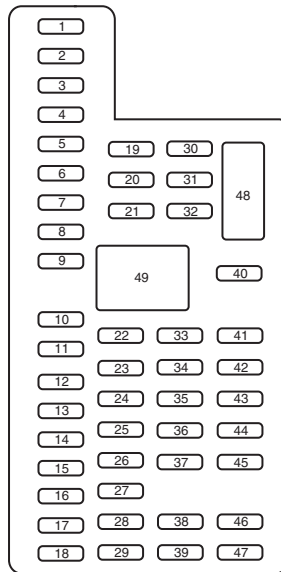
Fuse/Relay Number	Fuse Amp Rating	Protected Components
67	20A*	Oxygen sensor heater, Mass airflow sensor, Variable camshaft timing solenoid valve, Canister vent solenoid, Canister purge solenoid
68	20A*	Ignition coils
69	20A*	Vehicle power #1 (powertrain control module)
70	15A*	A/C clutch, Fan control relay coils (1-3), Variable air conditioning compressor, Auxiliary transmission warmup, Turbo charge waste-gate control, Electronic compressor bypass valve, All-wheel drive module, Positive crankcase ventilation heater
71	—	Not used
72	—	Not used
73	—	Not used
74	—	Not used
75	—	Not used
76	—	Not used
77	—	Not used
78	20A*	Right high-intensity discharge headlamp
79	5A*	Adaptive cruise control module
80	—	Not used
81	—	Not used
82	—	Not used
83	—	Not used
84	—	Not used
85	—	Not used

Fuse/Relay Number	Fuse Amp Rating	Protected Components
86	7.5A*	Powertrain control module keep-alive power and relay, Canister vent solenoid
87	5A*	Run/start relay
88	—	Run/start relay
89	5A*	Front blower relay coil, Electrical power assist steering module
90	10A*	Powertrain control module run/start
91	10A*	Adaptive cruise control module
92	10A*	Anti-lock brake system module, Adaptive headlamp module
93	5A*	Rear window defroster relay
94	30A**	Passenger compartment fuse panel run/start
95	—	Not used
96	—	Not used
97	—	Not used
98	—	A/C clutch relay

\*Mini Fuses \*\*Cartridge Fuses



Passenger Compartment Fuse Panel



The fuse panel is located under the instrument panel to the left of the steering wheel.

The fuses are coded as follows.

Fuse/Relay Number	Fuse Amp Rating	Protected Components
1	30A	Left front and right rear smart window motors
2	15A	Driver seat switch
3	30A	Right front smart window motor
4	10A	Demand lamps battery saver relay
5	20A	Audio amplifier, Active noise control module
6	5A	Not used (spare)
7	7.5A	Driver seat module logic, Left front door zone module, Keypad

Fuse/Relay Number	Fuse Amp Rating	Protected Components
8	10A	Not used (spare)
9	10A	SYNC® module, Electronic finish panel, Radio frequency transceiver module
10	10A	Run accessory relay, Wiper relay, Rain-sense subfuse
11	10A	Intelligent access module logic, Heads-up display
12	15A	Puddle lamp, Backlighting LED, Interior lighting
13	15A	Right turn signals
14	15A	Left turn signals
15	15A	Stop lamp, Backup lamp
16	10A	Right front low beam
17	10A	Left front low beam
18	10A	Start button, Keypad illumination, Brake shift interlock, Powertrain control module wake-up, Immobilizer transceiver module
19	20A	Audio amplifiers
20	20A	All lock motor relay and coil, Driver lock motor relay and coil
21	10A	Not used (spare)
22	20A	Horn relay
23	15A	Steering wheel control module logic, Instrument cluster
24	15A	Steering wheel control module, Datalink
25	15A	Decklid release
26	5A	Push button start switch
27	20A	Intelligent access module power
28	15A	Not used (spare)

Fuse/Relay Number	Fuse Amp Rating	Protected Components
29	20A	Radio, Global positioning system module
30	15A	Front park lamps
31	5A	Not used (spare)
32	15A	Smart window motors, Master window and mirror switch, Rear window power sunshade module, Lock switch illumination
33	10A	Suspension module
34	10A	Reverse park aid module, Automatic high beam and lane departure module, Rear heated seat module, Blind spot monitor module, Rear video camera
35	5A	Motorized humidity sensor, Heads-up display
36	10A	Heated steering wheel
37	10A	Not used (spare)
38	10A	Moonroof module and switch
39	15A	High beams
40	10A	Rear park lamps
41	7.5A	Occupant classification sensor, Restraint control module
42	5A	Not used (spare)
43	10A	Not used (spare)
44	10A	Not used (spare)
45	5A	Not used (spare)
46	10A	Climate control module
47	15A	Fog lamp relay
48	30A Circuit Breaker	Front passenger power window, Rear power windows

**GENERAL INFORMATION**

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of Ford 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.

To help you service your vehicle, we provide *scheduled maintenance information* which makes tracking routine service easy.

If your vehicle requires professional service, your authorized dealer can provide the necessary parts and service. Check your *Warranty Guide* to find out which parts and services are covered.

Use only recommended fuels, lubricants, fluids and service parts conforming to specifications. Motorcraft® parts are designed and built to provide the best performance in your vehicle.

**Precautions**

- Do not work on a hot engine.
- Make sure that nothing gets caught in moving parts.
- Do not work on a vehicle with the engine running in an enclosed space, unless you are sure you have enough ventilation.
- Keep all open flames and other burning material (such as cigarettes) away from the battery and all fuel related parts.

**Working with the Engine Off**

1. Set the parking brake and shift to P (Park).
2. Turn off the engine and remove the key (if equipped).
3. Block the wheels.

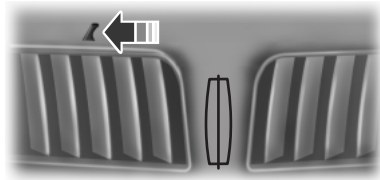
**Working with the Engine On**

**WARNING:** To reduce the risk of vehicle damage and/or personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

1. Set the parking brake and shift to P (Park).
2. Block the wheels.

**OPENING AND CLOSING THE HOOD**

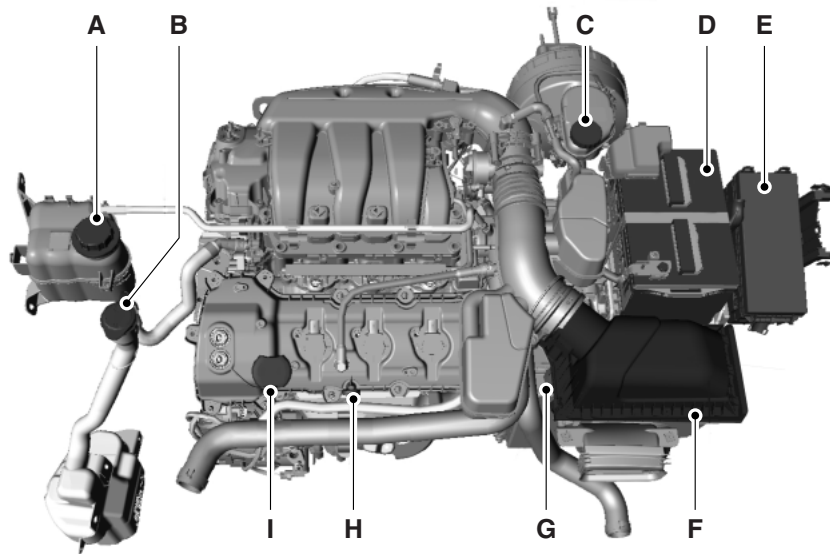
1. Inside the vehicle, pull the hood release handle located at the bottom of the instrument panel near the steering column.



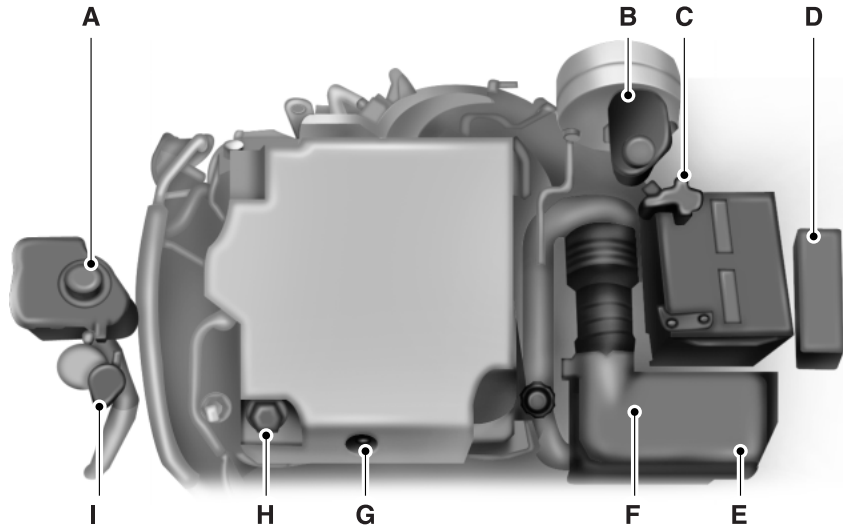
2. Go to the front of the vehicle and release the auxiliary latch using the handle that is located under the front passenger side of the hood.

3. Lift the hood until the lift cylinders hold it open.

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**UNDER HOOD OVERVIEW****3.7L V6 engine**

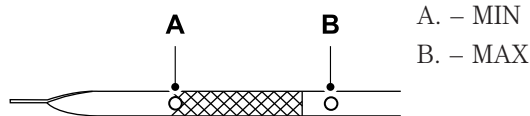
- A. Engine coolant reservoir
- B. Windshield washer fluid reservoir
- C. Brake fluid reservoir
- D. Battery
- E. Power distribution box
- F. Air filter assembly
- G. Automatic transmission fluid dipstick
- H. Engine oil dipstick
- I. Engine oil filler cap

**3.5L V6 EcoBoost™ engine**

- A. Engine coolant reservoir
- B. Brake fluid reservoir
- C. Battery
- D. Power distribution box
- E. Air filter assembly
- F. Automatic transmission fluid dipstick (out of view)
- G. Engine oil dipstick
- H. Engine oil filler cap
- I. Windshield washer fluid reservoir

**Engine shield**

Some vehicles may be equipped with an aero-shield under the engine. This shield needs to be removed for service, including oil and filter changes. It is secured with four quick release fasteners.

**ENGINE OIL DIPSTICK****ENGINE OIL CHECK**

**Note:** Check the level before starting the engine.

**Note:** Make sure that the level is between the MIN and MAX marks.

1. Make sure that your vehicle is on level ground.
2. Turn the engine off 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. Replace the dipstick and remove it again to check the oil level.

If the level is at the MIN mark, add oil immediately.



### Adding engine oil

**Note:** Do not remove the filler cap when the engine is running.

**Note:** Do not add engine oil further than the MAX mark. Oil levels above the MAX mark may cause engine damage.



Only use oils certified for gasoline engines by the American Petroleum Institute (API). An oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricants Specification Advisory Council (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

1. Remove the filler cap.
2. Add engine oil that meets Ford specifications. See *Capacities and Specifications* for more information.
3. Replace the filler cap. Turn it until you feel a strong resistance.

### ENGINE COOLANT CHECK

#### Checking the Engine Coolant

The concentration and level of engine coolant should be checked at the intervals listed in *Scheduled Maintenance Information*.

**Note:** Make sure that the level is at the FULL COLD level or within the COLD FILL RANGE in the coolant reservoir.

**Note:** Coolant expands when it is hot. The level may extend beyond the COLD FILL RANGE.

If the level is below the COLD FILL RANGE, add coolant immediately. See *Adding Engine Coolant* in this chapter.

The coolant concentration should be maintained at 50%.

**Note:** For best results, coolant concentration should be tested with a refractometer such as Rotunda tool ROB75240 available from your dealer. Ford does not recommend the use of hydrometers or coolant test strips for measuring coolant concentrations.

**Note:** Automotive fluids are not interchangeable; do not use engine coolant/antifreeze or windshield washer fluid outside of its specified function and vehicle location.

**Adding Engine Coolant**

**WARNING:** Do not add engine coolant when the engine is hot. Steam and scalding liquids released from a hot cooling system can burn you badly. Also, you can be burned if you spill coolant on hot engine parts.



**WARNING:** Do not put engine coolant in the windshield washer fluid container. If sprayed on the windshield, engine 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 the cap is loosened slightly.



**WARNING:** Do not add coolant further than the MAX mark.

**Note:** Do not use stop leak pellets or cooling system sealants/additives as they can cause damage to the engine cooling and/or heating systems. This damage would not be covered under your vehicle's warranty.

**Note:** During normal vehicle operation, the engine coolant may change color from orange to pink or light red. As long as the engine coolant is clear and uncontaminated, this color change does not indicate the engine coolant has degraded nor does it require the engine coolant to be drained, the system to be flushed, or the engine coolant to be replaced.

- DO NOT MIX different colors or types of coolant in your vehicle. Make sure the correct coolant is used. Mixing of engine coolants may harm your engine's cooling system. The use of an improper coolant may harm engine and cooling system components and may void the warranty.
- In case of emergency, a large amount of water without engine coolant may be added in order to reach a vehicle service location. In this instance, the cooling system must be drained, chemically cleaned with Motorcraft® Premium Cooling System Flush, and refilled with prediluted engine coolant as soon as possible. Water alone (without engine coolant) can cause engine damage from corrosion, overheating or freezing.

- Do not use alcohol, methanol, brine or any engine coolants mixed with alcohol or methanol antifreeze (coolant). 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 engine coolant.

Unscrew the cap slowly. Any pressure will escape as you unscrew the cap.

Add prediluted engine coolant meeting the Ford specification. See *Capacities and Specifications* for more information.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough prediluted engine coolant to bring the coolant level to the proper level.

### Recycled engine coolant

Ford Motor Company does NOT recommend the use of recycled engine coolant since a Ford-approved recycling process is not yet available.



Used engine coolant should be disposed of in an appropriate manner. Follow your community's regulations and standards for recycling and disposing of automotive fluids.

### Severe Climates

If you drive in extremely cold climates:

- It may be necessary to have a Ford authorized dealer increase the coolant concentration above 50%.
- A coolant concentration of 60% will provide improved freeze point protection. Increased engine coolant concentrations above 60% will decrease the overheat protection characteristics of the engine coolant and may cause engine damage.

If you drive in extremely hot climates:

- It may be necessary to have a Ford authorized dealer decrease the coolant concentration to 40%.
- A coolant concentration of 40% will provide improved overheat protection. Decreased engine coolant concentrations below 40% will decrease the corrosion/freeze protection characteristics of the engine coolant and may cause engine damage.

Vehicles driven year-round in non-extreme climates should use prediluted engine coolant for optimum cooling system and engine protection.

**Engine fluid temperature management (EcoBoost™ engine only)**

**WARNING:** To reduce the risk of collision and injury, be prepared that the vehicle speed may reduce and the vehicle may not be able to accelerate with full power until the fluid temperatures reduce.

Your vehicle has been designed to pull a trailer, but because of the added load, the vehicle's engine may temporarily reach higher temperatures during severe operating conditions such as ascending a long or steep grade while pulling a trailer in hot ambient temperatures.

At this time, you may notice your engine coolant temperature gauge needle move toward the H and the POWER REDUCED TO LOWER TEMP message may appear on the message center.

You may notice a reduction in the vehicle's speed caused by reduced engine power. Your vehicle has been designed to enter this mode if certain high temperature/high load conditions take place in order to manage the engine's fluid temperatures. The amount of speed reduction will depend on the vehicle loading, towing, grade, ambient temperature, and other factors. If this occurs, there is no need to pull off the road. The vehicle can continue to be driven while this message is active.

The air conditioning may also cycle on and off during severe operating conditions to protect overheating of the engine. When the engine coolant temperature decreases to a more normal operating temperature, the air conditioning will turn on once again.

If you notice any of the following:

- the engine coolant temperature gauge moves fully into the red (hot) area
- the coolant temperature warning light illuminates
- the service engine soon indicator illuminates

1. Pull off the road as soon as safely possible and place the vehicle in P (Park).
2. Leave the engine running until the coolant temperature gauge needle moves away from the H range. After several minutes, if this does not happen, follow the remaining steps.
3. Turn the engine off and wait for it to cool before checking the coolant level.



**WARNING:** Never remove the coolant reservoir cap while the engine is running or hot.

4. If the coolant level is normal, you may restart your engine and continue on.
5. If the coolant is low, add coolant, restart the engine and take your vehicle to an authorized dealer. See *Adding engine coolant* in this chapter for more information.

Refer to fail-safe cooling for additional information.

### What you should know about fail-safe cooling

If the engine coolant supply is depleted, this feature allows the vehicle to be driven temporarily before incremental component damage is incurred. The “fail-safe” distance depends on ambient temperatures, vehicle load and terrain.

#### How fail-safe cooling works

If the engine begins to overheat:

- The engine coolant temperature gauge will move to the red (hot) area.



- The service engine soon indicator will illuminate.



- The coolant temperature warning light will illuminate.

If the engine reaches a preset over-temperature condition, the engine will automatically switch to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

When this occurs the vehicle will still operate. However:

- The engine power will be limited.
- The air conditioning system will be disabled.

Continued operation will increase the engine temperature and the engine will completely shut down, causing steering and braking effort to increase.

Once the engine temperature cools, the engine can be re-started. Take your vehicle to an authorized dealer as soon as possible to minimize engine damage.

***When fail-safe mode is activated***

You have limited engine power when in the fail-safe mode, so drive the vehicle with caution. The vehicle will not be able to maintain high-speed operation and the engine will run rough. Remember that the engine is capable of completely shutting down automatically to prevent engine damage, therefore:

1. Pull off the road as soon as safely possible and turn off the engine.
2. Arrange for the vehicle to be taken to an authorized dealer.
3. If this is not possible, wait a short period for the engine to cool.
4. Check the coolant level and replenish if low.



**WARNING:** Fail-safe mode is for use during emergencies only.

Operate the vehicle in fail-safe mode only as long as necessary to bring the vehicle to rest in a safe location and seek immediate repairs. When in fail-safe mode, the 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:** Never remove the coolant reservoir cap while the

engine is running or hot. The hot coolant is under pressure and may cause serious burns.

5. Re-start the engine and take your vehicle to an authorized dealer.

**Note:** Driving the vehicle without repairing the engine problem increases the chance of engine damage. Take your vehicle to an authorized dealer as soon as possible.

**TRANSMISSION FLUID CHECK****6F50/6F55 Transmission**

**WARNING:** The dipstick cap and surrounding components may be hot; gloves are recommended.



**WARNING:** Use gloves when moving the air filter assembly; components will be hot.

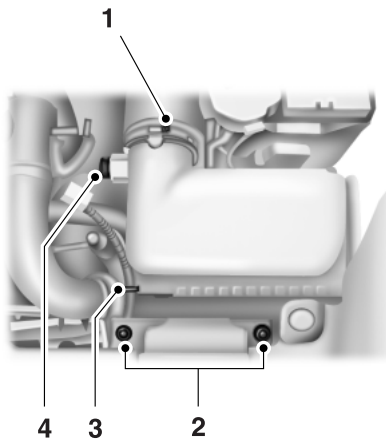
**Note:** Automatic transmission fluid expands when warmed. To obtain an accurate fluid check, drive the vehicle until it is warmed up (approximately 20 miles [30 km]). If your vehicle has been operated for an extended period at high speeds, in city traffic during hot weather or pulling a trailer, the vehicle should be turned off until normal operating temperatures are reached to allow the fluid to cool before checking. Depending on vehicle use, cooling times could take up to 30 minutes or longer.

Refer to your *scheduled maintenance information* for scheduled intervals for fluid checks and changes. Your transmission does not consume fluid. However, the fluid level should be checked if the transmission is not working properly, i.e., if the transmission slips or shifts slowly or if you notice some sign of fluid leakage.

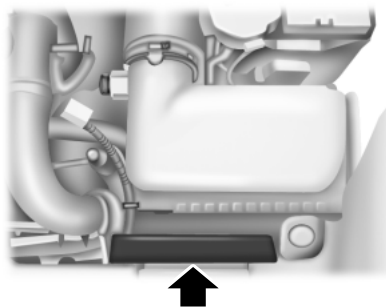
1. Drive the vehicle 20 miles (30 km) or until it reaches normal operating temperature.
2. Park the vehicle on a level surface and engage the parking brake.
3. With the parking brake engaged and your foot on the brake pedal, start the engine and move the gearshift lever through all of the gear ranges. Allow a minimum of 10 seconds for each gear to engage.
4. Latch the gearshift lever in P (Park) and leave the engine running.
5. Remove the dipstick, wiping it clean with a clean, dry lint free rag. If necessary, refer to *Under hood overview* in this chapter for the location of the dipstick. (For vehicles with the EcoBoost™ engine, move the air filter assembly aside to access the transmission dipstick). See *Moving the Air Filter Assembly (EcoBoost™ engine)* for more information.
6. Install the dipstick making sure it is fully seated in the filler tube by turning it to the locked position.
7. Remove the dipstick and inspect the fluid level. The fluid should be in the designated areas for normal operating temperature.

**Moving the Air Filter Assembly (EcoBoost™ engine)****WARNING:** Do not run engine with the air filter disconnected.

1. Shut the engine off.



2. Clean the area around the clamp that connects the air filter assembly to the rubber hose (1).



3. Remove the bolt cover (if equipped).

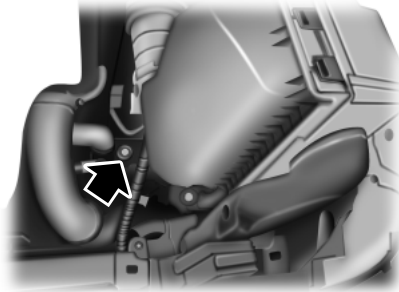
4. Remove two bolts that attach the air filter assembly to the front of the vehicle (2).

5. Loosen the clamp holding the air filter assembly to the rubber hose (1).

6. Remove the harness retaining clip by pulling up (3). Do not disconnect the sensor (4).



7. Without disconnecting the sensor (4), pull the air filter assembly up to disconnect the air filter assembly from the seated grommets located underneath the air filter assembly.

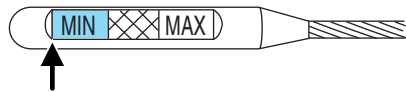


8. Rotate the air filter assembly 90 degrees counterclockwise and reinstall into the rubber hose.

9. Tighten the clamp (1).

10. The transmission fluid level indicator can now be accessed.

**Low fluid level**



If the fluid level is below the MIN range of the dipstick, add fluid to reach the hash mark level. **Note:** If the fluid level is below the MIN level,

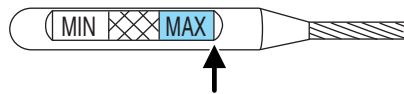
do not drive the vehicle. An underfill condition may cause shift and/or engagement concerns and/or possible damage.

**Correct fluid level**

The transmission fluid should be checked at normal operating temperature 180°F-200°F (82°C-93°C) on a level surface. The normal operating temperature can be reached after approximately 20 miles (30 km) of driving.



The transmission fluid level should be targeted within the cross-hatch area if at normal operating temperature 180°F-200°F (82°C-93°C).

**High fluid level**

If the fluid level is above the MAX range of the dipstick, remove fluid to reach the hashmark level. **Note:** Fluid level above the MAX level may

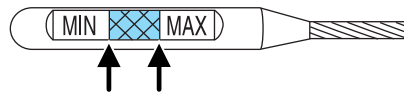
cause shift and/or engagement concerns and/or possible damage.

High fluid levels can be caused by an overheating condition. If your vehicle has been operated for an extended period at high speeds, in city traffic during hot weather or pulling a trailer, the vehicle should be turned off until normal operating temperatures are reached. Depending on vehicle use, cooling times could take up to 30 minutes or longer.

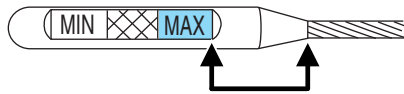
**Adjusting Automatic Transmission Fluid Levels**

Before adding any fluid, make sure the correct type is used. The type of fluid used is normally indicated on the dipstick and also in the *Technical specifications* section in this chapter.

**Note:** Use of a non-approved automatic transmission fluid may cause internal transmission component damage.



If necessary, add fluid in 1/2 pint (250 ml) increments through the filler tube until the level is correct.



If an overfill occurs, excess fluid should be removed by an authorized dealer.

**Note:** An overfill condition of transmission fluid may cause shift and/or engagement concerns and/or possible damage.

Do not use supplemental transmission fluid additives, treatments or cleaning agents. The use of these materials may affect transmission operation and result in damage to internal transmission components.

For vehicles equipped with the EcoBoost engine, reinstall the air filter assembly.

After the fluid level has been checked and adjusted as necessary, do the following:

1. Shut the engine off.
2. Loosen the clamp holding the air filter assembly to the rubber hose.
3. Rotate the air filter assembly 90 degrees clockwise without disconnecting the sensor.

4. Seat the air filter assembly back into the grommets by pushing down on the air filter assembly.
5. Tighten the clamp.
6. Install and tighten two bolts that attach air filter assembly to the front of the vehicle.
7. Install the bolt cover (if equipped).
8. Reinstall the harness retaining clip into the front of the air filter assembly.

### **BRAKE FLUID CHECK**

Fluid levels between the MIN and MAX lines are within the normal operating range; there is no need to add fluid. If the fluid levels are outside of the normal operating range, the performance of the system could be compromised; seek service from your authorized dealer immediately.

### **POWER STEERING FLUID CHECK**

Your vehicle is equipped with an electric power steering (EPS) system. There is no fluid reservoir to check or fill.

### **FUEL FILTER**

Your vehicle is equipped with a lifetime fuel filter that is integrated with the fuel tank. Regular maintenance or replacement is not needed.

### **WASHER FLUID CHECK**





**WARNING:** If you operate your vehicle in temperatures below 40°F (5°C), use washer fluid with antifreeze protection. Failure to use washer fluid with antifreeze protection in cold weather could result in impaired windshield vision and increase the risk of injury or accident.


Add fluid to fill the reservoir if the level is low. Only use a washer fluid that meets Ford specifications. See the technical specifications chart in the *Capacities and Specifications* chapter.


State or local regulations on volatile organic compounds may restrict the use of methanol, a common windshield washer antifreeze additive. Washer fluids containing non-methanol antifreeze agents should be used only if they provide cold weather protection without damaging the vehicle's paint finish, wiper blades or washer system.

**CHANGING THE VEHICLE BATTERY**

 **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 proper 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/or 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. **Note:** Wash hands after handling.

**Note:** If your battery has a cover/shield, make sure it is reinstalled after the battery has been cleaned or replaced.

For longer, trouble-free operation, keep the top of the battery clean and dry. Also, make certain the battery cables are always tightly fastened to the battery terminals.

**Note:** Electrical or electronic accessories or components added to the vehicle by the dealer or the owner may adversely affect battery performance and durability.

Your vehicle is equipped with a Motorcraft® maintenance-free battery which normally does not require additional water during its life of service.

If you see any corrosion on the battery or terminals, remove the cables from the terminals and clean with a wire brush. You can neutralize the acid with a solution of baking soda and water.

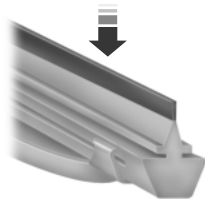
It is recommended that the negative battery cable terminal be disconnected from the battery if you plan to store your vehicle for an extended period of time. This will minimize the discharge of your battery during storage.

Because your vehicle's engine is electronically controlled by a computer, some control conditions are maintained by power from the battery. When the battery is disconnected or a new battery is installed, the engine must relearn its idle and fuel trim strategy for optimum driveability and performance. To begin this process:

1. With the vehicle at a complete stop, set the parking brake.
  2. Put the gearshift in P (Park), turn off all accessories and start the engine.
  3. Run the engine until it reaches normal operating temperature.
  4. Allow the engine to idle for at least one minute.
  5. Turn the A/C on and allow the engine to idle for at least one minute.
  6. Drive the vehicle to complete the relearning process.
- The vehicle may need to be driven 10 miles (16 km) or more to relearn the idle and fuel trim strategy.
  - **Note:** If you do not allow the engine to relearn its idle trim, the idle quality of your vehicle may be adversely affected until the idle trim is eventually relearned.

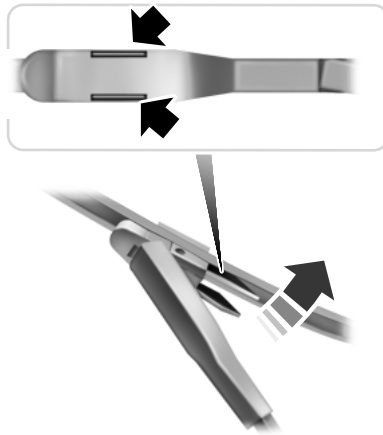
If the battery has been disconnected or a new battery has been installed, the clock and radio settings must be reset once the battery is reconnected.

### CHECKING THE WIPER BLADES



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

Clean the wiper blades with washer fluid or water applied with a soft sponge or cloth.

**CHANGING THE WIPER BLADES**

1. Pull the wiper blade and arm away from the glass.
2. Squeeze the locking tabs to release the blade from the arm and pull the blade away from the arm to remove it.
3. Attach the new blade to the arm and snap it into place.

Replace wiper blades at least once per year for optimum performance.

Poor wiper quality can be improved by cleaning the wiper blades and the windshield.

To prolong the life of the wiper blades, it is highly recommended to scrape off the ice on the windshield before turning on the wipers. The layer of ice has many sharp edges and can damage the micro edge of the wiper rubber element.

**AIR FILTER CHECK**

**WARNING:** To reduce the risk of vehicle damage and/or personal burn injuries do not start your engine with the air cleaner removed and do not remove it while the engine is running.

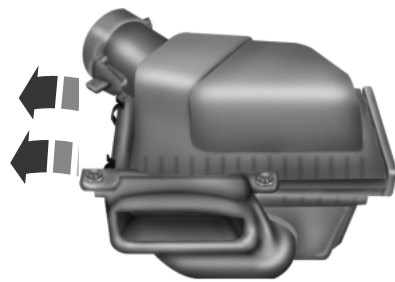
When changing the air filter element, use only the air filter element listed. Refer to *Motorcraft® part numbers* in the Capacities and Specifications chapter.

For EcoBoost™ equipped vehicles: When servicing the air cleaner, it is important that no foreign material enter the air induction system. The engine and turbocharger are susceptible to damage from even small particles.

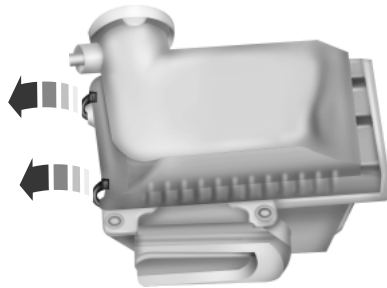
Refer to *Scheduled Maintenance* for the appropriate intervals for changing the air filter element.

**Note:** Failure to use the correct air filter element may result in severe engine damage. The customer warranty may be void for any damage to the engine if the correct air filter element is not used.

### Changing the air filter element

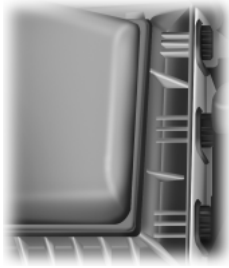


3.7L V6 engine



3.5L V6 EcoBoost engine

1. Release the clamps that secure the air filter housing cover.
2. Carefully separate the two halves of the air filter housing.
3. Remove the air filter element from the air filter housing.
4. Wipe the air filter housing and cover clean to remove any dirt or debris and to ensure good sealing.
5. Install a new air filter element. Be careful not to crimp the filter element edges between the air filter housing and cover. This could cause filter damage and allow unfiltered air to enter the engine if not properly seated.



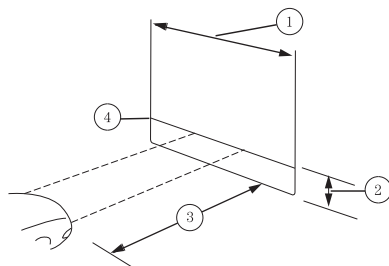
6. Replace the air filter housing cover and secure the clamps. Be sure that the air cleaner cover tabs are engaged into the slots of the air cleaner housing.

### ADJUSTING THE HEADLAMPS

The headlamps on your vehicle are properly aimed at the assembly plant. If your vehicle has been in an accident, the alignment of your headlamps should be checked by your authorized dealer.

#### Vertical Aim Adjustment

1. Park the vehicle directly in front of a wall or screen on a level surface, approximately 25 feet (7.6 meters) away.



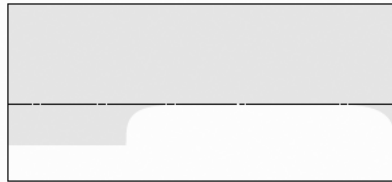
- (1) 8 feet (2.4 meters)
- (2) Center height of lamp to ground
- (3) 25 feet (7.6 meters)
- (4) Horizontal reference line

2. Measure the height of the headlamp bulb center from the ground and mark an 8 foot (2.4 meter) horizontal reference line on the vertical wall or screen at this height (a piece of masking tape works well). The center of the lamp is marked by a 3 millimeter circle on the headlamp lens.

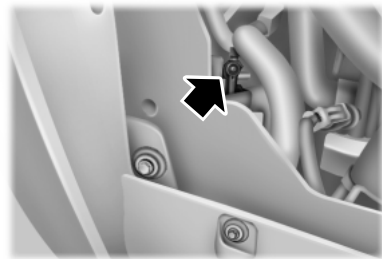
3. Turn on the low beam headlamps to illuminate the wall or screen and open the hood.

To see a clearer light pattern for adjusting, you may want to block the light from one headlamp while adjusting the other.





On the wall or screen you will observe a flat zone of high intensity light located at the top of the right hand portion of the beam pattern. If the top edge of the high intensity light zone is not at the horizontal reference line, the headlamp will need to be adjusted.



4. Locate the vertical adjuster on each headlamp. Using a Phillips #2 screwdriver, turn the adjuster either clockwise or counterclockwise in order to adjust the vertical aim of the headlamp. The horizontal edge of the brighter light should touch the horizontal reference line.

5. Close the hood and turn off the lamps.

HORIZONTAL AIM IS NOT REQUIRED FOR THIS VEHICLE AND IS NOT ADJUSTABLE.

## CHANGING A BULB

### Lamp Assembly Condensation

Exterior lamps are vented to accommodate normal changes in 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 thin film of mist can form on the interior of the lens. The thin mist eventually clears and exits through the vents during normal operation. Clearing time may take as long as 48 hours under dry weather conditions.

Examples of acceptable condensation are:

- Presence of thin mist (no streaks, drip marks or droplets)
- Fine mist covers less than 50% of the lens

Examples of unacceptable moisture (usually caused by a lamp water leak) are:

- Water puddle inside the lamp
- Large water droplets, drip marks or streaks present on the interior of the lens

Take your vehicle to a dealer for service if any of the above conditions of unacceptable moisture are present.

### **Replacing HID headlamp bulbs**

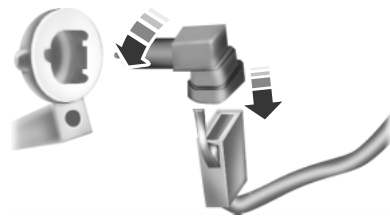
The headlamps on your vehicle use a “high intensity discharge” source. These lamps operate at a high voltage. When the bulb is burned out, the bulb assembly must be replaced by your authorized dealer.

### **Replacing front parking lamp/turn signal/sidemarkers bulbs**

Your vehicle is equipped with an LED front parking lamp/turn signal/sidemarkers bulbs. It is designed to last the life of the vehicle. If replacement is required, it is recommended that you see your authorized dealer.

### **Replacing fog lamp bulbs**

1. Make sure the fog lamp switch is in the off position.
2. Rotate the harness/bulb assembly counterclockwise, to remove from the fog lamp.



3. Carefully disconnect the bulb from the harness assembly via the two snap clips.

Install the new bulb(s) in reverse order.

**Replacing stop/tail, turn signal, backup and sidemarker lamp bulbs**

Your vehicle is equipped with a tail lamp assembly containing integral multiple light emitting diodes (LED) for the stop/tail, turn signal, backup and sidemarker functions. If replacement is required, see your authorized dealer.

**Replacing high-mount brake lamp bulbs**

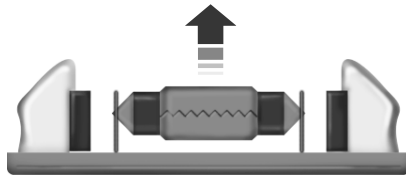
Your vehicle is equipped with an LED center high-mount stop lamp. It is designed to last the life of the vehicle. If replacement is required, it is recommended that you see your authorized dealer.

**Replacing license plate lamp bulbs**

1. Make sure the headlamp switch is in the off position.



2. Remove the two screws and lens from the license plate lamp assembly .



3. Carefully pull the bulb straight out from the lamp assembly.

Install new bulb(s) in reverse order.

**BULB SPECIFICATION CHART**

Replacement bulbs are specified in the chart below. Headlamp bulbs must be marked with an authorized "D.O.T." for North America and an "E" for Europe to ensure lamp performance, light brightness and pattern and safe visibility. The correct bulbs will not damage the lamp assembly or void the lamp assembly warranty and will provide quality bulb burn time.

<b>Function</b>	<b>Number of bulbs</b>	<b>Trade number</b>
Headlamp high beam/ low beam	2	D3S
* Front park/turn/ sidemarker lamp	2	LED
* Backup lamp	2	LED
* Sidemarker lamp (rear)	2	LED
* Tail lamp	2	LED
* Turn signal	4	LED
License plate lamp	2	168
* High-mount brake lamp	1	LED
Fog lamp (if equipped)	2	H11
Map lamp	2	1600XB
Dome/reading lamps	3	1600XB
All replacement bulbs are clear in color except where noted.		
To replace all instrument panel lights, see your authorized dealer.		
* To replace these lamps, see your authorized dealer.		

**GENERAL INFORMATION**

Your Ford or Lincoln authorized dealer has many quality products available to clean your vehicle and protect its finishes.

**CLEANING PRODUCTS**

For best results, use the following products or products of equivalent quality:

- Motorcraft® Bug and Tar Remover (ZC-42)
- Motorcraft® Custom Bright Metal Cleaner (ZC-15)
- Motorcraft® Detail Wash (ZC-3-A)
- Motorcraft® Dusting Cloth (ZC-24)
- Motorcraft® Engine Shampoo and Degreaser (U.S. only) (ZC-20)
- Motorcraft® Engine Shampoo (Canada only) (CXC-66-A)
- Motorcraft® Multi-Purpose Cleaner (Canada only) (CXC-101)
- Motorcraft® Premium Glass Cleaner (Canada only) (CXC-100)
- Motorcraft® Premium Quality Windshield Washer Fluid (Canada only) [CXC-37-(A, B, D or F)]
- Motorcraft® Premium Windshield Washer Concentrate (U.S. only) (ZC-32-A)
- Motorcraft® Professional Strength Carpet & Upholstery Cleaner (ZC-54)
- Motorcraft® Spot and Stain Remover (U.S. only) (ZC-14)
- Motorcraft® Ultra-Clear Spray Glass Cleaner (ZC-23)
- Motorcraft® Vinyl Cleaner (Canada only) (CXC-93)
- Motorcraft® Wheel and Tire Cleaner (ZC-37-A)

**CLEANING THE EXTERIOR**

Wash your vehicle regularly with cool or lukewarm water and a neutral pH shampoo, such as Motorcraft® Detail Wash.

- Never use strong household detergents or soap, such as dish washing or laundry liquid. These products can discolor and spot painted surfaces.
- Never wash a vehicle that is “hot to the touch” or during exposure to strong, direct sunlight.
- Dry the vehicle with a chamois or soft terry cloth towel in order to eliminate water spotting.

- Immediately remove items such as gasoline, diesel fuel, bird droppings and insect deposits because they can cause damage to the vehicle's paintwork and trim over time. Use Motorcraft® Bug and Tar Remover.
- Remove any exterior accessories, such as antennas, before entering a car wash.
- **Note:** Suntan lotions and insect repellents can damage any painted surface; if these substances come in contact with your vehicle, wash off as soon as possible.

### Exterior Chrome

**Note:** Never use abrasive materials such as steel wool or plastic pads as they can scratch the chrome surface.

**Note:** Do not use chrome cleaner, metal cleaner or polish on wheels and wheel covers.

- Wash the vehicle first, using cool or lukewarm water and a neutral pH shampoo, such as Motorcraft® Detail Wash.
- Use Motorcraft® Custom Bright Metal Cleaner. Apply the product as you would a wax to clean bumpers and other chrome parts; allow the cleaner to dry for a few minutes, then wipe off the haze with a clean, dry rag.
- Do not apply cleaning product to hot surfaces and do not leave cleaning product on chrome surfaces for a period of time exceeding that which is recommended.
- **Note:** Using other non-recommended cleaners can result in severe and permanent cosmetic damage.

### Underbody

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

### Cleaning Plastic Exterior Parts

Use only approved products to clean plastic parts.

- For routine cleaning, use Motorcraft® Detail Wash.
- If tar or grease spots are present, use Motorcraft® Bug and Tar Remover.

**WAXING**

- Wash the vehicle first.
- Use a quality wax that does not contain abrasives.
- Do not allow paint sealant to come in contact with any non-body (low-gloss black) colored trim, such as grained door handles, roof racks, bumpers, side moldings, mirror housings or the windshield cowl area. The paint sealant will “gray” or stain the parts over time.

**REPAIRING MINOR PAINT DAMAGE**

Your authorized dealer has touch-up paint to match your vehicle's color. Take your color code (printed on a sticker in the driver's door jamb) to your authorized dealer to ensure you get the correct color.

- Remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout before repairing paint chips.
- Always read the instructions before using the products.

**CLEANING THE ENGINE**

Engines are more efficient when they are clean because grease and dirt buildup keep the engine warmer than normal.

When washing:

- Take care when using a power washer to clean the engine. The high-pressure fluid could penetrate the sealed parts and cause damage.
- Do not spray a hot engine with cold water to avoid cracking the engine block or other engine components.
- Spray Motorcraft® Engine Shampoo and Degreaser on all parts that require cleaning and pressure rinse clean. In Canada, use Motorcraft® Engine Shampoo.
- Never wash or rinse the engine while it is hot or running; water in the running engine may cause internal damage.
- Never wash or rinse any ignition coil, spark plug wire or spark plug well, or the area in and around these locations.
- Cover the battery, power distribution box, and air filter assembly to prevent water damage when cleaning the engine.

**CLEANING THE WINDOWS AND WIPER BLADES**

The windows and wiper blades should be cleaned regularly. If the wipers do not wipe properly, substances on the vehicle's glass or the wiper blades may cause squeaking or chatter noise from the blades, and streaking and smearing of the windshield. To clean these items, follow these tips:

- The windows may be cleaned with a non-abrasive cleaner such as Motorcraft® Ultra-Clear Spray Glass Cleaner.
- The wiper blades can be cleaned with isopropyl (rubbing) alcohol or Motorcraft® Premium Windshield Washer Concentrate in the U.S., or Premium Quality Windshield Washer Fluid in Canada. Be sure to replace wiper blades when they appear worn or do not function properly.
- Do not use abrasives, as they may cause scratches.
- Do not use fuel, kerosene, or paint thinner to clean any parts.

If you cannot remove those streaks after cleaning with the glass cleaner or if the wipers chatter and move in a jerky motion, clean the outer surface of the windshield and the wiper blades using a sponge or soft cloth with a neutral detergent or mild-abrasive cleaning solution. After cleaning, rinse the windshield and wiper blades with clean water. The windshield is clean if beads do not form when you rinse the windshield with water.

**Note:** Do not use sharp objects, such as a razor blade, to clean the inside of the rear window or to remove decals, as it may cause damage to the rear window defroster's heated grid lines.

**CLEANING THE INTERIOR**

**WARNING:** Do not use cleaning solvents, bleach or dye on the vehicle's safety belts, as these actions may weaken the belt webbing.



**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 collision.



For fabric, carpets, cloth seats, safety belts and seats equipped with side airbags:

- Remove dust and loose dirt with a vacuum cleaner.
- Remove light stains and soil with Motorcraft® Professional Strength Carpet & Upholstery Cleaner.
- If grease or tar is present on the material, spot-clean the area first with Motorcraft® Spot and Stain Remover. In Canada, use Motorcraft® Multi-Purpose Cleaner.
- If a ring forms on the fabric after spot cleaning, clean the entire area immediately (but do not oversaturate) or the ring will set.
- Do not use household cleaning products or glass cleaners, which can stain and discolor the fabric and affect the flame retardant abilities of the seat materials.

#### **CLEANING THE INSTRUMENT PANEL AND INSTRUMENT CLUSTER LENS**



**WARNING:** Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.

Clean the instrument panel and cluster lens with a clean, damp, white cotton cloth, then use a clean and dry white cotton cloth to dry these areas.

- Avoid cleaners or polishes that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect the driver from undesirable windshield reflection.
- Be certain to wash or wipe your hands clean if you have been in contact with certain products such as insect repellent and suntan lotion in order to avoid possible damage to the interior painted surfaces.
- Do not use household or glass cleaners as these may damage the finish of the instrument panel, interior trim and cluster lens.
- Do not allow air fresheners and hand sanitizers to spill on interior surfaces. If a spill occurs, wipe off immediately. Damage may not be covered by your warranty.

If a staining liquid like coffee/juice has been spilled on the instrument panel or on interior trim surfaces, clean as follows:

1. Wipe up spilled liquid using a clean, white, cotton cloth.
2. Wipe the surface with a damp, clean, white cotton cloth. For more thorough cleaning, use a mild soap and water solution. If the spot cannot be completely cleaned by this method, the area may be cleaned using a commercially available cleaning product designed for automotive interiors.
3. If necessary, apply more soap and water solution or cleaning product to a clean, white, cotton cloth and press the cloth onto the soiled area—allow this to set at room temperature for 30 minutes.
4. Remove the soaked cloth, and if it is not soiled badly, use this cloth to clean the area by using a rubbing motion for 60 seconds.
5. Following this, wipe area dry with a clean, white, cotton cloth.

#### **CLEANING LEATHER SEATS (IF EQUIPPED)**

- Remove dust and loose dirt with a vacuum cleaner.
- Clean spills and stains as quickly as possible.
- For routine cleaning, wipe the surface with a soft, damp cloth. For more thorough cleaning, wipe the surface with a mild soap and water solution. In Canada, use Motorcraft® Vinyl Cleaner . Dry the area with a soft cloth.
- If the leather cannot be completely cleaned using a mild soap and water solution, the leather may be cleaned using a commercially available leather cleaning product designed for automotive interiors.
- To check for compatibility, first test any cleaner or stain remover on an inconspicuous part of the leather.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing or damage to the leather.

#### **CLEANING THE ALLOY WHEELS**

**Note:** Do not use chrome cleaner, metal cleaner or polish on wheels and wheel covers.

Aluminum wheels and wheel covers are coated with a clear coat paint finish. In order to maintain their shine:

- Clean weekly with Motorcraft® Wheel and Tire Cleaner. Heavy dirt and brake dust accumulation may require agitation with a sponge. Rinse thoroughly with a strong stream of water.

- Never apply any cleaning chemical to hot or warm wheel rims or covers.
- Some automatic car washes may cause damage to the finish on your wheel rims or covers. Industrial-strength (heavy-duty) cleaners, or cleaning chemicals, in combination with brush agitation to remove brake dust and dirt, could wear away the clear coat finish over time.
- Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergent.
- To remove tar and grease, use Motorcraft® Bug and Tar Remover.

### VEHICLE STORAGE

If you plan on storing your vehicle for an extended period of time (30 days or more), read the following maintenance recommendations to make sure your vehicle stays in good operating condition.

All motor vehicles and their components were engineered and tested for reliable, regular driving. Long term storage under various conditions may lead to component degradation or failure unless specific precautions are taken to preserve the components.

#### *General*

- Store all vehicles in a dry, ventilated place.
- Protect from sunlight, if possible.
- If vehicles are stored outside, they require regular maintenance to protect against rust and damage.

#### *Body*

- Wash vehicle thoroughly to remove dirt, grease, oil, tar or mud from exterior surfaces, rear-wheel housing and underside of front fenders.
- Periodically wash vehicles stored in exposed locations.
- Touch-up raw or primed metal to prevent rust.
- Cover chrome and stainless steel parts with a thick coat of auto wax to prevent discoloration. Re-wax as necessary when the vehicle is washed.
- Lubricate all hood, door and trunk lid hinges, and latches with a light grade oil.
- Cover interior trim to prevent fading.
- Keep all rubber parts free from oil and solvents.

*Engine*

- The engine oil and filter should be changed prior to storage, as used engine oil contain contaminates that may cause engine damage.
- Start the engine every 15 days. Run at fast idle until it reaches normal operating temperature.
- With your foot on the brake, shift through all the gears while the engine is running.

*Fuel system*

- Fill the fuel tank with high-quality fuel until the first automatic shutoff of the fuel pump nozzle.

**Note:** During extended periods of vehicle storage (30 days or more), fuel may deteriorate due to oxidation. Add a quality gas stabilizer product to the vehicle fuel system whenever actual or expected storage periods exceed 30 days. Follow the instructions on the additive label. The vehicle should then be operated at idle speed to circulate the additive throughout the fuel system.

*Cooling system*

- Protect against freezing temperatures.
- When removing vehicle from storage, check coolant fluid level. Confirm there are no cooling system leaks, and fluid is at the recommended level.

*Battery*

- Check and recharge as necessary. Keep connections clean.
- If storing your vehicle for more than 30 days without recharging the battery, it may be advisable to disconnect the battery cables to ensure battery charge is maintained for quick starting.

**Note:** If battery cables are disconnected, it will be necessary to reset memory features.

*Brakes*

- Make sure brakes and parking brake are fully released.

*Tires*

- Maintain recommended air pressure.

*Miscellaneous*

- Make sure all linkages, cables, levers and pins under vehicle are covered with grease to prevent rust.
- Move vehicles at least 25 feet (8 meters) every 15 days to lubricate working parts and prevent corrosion.

**Removing Vehicle from Storage**

When your vehicle is ready to come out of storage, do the following:

- Wash your vehicle to remove any dirt or grease film build-up on window surfaces.
- Check windshield wipers for any deterioration.
- Check under the hood for any foreign material that may have collected during storage (mice/squirrel nests).
- Check the exhaust for any foreign material that may have collected during storage.
- Check tire pressures and set tire inflation per the Tire Label.
- Check brake pedal operation. Drive the vehicle 15 feet (4.5 meters) back and forth to remove rust build-up.
- Check fluid levels (including coolant, oil and gas) to make sure there are no leaks, and fluids are at recommended levels.
- If the battery was removed, clean the battery cable ends and inspect.

Contact your authorized dealer if you have any concerns or issues.

**TIRE CARE****Information About Uniform Tire Quality Grading**

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 Ford Motor Company 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 one and one-half (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.

**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.

**Glossary of Tire Terminology**

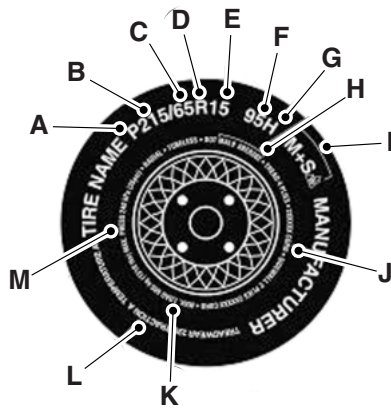
- **Tire label:** A label showing the OE (Original Equipment) tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.
- **Tire Identification Number (TIN):** A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire 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 35 psi [37 psi (2.5 bar) for Metric tires]. 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 41 psi [43 psi (2.9 bar) for Metric tires]. 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 inflation 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 mile (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's 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.
- **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.



**INFORMATION CONTAINED ON THE TIRE SIDEWALL**

Both U.S. 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.

**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 (T&RA), that may be used for service on cars, SUVs, minivans and light trucks.

**Note:** If your tire size does not begin with a letter this may mean it is designated by either ETRTO (European Tire and Rim Technical Organization) or JATMA (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.

**Note:** You may not find this information on all tires because it is not required by federal law.

Letter rating	Speed rating - mph (km/h)
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. Refer to 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.

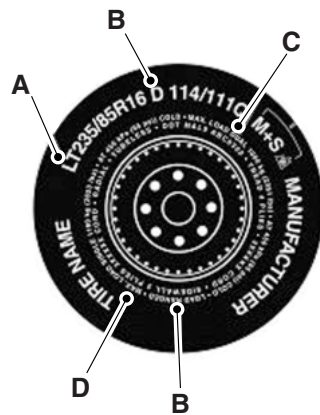
**L. Treadwear, Traction and Temperature Grades**

- **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 (1½) 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 Permissible Inflation Pressure:** Indicates the tire manufacturers' maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the 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, radial tubeless, etc.

**Additional Information Contained on the Tire Sidewall for "LT" Type Tires**



"LT" type tires have some additional information beyond those of "P" type tires; these differences are described below.

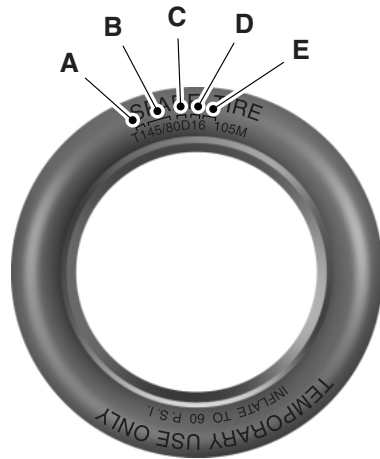
**Note:** Tire Quality Grades do not apply to this type of tire.

A. **LT:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that is intended for service on light trucks.

B. **Load Range/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**

“T” type tires have some additional information beyond those of “P” type tires; these differences are described below:

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.

A. **T:** Indicates a type of tire, designated by the Tire and Rim Association (T&RA), that is intended for temporary service on cars, SUVs, 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.

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.

**Location of the Tire Label**

You will find a Tire Label containing tire inflation pressure by tire size and other important information located on the B-Pillar or the edge of the driver’s door. Refer to the payload description and graphic in the *Load Carrying* chapter.

**INFLATING YOUR TIRES**

Safe operation of your vehicle requires that your tires are properly inflated. Remember that a tire can lose up to half of its air pressure without appearing flat.

Every day before you drive, check your tires. If one looks lower than the others, use a tire gauge to check pressure of all tires and adjust if required.

At least once a month and before long trips, inspect each tire and check the tire pressure with a tire gauge (including spare, if equipped). Inflate all tires to the inflation pressure recommended by Ford Motor Company.



**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!

You are strongly urged to buy a reliable tire pressure gauge, as automatic service station gauges may be inaccurate. Ford recommends the use of a digital or dial-type tire pressure gauge rather than a stick-type tire pressure gauge.

Use the recommended cold inflation pressure for optimum tire performance and wear. Under-inflation or over-inflation may cause uneven treadwear patterns.

Always inflate your tires to the Ford recommended inflation pressure even if it is less than the maximum inflation pressure information found on the tire. The Ford recommended tire inflation pressure is 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. Failure to follow the tire pressure recommendations can cause uneven treadwear patterns and adversely affect the way your vehicle handles.

**Maximum Permissible Inflation Pressure** is the tire manufacturer's maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the 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 Safety Compliance Certification Label or Tire Label.

When weather temperature changes occur, tire inflation pressures also change. A 10°F (6°C) temperature drop can cause a corresponding drop of 1 psi (7 kPa) in inflation pressure. Check your tire pressures frequently and adjust them to the proper pressure which can be found on the Safety Compliance Certification Label or Tire Label.

To check the pressure in your tire(s):

1. Make sure the tires are cool, meaning they are not hot from driving even a mile.

If you are checking tire pressure when the tire is hot, (i.e. driven more than 1 mile [1.6 km]), never "bleed" or reduce air pressure. The tires are hot from driving and it is normal for pressures to increase above recommended cold pressures. A hot tire at or below recommended cold inflation pressure could be significantly under-inflated.

**Note:** If you have to drive a distance to get air for your tire(s), check and record the tire pressure first and add the appropriate air pressure when you get to the pump. It is normal for tires to heat up and the air pressure inside to go up as you drive.

2. Remove the cap from the valve on one tire, then firmly press the tire gauge onto the valve and measure the pressure.

3. Add enough air to reach the recommended air pressure.

**Note:** If you overfill the tire, release air by pressing on the metal stem in the center of the valve. Then recheck the pressure with your tire gauge.

4. Replace the valve cap.

5. Repeat this procedure for each tire, including the spare.

**Note:** Some spare tires operate at a higher inflation pressure than the other tires. For T-type/mini-spare tires (see the *Dissimilar spare tire and wheel assembly information* section for description): Store and maintain at 60 psi (4.15 bar). For full-size and dissimilar spare tires (see the *Dissimilar spare tire and wheel assembly information* section for description): Store and maintain at the higher of the front and rear inflation pressure as shown on the Tire Label.

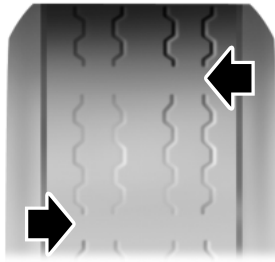
6. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.
7. Check the sidewalls to make sure there are no gouges, cuts or bulges.

### Inspecting Your Tires and Wheel Valve Stems

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. Check the tire and valve stems for holes, cracks, or cuts that may permit air leakage and repair or replace the tire and replace the valve stem. 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 demounted 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.

Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Inspect all your tires, including the spare, frequently, and replace them if one or more of the following conditions exist:

#### Tire Wear



When the tread is worn down to 1/16th 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 1/16th 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.



**Damage**

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. Tires can be damaged during off-road use, so inspection after off-road use is also recommended.

**WARNING: Age**

Tires degrade over time depending on many factors such as weather, storage conditions, and conditions of use (load, speed, inflation pressure, etc.) 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 (TIN)**

Both U.S. 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**

**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. Additionally the use of non-recommended tires and wheels could cause steering, suspension, axle or transfer case/power transfer unit failure. If you have questions regarding tire replacement, contact your authorized dealer as soon as possible.



**WARNING:** 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.

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:

1. Make sure that you have the correct tire and wheel size.
2. Lubricate the tire bead and wheel bead seat area again.
3. Stand at a minimum of 12 ft (3.66 m) away from the tire wheel assembly.
4. Use both eye and ear protection.

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.

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 tire wheel assembly.

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.

**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.

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 by Ford Motor Company may affect the operation of your tire pressure monitoring system.

If the TPMS indicator is flashing, your TPMS is malfunctioning. Your replacement tire might be incompatible with your TPMS, or some component of the TPMS may be damaged.

### Safety Practices



**WARNING:** If your vehicle is stuck in snow, mud, sand, etc., 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 35 mph (56 km/h). The tires may fail and injure a passenger or bystander.

Driving habits have a great deal to do with your tire mileage and safety.

- Observe posted speed limits
- Avoid fast starts, stops and turns
- Avoid potholes and objects on the road
- Do not run over curbs or hit the tire against a curb when parking

### Highway Hazards

No matter how carefully you drive there's always the possibility that you may eventually have a flat tire on the highway. Drive slowly to the closest safe area out of traffic. This may 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 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're driving, the wheels may 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. Front-wheel drive vehicles and those with an independent rear suspension (if equipped) may require alignment of all four wheels.

The tires should also be balanced periodically. An unbalanced tire and wheel assembly may result in irregular tire wear.

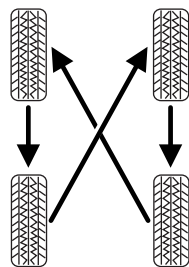
### Tire Rotation

**Note:** If your tires show uneven wear ask an authorized dealer to check for and correct any wheel misalignment, tire imbalance or mechanical problem involved before tire rotation.

**Note:** Your vehicle may be equipped with a dissimilar spare tire/wheel. A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels. If you have a dissimilar spare tire/wheel 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.

Rotating your tires at the recommended interval (as indicated in the *Scheduled Maintenance* chapter) will help your tires wear more evenly, providing better tire performance and longer tire life.



- Front-wheel drive (FWD)/All-wheel drive (AWD) vehicles (front tires at top of diagram)

Sometimes irregular tire wear can be corrected by rotating the tires.

**USING SNOW CHAINS**

**WARNING:** Snow tires must be the same size, load index, speed rating as those originally provided by Ford. 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. Additionally, the use of non-recommended tires and wheels could cause steering, suspension, axle or transfer case/power transfer unit failure.



**WARNING:** Do not use snow chains or cables on this vehicle as they may cause damage to your vehicle which may lead to loss of vehicle control.

The original equipment tires on your vehicle have an all-weather tread design to provide traction, handling and braking performance in year-round driving. You may install snow tires for improved traction when driving in areas with sustained periods of snow or icy driving conditions.

If you choose to install snow tires on your vehicle, they must be the same size, construction, and load range as the original tires listed on the tire placard, and they must be installed on all four wheels. Mixing tires of different size or construction on your vehicle can adversely affect your vehicle's handling and braking, and may lead to loss of vehicle control.

**TIRE PRESSURE MONITORING SYSTEM**

**WARNING:** The tire pressure monitoring system is NOT a substitute for manually checking tire pressure. The tire pressure should be checked periodically (at least monthly) using a tire gauge, see *Inflating your tires* in this chapter. Failure to properly maintain your tire pressure could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.



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.

The TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

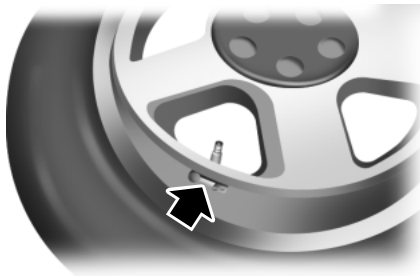
Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction

telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

The tire pressure monitoring system complies with part 15 of the FCC rules and with RSS-210 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.

### Changing Tires with a TPMS



**Note:** Each road tire is equipped with a tire pressure sensor located inside the tire and wheel assembly cavity. The pressure sensor is attached to the valve stem. The pressure sensor is covered by the tire and is not visible unless the tire is removed. Care must be taken when changing the tire to avoid damaging the sensor.

It is recommended that you always have your tires serviced by an authorized dealer.

The tire pressure should be checked periodically (at least monthly) using an accurate tire gauge, refer to *Inflating your tires* in this chapter.

### Understanding Your Tire Pressure Monitoring System (TPMS)

The tire pressure monitoring system measures pressure in your four road tires and sends the tire pressure readings to your vehicle. The low tire pressure warning light will turn on if the tire pressure is significantly low. Once the light is illuminated, your tires are under-inflated and need to be inflated to the manufacturer's recommended tire pressure. Even if the light turns on and a short time later turns off, your tire pressure still needs to be checked. Visit [www.checkmytires.org](http://www.checkmytires.org) for additional information.

### When Your Temporary Spare Tire Is Installed

When one of your road tires needs to be replaced with the temporary spare, the TPMS will continue to identify an issue to remind you that the damaged road wheel/tire needs to be repaired and put back on your vehicle.

To restore the full functionality of the tire pressure monitoring system, have the damaged road wheel/tire repaired and remounted on your vehicle. For additional information, refer to *Changing tires with a TPMS* in this section.

***When You Believe Your System Is Not Operating Properly***

The main function of the tire pressure monitoring system is to warn you when your tires need air. It can also warn you in the event the system is no longer capable of functioning as intended. Please refer to the following chart for information concerning your tire pressure monitoring system:

Low tire pressure warning light	Possible cause	Customer action required
Solid warning light	Tire(s) under-inflated	1. Make sure tires are at the proper pressure. See <i>Inflating your tires</i> in this chapter. 2. After inflating your tires to the manufacturer's recommended pressure as shown on the Tire Label (located on the edge of driver's door or the B-Pillar), the vehicle must be driven for at least two minutes over 20 mph (32 km/h) before the light turns off.
	Spare tire in use	Repair the damaged road wheel/tire and reinstall it on the vehicle to restore system functionality. For a description on how the system functions, refer to <i>When your temporary spare tire is installed</i> in this section.
	TPMS malfunction	If the tires are properly inflated and the spare tire is not in use but the light remains on, contact your authorized dealer as soon as possible.



Low tire pressure warning light	Possible cause	Customer action required
Flashing warning light	Spare tire in use	Repair the damaged road wheel/tire and reinstall it on the vehicle to restore system functionality. For a description on how the system functions, refer to <i>When your temporary spare tire is installed</i> in this section.
	TPMS malfunction	If the tires are properly inflated and the spare tire is not in use but the light remains on, contact your authorized dealer as soon as possible.

#### **When Inflating Your Tires**

When putting air into your tires (such as at a gas station or in your garage), the tire pressure monitoring system may not respond immediately to the air added to your tires.

It may take up to two minutes of driving over 20 mph (32 km/h) for the light to turn off after you have filled your tires to the recommended inflation pressure.

#### **How Temperature Affects Your Tire Pressure**

The tire pressure monitoring system (TPMS) monitors tire pressure in each pneumatic tire. While driving in a normal manner, a typical passenger tire inflation pressure may increase approximately 2 to 4 psi (14 to 28 kPa) from a cold start situation. If the vehicle is stationary overnight with the outside temperature significantly lower than the daytime temperature, the tire pressure may decrease approximately 3 psi (21 kPa) for a drop of 30°F (17°C) in ambient temperature. This lower pressure value may be detected by the TPMS as being significantly lower than the recommended inflation pressure and activate the TPMS warning light for low tire pressure. If the low tire pressure warning light is on, visually check each tire to verify that no tire is flat. (If one or more tires are flat, repair as necessary.) Check air pressure in the road tires. If any tire is under-inflated, carefully drive the vehicle to the nearest location where air can be added to the tires. Inflate all the tires to the recommended inflation pressure.

**CHANGING A ROAD WHEEL**

**WARNING:** The use of tire sealants may damage your tire pressure monitoring system (TPMS) and should not be used. However, if you must use a sealant, the TPMS sensor and valve stem on the wheel must be replaced by an authorized Ford dealer.



**WARNING:** Refer to *Tire pressure monitoring system (TPMS)* in this chapter for important information. If the tire pressure monitor sensor becomes damaged, it will no longer function.

**Note:** The tire pressure monitoring system (TPMS) indicator light will illuminate when the spare tire is in use. To restore the full functionality of the monitoring system, all road wheels equipped with tire pressure monitoring sensors must be mounted on the vehicle.

If you get a flat tire while driving, do not apply the brake heavily. Instead, gradually decrease your speed. Hold the steering wheel firmly and slowly move to a safe place on the side of the road.

Have a flat serviced by an authorized dealer in order to prevent damage to the TPMS sensors, refer to *Tire pressure monitoring system (TPMS)* earlier in the chapter. Replace the spare tire with a road tire as soon as possible. During repairing or replacing of the flat tire, have the authorized dealer inspect the TPMS sensor for damage.

**Dissimilar Spare Tire and Wheel Assembly Information**

**WARNING:** Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

If you have a dissimilar spare tire and wheel assembly, then it is intended for temporary use only. This means that if you need to use it, you should replace it as soon as possible with a road tire and wheel assembly that is the same size and type as the road tires and wheels that were originally provided by Ford. If the dissimilar spare tire or wheel is damaged, it should be replaced rather than repaired.

A dissimilar spare tire and wheel assembly is defined as a spare tire or wheel that is different in brand, size or appearance from the road tires and wheels and can be one of three types:

1. **T-type mini-spare:** This spare tire begins with the letter “T” for tire size and may have “Temporary Use Only” molded in the sidewall
2. **Full-size dissimilar spare with label on wheel:** This spare tire has a label on the wheel that states: “THIS TIRE AND WHEEL FOR TEMPORARY USE ONLY”

When driving with one of the dissimilar spare tires listed above, **do not:**

- Exceed 50 mph (80 km/h)
- Load the vehicle beyond maximum vehicle load rating listed on the Safety Compliance Label
- Tow a trailer
- Use snow chains on the end of the vehicle with the dissimilar spare tire
- Use more than one dissimilar spare tire at a time
- Use commercial car washing equipment
- Try to repair the dissimilar spare tire

Use of one of the dissimilar spare tires listed above at any one wheel location can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability
- All-wheel driving capability (if applicable)

### 3. **Full-size dissimilar spare without label on wheel**

When driving with the full-size dissimilar spare tire and wheel assembly, do not:

- Exceed 70 mph (113 km/h)
- Use more than one dissimilar spare tire and wheel at a time
- Use commercial car washing equipment
- Use snow chains on the end of the vehicle with the dissimilar spare tire and wheel

The usage of a full-size dissimilar spare tire and wheel assembly can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability
- All-wheel driving capability (if applicable)
- Load leveling adjustment (if applicable)

When driving with the full-size dissimilar spare tire and wheel assembly, additional caution should be given to:

- Towing a trailer
- Driving vehicles equipped with a camper body
- Driving vehicles with a load on the cargo rack

Drive cautiously when using a full-size dissimilar spare tire and wheel, and seek service as soon as possible.

#### Tire Change Procedure



**WARNING:** When one of the front wheels is off the ground, the transmission alone will not prevent the vehicle from moving or slipping off the jack, even if the transmission selector lever is in position **P**.



**WARNING:** To help prevent the vehicle from moving when you change a tire, be sure to place the transmission selector lever in position **P**, set the parking brake and block (in both directions) the wheel that is diagonally opposite (other side and end of the vehicle) to the tire being changed.



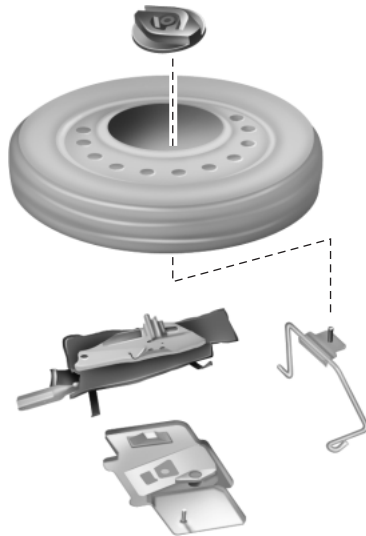
**WARNING:** Never get underneath a vehicle that is supported only by a jack. If the vehicle slips off the jack, you or someone else could be seriously injured.

**!** **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 avoid the danger of being hit when operating the jack or changing the wheel.

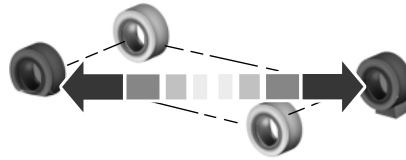
**!** **WARNING:** Always use the jack provided as original equipment with your vehicle. If using a jack other than the one provided as original equipment with your vehicle, make sure the jack capacity is adequate for the vehicle weight, including any vehicle cargo or modifications.

**Note:** Passengers should not remain in the vehicle when the vehicle is being jacked.

1. Park on a level surface, set the parking brake and activate the hazard flashers.
2. Place the transmission selector lever in position **P** and turn the engine off.



3. Lift the trunk cargo cover, and remove the wing nut that secures the spare tire by turning it counterclockwise.
4. Lift and remove the spare tire from the trunk.
5. Remove the second wing nut that secures the jack retention bracket by turning it counterclockwise, remove the jack kit from the vehicle.
6. Remove the jack and the wrench from the felt bag. Fold down the wrench socket to use to loosen the lug nuts and to operate the jack.

**Vehicle jacking**

1. Block the diagonally opposite wheel.
2. If your vehicle has wheel covers, remove them with the lug wrench tip and loosen each wheel lug nut one-half turn counterclockwise. Do not remove them until the wheel is raised off the ground.

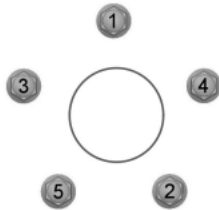
3. The vehicle jacking points are shown here, and are depicted on the yellow warning label on the jack.

**Jack at the specified locations to avoid damage to the vehicle.**

4. Small arrow-shaped marks on the sills show the location of the jacking points.



5. Remove the lug nuts with the lug wrench.
6. Replace the flat tire with the spare tire, making sure the valve stem is facing outward. Reinstall the lug nuts until the wheel is snug against the hub. Do not fully tighten the lug nuts until the wheel has been lowered.
7. Lower the wheel by turning the jack handle counterclockwise.

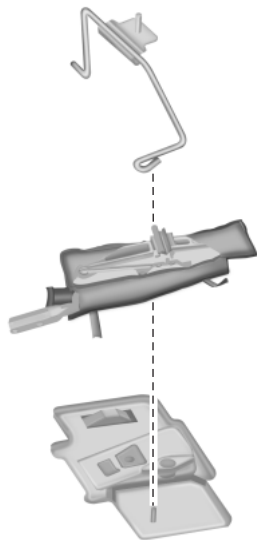


8. Remove the jack and fully tighten the lug nuts in the order shown. Refer to *Wheel lug nut torque specifications* later in this chapter for the proper lug nut torque specification.

9. Put the flat tire, jack and lug wrench away. Make sure the jack is fastened so it does not rattle when you drive. Unblock the wheels.

**Stowing the flat tire**

1. Remove the extension bolt from the exterior pocket of the felt bag.



2. Insert the straight end of the jack retention bracket through the eyelet of the angled bracket and swing the retention bracket over the jack. With the jack in place, place the end of the retention bracket over the threaded stud in the trunk floor and secure it with the plastic wing nut.

3. Screw the extension bolt onto the threaded stud of the jack retention bracket.



4. Place the flat tire in the spare tire well with the wheel facing up.
5. Safely secure the wheel by screwing the large wing nut onto the extension bolt.

**Note:** If you are stowing the temporary spare tire, place the tire over the jack and secure it with the large wing nut.



**TECHNICAL SPECIFICATIONS**

**Wheel Lug Nut Torque Specifications**

**!** **WARNING:** When a wheel is installed, always 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. Ensure that any fasteners that attach the rotor to the hub are secured so they do not interfere with the mounting surfaces of the wheel. Installing wheels without correct metal-to-metal contact at the wheel mounting surfaces can cause the wheel nuts to loosen and the wheel to come off while the vehicle is in motion, resulting in loss of control.

Retighten the lug nuts to the specified torque within 100 miles (160 km) after any wheel disturbance (rotation, flat tire, wheel removal, etc.).

Lug nut socket size/Bolt size	Wheel lug nut torque*	
	ft-lb	N•m
½ x 20	100	135

\* Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.



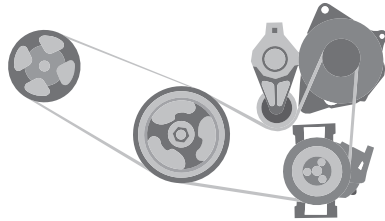
**Note:** Inspect the wheel pilot hole and mounting surface prior to installation. Remove any visible corrosion or loose particles.

## ENGINE SPECIFICATIONS

Engine	3.7L V6 engine	3.5L V6 EcoBoost engine
Cubic inches	226	214
Fuel	See <i>Octane recommendations</i> in the Fuel and Refueling chapter.	See <i>Octane recommendations</i> in the Fuel and Refueling chapter.
Firing order	1-4-2-5-3-6	1-4-2-5-3-6
Spark plug gap	0.049-0.053 in. (1.25-1.35 mm)	0.033-0.037 in. (.84-.94 mm)
Ignition system	Coil on plug	Coil on plug
Compression ratio	10.5:1	10.0:1

## Engine drivebelt routing

3.7L V6 engine



1. Short drivebelt is on first pulley groove closest to engine (except vehicles with electric power assisted steering).

2. Long drivebelt is on second pulley groove farthest from engine.

3.5L V6 EcoBoost engine



**TECHNICAL SPECIFICATIONS**

Items	Capacity	Ford Part Name or equivalent	Ford Part Number / Ford Specification
Brake fluid <sup>1</sup>	Between MAX and MIN on reservoir	Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid	PM-20 / WSS-M6C65-A2 and ISO 4925 Class 6
Door latch, hood latch, auxiliary hood latch, seat tracks, trunk and liftgate latches	—	Multi-Purpose Grease (Lithium grease)	XG-4 or XL-5 or equivalent / ESA-M1C93-B
Lock cylinders	—	Motorcraft® Penetrating and Lock Lubricant	XL-1 / None
Automatic transmission fluid <sup>2,3</sup>	10.9 quarts (10.3L) (6F50)	Motorcraft® MERCON® LV ATF	XT-10-QLV / MERCON® LV
	11.6 quarts (11.0L) (6F55)		
Rear differential (AWD) fluid	2.4 pints (1.15L)	Motorcraft® SAE 80W-90 Premium Rear Axle Lubricant	XY-80W90-QL / WSP-M2C197-A
Power Transfer Unit (PTU) fluid (AWD) <sup>4</sup>	18 ounces (0.53L)	Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant	XY-75W140-QL / WSL-M2C192-A

Items	Capacity	Ford Part Name or equivalent	Ford Part Number / Ford Specification
Engine oil <sup>5,6</sup>	6.0 quarts (5.7L) (3.7L V6 engine)	<ul style="list-style-type: none"> <li>• Motorcraft® SAE 5W-20 Premium Synthetic Blend Motor Oil (US)</li> <li>• Motorcraft® SAE 5W-20 Full Synthetic Motor Oil (US)</li> <li>• Motorcraft® SAE 5W-20 Super Premium Motor Oil (Canada)</li> <li>• Motorcraft® SAE 5W-20 Synthetic Motor Oil (Canada)</li> </ul>	<ul style="list-style-type: none"> <li>• XO-5W20-QSP (US)</li> <li>• XO-5W20-QFS (US)</li> <li>• CXO-5W20-LSP12 (Canada)</li> <li>• CXO-5W20-LFS12 (Canada) / WSS-M2C945-A and API Certification Mark</li> </ul>
	6.0 quarts (5.7L) (3.5L V6 EcoBoost engine)	<ul style="list-style-type: none"> <li>• Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (US)</li> <li>• Motorcraft® SAE 5W-30 Full Synthetic Motor Oil (US)</li> <li>• Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada)</li> <li>• Motorcraft® SAE 5W-30 Synthetic Motor Oil (Canada)</li> </ul>	<ul style="list-style-type: none"> <li>• XO-5W30-QSP (US)</li> <li>• XO-5W30-QFS (US)</li> <li>• CXO-5W30-LSP12 (Canada)</li> <li>• CXO-5W30-LFS12 (Canada) / WSS-M2C946-A with API Certification Mark</li> </ul>

Items	Capacity	Ford Part Name or equivalent	Ford Part Number / Ford Specification
Engine coolant <sup>7</sup>	11.1 quarts (10.5L) (3.7L V6 engine)	Motorcraft® Orange Antifreeze/Coolant Prediluted	<ul style="list-style-type: none"> <li>• VC-3DIL-B (US)</li> <li>• CVC-3DIL-B (Canada) / WSS-M97B44-D2</li> </ul>
	11.4 quarts (10.8L) (3.5L V6 EcoBoost engine)		
Fuel tank	19.0 gallons (71.9L)	—	—
Windshield washer fluid	Fill as required	Motorcraft® Premium Windshield Washer Concentrate (US) Premium Quality Windshield Washer Fluid (Canada)	ZC-32-A (US) CXC-37-(A, B, D, and F) (Canada) / WSB-M8B16-A2/- -

<sup>1</sup>Use only Motorcraft® DOT 4 LV High Performance Brake Fluid or equivalent meeting WSS-M6C65-A2 and ISO 4925 Class 6. Use of any fluid other than the recommended fluid may cause brake system damage.

<sup>2</sup>Approximate dry fill capacity. Actual amount may vary during fluid changes.

<sup>3</sup>Automatic transmissions that require MERCON® LV should only use MERCON® LV fluid. Refer to *scheduled maintenance information* to determine the correct service interval. Use of any fluid other than the recommended fluid may cause transmission damage.

Items	Capacity	Ford Part Name or equivalent	Ford Part Number / Ford Specification
<sup>4</sup> See your authorized dealer for fluid level checking or filling.			
<sup>5</sup> Use of synthetic or synthetic blend motor oil is not mandatory. Engine oil need only meet the requirements of Ford specification WSS-M2C946-A (3.5L V6 EcoBoost engine) or WSS-M2C945-A (3.7L V6 engine) and display the API Certification Mark.			
<sup>6</sup> Your engine has been designed to be used with Ford engine oil, which gives a fuel economy benefit while maintaining the durability of your engine. Using oils other than the one specified can result in longer engine cranking periods, reduced engine performance, reduced fuel economy and increased emission levels.			
<sup>7</sup> Add the coolant type originally equipped in your vehicle.			

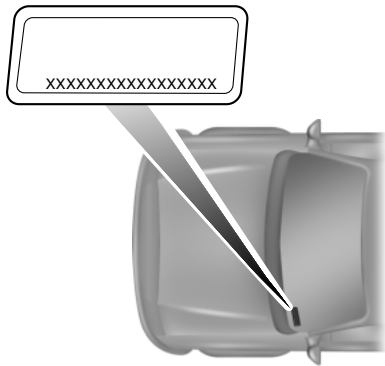
**Motorcraft part numbers**

Component	3.7L V6 engine	3.5L V6 EcoBoost™ engine
Air filter element	FA-1884	FA-1884
Battery	BXT-65-650	BXT-65-650
Oil filter	FL-500-S	FL-500-S
Spark plugs	SP-520 <sup>1</sup>	SP-528 <sup>1</sup>
Cabin air filter	FP68	FP68
Windshield wiper blade	WW-2601-PF (driver side) WW-2001-PF (passenger side)	

<sup>1</sup> Refer to *scheduled maintenance information* for the appropriate intervals for changing the spark plugs.

**Note:** Replace the spark plugs with ones that meet Ford material and design specifications for your vehicle, such as Motorcraft® or equivalent replacement parts. The customer warranty may be void for any damage to the engine if such spark plugs are not used.

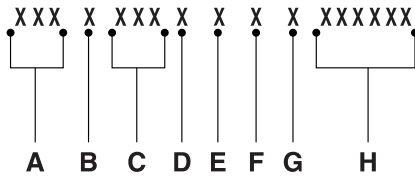
**VEHICLE IDENTIFICATION NUMBER**



The vehicle identification number is located on the driver side instrument panel.

Please note that in the graphic, XXXX is representative of your vehicle identification number.

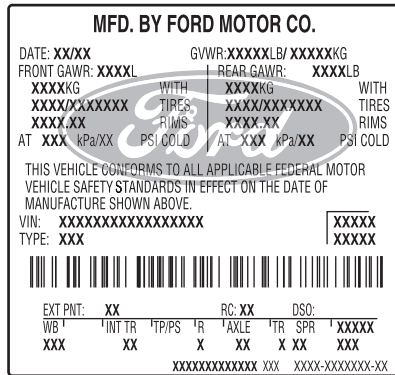
The Vehicle Identification Number (VIN) contains the following information:



- A. World manufacturer identifier
- B. Brake system / Gross Vehicle Weight Rating (GVWR) / Restraint Devices and their location
- C. Make, vehicle line, series, body type
- D. Engine type
- E. Check digit
- F. Model year

- G. Assembly plant
- H. Production sequence number

**VEHICLE CERTIFICATION LABEL**



The National Highway Traffic Safety Administration Regulations require that a Safety Compliance Certification Label be affixed to a vehicle and prescribe where the Safety Compliance Certification Label may be located. The Safety Compliance Certification Label shall be affixed to either the door hinge pillar, the door latch post, or the edge of the door near the door latch, next to the driver's seating position.




**TRANSMISSION CODE DESIGNATION**

**MFD. BY FORD MOTOR CO.**

DATE: XX/XX GVWR: XXXXLB/ XXXXXKG  
 FRONT GAWR: XXXXL REAR GAWR: XXXXLB  
 XXXXKG WITH XXXXKG WITH  
 XXXX/XXXXXXX TIRES XXXX/XXXXXXX TIRES  
 XXXX.XX RIMS XXXX.XX RIMS  
 AT XXX kPa/XX PSI COLD AT XXX kPa/XX PSI COLD

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR  
 VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF  
 MANUFACTURE SHOWN ABOVE.

VIN: XXXXXXXXXXXXXXXXXX XXXXX  
 TYPE: XXX XXXXX



EXT PNT: XX RC: XX DSO: \_\_\_\_\_  
 WB<sup>1</sup> INT TR TP/PS<sup>1</sup> R AXLE TR SPR<sup>1</sup> XXXXX  
 XXX XX X XX X XX XXX

XXXXXXXXXXXXX X XXXX-XXXXXX-XX

You can find a transmission code on the Safety Compliance Certification Label. The following table tells you which transmission each code represents.

Description	Code
6-speed automatic transmission (6F50)	J
6-speed automatic transmission (6F55)	C

**ACCESSORIES**

For a complete listing of the accessories that are available for your vehicle, please contact your dealer or visit our online store at:

**Accessories.Lincoln.com** (U.S. only).

Lincoln Custom Accessories are available for your vehicle through your local Lincoln or Lincoln of Canada dealer. Lincoln Motor Company will repair or replace any properly dealer-installed Lincoln Custom Accessories found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessories. The accessories will be warranted for whichever provides you the greatest benefit:

- 12 months or 12,000 miles (20,000 km) (whichever occurs first), or
- the remainder of your new vehicle limited warranty.

Contact your dealer for details and a copy of the warranty.

**Exterior style**

- Moon roof deflector
- Side window deflector
- Chrome dress-up kits
- Splash guards
- Spoiler

**Interior style**

- All-weather floor mats
- Backlit sill plates
- Carpeted floor mats
- Rear seat entertainment\*
- Sports pedals

**Lifestyle**

- Ash cup / smoker's package
- Cargo organization and management
- Roof rack and carriers\*

**Peace of mind**

- Car cover
- Locking fuel plug for capless fuel system

- Vehicle security
- Wheel locks
- Remote start

\*Lincoln Licensed Accessories are warranted by the accessory manufacturer's warranty. Lincoln Licensed Accessories are fully designed and developed by the accessory manufacturer and have not been designed or tested to Ford Motor Company engineering requirements. Contact your Ford dealer for details regarding the manufacturer's limited warranty and/or a copy of the Lincoln Licensed Accessories product limited warranty offered by 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). Consult your authorized dealer for specific weight information.
- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems — such as two-way radios, telephones and theft alarms - that are equipped with radio transmitters. Any such equipment installed in your vehicle should comply with FCC or CRTC regulations and should be installed only by a qualified service technician.
- Mobile communications systems may harm the operation of your vehicle, particularly if they are not properly designed for automotive use.
- To avoid interference with other vehicle functions, such as anti-lock braking systems, amateur radio users who install radios and antennas onto their vehicle should not locate the amateur radio antennas in the area of the driver's side hood.
- Any non-Lincoln custom electrical or electronic accessories or components that are added to the vehicle by the authorized dealer or the owner, may adversely affect battery performance and durability, and may also adversely affect the performance of other electrical systems in the vehicle.

**FORD ESP EXTENDED SERVICE PLANS (U.S. ONLY)**

More than 32 million Ford and Lincoln owners have discovered the powerful protection of Ford ESP. It is the only extended service plan backed by Ford Motor Company, and provides “peace of mind” protection beyond the New Vehicle Limited Warranty coverage.

***Up to 500+ Covered Vehicle Components***

There are four, new-vehicle Extended Service Plans with different levels of coverage. Ask your dealer for details.

**PremiumCare** – Our most comprehensive coverage. With over 500 covered components, this plan is so complete that we generally only discuss what’s not covered!

**ExtraCare** – Covers 113 components, and includes many high-tech items.

**BaseCare** – Covers 84 components.

**PowertrainCare** – Covers 29 critical components.

**Ford ESP is honored by all Ford and Lincoln Dealers in the U.S. and Canada** It’s the only extended service plan authorized and backed by Ford Motor Company. That means you get:

- Reliable, quality service anywhere you go.
- **Factory-trained technicians.**
- **Ford Authorized Parts used with every covered repair.**

***Rental car reimbursement***

**If your vehicle is kept overnight for covered repairs**, you are eligible for rental car coverage, including Bumper-to-Bumper warranty repairs, or manufacturer’s recalls.

***Transferable coverage***

If you sell your vehicle before your Ford ESP coverage expires, you can transfer any remaining coverage to the new owner. Whenever you’re ready to sell your car, prospective buyers may feel better about taking a risk on your used vehicle. Ford ESP may add resale value!

Plus, **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.
- Destination assistance for taxi, shuttle, rental car coverage and emergency transportation.

***Ford ESP Can Quickly Pay for Itself***

One service bill – the cost of parts and labor – can easily exceed the price of your Ford ESP Service Contract. With Ford ESP, you minimize your risk for unexpected repair bills and rising repair costs.

***Avoid the rising cost of properly maintaining your vehicle!***

Ford ESP also offers a Premium Maintenance Plan that covers items that **routinely wear out**.

The coverage is prepaid, so you never have to worry about affording your vehicle maintenance. It covers regular checkups, routine inspections, preventive care and replacement of items that require periodic attention for **normal “wear”**:

- **Wiper blades**
- **Spark plugs (except California)**
- **Clutch disc**
- **Brake pads and linings**
- **Shock absorbers**
- **Belts and hoses**

Contact your selling Ford or Lincoln dealership today so they can customize a Ford Extended Service Plan that fits your driving lifestyle and budget.

***Interest free finance options available***

Take advantage of our installment payment plan, just a 10% down payment will provide you with an affordable no interest, no-fee payment opportunity.

**Protect Yourself From the Rising Cost of Vehicle Repairs With a Ford Extended Service Plan**

To learn more, call our Ford ESP specialists at 800-367-3377, and don't forget to ask about our interest free payment program, allowing you all the security and benefits Ford ESP has to offer while paying over time. Your pre-approved with no credit checks, no hassels!

Or, mail your name, address, city, state and zip code to:

Ford ESP  
P.O. Box 8072  
Royal Oak, MI 48068-9933

**FORD ESP EXTENDED SERVICE PLANS (CANADA ONLY)**

You can get more protection for your vehicle by purchasing a Ford Extended Service Plan (ESP). Ford ESP is the only service contract backed by Ford Motor Company of Canada, Limited. Depending on the plan you purchase, Ford ESP 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 ESP 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 ESP, you receive added peace-of-mind protection throughout Canada and the United States, provided by a network of participating Ford Motor Company dealers. The Lincoln Maintenance Protection Plan is honored at authorized Lincoln dealers.

**Note:** Repairs performed outside of Canada and the United States are not eligible for Ford ESP coverage.

This information is subject to change.

For more information, visit your local Ford of Canada dealer or [www.ford.ca](http://www.ford.ca) to find the Ford Extended Service Plan that is right for you.

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**GENERAL MAINTENANCE INFORMATION****Why Maintain Your Vehicle?**

Carefully following the maintenance schedule helps protect against major repair expenses resulting from neglect or inadequate maintenance and may also help to increase the value of your vehicle when you sell or trade it. Keep all receipts for completed maintenance with the vehicle.

Regular maintenance intervals for your vehicle have been established based upon rigorous testing. It is important that you have your vehicle serviced at the proper times. These intervals serve two purposes; one is to maintain the reliability of your vehicle and the second is keep your cost of owning the vehicle down.

It is your responsibility to see that all scheduled maintenance is performed and that the materials used meet the specifications identified in the *Capacities and Specifications* chapter. 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. Your vehicle is very sophisticated and built with multiple complex performance systems. Every manufacturer develops these systems using different specifications and performance features. That's why it's important to rely upon your dealership to properly diagnose and repair your vehicle.

***Genuine Ford and Motorcraft® Replacement Parts***

Dealerships stock Ford, Motorcraft® and Ford-authorized branded remanufactured replacement parts. These parts meet or exceed Ford Motor Company's specifications. Parts installed at your dealership carry a nationwide, 12 month/12000 mile (20000 kilometer) parts and labor limited warranty. If you do not use Ford authorized parts, they may not meet Ford 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 collision repairs.

**Note:** Not all dealers have extended hours or bodyshops. Please contact your dealer for details.

**Protecting Your Investment**

Maintenance is an investment that will pay dividends in the form of improved reliability, durability and resale value. To maintain the proper performance of your vehicle and its emission control systems, it is imperative that scheduled maintenance be completed at the designated intervals.

Your vehicle is equipped with the Intelligent Oil Life Monitor® (IOLM) system which displays a message in the message center at the proper oil change service interval; this interval may be up to one year or 10000 miles (16000 kilometers). When ENGINE OIL CHANGE DUE or OIL CHANGE REQUIRED appears in the message center display, it's time for an oil change; the oil change must be done within two weeks or 500 miles (800 kilometers) of the ENGINE OIL CHANGE DUE or OIL CHANGE REQUIRED message appearing. The Intelligent Oil Life Monitor® must be reset after each oil change; refer to the *Instrument Cluster* chapter.

If your message center is prematurely reset or becomes inoperative, you should perform the oil change interval at six months or 5000 miles (8000 kilometers) from your last oil change. Never exceed one year or 10000 miles (16000 kilometers) 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's why it's important to rely upon your dealership to properly 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.



Ford strongly recommends the using only genuine Ford, Motorcraft® or Ford-authorized remanufactured replacement for parts because they are engineered for your vehicle.

**Additives and Chemicals**

Ford Motor Company recommended additives and chemicals are listed in this book and in the *Workshop Manual*. Additional chemicals or additives not approved by Ford Motor Company and are not recommended as part of normal maintenance. Please consult your *Warranty Manual* for complete 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, discolored fluids that also show signs of overheating and/or foreign material contamination should be inspected immediately by a qualified expert such as the factory-trained technicians at your dealership. Your vehicle’s oils and fluids should be changed 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**

Certain basic maintenance checks and inspections should be performed every month or at six months intervals.

<b>Check Every Month</b>
Engine oil level.
Function of all interior and exterior lights.
Tires (including spare) for wear and proper pressure.
Windshield washer fluid level.
<b>Check Every Six Months</b>
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.

<b>Check Every Six Months</b>
Parking brake for proper operation.
Safety belts and seat latches for wear and function.
Safety warning lamps (brake, ABS, airbag, 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. Ford Motor Company recommends the following multi-point inspection be performed at every scheduled maintenance interval to help make sure your vehicle keeps running great.

<b>Multi-point Inspection</b>	
Accessory drive belt(s)	Hazard warning system operation
Battery performance	Horn operation
Engine air filter	Radiator, cooler, heater and A/C hoses
Exhaust system	Suspension components for leaks or damage
Exterior lamps operation	Steering and linkage
Fluid levels <sup>*</sup> ; fill if necessary	Tires (including spare) for wear and proper pressure
For oil and fluid leaks	Windshield for cracks, chips or pits
Half-shaft dust boots	Washer spray and wiper operation

<sup>\*</sup>Brake, coolant recovery reservoir, automatic transmission and window washer.

Be sure to ask your dealership service advisor or technician about the multi-point vehicle inspection. It's a comprehensive way to perform a thorough inspection of your vehicle. It's your checklist that gives you immediate feedback on the overall condition of your vehicle. You'll know what's been checked, what's okay, as well as those things that may require future or immediate attention. The multi-point vehicle inspection is one more way to keep your vehicle running great!

GENUINE  
PARTS & SERVICE

Personal Member of:  
 Personal Service Business

Multi-Point Inspection Report Card as Recommended by Ford Motor Company

Name: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Today's Date: \_\_\_\_\_

State Inspection Month: \_\_\_\_\_

**SCHEDULED MAINTENANCE / INSPECTION CHECKS FOR SERVICE ON THIS MODEL**

<input type="checkbox"/> Engine Air Filter	<input type="checkbox"/> Oil Filter
<input type="checkbox"/> Engine Air Filter	<input type="checkbox"/> Spark Plugs
<input type="checkbox"/> Engine Coolant	<input type="checkbox"/> Tire Rotation
<input type="checkbox"/> Fuel Filter	<input type="checkbox"/> Transmission Fluid
<input type="checkbox"/> Oil Change	

\*This is only a partial list of vehicle maintenance items and is NOT all-inclusive. Please consult your Owner's Manual or visit [www.ford.com/ownermanual](http://www.ford.com/ownermanual) for vehicle specific maintenance requirements.

**SYNC VEHICLE HEALTH REPORT**

VMS Activation:  Yes  No

Checked and OK:  Yes  No

Contributes to vehicle with a recall:  Yes  No

**CHECK FOLLOWING SYSTEMS**

**WASHER SYSTEM**

Washer fluid level:  OK  Low

Washer nozzles:  OK  Dirty

**EXHAUST SYSTEM**

Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

**EXHAUST SYSTEM**

Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

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Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

**EXHAUST SYSTEM**

Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

**CHECK FLUID LEVELS AND FILL**

Oil and/or fluid leaks:  No  Yes

Oil level:  OK  Low

Engine oil:  OK  Low

Power Steering:  OK  Low

Windshield Washer:  OK  Low

Brake Fluid:  OK  Low

Transmission:  OK  Low

**BATTERY**

State of Health: \_\_\_\_\_

Condition of Cell: \_\_\_\_\_

Factory spec cold cranking amps: \_\_\_\_\_

Anticorrosion coating:  OK  Needs Attention

**EXTERIOR BODY**

Body damage or defects:  No  Yes

Wash/wax:  OK  Needs Attention

Wash/wax:  OK  Needs Attention

Wash/wax:  OK  Needs Attention

**WASHER SYSTEM**

Washer fluid level:  OK  Low

Washer nozzles:  OK  Dirty

**EXHAUST SYSTEM**

Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

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Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

**EXHAUST SYSTEM**

Exhaust system (leaks, damage, loose parts):  OK  Needs Attention

Comments: \_\_\_\_\_

Service Advisor: \_\_\_\_\_ Customer Signature: \_\_\_\_\_

Technician: \_\_\_\_\_

12-XXXXXXXX

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 Owners Guide gf, 2nd Printing  
 USA (fus)



**NORMAL SCHEDULED MAINTENANCE AND LOG****Intelligent Oil Life Monitor®**

Your vehicle is equipped with an Intelligent Oil Life Monitor® that determines when the engine oil should be changed 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 reduce environmental waste at the same time. This means you won't have to remember to change the oil on a mileage-based schedule; the vehicle lets you know when an oil change is due by displaying ENGINE OIL CHANGE DUE or OIL CHANGE REQUIRED in the message center. The following table is intended to provide examples of vehicle use and its impact on engine oil change intervals; it is provided as a guideline only. Actual engine oil change intervals will depend on several factors and will generally decrease with severity of use.

<b>When to expect the OIL CHANGE REQUIRED message</b>	
<b>Miles (km)</b>	<b>Vehicle use and examples</b>
7500-10000 (12000-16000)	<b>Normal</b>
	<ul style="list-style-type: none"> <li>- Normal commuting with highway driving</li> <li>- No, or moderate, load/towing</li> <li>- Flat to moderately hilly roads</li> <li>- No extended idling</li> </ul>
5000-7499 (8000-11999)	<b>Severe</b>
	<ul style="list-style-type: none"> <li>- Moderate to heavy load/towing</li> <li>- Mountainous or off-road conditions</li> <li>- Extended idling</li> <li>- Extended hot or cold operation</li> </ul>
3000-4999 (4000-7999)	<b>Extreme</b>
	<ul style="list-style-type: none"> <li>- Maximum load/towing</li> <li>- Extreme hot or cold operation</li> </ul>

Normal Scheduled Maintenance*	
At every oil change interval as indicated by the message center	Change engine oil and filter.**
	Rotate tires, inspect tire wear and measure tread depth.
	Perform multi-point inspection (recommended).
	Inspect automatic transmission fluid level. Consult dealer for requirements.
	Inspect brake pads, shoes, rotors, drums, brake linings, hoses and parking brake.
	Inspect cabin air filter.
	Inspect engine cooling system strength and hoses.
	Inspect exhaust system and heat shields.
	Inspect rear axle and U-joints. Lubricate if equipped with grease fittings (AWD vehicles).
	Inspect half-shaft boots.
	Inspect steering linkage, ball joints, suspension, tie-rod ends, driveshaft and U-joints. Lubricate if equipped with grease fittings.
	Inspect wheels and related components for abnormal noise, wear, looseness or drag.

\*Do not exceed one year or 10000 miles (16000 kilometers) between service intervals.

\*\*Reset your Intelligent Oil Life Monitor® after each engine oil and filter change; refer to the *Instrument Cluster* chapter.

Additional Maintenance Items <sup>1</sup>	
Every 20000 miles (32000 km)	Replace cabin air filter.
Every 30000 miles (48000 km)	Replace engine air filter.
At 100000 miles (160000 km)	Change engine coolant. <sup>2</sup>
Every 100000 miles (160000 km)	Replace spark plugs.
	Inspect accessory drive belt(s). <sup>3</sup>
Every 150000 miles (240000 km)	Change automatic transmission fluid
	Replace accessory drive belt(s) if not replaced within the last 100000 miles (160000 km).

<sup>1</sup>Additional maintenance items can be performed within 3000 miles (4800 kilometers) of the last oil change. Do not exceed the designated distance for the interval.

<sup>2</sup>Initial replacement at six years or 100000 miles (160000 kilometers), then every three years or 50000 miles (80000 kilometers).

<sup>3</sup>Perform a follow-up inspection at 120000 miles (192000 kilometers).

## Scheduled Maintenance

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### Maintenance Schedule Log

<p style="text-align: center;">DEALER VALIDATION:</p>  <p style="text-align: center;">P&amp;A CODE:</p> <p>RO#:            HOURS:</p> <p>DATE:          MILEAGE:</p>	<p style="text-align: center;">DEALER VALIDATION:</p>  <p style="text-align: center;">P&amp;A CODE:</p> <p>RO#:            HOURS:</p> <p>DATE:          MILEAGE:</p>
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**Scheduled Maintenance**

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## Scheduled Maintenance

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**SPECIAL OPERATING CONDITIONS**

If you operate your vehicle **primarily** in any of the following conditions, you need to perform additional maintenance as indicated. If you **occasionally** operate your vehicle under any of these conditions, it is not necessary to perform the additional 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 message center.

**Example #1:** The OIL CHANGE REQUIRED message comes on at 28751 miles (46270 kilometers); perform the 30000 mile (48000 kilometers) automatic transmission fluid replacement.

**Example #2:** The OIL CHANGE REQUIRED message has **not** come on but the odometer reads 30000 miles (48000 kilometers); perform the engine air filter replacement. (i.e., Intelligent Oil Life Monitor® was reset at 25000 miles [40000 kilometers].)

<b>Towing a Trailer or Using a Camper or Car-top Carrier</b>	
As required	Change engine oil and filter as indicated by message center 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 <i>Exceptions</i> .
Every 30000 miles (48000 km)	Change automatic transmission fluid.
<b>Extensive Idling or Low-speed Driving for Long Distances as in Heavy Commercial Use (i.e. Delivery, Taxi, Patrol Car or Livery)</b>	
As required	Change engine oil and filter as indicated by message center and perform services listed in the Normal Scheduled Maintenance chart.
Inspect frequently, service as required	Replace cabin air filter.
	Replace engine air filter.
Every 30000 miles (48000 km)	Change automatic transmission fluid.
Every 60000 miles (96000 km)	Replace spark plugs.

Operating in Dusty or Sandy Conditions Such as Unpaved or Dusty Roads	
Inspect frequently, service as required	Replace cabin air filter.
	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. *
	Perform multi-point inspection.
Every 30000 miles (48000 km)	Change automatic transmission fluid.

\* Reset your Intelligent Oil Life Monitor® after each engine oil and filter change; refer to the *Instrument Cluster* chapter.

Special Operating Condition Log

<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>	<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>
<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>	<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>
<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>	<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>
<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>	<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>
<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>	<p>DEALER VALIDATION:</p> <p>RO#: P&amp;A CODE:            HOURS:            DATE: MILEAGE:</p>

## Scheduled Maintenance

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<p style="text-align: center;">DEALER VALIDATION:</p>  <p style="text-align: center;">P&amp;A CODE:</p> <p>RO#:                    HOURS:</p> <p>DATE:                  MILEAGE:</p>	<p style="text-align: center;">DEALER VALIDATION:</p>  <p style="text-align: center;">P&amp;A CODE:</p> <p>RO#:                    HOURS:</p> <p>DATE:                  MILEAGE:</p>
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**EXCEPTIONS**

There are several exceptions to the Normal Schedule. They are listed below:

**Normal vehicle axle maintenance:** Rear axles and power take-off (PTO) units with synthetic fluid and light-duty trucks equipped with Ford-design axles are lubricated for life; do not check or change fluid unless a leak is suspected, service is required or the assembly has been submerged in water. During long periods of trailer towing with outside temperatures above 70°F (21°C) and at wide-open throttle for long periods above 45 mph (72 km/h), non-synthetic rear axle fluids should be changed every 3000 miles (4800 kilometers) or three months, whichever comes first. This interval can be waived if the axle is filled with 75W140 synthetic gear fluid meeting Ford specification WSL-M2C192-A, part number F1TZ-19580-B or equivalent. Add friction modifier XL-3 (EST-M2C118-A) or equivalent for complete refill of Traction-Lok rear axles (refer to *Technical specifications* in the *Capacities and Specifications* chapter for details).

**Police/Taxi/Livery vehicle axle maintenance:** Change rear axle fluid every 100000 miles (160000 kilometers). Rear axle fluid change may be waived if the axle was filled with 75W140 synthetic gear fluid meeting Ford specification WSL-M2C192-A, part number FITZ-19580-B or equivalent. Add four ounces (118 mL) of additive friction modifier XL-3 (EST-M2C118-A) or equivalent for complete refill of Traction-Lok rear axles. The axle fluid should be changed anytime the axle has been submerged in water.

**California fuel filter replacement:** If the vehicle is registered in California, the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the 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 5000 miles (8000 kilometers). If the available API "SM" or "SN" oils are not available, then the oil change service interval is 3000 miles (4800 kilometers).

**Engine air filter & cabin air filter replacement:** Engine air filter and cabin air filter life is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions will require frequent inspection and replacement of the engine air filter and cabin air filter.

**ENGINE COOLANT CHANGE RECORD**

Initial change	Six years or 100000 miles (160000 km) (whichever comes first)
After initial change	Every three years or 50000 miles (80000 km)

**Engine Coolant Change Log**

DEALER VALIDATION:  P&A CODE: RO#: HOURS: DATE: MILEAGE:	DEALER VALIDATION:  P&A CODE: RO#: HOURS: DATE: MILEAGE:
DEALER VALIDATION:  P&A CODE: RO#: HOURS: DATE: MILEAGE:	DEALER VALIDATION:  P&A CODE: RO#: HOURS: DATE: MILEAGE:
DEALER VALIDATION:  P&A CODE: RO#: HOURS: DATE: MILEAGE:	DEALER VALIDATION:  P&A CODE: RO#: HOURS: DATE: MILEAGE:

**INTRODUCTION**

**WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device or feature that may take their focus off the road. Your primary responsibility is the safe operation of the vehicle. We recommend against the use of any handheld device while driving, encourage the use of voice-operated systems when possible and that you become aware of applicable state and local laws that may affect use of electronic devices while driving.

**Note:** Some features are not available while the vehicle is moving.

This system uses a four-corner strategy to provide quick access to vehicle features and settings. The comprehensive touchscreen provides easy interaction with your cellular phone, multimedia, climate control and navigation system. The corners display any active modes within those menus, such as your phone being connected or the climate temperature.

**MENU**

Press to select any of the following:

- Clock
- Display
- Sound
- Vehicle
- Settings
- Help

**INFORMATION**

Press to select any of the following:

- SYNC® Services
- SIRIUS® Travel Link™
- Alerts
- Calendar
- SYNC Apps

If the icon is yellow, refer to *Alerts* in the *Information* section of this chapter.



**PHONE**

Press to select any of the following:

- Making and Receiving Calls
- Quick Dial
- Phonebook
- Call History
- Text Messaging
- Settings

**NAVIGATION**

Press to select any of the following:

- My Home
- Favorites
- Previous Destinations
- Point of Interest
- Emergency
- Street Address
- Intersection
- City Center
- Map
- Previous Starting Point
- Latitude/Longitude
- Freeway Entrance/Exit

**ENTERTAINMENT**

Press to select any of the following:

- AM
- FM
- SIRIUS
- CD
- USB
- BT Stereo
- SD Card
- A/V In

**CLIMATE**

Press to select any of the following:

- Driver Settings
- Recirculated Air
- Auto
- Dual
- Passenger Settings
- A/C
- Defrost

**HOME**

Press to access your home screen. Depending on your vehicle's option package and software, your screens may vary in appearance from the screens shown in this section. Your features may also be limited depending on your market. Check with your authorized dealer for availability.

**Using the Touch-sensitive Controls on Your System**

Your vehicle's centerstack has touch-sensitive switches for your infotainment and climate control systems. To turn a feature on and off, just touch the graphic with your finger. To get the best performance from the touch-sensitive controls, keep in mind:

- Do not press hard on the controls. They are sensitive to light touch.
- Use your bare finger to touch the center of a touch-control graphic. Touching off-center of the graphic may cause a nearby control to turn on or off.
- Make sure your hands are clean and dry.
- Since the touchscreen operates based on the touch of a finger, you may have trouble using it if you are wearing gloves.
- Metal and other conductive material should be kept away from the surface of the touchscreen as this may cause electronic interference (i.e. control activation).

Depending on your vehicle and option package, you may also have these controls on your bezel:

- Power: Turn the media (or climate features) on or off.
- VOL and fan slider bars: Slide your finger over the rear slider area to increase or decrease the volume or fan levels.
- Seek and Tune buttons: Use as you normally would in media modes.
- Eject: Eject a CD.
- SOURCE: Touch the word repeatedly to see all available media modes. The screen does not change, but you see the media changes in the lower left status bar.
- SOUND: Touch the word to access the Sound menu where you can make adjustments to settings such as: Bass, Midrange, Treble, Balance and Fade, THX Deep Note Demo (if equipped), DSP (if equipped), Occupancy Mode (if equipped), and Speed Compensated Volume settings.
- Hazard flasher: Press the button to turn the hazard flashers on or off.

**Cleaning the Touchscreen Display**

Clean the display with a clean, soft cloth such as one used for cleaning glasses. If dirt or finger prints are still visible, apply a small amount of alcohol to the cloth. Do not pour or spray alcohol onto the display. Do not use detergent or any type of solvent to clean the display.

**Support**

The SYNC support team is available to help you with any questions you aren't able to answer on your own.

Monday-Saturday, 8:30 am-8pm EST

In the United States, call: 1-888-270-1055

In Canada, call: 1-800-565-3673

Times are subject to change due to holidays.

**Safety Information**

**WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device that may take their focus off the road. Your primary responsibility is the safe operation of the vehicle. We recommend against the use of any handheld device while driving, encourage the use of voice-operated systems when possible and that you become aware of applicable state and local laws that may affect 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. Carefully place cords and cables where they cannot be stepped on or interfere with the operation of pedals, seats, compartments or safe driving abilities.
- Leave playing devices in the vehicle during extreme conditions as it could cause them damage. Refer to your device's user guide for further information.
- Attempt to service or repair the system. See your authorized dealer.

**Speed-Restricted Features**

Some features of this system may be too difficult to use while the vehicle is in motion so they're restricted from being modified unless the vehicle is not moving. Some examples of these are listed below:

- Screens that are too crowded with information, such as Point of Interest (POI) reviews and ratings, SIRIUS® Travel Link™ sports scores, movie times, ski conditions, etc.
- Any action that requires using a keyboard, such as entering a navigation destination or editing information
- All lists are limited so the user can view fewer entries (e.g. phone contacts, recent phone call entries)

Listed below are more specific features that can only be modified while the vehicle is not moving:

<b>Restricted features</b>	
Cellular Phone	Pairing a Bluetooth phone
	Adding phonebook contacts or uploading phonebook contacts (from a USB)
	Lists entries are limited for phone contacts and recent phone call entries
System Functionality	Editing the keypad code
	Enabling Valet Mode
	Editing settings while the rear view camera or Active Park Assist are active
Wi-Fi/Wireless	Editing wireless settings
	Editing the list of wireless networks
Videos/Photos/Graphics	Playing video
	Editing photos
	Editing the screen's wallpaper or adding new wallpaper

Restricted features	
Text Messages	Composing text messages
	Viewing received text messages
	Editing preset text messages
Navigation	Using the keyboard to enter a destination
	Demo navigation route
	Adding/Editing Address Book entries or Avoid Areas

### 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 (read and unread), and call history, including history of calls when your cell 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 it and are generally accessible only in the vehicle when the cellular phone or media player is connected. If you no longer plan to use the system or the vehicle, we recommend you perform a Master Reset to erase all stored information.

System data cannot be accessed 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 sections on 911 Assist™ (if equipped), Vehicle Health Report (if equipped), and Traffic, Directions and Information (if equipped).

**ACCESSING AND ADJUSTING MODES THROUGH YOUR  
INFOTAINMENT DISPLAY**

The infotainment display is located on the right side of your instrument cluster. It allows you to view and make minor adjustments to active modes without taking your hands off the wheel. For example:

- In entertainment mode, you can view what is now playing, change the audio source, select presets and make some adjustments.
- In phone mode, you can accept or reject an incoming call.
- In navigation mode (if equipped), you can view the current route or activate a route.
- In climate mode, the driver side temperature can be set as well as fan speed.



Use the OK and arrow buttons on the right side of your steering wheel to scroll through the available modes:



You can make selections from the menu by using the OK button. The selection menu expands and you are allowed different options.

- Press the up and down arrows to scroll through the modes.
- Press the right arrow to enter the mode.
- Press the left or right arrows to make adjustments within the chosen mode.
- Press OK to confirm your selection.

**Note:** If your vehicle is not equipped with navigation, Compass appears in the display instead of Navigation. If you press the right arrow to go into the Compass menu, you can see the compass graphic. The compass displays the direction in which the vehicle is traveling, not “true” direction (i.e. if the vehicle is traveling west, the middle of the compass graphic displays west; north displays to the left of west though its “true” direction is to the right of west.)

### 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 in front of you. The system provides feedback through audible tones, prompts, questions and spoken confirmations depending on the situation and the chosen level of interaction (voice settings).

The system also asks short questions (confirmation prompts) when it is not sure of your request or when there are multiple possible responses to your request.

When using voice commands, words and icons may also appear in the lower left status bar indicating the status of the voice session (i.e., listening, success, failed, paused or try again).

**How to Use Voice Commands with Your System**

Press the voice icon; after the tone, speak your command clearly.

<b>These commands can be said at any time</b>
“Cancel”
“Exit”
“Go back”
“List of commands”
“Main menu”
“Next page”
“Previous page”
“What can I say?”
“Help”

**What Can I Say**

To access the available voice commands for the current session, do one of the following:

- During a voice session, press the lower left status bar of the screen, OR
- Say “What can I say?” for an on-screen listing of the possible voice commands associated with your current voice session, OR
- Press the voice icon; after the tone, say “Help” for an audible list of possible voice commands.

**To Access a List of Available Commands**

- Press the Menu icon > Help > Voice Command List, OR
- Press the voice icon; after the tone, speak your command clearly:

<b>Voice command list</b>
“Audio list of commands”
“Bluetooth audio list of commands”
“Browse list of commands”
“CD list of commands”
“Climate control list of commands”
“List of commands”



Voice command list
“Navigation list of commands” *
“Phone list of commands”
“Radio list of commands”
“SD card list of commands”
“Sirius satellite list of commands” *
“Travel link list of commands” *
“USB list of commands”
“Voice instructions list of commands”
“Voice settings list of commands”
“Help”

\* If equipped.

### Helpful Hints

- Make sure the interior of the vehicle is as quiet as possible. Wind noise from open windows and road vibrations may prevent the system from correctly recognizing spoken commands.
- After pressing the voice icon, wait until after the tone sounds and “Listening” appears before saying a command. Any command spoken prior to this does not register with the system.
- Speak naturally, without long pauses between words.
- At any time you can interrupt the system while it is speaking by pressing the voice icon.

### Voice Settings

Voice settings allow you to customize the level of system interaction, help and feedback. The system defaults to standard interaction which uses candidate lists and confirmation prompts as these provide the highest level of guidance and feedback.

**Interaction Mode:** Novice mode provides more detailed interaction and guidance while the advanced mode has less audible interaction and more tone prompts.

**Confirmation Prompts:** Confirmation prompts are short questions the system asks when it is not sure of your request or when there are multiple possible responses to your request. If turned off, the system simply makes a best guess as to what you requested and you may still occasionally be asked to confirm settings.

**Phone/Media Candidate Lists:** Candidate lists are a list of possible results from your voice commands. The system creates these lists when it has the same confidence level of several options based on your voice command.

To access these settings using the touchscreen:

1. Press the Menu icon > Settings > Voice Control.
2. Select from:
  - Interaction Mode
  - Confirmation Prompts
  - Media Candidate Lists
  - Phone Candidate Lists
  - Voice Control Volume

To access these settings using voice commands:



Press the voice icon; after the tone sounds, the system says “Please say a command”. Another tone sounds to let you know the system is listening.

### Using Voice Commands with the Touchscreen Options

Your voice system has a dual mode feature which allows you to switch between using voice commands and making on-screen selections. This is most often available when using navigation.

On-screen buttons are outlined in blue to indicate the selections that are part of the dual mode feature. For example, if while you are in a voice session rather than saying the command “Enter Street Name” to change the field, you can press “Street” and the voice session does not end. Instead, the voice system changes to the Street field and asks you to say the street name. The buttons not outlined in blue cannot be used as voice commands; if they are touched during a voice session, the voice session is canceled. For example:

From the Navigation home screen, you can choose from the following:

- My Home
- Favorites
- Previous Destinations
- Point of Interest (POI)
- Emergency
- Street Address
- Intersection
- Cancel Route

Some of the voice commands that are available while viewing this screen are:

<b>“DESTINATION”</b>
“Destination my home”
“Destination street address”
“Destination favorites”
“Destination previous destinations”
“Destination POI”
“Destination intersection”
“Destination emergency”

If you choose Street Address from the navigation screen, you can choose from the following:

- Number
- City
- Street Name
- State/Prov

Some of the voice commands that are available while viewing this screen are:

<b>“STREET ADDRESS”</b>
“Enter house number”
“Change house number”
“Enter street name”
“Change street name”
“Enter city”
“Change city”
“Enter state”
“Change state”

If you choose Points of Interest from the navigation screen, you can choose from the following:

- Search Area
- Search By Name
- Fuel Station
- ATM
- All Restaurants
- Accommodations
- Parking

Some of the voice commands that are available while viewing this screen are:

<b>“POINTS OF INTEREST” or “POI”</b>
“Destination <POI category name>”
“Search by name”
“Search by category”
“Change search area”

**Note:** These are just a sample of the voice commands available within the Points of Interest section; the categories themselves are also technically voice commands.

If you choose Intersection from the navigation screen, you can choose from the following:

- 1st Street
- 2nd Street
- City
- State/Prov

Some of the voice commands that are available while viewing this screen are:

<b>“INTERSECTION”</b>
“Enter first street name”
“Change first street name”
“Enter second street name”
“Change second street name”
“Enter city”
“Change city”
“Enter state”
“Change state”

The dual mode feature is also available when the voice system displays a list of items to pick from during a voice session, where you would be able to touch the line item or say “Line 2”. If a command is not understood or there are multiple options, the system returns a list for you to choose from.

**ENTERTAINMENT**

Your system offers many media options. You can access these options using the touchscreen or voice commands.

**Browsing Device Content**

When listening to any type of audio, you can browse through other devices without having to change sources. For example, if you are currently listening to the radio, you can browse all the artists that are stored on your USB device.



Press the voice icon on the steering wheel. When prompted, you can say:

<b>“BROWSE” within devices</b>
“Browse”*
“Browse <league> games”**
“Browse <Sirius category> channels”**
“Browse CD track list”
“Browse Sirius channel guide”**
“Browse SD card”
“Browse USB”
“Help”

\*If you have said “Browse”, you can then say any commands in the following chart.

\*\*If equipped with SIRIUS® satellite radio.

<b>“BROWSE”</b>
“<League> games”*
“<Sirius category> channels”*
“CD track list”
“SD card”
“Sirius channel guide”*
“USB”
“Help”

\*If equipped with SIRIUS® satellite radio.

For a complete list of “Browse” voice commands, refer to *USB and SD card voice commands* and *Bluetooth audio voice commands* in the following sections.

**AM/FM Radio**

Press the lower left corner of the touchscreen and then select the AM or FM tabs.

To change between AM and FM presets, just touch the AM or FM tabs.

When you select:	You can:
<b>Presets</b>	Save a station by pressing and holding one of the memory preset areas. There is a brief mute while the station is being saved, then sound returns when it's done.
<b>HD Radio</b>	Turn the feature on. This enables you to receive radio broadcasts digitally (where available), providing free, crystal clear sound. Refer to <i>HD Radio information</i> later in this chapter.
<b>Scan</b>	Go to the next strong AM or FM radio station.

When you select:	You can:
<b>Options</b>	<b>Sound Settings</b> allows you to adjust Bass, Midrange, Treble, Balance and Fade, THX Deep Note Demo (if equipped), DSP (if equipped), Occupancy Mode (if equipped), and Speed Compensated Volume settings.
	<b>Set PTY for Seek/Scan</b> allows you to select a category of music you would like to search for and then choose to either seek or scan for the stations.
	<b>RDS Text Display</b> allows you to always view the information broadcast by FM stations by selecting On.
	<b>Auto Presets (AST)</b> allows you to have the system automatically store the six strongest stations in your current location.
	<b>TAG Button</b> (if available) allows you to tag a song to download later. When you select On, TAG appears on-screen when HD radio is active. You can press TAG to save the information of the song that is playing. When you plug in your portable music player, the information is transferred (if supported by your device). When you are connected to iTunes®, the tags appear to remind you of the songs you'd like to download. Refer to <i>HD Radio information</i> later in this chapter.
<b>Direct Tune</b>	Enter the desired station number when prompted. Press Enter.

**HD Radio™ Information (If Available)**

**Note:** HD Radio broadcasts are not available in all markets.

HD Radio technology is the digital evolution of analog AM/FM radio. Your system has a special receiver which allows it to receive digital broadcasts (where available) in addition to the analog broadcasts it already receives. Digital broadcasts provide a better sound quality than analog broadcasts with free, crystal clear audio and no static or distortion. For more information, and a guide to available stations and programming, please visit [www.hdradio.com](http://www.hdradio.com).

When this feature is enabled and you are tuned to a station broadcasting HD Radio technology, you may notice the following indicators on your screen:



**HD) logo** blinks when a digital station is being acquired and is solid when digital audio is playing. When this logo is available, you may also see Title and Artist fields on-screen.

**Multicast indicator** appears in FM mode (only) if the current station is broadcasting multiple digital broadcasts. The numbers that are highlighted signify available digital channels where new or different content is available. HD1 signifies the main programming status and is available in analog and digital broadcasts. Any additional multicast stations (HD2 through HD7) are only broadcast digitally.

**TAG** allows you to save a song to download later. When you are on an acquired HD Radio station, the TAG button is available (provided the feature has been turned on). To use the tag feature:

1. Press AM or FM > Options > TAG Button > On.
2. When you hear a song you like, touch TAG.
3. The system automatically saves the song's information and, if supported, transfers it to your portable music player when it is connected to the system. If your music player is connected at the time, the system automatically transfers the tag to your player and a pop-up confirms the transfer.
4. When you access iTunes® with your portable music player, the tags appear to you to be reminded of the song. The system allows you to tag up to approximately 100 songs. For a list of devices that support tagging, refer to [www.SYNCMYride.com](http://www.SYNCMYride.com) or [www.syncmaroute.ca](http://www.syncmaroute.ca).



When HD Radio broadcasts are active, you can access the following functions:

<b>When you select:</b>	<b>You can:</b>
<b>Scan</b>	Hear a brief sampling of all available stations. This feature still works when HD Radio reception is activated, although it does not scan for HD2 through HD7 channels. You may see the HD logo appear if the station has a digital broadcast.
<b>To save a multicast station as a preset</b>	When the channel is active on-screen, press and hold a memory preset slot until the sound returns. There is a brief mute, then the sound returns signifying it was saved. When recalling a HD2 or HD3 memory preset, there is a mute before the digital audio is played as the system must once again acquire the digital signal. As with any saved radio station, you cannot access the saved station if your vehicle is outside the station's reception area.

**HD Radio Reception and Station Troubleshooting**

<b>Potential reception issues</b>	
<b>Reception area</b>	<p>If you are listening to a multicast station and you are on the fringe of the reception area, the station may mute due to weak signal strength.</p> <p>If you are listening to HD1, the system switches back to the analog broadcast until the digital broadcast is available again.</p> <p>However, if you are listening to any of the possible HD2 through HD7 multicast channels, the station mutes and stay muted unless it is able to connect to the digital signal again.</p>
<b>Station blending</b>	<p>When a station is first received (aside from HD2 through HD7 multicast stations), the system first plays the station in the analog version and then, if receiver verifies the station is an HD Radio station, it shifts to the digital version. Depending on the station quality, you may hear a slight sound change when the station changes from analog to digital. This shift from analog to digital sound or digital back to analog, is known as “blending”.</p>

In order to provide the best possible experience, a contact form has been developed to report any station issues found while listening to a station broadcasting with HD Radio technology. Every station is independently owned and operated. These stations are responsible for ensuring all audio streams and data fields are accurate. See the following chart for potential station issues.

Potential station issues		
Issue	Cause	Action
Echo, stutter, skip or repeat in audio. Increase or decrease in audio volume.	Poor time-alignment by the radio broadcaster.	None. This is a broadcast issue.
Sound fading or blending in and out	The radio is shifting between analog and digital audio.	None. This is a reception issue that may clear up as you continue to drive.
Audio mute delay when selecting HD2 or HD3, multicast preset or direct tune.	The digital multicast is not available until the HD Radio broadcast is decoded. Once decoded, the audio is available.	None. This is normal behavior. Wait until the audio is available.
Cannot access HD2 or HD3 multicast channel when recalling a preset or from a direct tune	The previously stored multicast preset or direct tune is not available in your current reception area.	None. The station is not available in your current location.
Text information does not match currently playing audio	Data service issue by the radio broadcaster.	Fill out the station issue form at website listed below. *
No text information shown for currently selected frequency	Data service issue by the radio broadcaster.	Fill out the station issue form at website listed below. *
HD2 through HD7 stations not found when Scan is pressed.	Pressing Scan disables HD2 through HD7 channel search.	None. This is normal behavior.

\* [http://www.ibiquity.com/automotive/report\\_radio\\_station\\_experiences](http://www.ibiquity.com/automotive/report_radio_station_experiences)

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**Radio Voice Commands**

If you are listening to the radio, press the voice button on the steering wheel controls. When prompted, say any of the commands in the following chart.

If you are not listening to the radio, press the voice button and, after the tone, say “Radio”, then any of the commands in the following chart.

“RADIO”	
“<87.9–107.9>”	“FM autotset preset <#>”
“<87.9–107.9> HD” <sup>1</sup>	“FM preset <#>”
“<530–1710>”	“FM1”
“AM”	“FM 1 preset <#>”
“AM <530–1710>”	“FM2”
“AM autotset”	“FM 2 preset <#>”
“AM autotset preset <#>”	“HD <#>” <sup>1</sup>
“AM preset <#>”	“Preset <#>”
“Browse” <sup>2</sup>	“Radio off”
“FM”	“Radio on”
“FM <87.9–107.9>”	“Set PTY”
“FM <87.9–107.9> HD <#>” <sup>1</sup>	“Tune” <sup>3</sup>
“FM autotset”	“Help”

<sup>1</sup>If available.

<sup>2</sup>If you have said, “Browse”, refer to *Browsing device content* earlier in this section.

<sup>3</sup>If you have said, “Tune”, refer to the following “Tune” chart.

“TUNE”	
“<87.9–107.9>”	“FM autotset”
“<87.9–107.9> HD <#>” <sup>*</sup>	“FM autotset preset <#>”
“<530–1710>”	“FM preset <#>”
“AM”	“FM1”
“AM <530–1710>”	“FM 1 preset <#>”
“AM autotset”	“FM2”
“AM autotset preset <#>”	“FM 2 preset <#>”

“TUNE”	
“AM preset <#>”	“HD <#>”*
“FM”	“Preset <#>”
“FM <87.9-107.9>”	“Help”
“FM <87.9-107.9> HD <#>”*	

\*If available.

**SIRIUS® Satellite Radio (If Activated)**



Press the lower left corner of the touchscreen, then select the SIRIUS tab.

When you select:	You can:
<b>Presets</b>	Save a station by pressing and holding one of the memory preset areas. There is a brief mute while the station is being saved, then sound returns when it’s done.
<b>ALERT</b>	Save the current song, artist, or team as a favorite. The system alerts you when it plays again on any SIRIUS channel.
<b>Replay</b>	<p>Replay audio on the current channel. You can replay approximately 45 minutes of audio as long as you have remained tuned to the current station. If you change stations, the previous audio is erased.</p> <p>While in replay mode:</p> <ol style="list-style-type: none"> <li>1. Press and release the seek buttons to hear the previous or next song.</li> <li>2. Press and hold the seek buttons to advance to reverse or fast forward in the current track.</li> <li>3. Press play or pause to play or pause the audio.</li> <li>4. Press Replay again to return to live audio if you had been using the replay feature to replay audio.</li> </ol>
<b>Scan</b>	Hear a brief sampling of channels.

When you select:	You can:
<b>Options</b>	<b>Sound Settings</b> allows you to adjust Bass, Midrange, Treble, Balance and Fade, THX Deep note demo (if equipped), DSP (if equipped), Occupancy mode (if equipped), and Speed compensated volume settings.
	<b>Set Category for Seek/Scan</b> allows you to select the desired category (Rock, Country, etc.) and then use Seek or Scan to initiate a search for those channels.
	<b>Parental Lockout</b> allows you to lock and unlock channels, change or reset your PIN or unlock all channels. To use this feature you need your initial PIN which is 1234.
	<b>Artist/Title/Team Alerts</b> allows you to select Artists, Titles and Teams that you would like the system to alert you to when they are playing on other channels. Press Edit Alerts to delete or turn off alerts. You can also set all alerts to on or off. When an alert appears on the screen, you can choose to Tune to the channel, to Cancel the alert or to Disable Alerts. If you are listening to a sporting event, you can save your favorite teams so that the system can alert you when they are playing on a satellite radio channel. <b>Note:</b> SIRIUS does not support the Alert feature on all channels. Ford Motor Company shall not be responsible for Alert feature variation.
	<b>Electronic Serial Number (ESN)</b> is required when communicating with SIRIUS about your account.

When you select:	You can:
<b>Direct Tune</b>	Enter the desired satellite channel number using the on-screen keypad.
<b>Browse</b>	View a list of all available stations. Scroll and select the desired station. You can also lock or skip unwanted channels or view the song/artist on other stations.

**Satellite Radio Voice Commands**



If you are listening to SIRIUS satellite radio, press the voice button on the steering wheel controls. When prompted, say any of the commands in the following chart.

If you are not listening to SIRIUS satellite radio, press the voice button and, after the tone, say “Sirius”, then any of the commands in the following chart.

“SIRIUS”	
“<0-233>”	“SAT 3”
“<Channel name>”	“SAT 3 preset <#>”
“Preset <#>”	“SAT preset <#>”
“SAT”	“Sirius off”
“SAT 1”	“Sirius on”
“SAT 1 preset <#>”	“Sports game”*
“SAT 2”	“Tune”**
“SAT 2 preset <#>”	“Help”

\*If you have said, “Sports game”, refer to the following “Sports game” chart.

\*\*If you have said, “Tune”, refer to the following “Tune” chart.

“SPORTS GAME”
“Tune to the <college name> game”
“Tune to the <team city> game”
“Tune to the <team city> <team name> game”
“Tune to the <team name> game”
“Help”

<b>“TUNE”</b>
“<0-233>”
“<Channel name>”
“Preset <#>”
“SAT”
“SAT 1”
“SAT 1 preset <#>”
“SAT 2”
“SAT 2 preset <#>”
“SAT 3”
“SAT 3 preset <#>”
“Help”

#### **SIRIUS Satellite Radio Information**

**Note:** SIRIUS 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. Ford Motor Company shall not be responsible for any such programming changes.



SIRIUS satellite radio is a subscription-based satellite radio service that broadcasts a variety of music, sports, news, weather, traffic and entertainment programming.

Your factory-installed SIRIUS satellite radio system includes hardware and a limited subscription term which begins on the date of sale or lease of the vehicle. Refer to your authorized dealer for availability.

For more information on extended subscription terms (a service fee is required), the online media player and a complete list of SIRIUS satellite radio channels, and other features, please visit [www.siriusxm.com](http://www.siriusxm.com) in the United States, [www.sirius.ca](http://www.sirius.ca) in Canada, or call SIRIUS at 1-888-539-7474.

**Satellite radio electronic serial number (ESN):** You need your ESN to activate, modify or track your satellite radio account. The ESN is found on the System Information Screen (SR ESN:XXXXXXXXXXXX). To access your ESN, press the bottom left corner of the touchscreen, then SIRIUS > Options.



<b>Potential satellite radio reception issues</b>	
<b>Antenna obstructions</b>	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.
<b>Terrain</b>	Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.
<b>Station overload</b>	When you pass a ground-based broadcast repeating tower, a stronger signal may overtake a weaker one and the audio system may mute.
<b>Satellite radio signal interference</b>	Your display may show ACQUIRING . . . to indicate the interference and the audio system may mute.

<b>SIRIUS troubleshooting tips</b>		
<b>Radio Display</b>	<b>Condition</b>	<b>Possible Action</b>
Acquiring	Radio requires more than two seconds to produce audio for the selected channel.	None. This message should disappear shortly.
Sat Fault/SIRIUS system failure	Internal module or system failure present.	If this message does not clear shortly, or with an ignition key cycle, your receiver may have a fault. See your authorized dealer for service.
Invalid Channel	Channel no longer available.	Tune to another channel or choose another preset.

<b>SIRIUS troubleshooting tips</b>		
<b>Radio Display</b>	<b>Condition</b>	<b>Possible Action</b>
Unsubscribed Channel	Subscription not available for this channel.	Contact SIRIUS at 1-888-539-7474 to subscribe to the channel, or tune to another channel.
No Signal	Loss of signal from the SIRIUS satellite or SIRIUS tower to the vehicle antenna.	The signal is currently being blocked. When you move into an open area, the signal should return.
Updating	Update of channel programming in progress.	None. The process may take up to three minutes.
Call SIRIUS 1-888-539-7474	Satellite service has been deactivated by SIRIUS Satellite Radio.	Call SIRIUS at 1-888-539-7474 to reactivate or resolve subscription issues.
No Channels Available	All the channels in the selected category are locked or skipped.	Unlock or unskip the channels using the channel guide.
Subscription Updated	SIRIUS has updated the channels available for your vehicle.	None.

## CD



Press the lower left corner of the touchscreen, then select the CD tab.

When you select:	You can:
<b>Repeat</b>	Choose to repeat the currently playing track, all tracks on the disc or turn the feature off if already on.
<b>Shuffle</b>	Play the tracks or entire albums in random order, or turn the feature off if already on.
<b>Scan</b>	Hear a brief sampling of all available tracks.
<b>More Info</b>	See disc information.
<b>Options</b>	<b>Sound:</b> Adjust Bass, Treble, Midrange, Balance and Fade, THX Deep Note Demo (if equipped), DSP (if equipped), Occupancy Mode (if equipped), and Speed Compensated Volume settings.
	<b>Compression:</b> Turn the compression feature on and off.
<b>Browse</b>	Look through all available audio sources.

You can also advance and reverse the current track or current folder (if applicable).

**CD Voice Commands**

If you are listening to a CD, press the voice button on the steering wheel controls. When prompted, say any of the commands in the following chart.

If you are not listening to a CD, press the voice button and, after the tone, say “CD”, then any of the commands in the following chart.

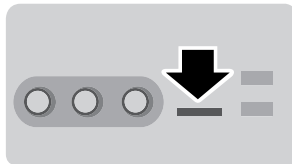
“CD”	
“Pause”	“Repeat off”
“Play”	“Repeat track”
“Play next track”	“Shuffle”
“Play previous track”	“Shuffle CD”*
“Play track <1-512>”	“Shuffle folder”*
“Repeat”	“Shuffle off”
“Repeat folder”*	“Help”

\*WMA or MP3 only

**SD Card Slot and USB Port****SD Card Slot**

**Note:** Your SD card slot is spring-loaded. To remove the SD card, press the card in and the system ejects it. Do not attempt to pull the card to remove it as this could cause damage.

The card slot can be used for your navigation card (if equipped). Refer to *Navigation system* later in this chapter for more information.

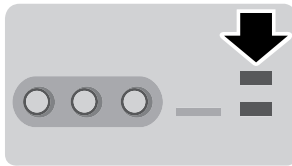


The slot is located either in the center console or behind a small access door in the instrument panel. To access and play music from your SD card slot, press the lower left corner of the touchscreen.

SD logo is a trademark of SD-3C, LLC.



**USB Port**



The ports are located either in the center console or behind a small access door in the instrument panel. To access and play music from your device, press the lower left corner of the touchscreen.

This feature allows you to plug in media playing devices, memory sticks, flash/thumb drives and also charge devices if they support this feature.

In order to playback video from your iPod®/iPhone® (if compatible), you MUST have a special combination USB/RCA composite video cable (available for purchase from Apple®). When the cable is connected to your iPod®/iPhone®, plug the other end into both the RCA jacks and the USB port.

**Playing Music from Your Device**

Insert your device and select the USB or SD Card tab once the system recognizes it. You can then select from the following options:

When you select:	You can:
<b>Repeat</b>	Repeat the currently playing song or album.
<b>Shuffle</b>	Play music on the selected album or folder in random order.
<b>Similar Music</b>	Choose music similar to that which is currently playing.
<b>More Info</b>	Displays information such as current track, artist name. album and genre.

When you select:	You can:
<b>Options</b>	<b>Sound Settings</b> allows you to adjust Bass, Midrange, Treble, Balance and Fade, THX Deep note demo (if equipped), DSP (if equipped), Occupancy mode (if equipped), and speed compensated volume.
	<b>Media Player Settings</b> allows you to select more settings, which can be found under <i>Menu</i> later in this chapter.
	<b>Device Information</b> displays software and firmware information about the currently-connected media device.
	<b>Update Media Index</b> indexes the device each time it is connected to make sure you have the latest voice commands available for all media on the device.
<b>Browse</b>	Browse the contents of the device. It also allows you to search and play by genre, artist, album, etc.

To view song information such as Title, Artist, File, Folder, Album, and Genre, touch the on-screen album art.

You can also press *What's Playing?* to hear how the system pronounces the current band and song. This can be helpful when using voice commands to make sure the system correctly plays your request.

**SD Card and USB Voice Commands**

If you are listening to a USB device or an SD card, press the voice button on the steering wheel controls. When prompted, say any of the commands in the following chart.

If you are not listening to a USB device or an SD card, press the voice button and, after the tone, say “USB” or “SD card”, then any of the commands in the following chart.

“USB” or “SD CARD”	
“Browse”*	“Play podcast episode <name>”
“Next”	“Play similar music”
“Pause”	“Play song <name>”
“Play”	“Play TV show <name>”**
“Play album <name>”	“Play TV show episode <name>”**
“Play all”	“Play video <name>”**
“Play artist <name>”	“Play video podcast episode <name>”**
“Play audiobook <name>”	“Play video playlist <name>”**
“Play author <name>”	“Previous”
“Play composer <name>”	“Repeat all”
“Play folder <name>”	“Repeat off”
“Play genre <name>”	“Repeat one”
“Play movie <name>”**	“Shuffle”
“Play music video <name>”**	“Shuffle off”
“Play playlist <name>”	“What’s this?”
“Play podcast <name>”	“Help”

\*If you have said you would like to browse your USB or SD card, the system prompts you to specify what you would like to browse. When prompted, refer to the following “Browse” chart.

\*\*These commands are only available in USB mode and are device-dependent.

"BROWSE"	
"Album <name>"	"All video podcasts"*
"All albums"	"All videos"*
"All artists"	"Artist <name>"
"All audiobooks"	"Audiobook <name>"
"All authors"	"Author <name>"
"All composers"	"Composer <name>"
"All folders"	"Folder <name>"
"All genres"	"Genre <name>"
"All movies" *	"Playlist <name>"
"All music videos"*	"Podcast <name>"
"All playlists"	"TV show <name>"*
"All podcasts"	"Video <name>"*
"All songs"	"Video playlist <name>"*
"All TV shows"*	"Video podcast <name>"*
"All video playlists"*	"Help"

\*These commands are only available in USB mode and are device-dependent.

### Bluetooth Audio

Your system allows you to stream audio over your vehicle's speakers from your connected, Bluetooth-enabled cellular phone.



To access, press the lower left corner on the touchscreen, then select the BT Stereo tab.

### Bluetooth Audio Voice Commands



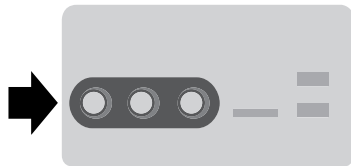
If you are listening to a Bluetooth audio device, press the voice button on the steering wheel controls. When prompted, say any of the commands in the following chart.

If you are not listening to a Bluetooth audio device, press the voice button and, after the tone, say "Bluetooth Audio", then any of the commands in the following chart.

**Note:** If your Bluetooth device supports streaming metadata, all the commands below are available. If your device does not, only "Next song", "Pause", "Play" and "Previous song" are available.



Bluetooth voice commands		
“Browse album <name>”	“Browse composer <name>”	“Play genre <name>”
“Browse all albums”	“Browse folder <name>”	“Play playlist <name>”
“Browse all artists”	“Browse genre <name>”	“Play podcast episode <name>”
“Browse all audiobooks”	”Browse playlist <name>”	“Play similar music”
“Browse all authors”	”Browse podcast <name>”	“Play song <name>”
“Browse all composers”	“Next”	“Previous”
“Browse all folders”	“Pause”	“Repeat all”
“Browse all genres”	“Play”	“Repeat off”
“Browse all playlists”	“Play album <name>”	“Repeat one”
“Browse all podcasts”	“Play artist <name>”	“Shuffle”
“Browse all songs”	“Play audiobook <name>”	”Shuffle album”
“Browse artist <name>”	“Play author <name>”	“Shuffle off”
“Browse audiobook <name>”	“Play composer <name>”	“What’s this?”
“Browse author <name>”	“Play folder <name>”	“Help”

**A/V Inputs**

Your A/V inputs allow you to connect an auxiliary audio/video source (game systems, personal camcorders, etc.) by connecting RCA cords (not included) to these input jacks. The jacks are yellow, red and white and are located either behind a small access door on the

instrument panel or in your center console.

You can also use the A/V inputs as an auxiliary input jack (AIJ) to play music from your portable music player over your vehicle's speakers. Plug in your one-eighth inch (three and one-half millimeter) RCA adaptor into the two left A/V input jacks (red and white).

Press the lower left corner of the touchscreen, then select A/V In.

To use the auxiliary input jack feature, make sure that your portable music player is designed to be used with headphones and that it is fully charged. You also need an audio extension cable with stereo male one-eighth inch (three and one-half millimeter) connectors at one end and a RCA jack at the other.

1. Begin with the vehicle parked and the radio and portable device are turned off.
2. Attach one end of the audio extension cable to the headphone output of your player and the other end into the adaptor in one of the two left A/V input jacks (white or red) inside the center console.
3. Press the lower left corner on the touchscreen. Select either a tuned station from the FM tab or the CD tab (if there is a CD already loaded into the system.) Adjust the volume to a comfortable listening level.
4. Turn the portable music player on and adjust the volume to one-half the maximum.
5. Press the lower left corner on the touchscreen. Select the A/V In tab. (You should hear audio from your portable music player although it may be low.)
6. Adjust the sound on your portable music player until it reaches the level of the FM station or CD by switching back and forth between the controls.

In order to playback video from your iPod® or iPhone® (if compatible), you must have a special combination USB/RCA composite video cable (available for purchase from Apple®). When the cable is connected to your iPod® or iPhone®, plug the other end into both the RCA jacks and the USB port.

**Note:** For safety reasons, connecting or adjusting the settings on your portable music player should not be attempted while the vehicle is moving. Also, the portable music player should be stored in a secure location, such as the center console or the glove box, when the vehicle is in motion. The audio extension cable must be long enough to allow the portable music player to be safely stored while the vehicle is in motion.

### **Troubleshooting**

- Do not connect the audio input jack to a line level output. The AIJ only works correctly with devices that have a headphone output with a volume control.
- Do not set the portable music player's volume level higher than is necessary to match the volume of the CD or FM radio as this causes distortion and reduces sound quality.
- If the music sounds distorted at lower listening levels, turn the portable music player volume down. If the problems persists, replace or recharge the batteries in the portable music player.
- The portable music player must be controlled in the same manner when it is used with headphones as the AIJ does not provide control (play, pause, etc.) over the attached portable music player.

### **PHONE**

Hands-free calling is one of the main features of SYNC®. Once your phone is paired, you can access many options using the touchscreen or voice commands. 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
- Using privacy mode
- Dial a number
- Redial
- Call waiting notification
- Caller ID

Other features such as text messaging using Bluetooth and automatic phonebook download are phone-dependent features. To check your phone's compatibility, refer to your phone's user manual and visit [www.SYNCMYride.com](http://www.SYNCMYride.com) or [www.syncmaroute.ca](http://www.syncmaroute.ca).

### Pairing Your Phone for the First Time



**WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device that may take their focus off the road. Your primary responsibility is the safe operation of the vehicle. We recommend against the use of any handheld device while driving, encourage the use of voice-operated systems when possible and that you become aware of applicable state and local laws that may affect use of electronic devices while driving.

The first thing you must do to use the phone features of SYNC is to pair your Bluetooth-enabled cellular phone with SYNC. This allows you to use your phone in a hands-free manner.

1. Touch Add Phone in the upper left corner of the touchscreen.
2. When prompted, select Add.
3. Select Add Device.
4. Make sure that Bluetooth is set to ON and that your cellular phone is in the proper mode. Refer to your phone's user guide if necessary.
5. When prompted on your phone's display, enter the six-digit PIN provided by SYNC in the radio display. The display indicates when the pairing is successful.
6. The system asks you if you want to download your phone book.

Depending on your phone's capability, you may be prompted with additional options. For more information on your phone's capability, refer to your phone's user guide and visit the website.

### Pairing Subsequent Phones

**Note:** Make sure the vehicle ignition and radio are turned on and that the transmission is in P (Park).

1. Press the phone corner of the touchscreen > Settings > Phone > BT Devices > Add Device.
2. Make sure that Bluetooth is set to ON and that your cellular phone is in the proper mode. Refer to your phone's user guide if necessary.
3. When prompted on your phone's display, enter the six-digit PIN provided by SYNC on the screen. The display indicates when the pairing is successful.
4. The system asks you if you want to download your phone book.

Depending on your phone's capability, you may be prompted with additional options. For more information on your phone's capability, refer to your phone's user guide and visit the website.

**Making Calls**

Press the voice button. When prompted, say “Call <name>” or say “Dial”, then the desired number.



To end the call or exit phone mode, press and hold the phone button.

**Receiving Calls**

During an incoming call, an audible tone sounds. Call information appears in the display if it's available.



Accept the call by pressing Accept on the touchscreen or by pressing the phone button on your steering wheel controls.

Reject the call by pressing Reject on the touchscreen or by pressing and holding the phone button on your steering wheel controls.

Ignore the call by doing nothing. SYNC logs it as a missed call.

**Phone Menu Options**

Press the top left corner on your touchscreen to select from the following options:

When you select:	You can:
<b>Phone</b>	Access the on-screen numerical pad to enter a number and place a call. During an active call, you can also choose to mute the call, put it on hold, activate privacy (returns the call to your cellular phone), join two calls or end the call.
<b>Quick Dial</b>	Select and call contacts stored in your phonebook contacts and call history folder.

When you select:	You can:
<b>Phone Book</b>	<p>Access and call any contacts in your previously downloaded phone book. The system will place the entries in alphabetical categories summarized at the top of the screen.</p> <p>To turn on contact picture settings (if your device supports this feature), press Phone &gt; Settings &gt; Manage Phonebook &gt; Download photos from Phonebook &gt; On.</p> <p>Certain smart phones <i>may</i> support transferring street addresses when listed with phone book contact information. If this feature is supported, you can select and use these addresses as destinations and also save them as favorites.</p>
<b>History</b>	<p>Access any previously dialed, received or missed calls while your Bluetooth-enabled phone was connected to SYNC. You can also choose to save these to your Favorites or Quick Dial.</p> <p>This is a phone-dependent feature. If your phone does not support downloading call history using Bluetooth, SYNC keeps track of calls made with the SYNC system.</p>
<b>Messaging</b>	<p>Send text messages using your touchscreen. Refer to <i>Text messaging</i> later in this section.</p>
<b>Settings</b>	<p>Access various phone settings such as Bluetooth on or off, Manage Your Phone Book and more. Refer to <i>Phone settings</i> later in this section.</p>

**Text Messaging**

**Note:** Downloading and sending text messages using Bluetooth are phone-dependent features.

**Note:** Certain features in text messaging are speed-dependent and cannot be completed when the vehicle is traveling at speeds over 5 mph (8 km/h).

**Note:** SYNC does not download read text messages from your phone.

You can send and receive text messages using Bluetooth, read them aloud and translate text messaging acronyms such as LOL.

1. Touch the top left corner of the display to access the phone menu.
2. Select Messaging.
3. Choose from the following:
  - Listen (speaker icon)
  - Dial
  - Send Text
  - View
  - Delete
  - Delete All

**Composing a Text Message**

**Note:** This is a speed-dependent feature and cannot be completed when the vehicle is traveling at speeds over 5 mph (8 km/h).

**Note:** Downloading and sending text messages using Bluetooth are phone-dependent features.

1. Touch the top left corner of the display to access the phone menu.
2. Press Messaging > Send Text.
3. Enter a phone number or choose from your phone book.
4. You can select from the following options:
  - **Send** which sends the message as it is.
  - **Edit Text** which allows you to customize the pre-defined message or create a message on your own

You can then preview the message and verify the recipient as well as update the message list and send it to a connected device (i.e. USB drive).

Pre-defined text message options
I'll call you back in a few minutes.
I just left, I'll be there soon.
Can you give me a call?
I'm on my way.
I'm running a few minutes late.
I'm ahead of schedule, so I'll be there early.
I'm outside.
I'll call you when I get there.
OK
Yes
No
Thanks
Stuck in traffic.
Call me later.
LOL

### ***Receiving a Text Message***

**Note:** If you select View and your vehicle is traveling over 5 mph (8 km/h), the system offers to read the message to you instead of allowing you to view it while driving.

When a new message arrives, an audible tone sounds and the screen displays a pop-up with the caller name and ID, if supported by your phone. You can press:

- **View** to view the text message.
- **Listen** for SYNC to read the message to you.
- **Dial** to call the contact.
- **Ignore** to exit the screen.



**Phone Settings**

Press Phone > Settings, then select from the following settings:

<b>If you select:</b>	<b>You can:</b>
<b>Bluetooth Devices</b>	Connect, disconnect, add or delete a device, as well as save it as a favorite.
<b>Bluetooth</b>	Turn Bluetooth on or off.
<b>Do Not Disturb</b>	Have all calls go directly to your voice mail and not ring in the vehicle. With this feature turned on, text message notifications are also suppressed and do not ring inside the vehicle.
<b>911 Assist</b>	Turn 911 Assist® on or off. Refer to <i>911 Assist®</i> in the <i>SYNC Services and Applications</i> section.
<b>Phone Ringer</b>	Select what ring tone you would like to hear when you receive a call. Choose from possible system ring tones, your currently paired phone's ring tone, a beep, text-to-speech or if you would like the notification to be silent.
<b>Text Message Notification</b>	Select how you would like to be notified when you receive a text message, if supported by your phone. Choose from possible system alert tones, text-to-speech or silent.
<b>Internet Data Connection*</b>	Use this screen to make adjustments to your internet data connection. Select to make your connection profile with the PAN (personal area network) or to turn off your connection. You can also choose to make adjustments to your settings or have the system always connect, never connect when roaming or query on connect. Press ? for additional information.
<b>Manage Phonebook</b>	Access features such as automatic phonebook download, re-download your phonebook, add contacts from your phone as well as delete or upload your phonebook.
<b>Roaming Warning</b>	Be alerted to when your phone is in roaming mode.

\*If compatible.

**Phone Voice Commands**

Press the voice button on the steering wheel controls. After the tone, say any of the following commands:

<b>“PHONE”</b>	
“Bluetooth off”	“Hold call off”*
“Bluetooth on”	“Hold on”*
“Call”	“Join calls”*
“Call <name>”	“Listen to text message <#>”
“Call <name> at home”	“Listen to text messages”
“Call <name> at work”	“Messages”**
“Call <name> on cell”	“Mute call”*
“Call <name> on other”	“Pair phone”
“Call voicemail”	“Privacy on”*
“Dial”	“Reply to text messages”
“Do not disturb off”	“Turn ringer off”
“Do not disturb on”	“Turn ringer on”
“Forward text messages”	“Unmute call”*
“Go to hands free”*	“Help”

\*These commands are only available during an active call.

\*\*If you have said “Messages”, refer to the following “Messages” chart.

<b>“MESSAGES”</b>
“Call”
“Forward text messages”
“Listen to text message <#>”
“Listen to text messages”
“Reply to text messages”
“Help”

**INFORMATION**

Under the Information menu, you can access features such as:

- SYNC® Services
- SIRIUS® Travel Link™
- Alerts
- Calendar
- SYNC Applications

If your vehicle is equipped with the navigation system, press the “i” (Information) button to access these features. If your vehicle is not equipped with the navigation system, press the corner of the touchscreen with the green tab.

**SYNC Services (If Equipped, U.S. Only)**

**Note:** SYNC Services requires activation prior to use. Visit [www.SYNCMYride.com](http://www.SYNCMYride.com) to register and check your eligibility for complimentary services. Standard phone and message rates may apply. Subscription may be required. You must also have the active SYNC Services Bluetooth-enabled cellular phone paired and connected to the system in order to connect to, and use, SYNC Services. Refer to the *Phone* section for pairing instructions.

**Note:** This feature does not function properly if you have enabled caller ID blocking on your mobile phone. Make sure your mobile phone is not blocking caller ID before using SYNC Services.

**Note:** 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. Any navigation features are provided only as an aid. Make your driving decisions based on your observations of local conditions and existing traffic regulations. 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. Maps used by this system may be inaccurate because of errors, changes in roads, traffic conditions or driving conditions.

**Note:** When you connect, the service uses GPS technology and advanced vehicle sensors to collect the vehicle's current location, travel direction and speed to help provide you with the directions, traffic reports, or business searches you request. Further, to provide the services you request and for continuous improvement, the service may collect and record call details and voice communications. For more information, see SYNC Services Terms and Conditions at [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com). If you do not want Ford or its service providers to collect the vehicle travel information or other information identified in the Terms and Conditions, do not activate or use the service.

SYNC Services uses advanced vehicle sensors, integrated GPS technology and comprehensive map and traffic data, to give you personalized traffic reports, precise turn-by-turn directions, business search, news, sports, weather and more. For a complete list of services, or to learn more, please visit [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com).

#### ***Connecting to SYNC Services Using Voice Commands***

1. Press the voice button.
2. When prompted, say "Services". This initiates an outgoing call to SYNC Services using your paired and connected Bluetooth-enabled cellular phone.
3. Once you're connected to the service, follow the voice prompts to request the desired service such as "Traffic" or "Directions". You can also say "What are my choices?" to receive a complete list of available services from which to choose.
4. Say "Services" to return to the services main menu or for help, say "Help".

#### ***Connecting to SYNC Services Using the Touchscreen***

If your vehicle is equipped with the navigation system, press the Information button.

If your vehicle is not equipped with the navigation system, press the green tab on your touchscreen.

1. Select Connect to Services to initiate an outgoing call to SYNC Services using your phone.
2. Once connected, follow the voice prompts to request your desired Service such as Traffic or Directions. You can also say "What are my choices?" to receive a complete list of available services from which to choose.
3. To return to the services menu, say "Services" or for help, say "Help".

**Receiving Turn-by-Turn Directions**

1. When connected to SYNC Services, say “Directions” or “Business Search”. To find the closest business or type of business to your current location just say “Business Search” and then “Search Near Me”. If you need further assistance in finding a location you can say “Operator” at any time within a Directions or Business search to speak with a live operator. You may also be prompted to speak with an operator when the automatic system has difficulty matching your voice request. The live operator can assist you by searching for businesses by name or by category, residential addresses by street address or by name or specific street intersections. Operator Assist is a feature of your SYNC Services subscription. For more information on Operator Assist visit [www.SYNCMYRide.com/support](http://www.SYNCMYRide.com/support).
2. Follow the voice prompts to select your Destination. After the route download is complete, the phone call is automatically ended.

If your vehicle is not equipped with the navigation feature:

- Turn-by-turn directions appear in the infotainment display, in the status bar of your touchscreen system and also on the SYNC Services screen. You also receive driving instructions from audible prompts.
- When on an active route, you can select Route Summary or Route Status using the touchscreen controls or voice commands to view the Route summary turn list or the Route Status ETA. You can also turn voice guidance on or off, cancel the route or update the route.

If you miss a turn, SYNC automatically asks if you want the route updated. Just say, “Yes” when prompted and a new route will be delivered to your vehicle.

If your vehicle is equipped with the navigation feature, SYNC Services downloads your requested destination to the navigation system. The navigation system then calculates the route and provides driving instructions. Refer to the *Navigation system* section for more information.

**Disconnecting from SYNC Services**

1. Press and hold the phone button on the steering wheel.
2. Say “Goodbye” from the SYNC Services main menu.

SYNC Services Quick Tips	
<b>Personalizing</b>	You can personalize your services feature to provide quicker access to your most used or favorite information. You can save address points such as, work or home. You can also save favorite information like sports teams, such as Detroit Lions, or a news category. To learn more, log onto <a href="http://www.SYNCMYRide.com">www.SYNCMYRide.com</a> .
<b>Push to interrupt</b>	Press the voice button at any time (while you are connected to SYNC TDI Services) to interrupt a voice prompt or an audio clip (such as a sports report) and say your voice command.
<b>Portable</b>	Your subscription is associated with your Bluetooth-enabled cellular phone number, not your VIN (Vehicle Identification Number). You can pair and connect your phone to any vehicle equipped with Traffic, Directions and Information and continue enjoying your personalized services.

### SYNC Services Voice Commands



When a route has been downloaded (non-navigation systems), press the voice button on the steering wheel controls. When prompted, say any of the following commands:

“SERVICES”
“Cancel route”
“Navigation voice off”
“Navigation voice on”
“Next turn”
“Route status”
“Route summary”
“Services”
“Update route”
“Help”

**SIRIUS Travel Link (If Equipped and If Activated)**

**WARNING:** Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device or feature that may take their focus off the road. Your primary responsibility is the safe operation of the vehicle. We recommend against the use of any handheld device while driving, encourage the use of voice-operated systems when possible and that you become aware of applicable state and local laws that may affect use of electronic devices while driving.

**Note:** In order to use SIRIUS Travel Link, your vehicle must be equipped with navigation and your navigation SD card must be in the SD card slot.

**Note:** A paid subscription is required to access and use these features. Go to [www.siriusxm.com/travellink](http://www.siriusxm.com/travellink) for more information.

**Note:** Visit [www.siriusxm.com/traffic#](http://www.siriusxm.com/traffic#) and click on “Coverage map and details” for a complete listing of all traffic areas covered by SIRIUS Travel Link.

**Note:** Neither SIRIUS nor Ford is responsible for any errors or inaccuracies in the SIRIUS Travel Link services or its use in vehicles.

SIRIUS Travel Link (if activated) can help you locate the best gas prices, find movie listings, get current traffic alerts, access the current weather map, get accurate ski conditions and scores to current sports games.



Press the information button and then select Travel Link, then choose from any of the following services:

When you select:	You can:
<b>Traffic On Route</b>	Identify traffic incidents on your route, nearby your vehicle's current location or near any of your favorite places (if programmed).
<b>Traffic Nearby</b>	
<b>Fuel Prices</b>	View fuel prices at stations close to your vehicle's location or on an active navigation route.
<b>Movie Listings</b>	View nearby movie theaters and their show times (if available).

When you select:	You can:
<b>Weather</b>	View the nearby weather, current weather, or the five day forecast for the chosen area. Select Map to see the weather map which can show storms, radar information, charts and winds. Select Area to select from a listing of weather locations.
<b>Sports Info</b>	View scores and schedules from a variety of sports. You can also save up to 10 favorite teams for easier access. The score automatically refreshes when a game is in progress.
<b>Ski Conditions</b>	View ski conditions for a specific area.

#### **SIRIUS Travel Link Voice Commands**

**Note:** In order to use SIRIUS Travel Link, your vehicle must be equipped with navigation and your navigation SD card must be in the SD card slot.



Press the voice button and when prompted, say any of the following:

Travel link voice commands	
"5-day weather forecast"	"Sports scores"***
"Fuel prices"	"Traffic"
"Movie listings"	"Travel Link"
"Sports headlines"	"Weather"
"Sports schedule"*	"Weather map"

\*If you have said, "Sports headlines", "Sports schedule" or "Sports scores", you may say any of the commands in the "Sports headlines, Sports schedules and Sports scores" commands chart:

\*\*If you have said, "Travel Link", you may say any of the commands in the "Travel Link" chart:

Sports headlines, Sports schedules and Sports scores commands	
"Baseball"	"My teams"
"College basketball"	"NBA"
"College football"	"NFL"



<b>Sports headlines, Sports schedules and Sports scores commands</b>		
"Golf"		"NHL"
"MLS"		"WNBA"
"Motor sports"		
<b>"TRAVEL LINK"</b>		
"5-day weather forecast"	"Golf schedule"	"NBA scores"
"Baseball headlines"	"MLS headlines"	"NFL headlines"
"Baseball schedule"	"MLS schedule"	"NFL schedule"
"Baseball scores"	"MLS scores"	"NFL scores"
"College basketball headlines"	"Motor sports"	"NHL headlines"
"College basketball schedule"	"Motor sports order"	"NHL schedule"
"College basketball scores"	"Motor sports schedule"	"NHL scores"
"College football headlines"	"Movie listings"	"Traffic"
"College football schedule"	"My team headlines"	"Weather"
"College football scores"	"My teams schedule"	"Weather map"
"Fuel prices"	"My teams scores"	"WNBA headlines"
"Golf headlines"	"NBA headlines"	"WNBA schedule"
"Golf leaderboard"	"NBA schedule"	"WNBA scores"

**Alerts**

Press the information button, then select Notifications. You can select a message and choose to:

- **View** the complete message
- **Delete** the message
- **Delete All** messages

This screen displays any system messages such as an SD card fault, etc.

**Note:** The system alerts you to any messages by turning the information icon yellow. When the messages are read or deleted, the icon returns to white.

**Calendar**

Press the information button, then select Calendar. You can view the current calendar by day, week or month.

**911 Assist® (If Equipped)**

**WARNING:** Unless the 911 Assist setting is set on prior to 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 the vehicle so it does not become a projectile or get damaged in a collision. Failure to do so may cause serious injury to someone or damage the phone which could prevent 911 Assist from working properly.

**Note:** SYNC 911 Assist feature must be set on prior to the incident.

**Note:** Before setting this feature on, ensure that you read the 911 Assist privacy notice later in this section for important information.

**Note:** If 911 Assist is turned on or off by any user, that setting applies for all paired phones. If 911 Assist is turned off, a voice message plays and/or a display message/icon comes on when the vehicle is started 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.

If a crash deploys an airbag or activates the fuel pump shut-off, your SYNC-equipped vehicle may be able to contact emergency services by dialing 911 through a paired and connected Bluetooth-enabled phone. For more information about 911 Assist, visit [www.SYNCMYRide.com](http://www.SYNCMYRide.com) or [www.syncmaroute.ca](http://www.syncmaroute.ca).

- For information on airbag deployment, refer to the *Supplementary Restraints System* chapter.
- For information on the fuel pump shut-off, refer to the *Roadside Emergencies* chapter.

#### **Setting 911 Assist On**



Press the information button > Apps > 911 Assist, then select On.

You can also access 911 Assist by:

- Pressing the Menu icon > Settings > Phone > 911 Assist, or
- Pressing the Menu icon > Help > 911 Assist.

#### **To Ensure that 911 Assist Works Properly**

- SYNC must be powered and working properly at the time of the incident and throughout feature activation and use.
- SYNC 911 Assist feature must be set on prior to the incident.
- A Bluetooth-enabled and compatible phone has to be paired and connected 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 (which would activate 911 Assist); however, if 911 Assist is triggered, SYNC tries to contact emergency services. If a connected phone is damaged or loses connection to SYNC, SYNC searches for, and tries to connect to, any available previously paired phone and tries to make the call to 911.

Before making the call:

- SYNC provides a short window of time (about 10 seconds) to cancel the call. Failure to cancel the call results in SYNC attempting 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 the call is not cancelled and a successful call is made, a prerecorded message is played for the 911 operator, then the occupant(s) in the vehicle is 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 was damaged in a crash.
- The vehicle's battery or SYNC system has no power.
- The phone(s) paired and connected to the system was thrown from the vehicle.

***911 Assist Privacy Notice***

Once 911 Assist is set on, it may disclose to emergency services that the 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 the vehicle location, and/or other details about the 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 turn the feature on.

**Vehicle Health Report (If Equipped, U.S. Only)**

**WARNING:** Always follow scheduled maintenance instructions, regularly inspect your vehicle, and seek repair for any damage or problem you suspect. Vehicle Health Report supplements, but cannot replace, normal maintenance and vehicle inspection. Vehicle Health Report only monitors certain systems that are electronically monitored by the vehicle and will not monitor or report the status of any other system, (i.e., brake lining wear). Failure to perform scheduled maintenance and regularly inspect your vehicle may result in vehicle damage and serious injury.

**Note:** Your Vehicle Health Report feature requires activation prior to use. Visit [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com) to register. There is no fee or subscription associated with Vehicle Health Report, but you must register to use this feature.

**Note:** This feature may not function properly if you have enabled caller ID blocking on your mobile phone. Before running a report, review *Vehicle Health Report Privacy Notice*.

**Note:** In order to allow a break-in period for your vehicle, you may not be able to create a Vehicle Health Report until your vehicle odometer has reached 200 miles.

**Note:** Cellular phone and SMS charges may apply when making a report.

Register for Vehicle Health Report and set your report preferences at [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com). After registering you can request a Vehicle Health Report (inside your vehicle). Return to your account at [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com) to view your report. You can also choose for SYNC to automatically remind you to run reports at specific mileage intervals. Cellular phone airtime usage may apply when reporting.

The system allows you to check your vehicle's overall health in the form of diagnostic report card. The Vehicle Health Report contains valuable information such as:

- Vehicle Diagnostic Information
- Scheduled maintenance
- Open Recalls and Field Service Actions
- Unserved items from vehicle inspections by your authorized dealer

**Making a Report**

To run a report by touchscreen, touch the information button > Apps > Vehicle Health Report.



To run a report by voice command, press the voice button on the steering wheel and, when prompted, say “Vehicle Health Report”.

**Vehicle Health Report Privacy Notice**

When you run a Vehicle Health Report, Ford Motor Company may collect your cellular phone number (to process your report request) and diagnostic information about your vehicle. Certain versions or updates to Vehicle Health Report may also collect additional vehicle information. Ford may use the vehicle information it collects for any purpose. If you do not want to disclose your cellular phone number or vehicle information, do not run the feature or set up your Vehicle Health Report profile at [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com). Refer to [www.SYNCMYRIDE.com](http://www.SYNCMYRIDE.com) - Vehicle Health Report Terms and Conditions, and Privacy Statement - for more information.

**MENU**

Under the menu setting, you can set your clock, access and make adjustments to the display, sound and vehicle settings as well as access settings for specific modes or the help feature.

**Clock**

**Note:** The date is set by your vehicle’s GPS; you cannot manually set the date.

**Note:** If the battery has been disconnected, the vehicle needs to acquire a GPS signal to update the clock. Once your vehicle acquires the signal, it may take a few minutes for the update to display the correct time.

1. Press the Menu icon > Clock.
2. Press + and – to adjust the time.

From this screen, you can also make other adjustments such as 12- or 24-hour mode, activate GPS time synchronization and have the system automatically update for daylight savings time and new time zones.

Once you update any settings they are automatically saved.

## Display

You can make adjustments to the touchscreen display through the touchscreen or by pressing the voice button on your steering wheel controls and when prompted, say “Display settings”.

To access and make adjustments using the touchscreen, press the Menu icon > Display.

**Brightness** allows you to make the screen display brighter or dimmer.

**Mode** allows you to set the screen to a certain brightness or have the system automatically change it based on the outside light level.

- If you select AUTO or NIGHT, you have the options of turning the display’s Auto Dim feature on or off and changing the Auto Dim Manual Offset feature.

## Edit Wallpaper

- You can have your touchscreen display the default photo or upload your own.

### Uploading Photos for Your Home Screen Wallpaper

**Note:** You cannot load photos directly from your camera. You must access the photos from either your USB mass storage device or from an SD card.

**Note:** Photographs with extremely large dimensions (i.e., 2048 x 1536) may not be compatible and appear as a blank (black) image on the display.

Your system allows you to upload and view up to 32 photos.

To access, press the Menu icon > Display > Edit Wallpaper, then follow the system prompts to upload your photographs. Only the photograph(s) which meet the following conditions are displayed:

- Compatible file formats are as follows: .jpg, .gif, .png, .bmp
- Each file must be 1.5 MB or less.
- Recommended dimensions: 800 x 384

## Sound

Press the Menu icon > Sound to access settings for:

Sound settings	
Bass	THX Deep Note Demo*
Midrange	DSP*

Sound settings	
Treble	Occupancy Mode*
Set Balance and Fade	Speed Compensated Volume

\*If equipped.

### Vehicle

Press the Menu icon > Vehicle to access settings for:

- Active Park Assist
- Ambient Lighting
- Vehicle Health Report
- Door Keypad Code
- Rear View Camera
- Enable Valet Mode

#### **Active Park Assist (If Equipped)**

When activated, your system displays directions for you regarding the active park assist process.

For complete information on this system, please refer to *Active park assist* in the *Driving Aids* chapter.

#### **Ambient Lighting (If Equipped)**

When activated, ambient lighting illuminates footwells and cupholders with a choice of colors. To access and make adjustments:

1. Press the Menu icon > Vehicle > Ambient Lighting.
2. Touch the desired color.
3. Use the scroll bar to increase or decrease the intensity.

To turn the feature on or off, press the power button.

#### **Vehicle Health Report (If Equipped)**

Turn Automatic Reminders on and off and set the mileage interval at which you would like to receive the reports. Press the ? for more information on these selections.

When done making your selections, press Run Vehicle Health Report Now if you want your report.

#### **Door Keypad Code (If Equipped)**

To change the keypad code for your keyless entry keypad system:

1. Press the Menu icon > Vehicle > Door Keypad Code.
2. Enter your current factory code, then, when prompted, enter your new code.



**Rear View Camera (If Equipped)**

This menu allows you to access settings for your rear view camera.

Press the Menu icon > Vehicle > Rear View Camera, then select from the following settings

- Rear Camera Delay
- Visual Park Aid Alert
- Guidelines

**Enable Valet Mode**

**Note:** If you are locked out and need to reset the PIN, you can enter 3681 and the system unlocks.

Valet mode allows you to lock the system so that none of your information on the system can be accessed until it is unlocked with the correct PIN.

1. Press the Menu icon > Vehicle > Enable Valet Mode.
2. When prompted, enter a four-digit PIN.

After you press Continue, the system is locked until the correct PIN is entered again.

**Settings**

Access and adjust system settings, voice features, as well as phone, navigation and wireless settings. Some of these settings can also be accessed with regard to their specific modes (i.e., phone and media).

**System**

Press the Menu icon > Settings > System, then select from the following:

<b>System</b>	
<b>Language</b>	Select to have the touchscreen display in English, Spanish or French.
<b>Distance</b>	Select to display units in kilometers or miles.
<b>Temperature</b>	Select to display units in Celsius or Fahrenheit.
<b>System Prompt Volume</b>	Adjust the volume of voice prompts from the system.
<b>Touch Screen Button Beep</b>	Select to have the system beep to confirm choices made through the touchscreen.
<b>Touch Panel Button Beep</b>	Select to have the system beep to confirm button choices made through the climate or audio system.

System	
<b>Keyboard Layout</b>	Have the touchscreen keyboard display in QWERTY or ABC format.
<b>Install Applications</b>	Install any downloaded applications or view the current software licenses.
<b>Master Reset</b>	Select to restore factory defaults. This erases all personal settings and personal data.

### Voice Control

Press the Menu icon > Settings > Voice Control, then select from the following:

Voice Control	
<b>Interaction Mode</b>	Standard interaction mode provides more detailed interaction and guidance. Advanced mode has less audible interaction and more tone prompts.
<b>Confirmation Prompts</b>	Have the system ask you short questions system it has not clearly heard or understood your request. <b>Note:</b> Even with confirmation prompts turned off, you may be asked to confirm settings occasionally.
<b>Media Candidate Lists</b>	Candidate lists are possible results from your voice commands. If these are turned off, the system simply makes a best guess at your request.
<b>Phone Candidate Lists</b>	Candidate lists are possible results from your voice commands. If these are turned off, the system simply makes a best guess at your request.
<b>Voice Control Volume</b>	Allows you to adjust the voice volume level.

**Media Player**

Press the Menu icon > Settings > Media Player, then select from the following:

<b>Media Player</b>	
<b>Autoplay</b>	With this feature on, the system automatically switches to the media source upon initial connection and you can listen to music which has already been randomly indexed during the indexing process. With this feature off, the system does not automatically switch to the inserted media source.
<b>Bluetooth Devices</b>	Select to connect, disconnect, add or delete a device. You can also set a device as your favorite so that the system automatically attempts to connect to that device at every ignition cycle.
<b>Gracenote® Database Info</b>	Allows you to view the version level of the Gracenote Database.
<b>Gracenote® Mgmt</b>	With this feature on, metadata information is pulled from the Gracenote Database for your music files. This overrides information from your device. This feature defaults to off.
<b>Cover Art Priority</b>	With this feature on, cover art is pulled from the Gracenote Database for your music files. This overrides any art from your device. This feature defaults to Media Player.

**Navigation**

Press the Menu icon > Settings > Navigation, then select from the following:

<b>Navigation</b>	
<b>Map Preferences</b>	Turn breadcrumbs on and off.
	Have the system display your turn list top to bottom or bottom to top.
	Turn the Parking POI notification on and off.
<b>Route Preferences</b>	Have the system display the shortest route, fastest route or most ecological route.
	Have the system avoid freeways.
	Have the system avoid tollroads.
	Have the system avoid ferries or car trains.
	Have the system use HOV (high-occupancy vehicle) lanes.
<b>Navigation Preferences</b>	Have the system use guidance prompts.
	Have the system automatically fill-in State/Province information.
<b>Traffic Preferences</b>	Have the system display areas where road work occurs.
	Have the system display incident map icons on the map.
	Have the system display areas where difficult driving conditions may occur.
	Have the system display areas with snow and ice on the road may occur.
	Have the system display any smog alerts.
	Have the system display weather warnings.
	Have the system display where there may be reduced visibility.
	Have the system turn on your radio for traffic announcements.
<b>Avoid Areas</b>	Enter specific areas that would like to avoid on planned navigation routes.

**Phone Settings**

Press the Menu icon > Settings > Phone, then select from the following:

<b>Phone</b>	
<b>Bluetooth Devices</b>	Connect, disconnect, add or delete a device, as well as save it as a favorite.
<b>Bluetooth</b>	Turn Bluetooth on and off.
<b>Do Not Disturb</b>	Have all calls go directly to your voice mail and not ring inside the vehicle. With this feature turned on, text message notifications are also suppressed and do not ring inside the vehicle.
<b>911 Assist</b>	Turn 911 Assist on and off. Refer to <i>911 Assist</i> in the <i>SYNC Applications and Services</i> section.
<b>Phone Ringer</b>	Select the type of notification for phone calls - ring tone, beep, text to speech, or have it be silent.
<b>Text Message Notification</b>	Select the type of notification for text messages - alert tone, beep, text to speech, or have it be silent.
<b>Internet Data Connection</b>	If compatible with your phone, you can make adjustments to your internet data connection. Select to make your connection profile with the PAN (personal area network) or to turn off your connection. You can also choose to make adjustments to your settings or have the system always connect, never connect when roaming or query on connect. Press ? for additional information.
<b>Manage Phonebook</b>	Access features such as automatic phonebook download, re-download your phonebook, add contacts from your phone as well as delete or upload your phonebook.
<b>Roaming Warning</b>	Have the system alert you when in Roaming mode.

**Wireless & Internet**

Your system has a Wi-Fi feature which creates a wireless network within your vehicle, thereby allowing other devices (i.e. personal computers or phones) in your vehicle to speak to each other, share files, play games, etc. Using this Wi-Fi feature, everyone in your vehicle can also gain access the internet if you have a USB mobile broadband connection inside the vehicle, your phone supports PAN (personal area networking) and if you are parked outside of a wireless hotspot.

Press the Menu icon > Settings > Wireless & Internet, then select from the following:

<b>Wireless &amp; Internet</b>	
<b>Wi-Fi Settings</b>	<b>Wi-Fi Network (Client) Mode</b> Turn the wi-fi feature on and off in your vehicle. Make sure it is turned on for connectivity purposes.
	<b>Choose a Wireless Network</b> Use a previously stored wireless network. You can categorize by alphabetical listing, priority and signal strength. You can also choose to search for a network, connect to a network, disconnect from a network, receive more information, prioritize a network or delete a network.
	<b>Gateway (Access Point) Mode</b> Make SYNC an access point for a phone or a computer by turning this feature on. This forms the local area network within the vehicle for things such as game playing, file transfer, internet browsing, etc. Press ? for more information.
	<b>Gateway (Access Point) Settings</b> View and change settings for using SYNC as the internet gateway.
	<b>Gateway (Access Point) Device List</b> View who has connected to your wi-fi connection recently.

Wireless & Internet	
<b>USB Mobile Broadband</b>	Instead of using wi-fi, your system can also use a USB mobile broadband connection to access the internet. (You must activate your mobile broadband device on your PC prior to connecting it to the system.) This screen allows you to set up what is your typical area for your USB mobile broadband connection. (USB mobile broadband settings may not be displayed if the device is already activated.) You can select the following: Country, Carrier, Phone Number, User Name and Password.
<b>Bluetooth Settings</b>	Shows you what device is currently paired with the system as well as giving you your typical Bluetooth options to connect, disconnect, set as favorite, delete and add device. Bluetooth is a registered trademark of the Bluetooth SIG.
<b>Prioritize Connection Methods</b>	Choose your connection methods and change them as needed. You can select to Change Order and have the system either always attempt to connecting using a USB mobile broadband or using wi-fi.

The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance.



**Help**

Press the Menu icon > Settings > Help, then select from the following:

<b>Help</b>	
<b>Where Am I?</b>	View the vehicle's current location, if your vehicle is equipped with navigation. If your vehicle is not equipped with navigation, nothing is displayed.
<b>System Information</b>	View the following information: Touchscreen system serial number, vehicle identification number (VIN), touchscreen system software version, navigation system version (if applicable), map database version (if equipped with navigation), Sirius satellite radio ESN (if activated) and Gracenote® Database Information and Library version
<b>Software Licenses</b>	View the licenses for any software and applications installed on your system.
<b>Driving Restrictions</b>	Certain features are disabled when your vehicle is moving.
<b>911 Assist</b>	Turn 911 Assist on and off. Refer to <i>911 Assist</i> in the <i>SYNC Applications and Services</i> section.
<b>Voice Command List</b>	View categorized lists of voice commands.

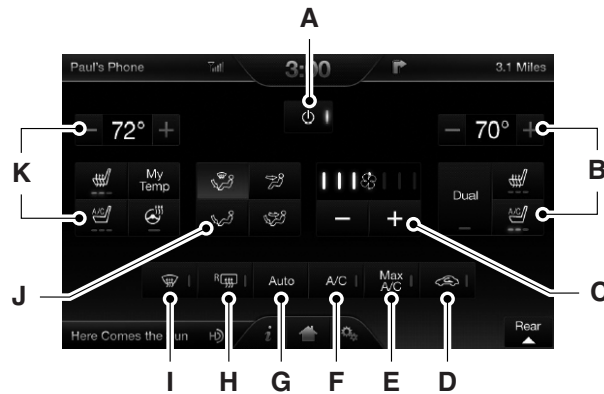
To access Help using the voice commands, press the voice button, then, after the tone, say "Help". The system provides voice commands that can be used in the current mode.



## TOUCHSCREEN CLIMATE CONTROLS



Depending on your vehicle line and option package, your climate screen may look different than what is shown here.



A. **Power:** Touch to turn the system on and off. Outside air cannot enter the vehicle when the system is off.

B. **Passenger settings:**

- Touch DUAL to turn on the passenger side temperature control.
- Touch + or – to adjust the temperature.
- Touch the heated seat icon to control the heated seat (if equipped).
- Touch the cooled seat icon to control the cooled seat (if equipped).

C. **Fan speed:** Touch + or – to adjust fan speed.

D. **Recirculated air:** Touch to turn the recirculated air on or off which:

- May reduce the amount of time needed to cool down the interior.
- May help reduce odors from reaching the interior.
- Engages automatically when MAX A/C is selected.
- May be engaged manually in any airflow mode except defrost.
- May turn off in all airflow modes except MAX A/C to reduce fog potential.

E. **MAX A/C:** Touch to cool the vehicle with recirculated air. Touch again for normal A/C operation. MAX A/C:

- Distributes air through instrument panel vents.
- Is more economical and efficient than normal A/C mode.
- May help reduce odors from entering the vehicle.

F. **A/C:** Touch to turn the air conditioning on or off.

- Use with recirculated air to improve cooling performance and efficiency.
- Engages automatically in MAX A/C, defrost and floor/defrost.

G. **AUTO:** Touch to engage automatic operation, then set the temperature using the temperature control. The system automatically controls:

- Fan speed
- Airflow distribution
- A/C on or off
- Outside or recirculated air

H. **Rear defroster:** Touch to turn the rear window defroster and heated mirrors (if equipped).

I. **Defrost:** Touch to clear the windshield of fog and thin ice. Touch again to return to the previous airflow selection. When on, defrost:

- Provides outside air to reduce window fogging.
- Distributes air through the windshield defroster vents and demister vents.

J. **Manual controls:** Select any of the following airflow distribution modes:

- Floor/Defrost: Distributes air through the windshield defroster vents, demister vents, floor vents and rear seat floor vents, and provides outside air to reduce window fogging.
- Panel: Distributes air through the instrument panel vents.
- Panel/Floor: Distributes air through the instrument panel vents, demister vents, floor vents and rear seat floor vents.
- Floor: Distributes air through the demister vents, floor vents and rear seat floor vents.

K. **Driver settings:** Depending on your vehicle and option package, you may have the following features:

- Touch + or – to adjust the temperature.
- Touch the heated seat icon to control the heated seat (if equipped). Refer to the *Seats* chapter.
- Touch the cooled seat icon to control the cooled seat (if equipped). Refer to the *Seats* chapter.
- Touch and hold MyTemp to select a temperature you would like the vehicle to remember and maintain for you.
- Touch the heated steering wheel icon (if equipped) to warm the steering wheel.

**Note:** If your vehicle is equipped with a wood-trimmed steering wheel, it does not heat between the 10 o'clock and 2 o'clock positions.

**Climate Control Voice Commands**



The following voice commands are available at the main menu level of a voice session. For example, press the voice button and after the prompt, “Say a command”; say any of the following commands:

Climate control voice commands
“Climate automatic”
“Climate my temperature”
“Climate off”
“Climate on”
“Climate temperature <15.5–29.5> degrees”
“Climate temperature <60–85> degrees”
“Help”

There are additional climate control commands but in order to access them, you have to say “Climate” first, then when the system is ready to listen, you may say any of the following commands:

Additional climate control voice commands	
“Automatic”	“Panel floor on”
“A/C off”	“Panel on”
“A/C on”	“Rear defrost off”
“Defrost off”	“Rear defrost on”
“Defrost on”	“Recirc off”
“Dual off”	“Recirc on”
“Fan decrease”	“Temperature”*
“Fan increase”	“Temperature <15.5–29.5> degrees”
“Floor on”	“Temperature <60–85> degrees”
“Max A/C off”	“Temperature decrease”
“Max A/C on”	“Temperature high”
“My temp”	“Temperature increase”
“Off”	“Temperature low”
“On”	“Windshield floor on”
“Help”	

\*If you have said “Temperature”, you can say any of the commands in the following “Temperature” chart.

“TEMPERATURE”
“High”
“Low”
“<15.5–29.5> degrees”
“<60–85> degrees”
“Help”

### NAVIGATION SYSTEM (IF EQUIPPED)

**Note:** The navigation SD card must be in the SD card slot to operate the navigation system. If you need a replacement SD card, see your authorized dealer.

**Note:** The SD card slot is spring-loaded. To remove the SD card, just push the card in and release it. Do not attempt to pull the card out to remove it; this could cause damage.

Your navigation system is comprised of two main features, destination mode and map mode.

To set a destination, press the green corner of your touchscreen, then the Dest button when it appears. Refer to *Setting a destination*.

To view the navigation map and the vehicle’s current location, touch the green bar in the upper right hand corner of the touchscreen, or, press Dest > Map. Refer to *Map mode*.

### Setting a Destination

Press the green corner of your touchscreen, then the Dest button when it appears. Choose any of the following:

Destination selections	
My Home	Street Address
Favorites	Intersection
Previous Destinations	City Center
Point of Interest	Map
Emergency	Edit Route Cancel Route
Previous Starting Point	Freeway Entrance/Exit
Latitude/Longitude	

1. Enter the necessary information into the highlighted text fields (in any order). For address destination entry, the Go! button appears once all the necessary information has been entered. Pressing the Go! button makes the address location to appear on the map. If you choose Previous Destination, the last 20 destinations you have selected appear.
2. Select Set as Dest to make this your destination. You can also choose to set this as a waypoint (have the system route to this point on the way to your current destination) or save it as a favorite. Any Avoid Areas selections are also considered in route calculation.
3. Choose from up to three different types of routes, then select Start Route.
  - Fastest: Uses the fastest moving roads possible.
  - Shortest: Uses the shortest distance possible.
  - Eco (EcoRoute): Uses the most fuel efficient route.

You can cancel the route or have the system demo the route for you. Select Route Prefs to set route preferences like avoiding freeways, toll roads, ferries and car trains as well as to use or not use HOV lanes. (HOV lanes are High Occupancy Vehicle lanes also known as carpool or diamond lanes. These lanes are reserved for people who ride in buses, vanpools or carpools.)

**Note:** If Start Route button is not pressed and the vehicle is driven on a recognized road, the system defaults to the fastest route option and begins guidance.

During route guidance, the “talking bubble” icon that appears in the upper right navigation corner (green bar) can be pressed if the user wants the system to repeat a route guidance instruction. Instructions decrease with each press.

**POI Categories**

Your system offers a variety of POI (Points of Interest) categories.

<b>Main categories</b>	
Food/Drink & Dining	Automotive
Travel & Transportation	Shopping
Financial	Entertainment & Arts
Emergency	Recreation & Sports
Community	Government
Health & Medicine	Domestic Services

Within these main categories, there are subcategories which contain more listings:

<b>Subcategories</b>
Restaurant
Golf
Parking
Home & Garden
Personal Care Services
Automobile Dealership
Govt. Office
Public Transit
Education

To expand these listings, press the + in front of the POI listing.

The system also allows you to sort the POIs alphabetically, by distance or by cityseekr listings (if available).

**cityseekr (If Available)**

**Note:** cityseekr point of interest (POI) information is limited to approximately 154 cities (132 in the U.S., 13 in Canada and 9 in Mexico).



cityseekr is a service which provides additional information about certain POIs such as restaurants, hotels and attractions.

When you have selected a POI, the location and information appear, such as address and phone number. If the POI is listed with cityseekr, you also see

information such as a brief description, check-in and check-out times, when the restaurant is open, etc.

Press More Information for a longer review, a list of services and facilities, the average room or meal price as well as the website.

This screen displays the POI icon such as:



Hotel



Coffeehouse



Food & Drink



Nightlife













Attraction



This icon appears when your selection exists in multiple categories within the system.

When you are viewing additional information for hotels, cityseekr will also tell you if the hotel has certain services and facilities using icons:

Hotel services and facilities	
 Restaurant	 24 Hr Room Service
 Business Center	 Fitness Center
 Handicap Facilities	 Internet Access
 Laundry	 Pool
 Refrigerator	 Wi-Fi

For restaurants, cityseekr can provide information such as star rating, average cost, review, handicap access, hours of operation, and website address.

For hotels, cityseekr can provide information such as star rating, price category, review, check in/out times, hotel service icons and website address.



**Setting Your Navigation Preferences**

Select settings for the system to take into account when planning your route.



Press the Menu icon > Settings > Navigation.

When you select:	You can:
<p><b>Map Preferences</b></p>	Turn breadcrumbs on and off.
	Have the system display your turn list top to bottom or bottom to top.
	Set the automatic parking POI notification. When parking POI notification is on, parking POI icons display on the map when you get close to your destination. (This may not be very useful in dense areas, and may clutter the map if other POIs are also set for display.)
<p><b>Route Preferences</b></p>	Choose to have the system display the shortest route, fastest route or most ecological route.
	Avoid freeways, toll roads, ferries and car trains when planning your route.
	Use HOV lanes (if available).
<p><b>Navigation Preferences</b></p>	Choose prompts to be either voice or tone only.
	Have the system automatically fill in the state and province based on the information already entered into the system.

When you select:	You can:
<b>Traffic Preferences</b>	<p>Choose how you want the system to handle traffic problems along your route.</p> <p>Automatic: Have the system reroute you to avoid traffic incidents that develop and impact the current route (no notification is provided).</p> <p>Manual: Have the system always provide a traffic alert notification for traffic incidents along the planned route. You have a choice to accept or ignore the notification before the route deviation is made.</p> <p>Turn on certain, or all, traffic icons on the map (road work, incidents, accidents, closed roads, etc.).</p>
<b>Avoid Areas</b>	<p>Choose areas which you want the system to avoid when calculating a route for you. Press Add to select a category.</p> <p>Once you make a selection, the system tries to avoid the area(s) if possible for all routes.</p> <p>To delete a selection, choose the listing on the screen; when the screen changes to Avoid Areas Edit, press Delete at the bottom right of the screen.</p>

### Map Mode

Press the green bar in the upper right area of the touchscreen to view map mode. Map mode shows advanced viewing comprised of both 2D city maps as well as 3D landmarks (when available).

**2D city maps** show detailed outlines of buildings, visible land use and land elements and detailed railway infrastructure for the most essential cities around the globe. These maps also contain features such as town blocks, building footprints, and railways.

**3D landmarks** appear as clear, visible objects which are typically recognizable and have a certain tourist value. The 3D landmarks appear in 3D map mode only. Coverage varies, and improves with updated map releases.



Change the appearance of the map display by repeatedly pressing the arrow button in the upper left corner of the screen. It toggles between three different map modes; Heading up, North up, and 3D.



**Heading up (2D map)** always shows the direction of forward travel to be upward on the screen. This view is available for map scales up to 2.5 mi (4 km). For larger map scales, this setting is remembered, but the map is shown in North up only. If the scale returns below this level, then Heading up is restored.



**North up (2D map)** always shows the northern direction to be upward on the screen.



**3D map mode** provides an elevated perspective of the map. This viewing angle can be adjusted and the map can be rotated 180 degrees by dragging your finger along the shaded bar with arrows at the bottom of the map.



**Re-centering the map** can be done by pressing this icon whenever you scroll the map away from your vehicle's current location.

### Map Icons



**Vehicle mark** shows current location of the vehicle. It stays in the center of the map display, except when in scroll mode.



**Scroll cursor** allows you to scroll the map; the icon is fixed in the center of the screen. The map position closest to the cursor is in a window on the top center part of the screen.



**Address book entry default icon(s)** indicate the location on the map of an address book entry. This is the default symbol shown after the entry has been stored to the Address Book by any method other than the map. A different icon can be selected from the 22 icons available; each icon can be used more than once.



**Home** indicates the location on the map currently stored as the home position. Only one entry from the Address Book can be saved as Home. This icon cannot be changed.



**POI (Point Of Interest) icons** can be displayed on the map and can be turned on or off. There are about 56 subcategories of POIs that can be selected to be displayed on the map one at a time.



**Starting point** indicates the starting point of a planned route.



**Waypoints** indicates the location of a waypoint on the map. The number inside the circle is different for each waypoint and represents the position of the waypoint in the route list.



**Destination symbol** indicates the ending point of a planned route.



**Next maneuver point** indicates the location of the next turn on the planned route.



**No GPS symbol** indicates that insufficient GPS satellite signals are available for accurate map positioning. This icon may be intermittently displayed under normal operation in an area with poor GPS access.

**Quick-touch Buttons**

When in map mode, touch anywhere on the map display to access the following options:

When you select:	You can:
<b>Set as Dest</b>	Select a scrolled location on the map as your destination. (You may scroll the map by pressing your index finger on the map display. When you reach the desired location, simply let go and then press Set as Dest.)
<b>Set as Waypoint</b>	Set the current location as a waypoint.
<b>Save to Favorites</b>	Save the current location to your favorites.
<b>POI Icons On/Off</b>	Select POI icons to be displayed on the map. Up to three icons can be selected for display on the map at the same time.
<b>Cancel Route</b>	Cancel the active route.
<b>View/Edit Route</b>	Access these features when a route is active: <ul style="list-style-type: none"> <li>• View route</li> <li>• Edit destination/waypoints</li> <li>• Edit turn list</li> <li>• Detour</li> <li>• Edit route preferences</li> <li>• Edit traffic preferences</li> <li>• Cancel route</li> </ul>



Rotate the map view by swiping your finger across the shaded bar with the arrows.

Navteq is the digital map provider for the navigation application. If you find map data errors, you may report them directly to Navteq by going to <http://mapreporter.navteq.com>. Navteq evaluates all reported map errors and responds with the result of their investigation by e-mail.

### Navigation Map Updates

Annual navigation map updates are available for purchase through your dealership, by calling 1-800-NAVMAPS (in Mexico, call 01-800-557-5539) or going to [www.navigation.com/ford](http://www.navigation.com/ford). You need to specify the make and model of your vehicle to determine if there is an update available.

### Navigation Voice Commands



When in navigation mode, press the voice button on the steering wheel controls. After the tone, say any of the following commands:

Navigation system voice commands	
“Cancel next waypoint” <sup>1</sup>	“Navigation” <sup>3</sup>
“Cancel route” <sup>1</sup>	“Repeat instruction” <sup>1</sup>
“Destination” <sup>2</sup>	“Show 3D”
“Destination <nametag>”	“Show heading up”
“Destination <POI category>”	“Show map”
“Destination favorites”	“Show north up”
“Destination home”	“Show route” <sup>1</sup>
“Destination intersection”	“Show turn list” <sup>1</sup>
“Destination nearest <POI category>”	“Voice off”
“Destination nearest POI”	“Voice on”
“Destination play nametags”	“Voice volume decrease”
“Destination POI”	“Voice volume increase”
“Destination POI category”	“Where am I?”
“Destination previous destination”	“Zoom in”
“Destination street address”	“Zoom out”
“Detour” <sup>1</sup>	“Help”

<sup>1</sup>These commands are only available when a navigation route is active.

<sup>2</sup>If you have said the command, “Destination”, you may say any of the above commands or commands in the following Destination chart.

<sup>3</sup>If you have said the command, “Navigation”, you may say any of the above commands or commands in the following Navigation chart.

<b>“DESTINATION”</b>
“<nametag>”
“<POI category>”
“Favorites”
“Home”
“Intersection”
“Nearest <POI category>”
“Nearest POI”
“Play nametags”
“POI category”
“Previous destination”
“Street address”
“Help”
<b>“NAVIGATION”</b>
“Destination”*
“Zoom city”
“Zoom country”
“Zoom in minimum”
“Zoom out maximum”
“Zoom province”
“Zoom state”
“Zoom street”
“Zoom to <distance>”
“Help”

\*If you have said, “Destination”, you may say any of the commands in the Destination chart.

#### ***One-shot Destination Street Address***

If your vehicle is equipped with the SD card navigation feature, you have the ability to enter in a street address using a feature called one-shot destination street address. When you say either “Navigation destination street address” or “Destination street address”, the system asks you to say the full address. The system displays an example on-screen. You can then speak the address naturally, such as “One two three four Main Street, Anytown”.

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**Read and follow instructions**

Before using your Windows Automotive-based system, read and follow all instructions and safety information provided in this end user manual (“User’s Guide”). Not following precautions found in this User’s Guide can lead to an accident or other serious consequences.

**Keep User’s Guide in Vehicle**

When kept in the vehicle, the User’s Guide will be a ready reference for you and other users unfamiliar with the Windows Automotive-based system. Please make certain that before using the system for the first time, all persons have access to the User’s Guide and read its instructions and safety information carefully.



**WARNING:** Operating certain parts of this system while driving can distract your attention away from the road, and possibly cause an accident or other serious consequences. Do not change system settings or enter data non-verbally (using your hands) while driving. Stop the vehicle in a safe and legal manner before attempting these operations. This is important since while setting up or changing some functions you might be required to distract your attention away from the road and remove your hands from the wheel.

**General operation****Voice Command Control**

Functions within the Windows Automotive-based system may be accomplished using only voice commands. Using voice commands while driving allows you to operate the system without removing your hands from the wheel.

**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. Even occasional short scans to the screen may be hazardous if your attention has been diverted away from your driving task at a critical time.

**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.

**Use of Speech Recognition Functions**

Speech recognition software is inherently a statistical process which is subject to errors. It is your responsibility to monitor any speech recognition functions included in the system and address any errors.

**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 seriously distract your attention and could cause an accident or other serious consequences. 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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FCC ID: KMHSYNCG2 IC: 1422A-SYNCG2

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The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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