# 2016 FUSION Owner's Manual







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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



Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that

you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

**Note:** This manual describes product features and options available throughout the range of available models, sometimes even before they are generally available. It may describe options not fitted to the vehicle you have purchased.

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

**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 your vehicle.

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



E154903

- A Right-hand side.
- B Left-hand side.

#### SYMBOLS GLOSSARY

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



Safety alert



See Owner's Manual



Air conditioning system



Anti-lock braking system



Avoid smoking, flames or sparks



Battery



Battery acid



Brake fluid - non petroleum based



Brake system



Cabin air filter



Check fuel cap



Child safety door lock or unlock



Child seat lower anchor



Child seat tether anchor



Cruise control



Do not open when hot



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 flashers



Heated rear window



Heated windshield



Interior luggage compartment release



Jack



Keep out of reach of children



Lighting control



Low tire pressure warning



Maintain correct fluid level



Note operating instructions



Panic alarm



Parking aid



Parking brake



Power steering fluid



Power windows front/rear



Power window lockout



Service engine soon



Side airbag



Shield the eves



Stability control



Windshield wash and wipe

#### **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. Additionally, when your vehicle is in for service or repair. Ford Motor Company. Ford of Canada, and service and repair facilities may access or share among them data for vehicle improvement purposes. 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 **SYNC™** (page 341).

#### **Event Data Recording**

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

The event data recorder in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating:
- Whether or not the driver and passenger 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 traveling; 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: Event data recorder data is recorded by your vehicle only if a non-trivial crash situation occurs; no data is recorded by the event data recorder under normal driving conditions and no personal data or information (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 event data recorder data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an event data recorder, special equipment is required. and access to the vehicle or the event data recorder is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have such special equipment, can read the information if they have access to the vehicle or the event data recorder. 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 SYNC™ (page 341).

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. For more information, see Traffic. Directions and Information. Terms and Conditions. See SYNC™ (page 341).

#### **CALIFORNIA PROPOSITION 65**

#### WARNING

Some constituents of engine exhaust, certain vehicle components, certain fluids contained in vehicles and certain products of component wear

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**

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.

#### For more information visit:

#### Web Address

www.dtsc.ca.gov/hazardouswaste/ perchlorate

### **FORD CREDIT**

## (U.S. Only)

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

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

Phone: 1-800-727-7000

For more information regarding Ford Credit, as well as to access Account Manager, please go to www.fordcredit.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.

#### WARNINGS

You risk death or serious injury to yourself and others if you do not follow the instruction highlighted by the warning symbol. Failure to follow the specific warnings and instructions could result in personal injury.



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

## **On-board Diagnostics (OBD-II)**

Your vehicle's On-board Diagnostics (OBD-II) system has a data port for diagnostics, repair and reprogramming services with diagnostic scan tools. Installing a non-Ford-approved aftermarket OBD plug-in device that uses the port during normal driving, for example remote insurance company monitoring. remote vehicle diagnostics, telematics or engine reprogramming, may cause interference or damage to vehicle systems. We do not recommend or endorse the use of any non-Ford-approved aftermarket OBD plug-in devices. The vehicle Warranty may not cover damage caused by any non-Ford-approved aftermarket OBD plug-in device.

# MOBILE COMMUNICATIONS **EOUIPMENT**

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

## **EXPORT UNIQUE OPTIONS**

For your particular global region, your vehicle may be equipped with features and options that are different from the features and options that are described in this Owner's Manual. A market unique supplement may be supplied that complements this book. By referring to the market unique supplement, if provided. you can properly identify those features, recommendations and specifications that are unique to your vehicle. This Owner's 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.

## **Environment**

# 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.

#### **GENERAL INFORMATION**

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

#### **WARNINGS**

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



All children are shaped differently. The recommendations for safety restraints are based on probable child height, age and weight thresholds from National Highway Traffic Safety Administration 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

#### WARNINGS

is compatible with and properly installed in your vehicle. To locate a child seat fitting station and CPST, contact the NHTSA toll free at 1-888-327-4236 or go to 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, locate your local St. John Ambulance office by searching for St. John Ambulance on the internet, 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.

Do not leave children 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.

### **Recommendations for Safety Restraints for Children**

Child	Child size, height, weight, or age	Recommended restraint type
Infants or toddlers	Children weighing 40 lb (18 kg) or less (generally age four or younger).	Use a child safety seat (sometimes called an infant carrier, convertible seat, or toddler seat).
Small children	Children who have outgrown or no longer properly fit in a child safety seat (generally children who are less than 4 ft. 9 in. (1.45 m) tall, are greater than age four and less than age 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 ft. 9 in. (1.45 m) 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 seat back upright.

- You are required by law to properly use safety seats for infants and toddlers in the United States and Canada.
- Many states and provinces require that small children use approved booster seats until they reach age eight, a height of 4 feet 9 inches (1.45 meters) tall, or 80 pounds (36 kilograms). Check your local and state or provincial laws for specific requirements about the safety of children in your vehicle.
- When possible, always properly restrain children 12 years of age and under in a rear seating position of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in a front seating position. See Front Passenger Sensing System (page 40).

# INSTALLING CHILD SEATS Child Seats



E142594

Use a child safety seat (sometimes called an infant carrier, convertible seat, or toddler seat) for infants, toddlers, or children weighing 40 pounds (18 kilograms) or less (generally age four or vounger).

### Using Lap and Shoulder Belts

#### WARNINGS

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 upon which the child seat is installed all the way back.



Airbags can kill or injure a child in a child seat. Children 12 and under should be properly restrained in the rear seat whenever possible.



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 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 upon which the child seat will be installed in the upright position.
- Put the safety belt in the automatic locking mode. See 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.

### Standard safety belts



F142528

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

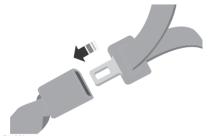


 After positioning the child safety seat in the proper seating position, pull down on the shoulder belt and then grasp the shoulder belt and lap belt together behind the belt tongue.



E142530

 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.



E142531

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.



E142875

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.

- 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.



18

- 8. Remove remaining slack from the belt. Force the seat down with extra weight, for example, by pressing down or kneeling on the child restraint while pulling up on the shoulder belt in order to force slack from the belt. This is necessary to remove the remaining slack that will exist once the extra weight of the child is added to the child restraint. It also helps to achieve the proper snugness of the child seat to your vehicle. Sometimes, a slight lean toward the buckle will provide extra help to remove remaining slack from the belt.
- 9. Attach the tether strap (if the child seat is equipped).



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 centimeters) of movement for proper installation.

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

#### Inflatable safety belts



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

helt

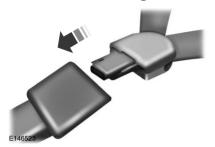


After positioning the child safety seat in the proper seating position, grasp the shoulder belt and lap belt together behind the belt tongue.



E142530

 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.



To put the retractor in the automatic locking mode, grasp the lap portion of the inflatable safety belt and pull upward until all of the belt is pulled out.

**Note:** The automatic locking mode is available on the front passenger and rear seats.

**Note:** Unlike the standard safety belt, the inflatable safety belt's unique lap portion locks the child seat for installation. The ability for the shoulder portion of the belt to move freely is normal, even after the lap belt has been put into the automatic locking mode.

**Note:** The lock-off device on some child restraints may not accommodate the shoulder portion of the inflatable safety belt. Follow all instructions provided by the manufacturer of the child restraint regarding the necessary and proper use of the lock-off device. In some instances, these devices have been provided only for use in vehicles with safety belt systems that would otherwise require a locking clip.

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



Remove remaining slack from the belt.
 Force the seat down with extra weight,
 for example, by pressing down or
 kneeling on the child restraint while
 pulling down on the lap belt in order to
 force slack from the belt. This is
 necessary to remove the remaining

slack that will exist once the extra weight of the child is added to the child restraint. It also helps to achieve the proper snugness of the child seat to your vehicle. Sometimes, a slight lean toward the buckle will additionally help to remove remaining slack from the belt.

9. Attach the tether strap (if the child seat is equipped).



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 centimeters) of movement for proper installation.

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

# Using Lower Anchors and Tethers for CHildren (LATCH)

#### **WARNINGS**

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Never attach two child safety seats to the same anchor. In a collision, one anchor may not be strong enough to d two child safety seat attachments.

hold two child safety seat attachments and may break, causing serious injury or death.

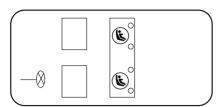
Λ

Depending on where you secure a child restraint, and depending on the child restraint design, you may block

access to certain tesign, you may block access to certain safety belt buckle assemblies 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 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.



#### E142535

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



E144054

The LATCH anchors are located at the rear section of the rear seat between the cushion and seat back 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.

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

# Use of Inboard Lower Anchors from the Outboard Seating Positions (Center Seating Use)

#### WARNING

The standardized spacing for LATCH lower anchors is 11 inches (28 centimeters) center to center. Do not use LATCH lower anchors for the center seating position unless the child seat manufacturer's instructions permit and specify using anchors spaced at least as far apart as those in this vehicle.

The lower anchors at the center of the second row rear seat are spaced 18 inches (46 centimeters) apart. A child seat with rigid LATCH attachments cannot be installed at the center seating position. LATCH compatible child seats (with attachments on belt webbing) can only be used at this seating position provided that the child seat manufacturer's instructions permit use with the anchor spacing stated. Do not attach a child seat to any lower anchor if an adjacent child seat is attached to that anchor.

Each time you use the safety seat, check that the seat is properly attached to the lower anchors and tether anchor, if applicable. Tug the child seat from side to side and forward and back where it is secured to your vehicle. The seat should move less than one inch when you do this for a proper installation.

If the safety seat is not anchored properly, the risk of a child being injured in a crash greatly increases.

#### 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**



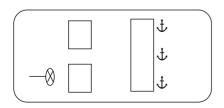
Many forward-facing child safety seats include a tether strap which extends from the back of

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 your 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):



E142537

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 your 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 your vehicle seat gives the best protection in a severe crash.

 Route the child safety seat tether strap over the back of the seat. For outboard seating positions, route the tether strap under the head restraint and between the head restraint posts. For the center seating positions, route the tether strap over the top of the head restraint. If needed, the head restraints can also be removed.



E144274

2. Locate the correct anchor for the selected seating position, then open the tether anchor cover.



E144275

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

4. 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.

#### **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 crash.

**Note:** Some booster seat safety belt guides may not accommodate the shoulder portion of the inflatable safety belt.

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 pounds (18 kilograms) and 80 pounds (36 kilograms) and upward to 100 pounds (45 kilograms) 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 pounds (36 kilograms).

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



#### F142595

- Can the child sit all the way back against their 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 your vehicle lap and shoulder belt.

### **Types of Booster Seats**



Backless booster seats

If your backless booster seat has a removable shield, remove the shield. If a vehicle seating position has a low seat 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 and shoulder belts, or consider using a high back booster seat.



E70710

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

#### **CHILD SEAT POSITIONING**

#### **WARNINGS**

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 upon which the child seat is installed 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.

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**

warnings provided by your vehicle manufacturer. A safety seat that is improperly installed or utilized, is inappropriate for your child's height, age, or weight or does not properly fit the child may increase the risk of serious injury or death.

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

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

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

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 crash.

To avoid risk of injury, do not leave children or pets unattended in your vehicle.

### Recommendations for attaching child safety restraints for children

		Use any attachment method as indicated below by X				
Restraint Type	Combined weight of child and child seat	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 65 lb (29.5 kg)		х			х
Rear facing child seat	Over 65 lb (29.5 kg)					х
Forward facing child seat	Up to 65 lb (29.5 kg)	x		х	x	
Forward facing child seat	Over 65 lb (29.5 kg)			х	x	

**Note:** The child seat must rest tightly against the vehicle seat upon which it is installed. It may be necessary to lift or remove the head restraint. See **Seats** (page 130).

#### **CHILD SAFETY LOCKS**

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



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

### **Left-Hand Side**

Turn counterclockwise to lock and clockwise to unlock.

## **Right-Hand Side**

Turn clockwise to lock and counterclockwise to unlock.

#### PRINCIPLE OF OPERATION

#### WARNINGS



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



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



Never let a passenger hold a child on his or her lap while your vehicle is moving. The passenger cannot protect the child from injury in a crash.



All occupants of your vehicle. including the driver, should always properly wear their safety belts, even

when an airbag supplemental restraint system is provided. Failure to properly wear your safety belt could seriously increase the risk of injury or death.



It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a crash, people riding in

these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and safety belts. Be sure everyone in your vehicle is in a seat and using a safety belt properly.



In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a safety

belt.



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.

#### WARNINGS



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

Failure to follow this could seriously increase the risk of injury or death.



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.



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

All seating positions in your 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.



Safety belt warning light and chime.



Crash sensors and monitoring system with readiness indicator.

The safety belt pretensioners at the front seating positions are designed to tighten the safety belts when activated. In frontal and near-frontal crashes, the safety belt pretensioners may be activated alone or. if the crash is of sufficient severity, together with the front airbags. The pretensioners may also activate when a side curtain airbag is deployed.

### **FASTENING THE SAFETY BELTS**

#### Standard belts shown, inflatable belts similar

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



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 you securely fasten the tongue in the buckle.



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

### **Using Safety Belts During** Pregnancy

#### WARNING

women should also follow this practice.

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



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

#### WARNINGS

After any vehicle crash, 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.

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 crashes.

All safety restraints in the vehicle are combination lap and shoulder belts. The driver safety belt has the vehicle sensitive locking mode. The front outboard passenger and rear seat safety belts have both the vehicle sensitive locking mode and the automatic locking mode.

#### **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 about 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. See **Child Safety** (page 15).

# How to Use the Automatic Locking Mode

### Non-inflatable safety belts



F142591

- 1. Buckle the combination lap and shoulder belt.
- Grasp the shoulder portion and pull downward until the entire belt is pulled out. As the belt retracts, you will hear a clicking sound. This indicates the safety belt is now in the automatic locking mode.

# Rear outboard inflatable safety belts (second row only—if equipped)



F146363

- 1. Buckle the combination lap and shoulder belt.
- 2. Grasp the lap portion of the belt and pull upward 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

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

# Rear Inflatable Safety Belt (If Equipped)

#### WARNING



Do not attempt to service, repair, or modify the rear inflatable safety belt.

The rear inflatable safety belts are fitted in the shoulder portion of the safety belts of the second-row outboard seating positions.

**Note:** The rear inflatable safety belts are compatible with most infant and child safety car seats and belt positioning booster seats when properly installed. This is because they are designed to fill with a cooled gas at a lower pressure and at a slower rate than traditional airbags. After inflation, the shoulder portion of the safety belt remains cool to the touch.

The rear inflatable safety belt consists of the following:

- An inflatable bag located in the shoulder safety belt webbing.
- Lap safety belt webbing with automatic locking mode.
- The same warning light, electronic control and diagnostic unit as used for the front safety belts.
- Impact sensors located in various parts of the vehicle.

#### How does the rear inflatable safety belt system work?

The rear inflatable safety belts will function like standard restraints in everyday usage.



E146364

During a crash of sufficient force, the inflatable belt will inflate from inside the webbing.



F146365

The fully inflated belt's increased diameter more effectively holds the occupant in the appropriate seating position, and spreads crash forces over more area of the body than regular safety belts. This helps reduce pressure on the chest and helps control head and neck motion for passengers.

#### WARNING



If the rear inflatable safety belt has deployed, it will not function again. The rear inflatable safety belt system must be replaced by an authorized dealer.

The rear inflatable safety belts are designed to inflate in frontal or near-frontal crashes and some side impact crashes. The fact that the rear inflatable safety belt did not inflate in a crash does not mean that something is wrong with the system. Rather, it means the forces were not of the type sufficient to cause activation.

### Safety Belt Extension Assembly

#### WARNINGS



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



Do not use extensions with an inflatable safety belt.

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 on a label located either at the end of the webbing or on the retractor behind the trim. Also, use the safety belt extension only if the safety belt is too short for you when fully extended.

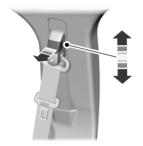
## **Safety Belts**

# SAFETY BELT HEIGHT ADJUSTMENT

### WARNING

Position the safety belt height adjuster 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 crash.

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



To adjust the shoulder belt height:

- 1. Pull 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 LAMP 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**

E145664

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 Belts**

### **SAFETY BELT MINDER**

### Belt-Minder™

This feature supplements the safety belt warning function by providing additional reminders that intermittently sound a tone and illuminate the safety belt warning light when you are in the driver seat or you have a front seat passenger and a 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 the system turning on the Belt-Minder feature for objects you place on the front passenger seat, only the front seat passengers receive warnings as determined by the front passenger sensing system.

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

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

## **Safety Belts**

## Deactivating and Activating the Belt-Minder Feature

### WARNING

While the system allows you to switch this feature off, the intent of the system is to remind you to wear your safety belt to improve your chance to survive an accident. We recommend you leave the system switched on for yourself and others who may use the vehicle.

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

Read Steps 1–4 thoroughly before proceeding with the programming procedure.

Before following the procedure, make sure that:

- The parking brake is set.
- The transmission is in park (P) or neutral (N).
- The ignition is off.
- The driver and front passenger safety belts are unbuckled.
- 1. Switch the ignition on. Do not start the vehicle.
- 2. Wait until the safety belt warning light turns off (about 1 minute). After Step 2, wait an additional 5 seconds before proceeding with Step 3. Once you start Step 3, you must complete the procedure within 30 seconds.
- 3. For the seating position you are switching off, buckle then unbuckle the safety belt three times at a moderate speed, ending in the unbuckled state. After Step 3, the safety belt warning light turns on.

- While the safety belt warning light is on, buckle and then unbuckle the safety belt. After Step 4, the safety belt warning light flashes for confirmation.
- This will switch the feature off for that seating position if it is currently on.
- This will switch the feature on for that seating position if it is currently off.

# 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 seat back (if equipped), child safety seat LATCH and tether anchors, and attaching hardware, should be inspected after a crash. 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 crash be replaced. However, if the crash was minor and an authorized dealer finds that the belts do not show damage and continue to operate properly, they do not need to be replaced. Safety belt assemblies not in use during a crash should also be inspected and replaced if either damage or improper operation is noted.

Properly care for safety belts. See **Vehicle Care** (page 266).

## 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.

The Vehicle Personal Safety System consists of:

- Driver and passenger dual-stage airbag supplemental restraints.
- Front seat outboard safety belts with pretensioners, energy management retractors and safety belt usage sensors.
- Driver seat position sensor.
- Front passenger sensing system.
- Passenger airbag off and on indicator lamp.
- Front crash severity sensors.
- Restraints control module with impact and safing sensors.
- Restraint system warning light and backup tone.
- The electrical wiring for the airbags, crash sensors, 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 the 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 deploy the safety belt pretensioners, one or both stages of the dual-stage airbags based on crash severity and occupant conditions.

### PRINCIPLE OF OPERATION

### WARNINGS

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.

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

Always transport children 12 years old and under in the back seat and always properly use appropriate child restraints. Failure to follow this could seriously increase the risk of injury or death.

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

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 upon which the child seat is installed all the way back.

Do not attempt to service, repair, or modify the airbag supplemental restraint systems or its fuses as you could be seriously injured or killed. Contact your authorized dealer as soon as possible.

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

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 crash.

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 (for example, baking soda) that result from the combustion process that inflates the airbag. Small amounts of sodium hydroxide may be present which may irritate the skin and eyes, but none of the residue is toxic.

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 eve 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.

# DRIVER AND PASSENGER AIRBAGS

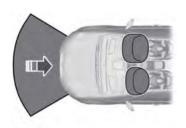
### WARNINGS

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

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.

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 upon which the child seat is installed all the way back.



E151127

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

The driver and passenger front airbag system consists of:

- Driver and passenger airbag modules.
- · Front passenger sensing system.



· Crash sensors and monitoring system with readiness indicator. See **Crash Sensors and Airbag** 

Indicator (page 45).

# Proper Driver and Front Passenger Seating Adjustment

### WARNING

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National Highway Traffic Safety Administration (NHTSA)

recommends a minimum distance of at least 10 inches (25 centimeters) 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 is 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 upon which the child seat is installed all the way back.



F142846

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 iniury in a crash.

### FRONT PASSENGER SENSING **SYSTEM**

#### WARNINGS

Even with Advanced Restraints Systems, children 12 and under should be properly restrained in a rear seating position. Failure to follow this could seriously increase the risk of injury or death.



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 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.



To reduce the risk of possible serious injury: Do not stow objects in the seatback map pocket or hang objects off a seatback if a child is in the front passenger seat. Do not place objects underneath the front passenger seat or

### WARNINGS

between the seat and the center console. Check the passenger airbag off or pass airbag off indicator lamp for proper airbag status. Failure to follow these instructions. may interfere with the front passenger seat sensing system.

Any alteration or modification to the front passenger seat may affect the performance of the front passenger sensing system which could seriously increase the risk of injury or death.

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

#### PASS AIRBAG OFF

F157152

The front passenger sensing system uses a passenger airbag off indicator which will illuminate and stay lit to remind you that the front passenger frontal airbag is disabled.

The indicator lamp is located at the top center of the instrument panel.

**Note:** When the ignition is first tuned on. the indicator lamp will illuminate for a short period of time to confirm it is functional.

The front passenger sensing system is designed to disable (will not inflate) the front passenger frontal airbag when a rear facing infant seat, a forward-facing child restraint, or a booster seat is detected. Even with this technology, parents are **strongly** encouraged to always properly restrain children in the rear seat. The sensor also turns off the passenger front airbag and seat-mounted side airbag when the passenger seat is empty.

- When the front passenger sensing system disables (will not inflate) the front passenger frontal airbag, the indicator lamp will illuminate and stay lit to remind you that the front passenger frontal airbag is disabled.
- If the child restraint has been installed and the indicator lamp is not lit, 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 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 indicator lamp will be unlit and stay unlit.

If a person of adult size is sitting in the front passenger seat, but the airbag off indicator lamp is lit, it is possible that the person is not 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 frontal airbag.
- If the indicator lamp remains lit even after this, the person should be advised to ride in the rear seat.

Occupant	Passenger airbag OFF indicator	Passenger airbag
Empty	Unlit	Disabled
Child	Lit	Disabled
Adult	Unlit	Enabled

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

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

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

- Objects lodged underneath the seat.
- Objects between the seat cushion and the center console.
- Objects hanging off the seatback.
- Objects stowed in the seatback map pocket.
- 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 list above.



Make sure the front passenger sensing system is operating properly. See Crash Sensors

and Airbag Indicator (page 45).

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

The driver and adult passengers should check for objects lodged underneath the front passenger seat, or cargo interfering with the seat.

If there are lodged objects, or cargo is interfering with the seat, take the following steps to remove the obstruction:

- Pull the vehicle over.
- Turn the vehicle off.
- Driver and 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 is no longer illuminated.
- If the airbag readiness light 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. See **Getting the Services You Need (page)** 231).

### SIDE AIRBAGS

#### WARNINGS

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 crash.



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.

### WARNINGS



soon as possible.

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

Do not attempt to service, repair, or modify the airbag, its fuses or the seat cover on a seat containing an airbag as you could be seriously injured or killed. Contact your authorized dealer as

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 crash.

The side airbags are located on the outboard side of the seatbacks of the front seats. In certain sideways crashes, the airbag on the side affected by the crash 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 crashes.



The system consists of the following:

- A label or embossed side panel indicating that side airbags are fitted to vour vehicle.
- Side airbags located inside the driver and front passenger seatbacks.
- Front passenger sensing system.



·Crash sensors and monitoring system with readiness indicator. See Crash Sensors and Airbag

Indicator (page 45).

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

### DRIVER AND PASSENGER **KNEE AIRBAGS**

Driver and passenger knee airbags are located under or within the instrument panel. During a crash, the restraints control module may activate the driver and passenger knee airbags (individually or both) based on crash severity and respective occupant conditions. Under certain crash and occupant conditions, the driver and passenger knee airbags may deploy (individually or both) but the corresponding front airbag may not activate. As with front and side airbags, it is important to be properly seated and restrained to reduce the risk of death or serious injurv.



Make sure the knee airbags are operating properly. See Crash **Sensors and Airbag Indicator** 

(page 45).

### SIDE CURTAIN AIRBAGS

### WARNINGS

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



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

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

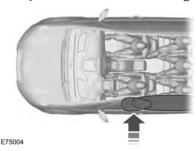
All occupants of the vehicle including the driver should always wear their safety belts even when an airbag supplemental restraint system and side curtain airbag is provided.

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

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

The side curtain airbags will deploy during significant side crashes. The side curtain airbags are mounted to the roof side-rail sheet metal, behind the headliner, above each row of seats. In certain sideways. crashes, the side curtain airbag on the impacted side of the vehicle will be activated. The side curtain airbags are designed to inflate between the side window area and occupants to further enhance protection provided in side impact crashes

The system consists of the following:



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



Crash sensors and monitoring system with readiness indicator. See Crash Sensors and Airbag

Indicator (page 45).

Children 12 years old and under should always be properly restrained in the back seats. The side curtain airbags 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 side curtain airbags 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 curtain airbags.

# 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.

Your vehicle has a collection of crash and occupant sensors which provide information to the restraints control module. The restraints control module deploys (activates) the front safety belt pretensioners, driver airbag, passenger airbag, knee airbag(s), seat mounted side airbags, side curtain airbags and optional rear inflatable safety belts. Based on the type of crash (frontal impact or side impact), 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. Routine maintenance of the airbag is not required.

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



The readiness light will not illuminate immediately after the ignition is turned on.

- The readiness light will either flash or stay lit.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem, the light or both 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 crash.

The safety belt pretensioners and the front airbag supplemental restraint system are designed to activate when the vehicle sustains frontal deceleration sufficient to cause the restraints control module to deploy a safety device.

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

- The design of the front airbags is to activate only in frontal and near-frontal crashes (not rollovers, side impacts or rear impacts) unless the crash causes sufficient frontal deceleration.
- The safety belt pretensioners and optional rear inflatable safety belts are designed to activate in frontal, near-frontal and side crashes.

- The knee airbag(s) may deploy based on crash severity and occupant conditions.
- The design of the side airbags and side curtain airbags is to inflate in certain side impact crashes. Side airbags and side curtain airbags may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation.

### **AIRBAG DISPOSAL**

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

# GENERAL INFORMATION ON RADIO FREQUENCIES

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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

The typical operating range for your transmitter is approximately 33 feet (10 meters). Vehicles with the remote start feature will have a greater range. One of the following could cause a decrease in operating range:

- Weather conditions.
- Nearby radio towers.
- · Structures around the vehicle.
- Other vehicles parked next to your vehicle.

The radio frequency used by your remote control can also be used by other short distance radio transmissions, for example amateur radios, medical equipment, wireless headphones, remote controls and alarm systems. If the frequencies are jammed, you will not be able to use your remote control. You can lock and unlock the doors with the key.

**Note:** Make sure to lock your vehicle before leaving it unattended.

**Note:** If you are in range, the remote control will operate if you press any button unintentionally.

### Intelligent Access (If Equipped)

The system uses a radio frequency signal to communicate with your vehicle and authorize your vehicle to unlock when one of the following conditions are met:

- You activate the front exterior door handle switch.
- You press the luggage compartment button.
- You press a button on the transmitter.

If excessive radio frequency interference is present in the area or if the transmitter battery is low, you may need to mechanically unlock your door. You can use the mechanical key blade in your intelligent access key to open the driver door in this situation. See **Remote Control** (page 47).

### **REMOTE CONTROL**

## **Integrated Keyhead Transmitters**

(If Equipped)

Use the key blade to start your vehicle and unlock or lock the driver door from outside your vehicle. The transmitter portion functions as the remote control.



E151797

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



**Note:** The keys that came with your vehicle have a security tag that provides important vehicle key cut information. Keep the tag in a safe place for future reference.

### Intelligent Access Key (If Equipped)



E144506

Your intelligent access keys operate the power locks and the remote start system. The key must be in your vehicle to activate the push-button start system.

### Removable Key Blade

The intelligent access key also contains a removable mechanical key blade that you can use to unlock the driver door.



E151796

Slide the release on the back of the remote control and pivot the cover off to access the key blade.



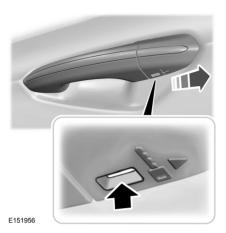
E151795

**Note:** The backup keys that came with your vehicle have a security tag that provides important vehicle key cut information. Keep the tag in a safe place for future reference.

### Using the Key Blade

The key cylinder is under a cap on the driver door handle.

To remove the cap:



- Insert the key blade into the slot on the bottom of the handle and press up.
- Applying upward pressure, move the cap rearward to release it. Gently remove the key while doing so.

To install the cap:



- 1. Place the cap just forward of the key cylinder.
- 2. Applying pressure to the cap, move it forward until it is in place. You may hear a snap as it engages.

Make sure you have properly installed the cap by trying to move it rearward.

### 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.

A message appears in the information display when the remote control battery is low. See **Information Messages** (page 105).

### **Integrated Keyhead Transmitter**

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

Press the button to release the key before beginning the procedure.



- 1. Insert a screwdriver in the position shown and gently push the clip.
- 2. Press the clip down to release the battery cover.



3. Carefully remove the cover.



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

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



5. Remove the battery.

- 6. Install a new battery with the + facing up.
- 7. Replace the battery cover.

### **Intelligent Access Transmitter**

The remote control uses two coin-type three-volt lithium batteries CR2025 or equivalent.



E151796

1. Slide the release on the back of the remote control and pivot the cover off.



E153890

2. Insert a coin into the slot and twist to separate the housing.



- Remove the batteries.
- 4. Install new batteries with the + facing each other.

**Note:** Make sure to replace the label between the two batteries.

5. Reinstall the housing and cover.

#### **Car Finder**



Press the button twice within three seconds. The horn sounds and the direction indicators

flash. We recommend you use this method 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 switch the ignition on to

deactivate.

### Remote Start (If Equipped)

#### 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.



The remote start button is on the transmitter.

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

If your vehicle has automatic climate control, you can configure it to operate when you remote start your vehicle. See **Climate Control** (page 120). See **Information Displays** (page 96). A manual climate control system will run at the setting it was set to when you switched the vehicle 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 triggered.
- You disable the feature.
- The hood is open.
- The transmission is not in park (P).
- The vehicle battery voltage is too low.
- The service engine soon light is on.

## Remote Control Feedback (If Equipped)

An LED on the remote control provides status feedback of remote start or stop commands.

LED	Status
Solid green.	Remote start or extension successful.
Solid red.	Remote stop successful; vehicle off.
Blinking red.	Remote start or stop failed.
Blinking green.	Waiting for status update.

### Remote Starting the Vehicle

**Note:** You must press each button within three seconds of each other. Your vehicle will not remote start if you do not follow this sequence.



E138626

The tag with your transmitter details the starting procedure.

To remote start your vehicle:

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

The horn sounds 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 in the information display. See (page 96).

Note: If you remote start the vehicle with an integrated keyhead transmitter, you must switch the ignition on before driving your vehicle. With an intelligent access transmitter, you must press the STAPT/STOP button on the instrument

**START/STOP** button on the instrument panel once while applying the brake pedal before driving your vehicle.

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

The parking lamps will remain on and the vehicle will run for 5, 10 or 15 minutes, depending on the setting.

### Extending the Vehicle Run Time

Repeat Steps 1 and 2 with the vehicle 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 vehicle will continue to run now for a total of 15 minutes. You can extend the remote start up to a maximum of 35 minutes.

Wait at least five seconds before remote starting after a vehicle shutdown.

## Turning the Vehicle Off After Remote Starting



Press the button once. The vehicle and 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 vehicle.

You can disable or enable the remote start system through the information display. See (page 96).

### Memory Feature

If programmed to a pre-set position, the integrated keyhead transmitter or intelligent access key recalls the driver seat and exterior mirror positions when you unlock your vehicle. It also recalls the power steering column and pedal positions. See **Memory Function** (page 134).

# REPLACING A LOST KEY OR REMOTE CONTROL

Replacement keys or remote controls can be purchased from an authorized dealer. Authorized dealers can program remote controls for your vehicle. See **Passive Anti-Theft System** (page 68).

To re-program the passive anti-theft system see an authorized dealer.

## MyKey™

### PRINCIPLE OF OPERATION

MyKey allows you to program keys with restricted driving modes to promote good driving habits. All but one of the keys can be activated with these restricted modes.

Any keys that remain unprogrammed are referred to as administrator keys or admin keys. They can be used to:

- Create a MyKey.
- Program configurable MyKey settings.
- Clear all MyKey features.

When you have created a MyKey, you can access the following information by using the information display to determine:

- How many admin keys and MyKeys are programmed to your vehicle.
- The total distance your vehicle traveled with a MyKey.

**Note:** Switch the vehicle on to use the system.

**Note:** All MyKeys are programmed to the same settings. You cannot program them individually.

**Note:** For vehicles equipped with push-button start, when both a MyKey and an admin remote transmitter are present, the admin remote transmitter will be recognized by the vehicle while switching the vehicle on to start the vehicle.

### Non-configurable Settings

The following settings cannot be changed by an admin key user:

- Safety belt reminder. You cannot disable this feature. The audio system will mute when the front seat passengers' safety belts are not fastened.
- Early low fuel or charge. The low-fuel or low charge warning activates earlier, giving the MyKey user more time to refuel or recharge.
- Driver assist features, if equipped on your vehicle, are forced on: parking aid and Blind Spot Information System (BLIS) with cross traffic alert.
- Satellite radio adult content restrictions, if equipped on your vehicle.

### Configurable Settings

With an admin key, you can configure certain MyKey settings when you first create a MyKey and before you recycle the key or restart the vehicle. You can also change the settings afterward with an admin key.

A vehicle speed limit can be set.
Warnings will be shown in the display
followed by an audible tone when your
vehicle reaches the set speed. You
cannot override the set speed by fully
depressing the accelerator pedal or by
setting cruise control.

### WARNING

Δ

Do not set MyKey maximum speed limit to a limit that will prevent the driver from maintaining a safe speed

considering posted speed limits and prevailing road conditions. The driver is always responsible to drive in accordance with local laws and prevailing conditions. Failure to do so could result in accident or injury.

## **MyKey**<sup>TM</sup>

- Various vehicle speed minders can be set. Once you select a speed, it will be shown in the display, followed by an audible tone when the preselected vehicle speed is exceeded.
- Audio system maximum volume of 45%. A message will be shown in the display when you attempt to exceed the limited volume. Also, the speed-sensitive or compensated automatic volume control will be disabled.
- Always on setting. When this is selected, you will not be able to switch off Advance Trac or traction control, 911 Assist or Emergency Assist, or the do not disturb feature (if your vehicle is equipped with these features).

### **CREATING A MYKEY**

Use the information display to create a MyKey:

- I. Insert the key you want to program into the ignition. If your vehicle is equipped with a push-button start, place the intelligent access key fob into the backup slot. The location of your backup slot is in another chapter. See **Starting and Stopping the Engine** (page 146).
- 2. Switch the ignition on.
- 3. Access the main menu on the information display controls. Use the arrow keys to get to the following menu selections:

Message	Action and Description
Settings	Press the <b>OK</b> button or the right arrow key.
MyKey	Press the <b>OK</b> button or the right arrow key.
Create MyKey	Press the <b>OK</b> button or the right arrow key.

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.

MyKey is successfully created. Make sure you label it so you can distinguish it from the admin keys.

You can also program configurable settings for the key(s). See

# Programming/Changing Configurable Settings.

## Programming/Changing Configurable Settings

Use the information display to access your configurable MyKey settings.

- 1. Switch the ignition on using an admin key or fob.
- Access the main menu on the information display controls. Use the arrow keys to get to the following menu selections:

Message	Action and Description
Settings	Press the <b>OK</b> button or the right arrow key.
MyKey	Press the <b>OK</b> button or the right arrow key.

## **MyKey<sup>TM</sup>**

**Note:** You can clear or change your MyKey settings at any time during the same key cycle as you created the MyKey. Once you have switched the vehicle off, however, you will need an admin key to change or clear your MyKey settings.

### **CLEARING ALL MYKEYS**

You can clear or change your MyKey settings using the information display control on the steering wheel. See **Information Displays** (page 96).

Switch the ignition on using an admin key or fob.

## To clear all MyKeys of all MyKey settings, press the left arrow button to access the main menu and scroll to:

Message	Action and Description
Settings	Press the <b>OK</b> button.
MyKey	Press the <b>OK</b> button.
Clear MyKey	Press and hold the <b>OK</b> button until the following message displays.
All MyKeys	
Cleared	

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

## **МуКеу**<sup>тм</sup>

# CHECKING MYKEY SYSTEM STATUS

You can find information on programmed MyKey(s) using the information display control on the steering wheel. See **Information Displays** (page 96).

## To find information on programmed MyKey(s), press the left arrow button to access the main menu and scroll to:

Message	Description
Settings	Press the <b>OK</b> button.
MyKey	Press the <b>OK</b> button.
Select one of the follow	ving:
MyKey Dist.	Tracks the distance when drivers use a MyKey. The only way to delete the accumulated distance is by using an admin key to clear your MyKeys. If the distance does not accumulate as expected, then the intended user is not using the MyKey, or an admin key user recently cleared and then recreated a MyKey.
{0} MyKeys	Indicates the number of MyKeys programmed to your vehicle. Use this feature to detect how many MyKeys you have for your vehicle and determine when a MyKey has been deleted.
{0} Admin Keys	Indicates how many admin keys are programmed to your vehicle. Use this feature to determine how many unrestricted keys you have for your vehicle, and detect if an additional MyKey has been programmed.

## **МуКеу**<sup>тм</sup>

# 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, see an authorized dealer for a Ford-approved remote start system.

### **MYKEY TROUBLESHOOTING**

Condition	Potential Causes
I cannot create a MyKey.	The key or transmitter used to start the vehicle does not have admin privileges.
	The key or transmitter used to start the vehicle is the only admin key (there always has to be at least one admin key).
	Vehicles with keyless start: The keyless start transmitter is not placed in the backup position. See <b>Starting a Gasoline Engine</b> (page 147).
	SecuriLock passive anti-theft system is disabled or in unlimited mode.
I cannot program the configurable settings.	The key or transmitter used to start your vehicle does not have admin privileges.
	No MyKeys are created. See Creating a MyKey (page 55).
I cannot clear the MyKeys.	The key or transmitter used to start your vehicle does not have admin privileges.
	No MyKeys are created. See Creating a MyKey (page 55).
I lost the only admin key.	Purchase a new key from an authorized dealer.

## $MyKey^{TM}$

Condition	Potential Causes
I lost a key.	Program a spare key. See <b>Passive Anti-Theft System</b> (page 68).
MyKey distances do not accumulate.	<ul> <li>The MyKey user is not using the MyKey.</li> <li>An admin key holder cleared the MyKeys and created new MyKeys.</li> <li>The key system has been reset.</li> </ul>
No MyKey functions with the keyless entry transmitter.	<ul> <li>An admin transmitter is present at vehicle start.</li> <li>No MyKeys are created. See Creating a MyKey (page 55).</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**

The power door lock control is on the driver and front passenger door panels.



E138628

A Unlock

B Lock

### **Door Lock Indicator**

An LED on each door window trim will light when you lock the door. It will remain lit for up to 10 minutes after you switch off the ignition.

### **Switch Inhibitor**

When you electronically lock your vehicle, the power door lock switch will no longer operate after 20 seconds. You must unlock your vehicle with the remote control or keyless keypad, or switch the ignition on, to restore function to these switches. You can switch this feature on or off in the information display. See (page 96).

### **Rear Door Unlocking and Opening**

Pull the interior door release handle twice to unlock and open the rear door. The first pull unlocks the door and the second pull will unlatch the door.

### **Remote Control**

You can use the remote control at any time. The luggage compartment release button will only work when the vehicle speed is less than 5 mph (8 km/h).

## Unlocking the Doors (Two-Stage Unlock)

Press the button to unlock the driver door.

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 three seconds to change between driver door or all doors unlock mode. The turn signals will flash twice to indicate a change to the unlocking mode. Driver door unlock mode will only unlock the driver door when the unlock button is pressed once. All door unlock mode will unlock all doors with one press of the unlock button. The unlocking mode applies to the remote control, keyless entry keypad and intelligent access. You can also change the mode in the information display. See (page 96).

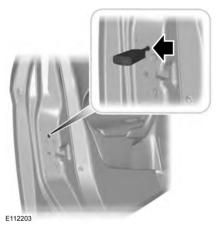
### **Locking the Doors**



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 sound and the turn signals will illuminate if all the doors and the luggage compartment are closed.

If the lock feature fails to operate, you can individually lock the doors using the remote control key blade in the position shown. See **Remote Control** (page 47). On the left-hand side, turn the key clock. On the right-hand side, turn the key counterclockwise to lock.



### Mislock

If any door or the luggage compartment is open, or if the hood is open on vehicles with an anti-theft alarm or remote start, the horn will sound twice and the lamps will not flash. You can enable or disable this feature in the information display. See **Information Displays** (page 96).

### Opening the Luggage Compartment



Press twice within three seconds to open the luggage compartment.

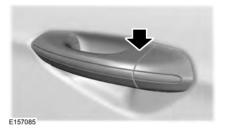
Make sure to close and latch the luggage compartment before driving your vehicle. An unlatched luggage compartment may cause objects to fall out or block your view.

# Activating Intelligent Access (If Equipped)

You must have the intelligent access key within 3 feet (1 meter) of your vehicle.

#### At a Door

Pull an exterior door handle to unlock and open the door. Make sure not to touch the lock sensor on top of the handle.



Touch the top of the door handle to lock your vehicle. There will be a brief delay before you can unlock your vehicle again.

**Note:** Keep the door handle surface clean to avoid issues with operation.

### At the Luggage Compartment



Press the exterior release button hidden above the license plate.

### Smart Unlocks For Integrated Keyhead Transmitter

This feature helps to prevent you from locking yourself out of your vehicle if your key is still in the ignition.

When you open one of the front doors and lock the vehicle with the power door lock control, all the doors will lock then unlock and the horn will sound twice if your key is still in the ignition.

You can still lock your vehicle with the key in the ignition. To do this, use the keyless entry keypad with the driver door closed, or press the lock button on the transmitter even if the doors are not closed.

If both front doors are closed, you can lock your vehicle by any method, regardless of whether the key is in the ignition or not.

# Smart Unlocks For Intelligent Access Keys (If Equipped)

This feature helps to prevent you from unintentionally locking your intelligent access key inside your vehicle's passenger compartment or rear cargo area.

When you electronically lock your vehicle (with any door open, vehicle in park and ignition off), the vehicle will search for an intelligent access key in the passenger compartment after you close the last door. If your vehicle finds a key, all of the doors will immediately unlock and the horn will sound twice, indicating that a key is inside.

You can override the smart unlock feature and intentionally lock the intelligent access key inside your vehicle. To do this, lock your vehicle after you have closed all the doors by:

- using the keyless entry keypad
- pressing the lock button on another intelligent access key
- touching the locking area on the handle with another intelligent access key in your hand.

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

- the ignition is on, or
- the ignition is off and your vehicle is not in P.

### **Auto Relock**

If you press the unlock button on the remote control and do not open a door within 45 seconds, your vehicle will lock and the alarm will arm. You can enable or disable this feature in the information display. See (page 96).

### **Autolock Feature**

The autolock feature will lock all the doors when:

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

The autolock feature repeats when:

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

#### **Autounlock Feature**

The autounlock feature will unlock all the doors when:

- the ignition is on, all the doors are closed, and your vehicle has been in motion at a speed greater than 12 mph (20 km/h);
- your vehicle comes to a stop and you switch the ignition off or to accessory;
   and
- you open the driver door within 10 minutes of switching the ignition off or to accessory.

**Note:** The doors will not autounlock if you electronically lock your vehicle after you switch the ignition off and before you open the driver door.

### **Enabling or Disabling**

**Note:** You can enable or disable the autolock and autounlock features independently of each other.

You can enable or disable these features in the information display or your authorized dealer can do it for you. See (page 96).

### **Illuminated Entry**

The interior lamps and select exterior lamps will illuminate when you unlock the doors with the remote entry system.

The illuminated entry system will turn off the lights if:

- the ignition is on,
- you press the remote control lock button, or
- · after 25 seconds of illumination.

The lights will not turn off if:

- you turn them on with the lamp control, or
- any door is open.

### **Illuminated Exit**

The interior lamps and select exterior lamps will illuminate when all doors are closed, you switch the ignition off and you remove the key from the ignition (integrated keyhead transmitter only).

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

- 25 seconds elapse
- you insert the key in the ignition (integrated keyhead transmitter only)
- you press the START/STOP button (intelligent access key only).

### **Battery Saver**

If you leave the courtesy lamps, dome lamps or headlamps on, the battery saver will shut them off 10 minutes after you switch the ignition off.

## Accessory Mode Battery Saver for Intelligent Access Keys (If Equipped)

If you leave your vehicle in the run ignition state, it will shut off once it detects a certain amount of battery drain or after 45 minutes.

## Luggage Compartment

### With the Remote Control



Press twice within three seconds to unlatch the trunk.

### From Outside Your Vehicle



Press the release button above the license plate to unlatch the trunk. Your vehicle must be unlocked or have an intelligent access transmitter within 3 feet (1 meter) of the trunk.

### KEYLESS ENTRY (If Equipped)

## SECURICODE™ KEYLESS ENTRY KEYPAD

The keypad is located near the driver window. It 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.

1.2	
3-4	
5.6	
7.8	
9.0	

F138637

You can use the keypad to:

- lock or unlock the doors
- release the trunk
- recall memory seat and mirror positions (if equipped)
- program and erase user codes
- · arm and disarm the anti-theft alarm.

You can operate the keypad with the factory-set 5-digit entry code. The code is located on the owner's wallet card in the glove box and is available from an authorized dealer. You can also create up to five 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.
- Press 1-2 on the keypad within five seconds.
- Enter your personal 5-digit code. You must enter each number within five seconds of each other.

4. Press **1-2** on the keypad to save personal code 1.

The doors will lock then unlock to confirm that programming was successful.

To program additional personal entry codes, repeat Steps 1-3, then for Step 4:

- press 3-4 to save personal code 2
- press 5-6 to save personal code 3
- press 7-8 to save personal code 4
- press 9-0 to save personal code 5.

You may also program a personal entry code through the MyFord Touch system (if equipped).

### 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.

## Recalling Memory Positions (If Equipped)

The programmed entry codes will recall driver memory positions as follows:

- Entry code 1 will recall driver 1 memory positions.
- Entry code 2 will recall driver 2 memory positions.
- Entry code 3 will recall driver 3 memory positions.

**Note:** Personal entry codes 4 and 5 will not recall memory positions.

### **Erasing a Personal Code**

- 1. Enter the factory-set 5-digit code.
- 2. Press and release **1-2** on the keypad within five seconds.
- Press and hold 1-2 for two seconds. You must do this 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 you enter the wrong code 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
- switching the ignition on
- unlocking your vehicle using intelligent access.

### **Unlocking and Locking the Doors**

#### To Unlock the Driver Door

Enter the factory-set 5-digit code or your personal code. You must press each number within five seconds of each other. The interior lamps will illuminate.

**Note:** All doors will unlock if you enable the all-door unlocking mode. See **Locking and Unlocking** (page 60).

### To Unlock All Doors

Enter the factory-set code or your personal code, then press **3·4** within five seconds.

### To Lock All Doors

Press and hold **7-8** and **9-0** at the same time (with the driver door closed). You do not need to enter the keypad code first.

#### To Release the Trunk

Enter the factory-set code or your personal code, then press **5·6** within five seconds.

### **Displaying the Factory Set Code**

### With Integrated Kevhead Transmitters

**Note:** You will need to have two programmed passive anti-theft keys for this procedure.

To display the factory-set code in the information display:

- Insert a key into the ignition and switch the ignition on for a few seconds.
- 2. Switch the ignition off and remove the key.
- 3. Insert the second key into the ignition and switch the ignition on.

The factory-set code will display for a few seconds.

**Note:** The code may not display until after any other warning messages first display.

### With Intelligent Access Kevs

**Note:** You will need to have two programmed intelligent access keys for this procedure.

To display the factory-set code in the information display:



E147165

- 1. Place the first programmed key in the backup slot inside the center console. The key ring must be at the top with the buttons facing toward the rear.
- 2. Press the **START/STOP** button once and wait a few seconds.

- 3. Press the **START/STOP** button again and remove the kev.
- 4. Insert the second programmed key into the backup slot, then press the START/STOP button

The factory-set code will appear in the information display for a few seconds.

**Note:** The code may not display until after any other warning messages first display.

### INTERIOR LUGGAGE COMPARTMENT RELEASE

### WARNINGS

Keep vehicle doors and luggage compartment locked and keep keys and remote transmitters out of a

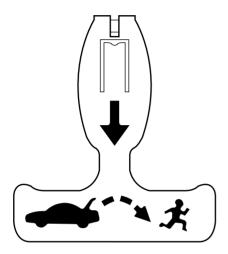
child's reach. Unsupervised children could lock themselves in the trunk and risk injury. Children should be taught not to play in vehicles

Do not leave children 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



### E144403

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.

## Security

# 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 problems if they are too close to the key when starting your vehicle. Prevent these objects from touching the coded key while starting your vehicle. Switch the ignition off, move all objects on the key chain away from the coded key and restart your vehicle if a problem occurs.

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

### SecuriLock®

The system helps prevent your vehicle from starting unless you use a coded key programmed to your vehicle. Using the wrong key may prevent your vehicle from starting. A message may appear in the information display.

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

### **Automatic Arming**

Your vehicle arms immediately after switching the ignition off.

### **Automatic Disarming**

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

### Replacement Keys

**Note:** Your vehicle comes equipped with two integrated keyhead transmitters or two intelligent access keys.

The integrated keyhead transmitter functions as a programmed ignition key that operates all the locks and starts your vehicle, as well as a remote control.

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

If your programmed transmitters or standard SecuriLock coded keys (integrated keyhead transmitters only) are lost or stolen and you do not have an extra coded key, you will need to have your vehicle towed to an authorized dealer. You need to erase the key codes from your vehicle and program new coded keys.

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

## Programming a Spare Integrated Keyhead Transmitter

**Note:** You can program a maximum of eight coded keys to your vehicle. All eight can be integrated keyhead transmitters.

You can program your own integrated keyhead transmitter or standard SecuriLock coded keys to your vehicle. This procedure will program both the vehicle immobilizer keycode and the remote entry portion of the remote control to your vehicle.

Only use integrated keyhead transmitters or standard SecuriLock keys.

## Security

You must have two previously programmed coded keys and the new unprogrammed key readily accessible. See an authorized dealer to have the spare key programmed if two previously programmed coded keys are not available.

Read and understand the entire procedure before you begin.

- 1. Insert the first previously programmed coded key into the ignition.
- 2. Switch the ignition from off to on. Keep the ignition on for at least three seconds, but no more than 10 seconds.
- 3. Switch the ignition off and remove the first coded key from the ignition.
- After three seconds but within 10 seconds of switching the ignition off, insert the second previously coded key into the ignition.
- Switch the ignition from off to on. Keep the ignition on for at least three seconds, but no more than 10 seconds.
- 6. Switch the ignition off and remove the second previously programmed coded key from the ignition.
- After three seconds but within 10 seconds of switching the ignition off and removing the previously programmed coded key, insert the new unprogrammed key into the ignition.
- 8. Switch the ignition from off to on. Keep the ignition on for at least six seconds.
- 9. Remove the newly programmed coded key from the ignition.

If the key has been successfully programmed it will start your vehicle and operate the remote entry system (if the new key is an integrated keyhead transmitter).

If programming was not successful, wait 10 seconds and repeat Steps 1 through 8. If you are still unsuccessful, take your vehicle to an authorized dealer.

## Programming a Spare Intelligent Access Key

**Note:** You can program a maximum for four intelligent access keys to your vehicle.

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

Make sure that your vehicle is off before beginning this procedure. Make sure that you close all the doors 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 you perform any steps out of sequence.

Read and understand the entire procedure before you begin.



E147165

- Place a programmed intelligent access key in the backup slot in the center console. The key ring must be at the top with the buttons facing toward the rear.
- 2. Wait 5 seconds, and then press the **START/STOP** button.
- 3. Remove the intelligent access key.

## Security

- Within 10 seconds, place a second programmed intelligent access key in the backup slot and press the START/STOP button.
- 5. Wait 5 seconds, and then press the **START/STOP** button again.
- 6. Remove the intelligent access key.
- Wait 5 seconds, then place the unprogrammed intelligent access key in the backup slot and press the START/STOP button.

Programming is now complete. Verify the remote control functions operate and your vehicle starts with the new intelligent access key.

If programming was not successful, wait 10 seconds and repeat Steps 1 through 7. If you are still unsuccessful, take your vehicle to your authorized dealer.

**ANTI-THEFT ALARM** 

The system will warn you of an unauthorized entry to your vehicle. It will be triggered if any door, the luggage compartment or the hood is opened without using the key, remote control or keyless entry keypad.

The direction indicators will flash and the horn will sound if unauthorized entry is attempted while the alarm is armed.

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

## **Arming the Alarm**

The alarm is ready to arm when there is not a key in your vehicle. Electronically lock your vehicle to arm the alarm.

## **Disarming the Alarm**

Disarm the alarm by any of the following actions:

- Unlock the doors or luggage compartment with the remote control or keyless entry keypad.
- Switch your vehicle on or start your vehicle.
- Use a key in the driver door to unlock your vehicle, then switch your vehicle on within 12 seconds.

**Note:** Pressing the panic button on the remote control will stop the horn and signal indicators, but will not disarm the system.

# **Steering Wheel**

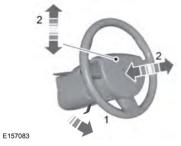
# ADJUSTING THE STEERING WHEEL

#### WARNING

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

**Note:** Make sure that you are sitting in the correct position. See **Sitting in the Correct Position** (page 130).



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

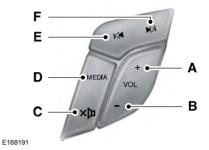


3. Lock the steering column.

## AUDIO CONTROL (If Equipped)

Select the required source on the audio unit.

Operate the following functions with the control:



A Volume up.

B Volume down.

C Mute.

D Media.

E Seek down or previous.

F Seek up or next.

#### **MEDIA**

Press repeatedly to scroll through available audio sources.

## Seek, Next or Previous

Press the seek button to:

- tune the radio to the next or previous stored preset.
- play the next or the previous track.

Press and hold the seek button to:

- tune the radio to the next station up or down the frequency band.
- seek through a track.

# **Steering Wheel**

## VOICE CONTROL (If Equipped)



E168194

Press the button to select or deselect voice control. See **SYNC™** (page 341).

### **CRUISE CONTROL**

Type 1



## Type 2



See Cruise Control (page 188).

# INFORMATION DISPLAY CONTROL



See Information Displays (page 96).

## **Steering Wheel**

# Information Display Control Features



E144811

This control functions the same as the center control on the faceplate. See **General Information** (page 327).

Use this control to adjust the right side of the information display. Navigate through the screen and press **OK** to select.

## **HEATED STEERING WHEEL (1f**

Equipped)

See MyFord Touch™ (page 386).

## **Wipers and Washers**

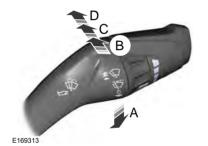
#### **WINDSHIELD WIPERS**

**Note:** Fully defrost the windshield before you switch the windshield wipers on.

**Note:** *Make sure you switch the windshield wipers off before entering a car wash.* 

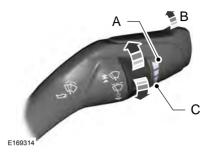
**Note:** Clean the windshield and wiper blades if they begin to leave streaks or smears. If that does not resolve the issue, install new wiper blades.

**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 washers before wiping a dry windshield.



- A Single wipe
- B Intermittent wipe
- C Normal wipe
- D High speed wipe

## **Intermittent Wipe**



- A Shortest wipe interval
- B Intermittent wipe
- C Longest wipe interval

Use the rotary control to adjust the intermittent wipe interval.

## **Speed Dependent Wipers**

When your vehicle speed increases, the interval between wipes decreases.

## AUTOWIPERS (If Equipped)

**Note:** Fully defrost the windshield before switching on the windshield wipers.

**Note:** Make sure you switch off the windshield wipers before entering a car wash.

**Note:** Clean the windshield and wiper blades if they begin to leave streaks or smears. If that does not resolve the issue, install new wiper blades.

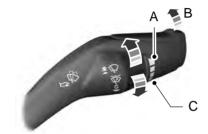
**Note:** If you switch autolamps on in conjunction with autowipers, your low beam headlamps will illuminate automatically when the rain sensor activates the windshield wipers continuously.

# **Wipers and Washers**

**Note:** Wet or winter driving conditions with ice, snow or salty road mist can cause inconsistent and unexpected wiping or smearing.

In these conditions, you can do the following to help keep your windshield clear:

- Lower the sensitivity of the autowipers to reduce the amount of smearing.
- · Switch to normal or high-speed wipe.
- Switch the autowipers off.



E169315

- A Highest sensitivity
- B On
- C Lowest sensitivity

The autowipers feature uses a rain sensor. You will find it in the area around the interior mirror. The rain sensor monitors the amount of moisture on the windshield and automatically turns on the wipers. It will adjust the wiper speed by the amount of moisture that the sensor detects on the windshield.

**Note:** This autowiper feature is automatically set to on and remains on until you switch it off in the information display. You can also switch the feature back on at any time. See (page 96).

Use the rotary control to adjust the sensitivity of the rain sensor. Set the control to low sensitivity, and the wipers will turn on when the rain sensor detects a large amount of moisture on the windshield. Set the control to high sensitivity, and the wipers will turn on when the rain sensor detects a small amount of moisture on the windshield.

**Note:** When you set the wiper system to intermittent wipe and the autowiper system is on, the autowiper sensitivity setting adjusts the wiper speed according to the moisture on the windshield only. Use the wiper lever to wipe the windshield on-demand.

Keep the outside of the windshield clean. The rain sensor is very sensitive. If the area around the mirror is dirty, then the wipers may operate if dirt, mist or insects hit the windshield.

## WINDSHIELD WASHERS

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



E169316

To operate the washers and spray the windshield, pull the lever toward you.

# **Wipers and Washers**

A wipe will occur a few seconds after washing to clear any remaining washer fluid. This feature can be switched on or off in the information display. See **General Information** (page 96).

#### **GENERAL INFORMATION**

#### Condensation in Lamp Assemblies

Exterior lamps have vents to accommodate normal changes in air pressure.

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

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

Examples of acceptable condensation are:

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

Examples of unacceptable condensation are:

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

If you see any unacceptable condensation, have your vehicle checked by an authorized dealer.

#### LIGHTING CONTROL



E142449

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

#### **High Beams**



#### F162679

Push the lever forward to switch the high beams on.

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

## **Headlamp Flasher**



E162680

Pull the lever toward you slightly and release it to flash the headlamps.

#### AUTOLAMPS (If Equipped)

#### **WARNING**

The autolamps switch position may not activate the headlamps in all low visibility conditions, such as daytime fog. Always ensure that your headlamps

fog. Always ensure that your headlamps are switched to auto or on, as appropriate, during all low visibility conditions. Failure to do so may result in a collision.



E142451

When the lighting control is in the autolamps position, the headlamps automatically turn on in low light situations or when the wipers activate.

If equipped, the following also activate when the lighting control is in the autolamps position and you switch them on in the information display:

- Configurable daytime running lamps.
- Automatic high beam control.
- Adaptive headlamp control.

The headlamps remain on for a period of time after you switch the ignition off. Use the information display controls to adjust the period of time that the headlamps remain on. See **Information Displays** (page 96).

**Note:** With the headlamps in the autolamps position, you cannot switch the high beam headlamps on until the autolamps system turns the low beam headlamps on.

## Windshield Wiper Activated Headlamps

The windshield wiper activated headlamps turn on within 10 seconds when you switch the windshield wipers on and the lighting control is in the autolamps position. They turn off approximately 60 seconds after you switch the windshield wipers off.

The headlamps will not turn on by wiper activation:

- During a mist wipe.
- When the wipers are on to clear washer fluid during a wash condition.
- If the wipers are in intermittent mode.

**Note:** If you switch autolamps and autowipers on, the headlamps will automatically turn on when the windshield wipers continuously operate.

# INSTRUMENT LIGHTING DIMMER

**Note:** If you disconnect the battery or it becomes discharged, the illuminated components will switch to the maximum setting.

## **Vehicles With Front Fog Lamps**



E132712

Press repeatedly or press and hold until you reach the desired level.

## **Vehicles Without Front Fog Lamps**



E165366

- A Press repeatedly or press and hold to dim.
- B Press repeatedly or press and hold to brighten.

#### **HEADLAMP EXIT DELAY**

After you switch the ignition off, you can switch the headlamps on by pulling the direction indicator lever toward you. You will hear a short tone. The headlamps will switch off automatically after three minutes with any door open or 30 seconds after the last door has been closed. You can cancel this feature by pulling the direction indicator toward you again or switching the ignition on.

### **DAYTIME RUNNING LAMPS (1f**

Equipped)

#### WARNING

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The daytime running lamps system does not activate the rear lamps and may not provide adequate lighting

during low visibility driving conditions. Also, the autolamps switch position may not activate the headlamps in all low visibility conditions, such as daytime fog. Make sure the headlamps are switched to auto or on, as appropriate, during all low visibility conditions. Failure to do so may result in a crash.

### Type 1 - Conventional (Non-Configurable)

The daytime running lamps turn on when:

- 1. The ignition is switched to the on position.
- The transmission is not in park (P) for vehicles with automatic transmissions or the parking brake is released for vehicles with manual transmissions.
- 3. The lighting control is in the off, parking lamp or autolamps positions.
- 4. The headlamps are off.

## Type 2 - Configurable

Switch the daytime running lamps on or off using the information display controls. See **Information Displays** (page 96).

The daytime running lamps turn on when:

- They are switched on in the information display. See **Information Displays** (page 96).
- 2. The ignition is switched to the on position.

- The transmission is not in park (P) for vehicles with automatic transmissions or the parking brake is released for vehicles with manual transmissions.
- 4. The lighting control is in the autolamps position.
- 5. The headlamps are off.

The other lighting control switch positions do not activate the daytime running lamps, and you can use them to temporarily override autolamp control.

When switched off in the information display, the daytime running lamps are off in all lighting control switch positions.

# 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 the headlights of an approaching vehicle, the tail lamps of the preceding vehicle or street lighting, the system will turn off the high beams before they distract other drivers. The low beams remain on.

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

**Note:** If the system detects a blockage, for example bird droppings, bug splatter, snow or ice, the system will go into low beam mode until you clear the blockage. 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 performance of the automatic high beam system. However, in cold or inclement weather conditions, you will notice a decrease in the availability of the high beam system, especially at start up. If you want to change the beam state independently of the system, you may switch the high beams on or off using the multifunction switch. Automatic control will resume when conditions are correct.

**Note:** Modification of the vehicle ride height such as using much larger tires, may degrade feature performance.

A camera sensor, centrally mounted behind the windshield of your vehicle, continuously monitors 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
- · there is no traffic in front of the vehicle
- the vehicle speed is greater than approximately 32 mph (52 km/h).

The high beams will switch off if:

- the system detects the headlamps of an approaching vehicle or the tail lamps of a preceding vehicle.
- vehicle speed falls below approximately 27 mph (44 km/h)
- the ambient light level is high enough that high beams are not required
- the system detects severe rain, snow or fog
- the camera is blocked.

## **Activating the System**

Switch on the system using the information display and autolamps. See **Information Displays** (page 96). See **Autolamps** (page 78).



Switch the lighting control to the autolamps position.

## **Manually Overriding the System**



E169254

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

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

#### FRONT FOG LAMPS (If Equipped)



E142453

Press the control to switch the fog lamps on or off.

You can switch the fog lamps on when the lighting control is in any position except Off and the high beams are not on.

#### **DIRECTION INDICATORS**



F169255

Push the lever up or down to use the direction indicators.

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

## **INTERIOR LAMPS**

The lamps will turn on when you have met one of the following conditions:

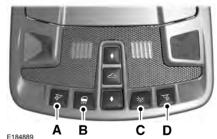
- You open any door.
- · You press a remote control button.
- You press button A on the front interior lamp.

#### **Front Interior Lamp**

**Note:** The front interior lamp buttons are on the overhead console. The exact location of each button on the overhead console depends upon which roof, sunroof, and window shade features are equipped on the vehicle.

**Note:** Press button B to switch the door function off when you open any door. The indicator lamp will light amber when the door function is off and you open a door, the courtesy and door lamps will stay off. Press button B again to switch the door function back on. The indicator lamp will light blue when the door function is on. When the door function is on and you open a door, the courtesy and door lamps will light.

#### Type 1



- A Individual dome lamp.
- B Door function button.
- C All lamps off button.
- D Individual dome lamp.

Type 2



E192153

- A All lamps on button.
- B Door function button.
- C All lamps off button.
- D Individual dome lamps.

You can switch individual map lamps on independently by pressing a map lens.

## Rear Interior Lamp (If Equipped)



E169470

You can switch dome lamps on by pressing the button.

## AMBIENT LIGHTING (If Equipped)

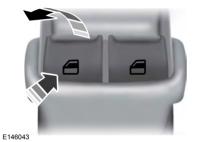
The ambient lighting system is adjusted with the touchscreen system. See **MyFord Touch<sup>TM</sup>** (page 386).

#### **POWER WINDOWS**

#### WARNINGS

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

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.



**Note:** You may hear a pulsing noise when just one of the windows is open. Lower the opposite window slightly to reduce this noise.

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

#### **One-Touch Down**

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

## **One-Touch Up**

Lift the switch fully and release it. Press or lift it again to stop the window.

#### **Bounce-Back**

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

#### **Overriding the Bounce-Back Feature**

#### **WARNING**

When you override the bounce-back feature the window will not reverse if it detects an obstacle. Take care when closing the windows to avoid personal injury or damage to your vehicle.

Pull up the window switch and hold within a few seconds of the window reaching the bounce-back position. The window travels up with no bounce-back protection. The window stops if you release the switch before the window closes fully.

#### Window Lock



F144072

Press the control to lock or unlock the rear window controls. It will illuminate when you lock the rear window controls.

## **Accessory Delay**

You can use the window switches for several minutes after you switch the ignition off or until you open either front door.

## **GLOBAL OPENING AND CLOSING**

You can use the remote control to operate the windows with the ignition off.

**Note:** You can enable or disable this feature in the information display or see an authorized dealer. See (page 96).

**Note:** To operate this feature, accessory

delay must not be active.

### **Opening the Windows**

You can only open the windows for a short time after you unlock your vehicle with the remote control. After you unlock your vehicle, press and hold the remote control unlock button to open the windows and vent the moonroof. Release the button once movement starts. Press the lock or unlock button to stop movement.

#### Closing the Windows

#### WARNING

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

To close the windows and moonroof, press and hold the remote control lock button. Release the button once movement starts. Press the lock or unlock button to stop movement.

## **EXTERIOR MIRRORS**

#### **Power Exterior Mirrors**

#### WARNING



Do not adjust the mirrors when your vehicle is moving.



E144073

- Left-hand mirror Α
- R Adjustment control
- C Right-hand mirror

To adjust a mirror:

- Select the mirror you want to adjust. The control will illuminate.
- 2. Adjust the position of the mirror.
- 3. Press the mirror switch again.

## **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 Mirrors (If Equipped)

See **Heated Windows and Mirrors** (page 128).

#### Memory Mirrors (If Equipped)

You can save and recall the mirror positions through the memory function. See Memory Function (page 134).

## Auto-Dimming Feature (If Equipped)

The driver exterior mirror automatically dims when the interior auto-dimming mirror turns on.

## Signal Indicator Mirrors (If Equipped)

The outer portion of the appropriate mirror housing will blink when you switch on the turn signal.

#### Puddle Lamps (If Equipped)

The lamps on the bottom part of the mirror housing light when you use your transmitter to unlock the doors or when you open a door.

#### **Integrated Blind Spot Mirrors**

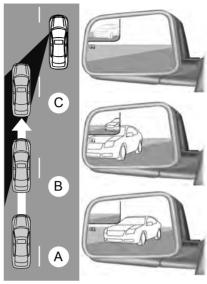
#### WARNING

 $\Lambda$ 

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 can increase your visibility along the side of your vehicle.

Check the main mirror first before a lane change, then check the blind spot mirror. If the blind spot mirror does not show any vehicles in its viewing area and the traffic in the adjacent lane is at a safe distance, signal that you intend to change lanes. Glance over your shoulder to verify traffic is clear and carefully change lanes.



E138665

The image of the approaching vehicle 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). The 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 Monitor (If Equipped)

See **Blind Spot Information System** (page 201).

#### 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

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

### Auto-Dimming Mirror (If Equipped)

**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**



Rotate the sun visor toward the side window and extend it rearward for extra shade.

## **Illuminated Vanity Mirror**



F162197

Lift the cover to switch the lamp on.

#### MOONROOF (If Equipped)

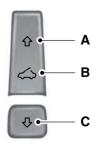
#### WARNINGS

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

When closing the moonroof, you should verify that it is free of obstructions and make sure that children and pets are not in the proximity of the roof opening.

The sliding shade can be manually opened or closed when the moonroof is closed. Pull the shade toward the front of the vehicle to close it.

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



#### E144499

- A Open
- B Vent
- C Close

## Opening and Closing the Moonroof

Touch (A) to open the moonroof. It will stop short of the fully opened position.

**Note:** This position helps to reduce wind noise or rumbling which may happen with the moonroof fully open. Touch (A) again to fully open the moonroof.

Touch (C) to close the moonroof.

#### **Bounce-Back**

The moonroof will stop automatically and reverse some distance if an obstacle is detected while closing.

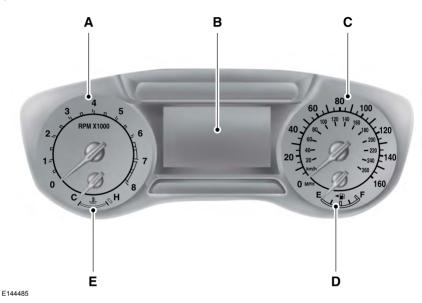
Touch and hold (C) within two seconds of a bounce-back event to override this function.

## **Venting the Moonroof**

Touch (B) to vent the moonroof. Touch (C) to close it.

#### **GAUGES**

## Type 1 and 2



- A Tachometer
- B Information Display (Type 2 shown Type 1 similar)
- C Speedometer
- D Fuel Gauge
- E Engine Coolant Temperature Gauge

## **Information Display**

#### Odometer

Located in the bottom of the information display Registers the accumulated distance your vehicle has traveled.

#### **Compass**

Displays the vehicle's heading direction.

#### **Trip Computer**

See (page 96).

#### **Vehicle Settings and Personalization**

See (page 96).

# Engine Coolant Temperature Gauge

Shows the temperature of the engine coolant. At normal operating temperature, the needle will remain in the center section. If the needle enters the red section, the engine is overheating. Stop the engine, switch the ignition off and determine the cause once the engine has cooled down.

**Note:** Do not restart the engine until the cause of overheating has been resolved.

#### **WARNING**



Never remove the coolant reservoir cap while the engine is running or hot.

#### **Fuel Gauge**

**Note:** The fuel gauge may vary slightly when your vehicle is moving or on a gradient.

Switch the ignition on. The fuel gauge will indicate approximately how much fuel is left in the fuel tank. The arrow adjacent to the fuel pump symbol indicates on which side of your vehicle the fuel filler door is located.

The needle should move toward F when you refuel your vehicle. If the needle points to E after adding fuel, this indicates your vehicle needs service soon.

After refueling some variability in needle position is normal:

- It may take a short time for the needle to reach full after leaving the gas station. This is normal and depends upon the slope of pavement at the gas station.
- The fuel amount dispensed into the tank is a little less or more than the gauge indicated. This is normal and depends upon the slope of pavement at the gas station.
- If the gas station nozzle shuts off before the tank is full, try a different gas pump nozzle.
- There is a small reserve left in the tank when the fuel gauge reaches empty.

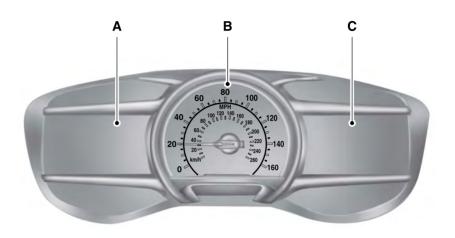
#### Low Fuel Reminder

A low fuel reminder triggers when the distance to empty reaches about 50 miles (80 km) to empty.

#### Variations:

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

Type 3



#### E144486

- A Left Information Display
- B Speedometer
- C Right Information Display See (page 96).

# Left Information Display Odometer

Located in the bottom of the information display Registers the accumulated distance your vehicle has traveled.

#### **Trip Computer**

See (page 96).

### **Vehicle Settings and Personalization**

See (page 96).

# WARNING LAMPS AND INDICATORS

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

**Note:** Some warning indicators appear in the information display and function the same as a warning lamp but do not display when you start your vehicle.

#### Adaptive Cruise Control (If Equipped)



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

is in: See Using Cruise Control (page 188).

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.

#### **Anti-Lock Braking System**



If it illuminates when you are driving, this indicates a malfunction. You will continue

to have the normal braking system (without ABS) unless the brake system warning lamp is also illuminated. Have the system checked by your authorized dealer.

## Auto Start-stop (If Equipped)



It will illuminate to inform you when the engine shuts down or in conjunction with a message.

## **Battery**



If it illuminates while driving, it indicates a malfunction. Switch off all unnecessary electrical

equipment and have the system checked by your authorized dealer immediately.

#### Blind Spot Monitor (If Equipped)



It will illuminate when you switch this feature off or in conjunction with a message. See **Blind Spot** 

Information System (page 201). See Information Messages (page 105).

### **Brake System**



It will illuminate when you engage the parking brake with the ignition on.

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 your vehicle with the warning lamp on is dangerous. A significant decrease in braking performance

may occur. It will take you longer to stop your vehicle. Have your vehicle checked by vour authorized dealer immediately. Driving extended distances with the parking brake engaged can cause brake failure and the risk of personal injury.

#### Cruise Control (If Equipped)



It will illuminate when you switch this feature on.

#### **Direction Indicator**



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. See Changing a Bulb (page 261).

#### **Door Ajar**



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

#### **Electric Park Brake**



It will illuminate when the electric parking brake has a malfunction.

#### **Engine Coolant Temperature**



Illuminates when the engine coolant temperature is high. Stop the vehicle as soon as

possible, switch off the engine and let cool.

### **Engine Oil**



If it illuminates with the engine running or when you are driving, this indicates a malfunction.

Stop your vehicle as soon as it is safe to do so and switch the engine off. Check the engine oil level. See **Engine Oil Check** (page 251).

**Note:** Do not resume your journey if it illuminates despite the level being correct. Have the system checked by your authorized dealer immediately.

## **Fasten Safety Belt**



It will illuminate and a chime will sound to remind you to fasten your safety belt. See **Safety** 

Belt Minder (page 35).

## **Front Airbag**



If it fails to illuminate when you start your vehicle, continues to flash or remains on, it indicates

a malfunction. Have the system checked by your authorized dealer.

#### Front Fog Lamps (If Equipped)



It will illuminate when you switch the front fog lamps 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 Beam**



It will illuminate when you switch the high beam headlamps on. It will flash when you use the

headlamp flasher.

## **Hood Ajar**



Displays when the ignition is on and the hood is not completely closed.

## Lane Keeping Aid (If Equipped)



Illuminates when the lane keeping system is activated.

## **Low Fuel Level**



possible.

It will illuminate when the fuel level is low or the fuel tank is nearly empty. Refuel as soon as

## **Low Tire Pressure Warning**



It will illuminate when your tire pressure is low. If the lamp remains on with the engine running or when driving, check

your tire pressure as soon as possible.

It will also illuminate momentarily when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked by your authorized dealer.

## **Parking Lamps**



It will illuminate when you switch the parking lamps on.

#### **Powertrain Fault**



Illuminates when a powertrain or an AWD fault has been detected. Contact your

authorized dealer as soon as possible.

#### Service Engine Soon



If the service engine soon indicator light stays illuminated after the engine is started, it

indicates that the On Board Diagnostics system (OBD) has detected a malfunction of the vehicle emissions control system. Refer to On board diagnostics (OBD) in the Fuel and Refueling chapter for more information about having your vehicle serviced. See Emission Control System (page 160).

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.

#### 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. Have an authorized dealer service your vehicle immediately.

The service engine soon indicator light illuminates when the ignition is first turned on prior to engine start 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 Emission Control System (page 160).

#### Stability Control



It will flash when the system is active. If it remains illuminated or does not illuminate when you

switch the ignition on, this indicates a malfunction. During a malfunction the system will switch off. Have the system checked by your authorized dealer immediately. See **Using Stability** Control (page 178).

## Stability Control Off



It will illuminate when you switch the system off. It will go out when you switch the system

back on or when you switch the ignition off. See **Using Stability Control** (page 178).

#### Trunk Ajar



Displays when the ignition is on and the trunk is not completely closed.

# AUDIBLE WARNINGS AND INDICATORS

## **Key in Ignition Warning Chime**

Sounds when you open the driver's door and you have left the key in the ignition.

## Keyless Warning Alert (If Equipped)

Sounds the horn twice when you exit your vehicle with the intelligent access key, after the last door is closed and your keyless vehicle is in RUN, indicating your vehicle is still on.

## **Headlamps On Warning Chime**

Sounds when you remove the key from the ignition and open the driver's door and you have left the headlamps or parking lamps on.

## 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 an authorized dealer immediately.

#### **GENERAL INFORMATION**

#### WARNING

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

**Note:** Your vehicle may or may not be equipped with all the messages listed in this chapter. Your vehicle will not display messages of systems it is not equipped with.

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 (Type 1 and Type 2)



- 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 and hold the left arrow button at any time to return to the main menu display (escape button).
- Press the OK button to choose and confirm settings or messages.

#### Menu

You can access the menu using the information display control.

**Note:** Some options may appear slightly different or not at all if the items are optional.

Trip 1 and 2		
Distance to E		
Trip Odometer		
Trip Timer		
Fuel Used		
Average Fuel		

Trip 1 and 2
Outside Temperature
All Values <sup>1</sup>

<sup>&</sup>lt;sup>1</sup>Type 2

- Distance to E Shows the approximate distance your vehicle can travel before running out of fuel.
- Trip Odometer Registers the distance of individual journeys.
- Trip Timer The timer stops when you turn your vehicle off and restarts when you restart your vehicle.
- Fuel Used Shows the amount of fuel used for a given trip.
- Average Fuel Shows the average fuel economy for a given trip.
- · Outside Temperature Shows the outside air temperature.
- · All Values Shows the Distance to E, Trip Odometer, Trip Timer and Average Fuel.

**Note:** Press and hold **OK** on the current screen to reset the respective trip, distance, time and fuel information.

Fuel Economy
Distance to Empty
Inst Fuel Econ Avg MPG <sup>1</sup>
Long Term Fuel Economy
Fuel History 1
Average Fuel

Fuel Economy
All Values <sup>1</sup>
Auto StartStop

## <sup>1</sup>Type 2

- Distance to Empty Shows the approximate distance your vehicle can travel before running out of fuel.
- Inst Fuel Economy Shows a visual graph of your instantaneous fuel economy along with your Avg MPG since the function was last reset.
- Long Term Fuel Economy Shows your long term fuel economy.
- Fuel History Shows a bar chart of your fuel history.
- Average Fuel Shows the average fuel economy for a given trip.
- · All Values Shows all fuel economy values (DTE, Inst Fuel Econ, Avg Fuel).
- Auto StartStop Available Auto Start-Stop messaging will provide details about what
  is happening with your system. See Information Messages (page 105).

**Note:** You can reset your average fuel economy by pressing and holding the OK button on the left hand steering wheel controls.

Police A sales				
Driver Assist				
Traction Ctrl - check enabled or uncheck disabled				
Blind Spot - check enabled or uncheck disabled 1				
Cross Traffic - check enabled or uncheck disabled <sup>1</sup>				
Cruise Control 1	ruise Control <sup>1</sup> Adaptive or Normal			
Driver Alert 1	Driver Alert or Driver Alert Display			
Hill Start Assist - check enabled or uncheck disabled				
Intelligent AWD 1				
Lane Keeping System 1	Mode	Alert, Aid or Both		
	Intensity	High, Normal or Low		
Pre-Collision	Alert Sensitivity High, Normal or Lo			
Active Braking - check enabled or uncheck disabled				

Driver Assist			
Front Park Aid - check enabled or uncheck disabled			
Rear Park Aid - check enabled or uncheck disabled			
Tire Monitor Tire Pressure			

<sup>&</sup>lt;sup>1</sup>Type 2

	Settings				
Vehicle	Auto Engine Off - check enabled or uncheck disabled				
	DTE Calcula- tion	Normal or Towing			
	Easy Entry/Exit - check enabled or uncheck disabled				
	Lighting	Autolamp delay	Off or XX Seconds		
	Locks	Autolock - check enabled or uncheck disabled			
		Autounlock - check enabled or uncheck disabled			
		Relock - check enabled or uncheck disabled			
		Mislock - check enabled or uncheck disabled			
		Remote Unlock	All Doors or Driver's Door		
		Switches inhibit - check enabled or uncheck disabled			
	Oil Life Rest	oil Life XXX% - Hold OK to Reset			
	Remote Start	Climate Control	Auto or Last Settings		
		Driver Seat or Seats and Wheel	Automatic or Off		
		Duration	5, 10 or 15 minutes		
		System - check enabled or uncheck disabled			
	Windows	Remote Open or Remote Close			
	Wipers	Courtesy Wipe or Rain Sensing			
MyKey	Create MyKey	Hold OK to Create MyKey			

		Settings	
	911 Assist	Always On or User Selectable	
	Do Not Disturb	On or Off	
	Traction Control	Always On or User Selectable	
	MAX Speed	Choose desired speed or Off	
	Speed Minder	Choose desired speed or Off	
	Volume Limiter - check enabled or uncheck disabled		
	Clear MyKeys	Hold OK to Clear All MyKeys	
Display	Distance	Miles & Gallons, L/100km or km/L	
Setup	Temper- ature	Fahrenheit (°F) or Celsius (°C)	
	Tire Pres- sure	psi, kPa or bar	
	Language	Choose your applicable setting	

<sup>&</sup>lt;sup>1</sup>Type 2

# Information Display Controls (Type 3)



E144638

- 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 and hold the left arrow button at any time to return to the main menu display (escape button).
- Press the **OK** button to choose and confirm settings or 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
- Driver Assist
- Settings

Scroll up or 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	Х	Х	-	-
Fuel gauge	Х	Х	Х	Х
Round tachometer	-	-	Х	Х
Vertical tachometer	-	Х	-	-
Engine coolant temp gauge	-	-	-	Х
Intelligent AWD - AWD Gauge				

- Intelligent AVVD AVVD Odoge
- · XXX mi (km) to empty: Shows the approximate distance the vehicle will travel.
- 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.
- 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.

#### Trip 1 & 2

You can access the menu using the information display control.

**Note:** Some options may appear slightly different or not at all if the items are optional.

#### Tripland 2

#### All Values

All Values — shows all trip values (Trip Timer, Odometer and Average Fuel).

- Trip Odometer Shows your accumulated trip distance.
- Trip Timer— The timer stops when you turn your vehicle off and restarts when you restart your vehicle.
- Average Fuel Shows your average fuel economy for a given trip.

**Note:** You can reset your trip information by pressing and holding the **OK** button on the left hand steering wheel controls.

#### **Fuel Economy**

Use the left and right arrow buttons to choose the desired fuel economy display.

#### **Fuel Economy**

Instant Fuel Economy - Hold OK to Reset

**Fuel History** 

Average Speed - Hold OK to Reset

Auto StartStop

- Inst Fuel Economy shows a visual graph of your instantaneous fuel economy, average fuel economy and distance to empty.
- Fuel History shows a bar chart of your fuel history from the past 30 min, average fuel economy and distance to empty.
- Average Speed shows your vehicles average speed since the function was last reset.
- Auto StartStop available Auto Start-Stop messaging will provide details about what
  is happening with your system. See Information Messages (page 105).

**Note:** You can reset your average fuel economy by pressing and holding the **OK** button on the left hand steering wheel controls.

#### **Driver Assist**

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

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

Driver Assist				
Traction Control - check enabled or uncheck disabled				
Adaptive Steering	Steering in D	Sport or Normal		
	Steering in S	Sport or Normal		
Blind Spot - check enabled or unche	ck disabled			
Cross Traffic Alert - check enabled or	uncheck disabled			
Cruise Control	Adaptive or Normal			
Driver Alert	Driver Alert or Driver Alert Display			
Hill Start Assist - check enabled or u	ncheck disabled			
Lane Keeping System	eeping System Mode			
	Intensity	High, Normal or Low		
Pre-Collision	Alert Sensitivity	High, Normal or Low		
Active Braking - check enabled or uncheck disabled				
Front Park Aid - check enabled or uncheck disabled				
Rear Park Aid - check enabled or uncheck disabled				
Tire Monitor Tire Monitor - Hold OK to Reset				

## Settings

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

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

Settings				
Vehicle	Auto Engi	o Engine Off - check enabled or uncheck disabled		
	DTE Calcula- tion	Normal or Towing		
	Easy Entr	ry/Exit - check enabled or uncheck disabled		
	Lighting	Auto Highbeam - check enabled or uncheck disabled		
		Autolamp Delay	Off or XX Seconds	

	Settings			
		Daytime Lights - check enabled or uncheck disabled		
	Locks	Autolock - check enabled or uncheck disabled		
		Autounlock - check enabled or uncheck disabled		
		Relock - check enabled	or uncheck disabled	
		Mislock - check enabled or uncheck disabled		
		Remote Unlock	All Doors or Driver First	
		Switch Inhibit - check e	nabled or uncheck disabled	
	Mirrors	Autofold - check enable	ed or uncheck disabled	
	Oil Life Rest	XXX% - Hold OK to Res	set	
	Remote	Climate Control	Auto or Last setting	
	Start	Seats or Seats and Wheel	Auto or Off	
		Duration	5, 10 or 15 minutes	
		System - check enabled or uncheck disabled		
	Seatbelts			
	Windows	Remote Open or Remo	te Close	
	Wipers	Courtesy Wipe or Rain Sensing		
MyKey	ey Create Hold OK to Create MyKey MyKey		ey	
	911 Assist	Always On or User Selectable		
	Do Not Disturb	On or Off		
	Traction Control	Always On or User Selectable		
	MAX Speed	Choose desired speed or Off		
	Speed Minder	Choose desired speed or Off		

Settings			
	Volume Limiter - check enabled or uncheck disabled		
	Clear MyKeys	Hold OK to Clear All MyKeys	
Display Setup	Distance	Miles & Gallons, I/100km or km/l	
	Gauge Display	Fuel Gauge or Fuel + Tach	
	Temper- ature	°Fahrenheit or °Celsius	
	Tire Pres- sure	psi, kPa or bar	
	Language	Choose your applicable setting	

#### **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.



E144636

Press the OK button to acknowledge and remove some messages from the information display. Other messages will be removed automatically after a short time.

Certain messages need to be confirmed before you can access the menus.

#### **Active Park**

Message	Action
Active Park Fault	The system requires service due to a malfunction. Have the system checked by an authorized dealer.

### **Adaptive Cruise Control**

Message	Action
Adaptive Cruise Malfunction	A radar malfunction is preventing the adaptive cruise control from engaging. See <b>Using Adaptive Cruise Control</b> (page 189).
Adaptive Cruise Not Available	A condition exists such that the adaptive cruise cannot function properly. See <b>Using Adaptive Cruise Control</b> (page 189).
Adaptive Cruise Not Available Sensor Blocked See Manual	You have a blocked sensor due to bad weather, ice, mud or water in front of the radar sensor. You can typically clean the sensor to resolve. See <b>Using Adaptive Cruise Control</b> (page 189).
Cruise Control Auto- matic Braking Turned Off	The system has disabled the automatic braking.
Front Sensor Not Aligned	A radar malfunction is preventing the adaptive cruise control from engaging.
Adaptive Cruise - Driver Resume Control	The adaptive cruise has reinstated controls to the driver.
Adaptive Cruise Speed Too Low to Activate	Your vehicle speed is too slow to activate the adaptive cruise.
Adaptive Cruise Shift Down	The adaptive cruise is automatically adjusting the gap distance and you need to shift the transmission into a lower gear.

### **AdvanceTrac®**

Message	Action
Service AdvanceTrac	The system detects a malfunction due to a blocked sensor.
AdvanceTrac Off On	The traction control has been switch on or off.

### Airbag

Message	Action
Occupant Sensor BLOCKED Remove Objects Near Passenger Seat	The system detects a malfunction due to a blocked sensor. Remove blockage.

### Alarm

Message	Action
Vehicle Alarm to Stop Alarm, Start Vehicle	Alarm triggered due to unauthorized entry. See <b>Anti-Theft Alarm</b> (page 70).

### **Auto Start-Stop**

	A .df
Message	Action
Auto StartStop Press Brake to Start Engine	The engine needs to be restarted, press the brake pedal to start.
Auto StartStop Press Brake Harder to Activate	The engine needs to be restarted, press the brake pedal harder to start.
Auto StartStop Press Any Pedal	The engine needs to be restarted, press any pedal to start.
Auto StartStop Shift to P Restart Engine	Select park for the system to restart the engine.
Auto StartStop Manual Restart Required	The system is not functioning. A manual restart is required.
Auto StartStop Not Available	Displays when conditions are not met for the Auto StartStop system to function properly. See <b>Auto-Start-Stop</b> (page 152).
Engine Stopped	StartStop has shut off the engine automatically.
Engine Starting	StartStop is starting the engine automatically.
Engine On due to Vehicle Maneuvering	The wheels are at a sharp angle or the steering wheel is being turned.

Message	Action
Engine On due to Steering Wheel Maneuv- ering	The wheels are at a sharp angle or the steering wheel is being turned.
Engine On due to Accessory Usage	Engine may be on to support high demand for electrical accessories, such as operating power windows, rear defroster, or when using the power point.
Engine On Normal Oper- ation	Engine is on to support normal vehicle operation. Includes external vehicle conditions, such as altitude, traffic, low ambient temperature. Also includes battery outside optimal operating conditions (state of charge and temperature), and inadequate brake vacuum (can occur if the brake pedal is depressed a number of times in succession).
Engine On due to Low Temperature	Engine is on in order to increase the engine temperature to an acceptable level.
Engine On due to Outside Air Temp	Engine is on to support normal vehicle operation due to low outside ambient temperature.
Engine On due to Engine Warming	Engine is on in order to increase the engine temperature to an acceptable level.
Engine On due to Selected Gear	Engine is on due to a low gear selection by the transmission.
Engine On due to Steep Grade	Engine is on due to a steep road grade.
Engine On due to Key not Detected	Engine is on due to no key being detected by the vehicle.
Engine On due to Driver Door Opened	Engine is on due to the driver door being opened.
Engine On due to Driver Belt Unbuckled	Engine is on due to the driver seat belt being unbuckled.
Engine On due to Heating /Cooling	Engine is on to achieve or maintain interior compartment at an acceptable level.
Engine On due to Power Outlet in Use	Engine is on, which is required to support the use of the power outlet (110V).
Engine On due to Vehicle Charging	Engine is on due to the vehicle battery needing to be charged.
Deactivated by Driver	You have disabled the Start Stop feature.

### **Automatic Engine Shutdown**

Message	Action
Engine Shuts Off in XX Seconds	The engine is getting ready to shut off.
Engine Shut Off for Fuel Economy	The engine has shut off to help increase fuel economy.
Engine Shuts Off in XX Seconds Press Ok to Override	The engine is getting ready to shut off. You can press OK on the left steering wheel button to override the shut down.

### **All-Wheel Drive**

Message	Action
AWD Temporarily Disabled	The all-wheel drive system temporarily turns off to protect itself from overheating.
AWD Off	The all-wheel drive system temporarily turns off to protect itself from overheating or if you are using the temporary spare tire.
AWD Restored	The all-wheel drive system will resume normal function and clear this message after driving a short distance with the road tire re-installed or after the system cools.
AWD Malfunction Service Required	The all-wheel drive system is not operating properly. If the warning stays on or continues to come on, contact an authorized dealer as soon as possible.

### **Battery and Charging System**

Message	Action
Check Charging System	The charging system needs servicing. If the warning stays on or continues to come on, contact an authorized dealer as soon as possible.
Low Battery Features Temporarily Turned Off	The battery management system detects an extended low-voltage condition. Your vehicle will disable various features to help preserve the battery. Turn off as many of the electrical loads as soon as possible to improve system voltage. If the system voltage has recovered, the disabled features will operate again as normal.
Turn Power Off to Save Battery	The battery management system determines that the battery is at a low state of charge. Turn your ignition off as soon as possible to protect the battery. This message will clear once you restart your vehicle and the battery state of charge has recovered. Turning off unnecessary electrical loads will allow faster battery state-of-charge recovery.

### **Blind Spot Information and Cross Traffic Alert System**

Message	Action
Blindspot System Fault	A fault with the system has occurred. Contact an authorized dealer as soon as possible.
Blindspot Not Available Sensor Blocked See Manual	The system sensors are blocked. See <b>Blind Spot Information System</b> (page 201).
Cross Traffic Vehicle Coming From X	The system detects a vehicle. See <b>Blind Spot Information System</b> (page 201).
Cross Traffic Not Avail- able Sensor Blocked See Manual	The blind spot information system and cross traffic alert system sensors are blocked. See <b>Blind Spot Information System</b> (page 201).
Cross Traffic System Fault	A fault with the system has occurred. Contact an authorized dealer as soon as possible.

### **Doors and Locks**

Message	Action
X Door Ajar	The door(s) listed is not completely closed.
Trunk ajar	The luggage compartment is not completely closed.
Hood ajar	The hood is not completely closed.
Switches Inhibited Security Mode	The system has disabled the door switches.
Factory Keypad Code XXXXX	The factory keypad code displays in the information display after system resets the keypad.

### **Driver Alert**

Message	Action
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.

### Fuel

Message	Action
Fuel Level Low	An early reminder of a low fuel condition.
Check Fuel Fill Inlet	The fuel fill inlet may not be properly closed.

### **Hill Start Assist**

Message	Action
Hill Start Assist Not	Hill start assist is not available. Contact an authorized dealer.
Available	See <b>Hill Start Assist</b> (page 175).

### **Keys and Intelligent Access**

Message	Action
Press Brake to START	A reminder to press the brake while starting your vehicle.
No Key Detected	The system does not detect a key in your vehicle. See <b>Keyless Starting</b> (page 146).
Restart Now or Key is Needed	You pressed the start/stop button to switch off the engine and your vehicle does not detect your intelligent access key inside your vehicle.
Run Power Active	Your vehicle is in the run ignition state.
Starting System Fault	There is a problem with your vehicle's starting system. Contact an authorized dealer for service.
Key Program Successful	You have successfully programmed an intelligent access key to the system.
Key Program Failure	You have failed to program an intelligent access key to the system.
Max Number of Keys Learned	You have programmed the maximum number of keys to the system.
Not Enough Keys Learned	You have not programmed enough keys to the system.
Key Battery Low Replace Soon	The key battery is low. Change the battery as soon as possible.
Could Not Program Integrated Key	An attempt is made to program a spare key using two existing keys.
Engine On	A reminder that you are exiting your vehicle and the engine is on.

### **Lane Keeping System**

Message	Action
Lane Keeping Sys. Malfunction Service Required	The system has malfunctioned. Contact your authorized dealer as soon as possible.
Front Camera Tempor- arily Not Available	The system has detected a condition that has caused the system to be temporarily unavailable.
Front Camera Low Visib- ility Clean Screen	The system has detected a condition that requires the windshield to be cleaned to operate properly.
Front Camera Malfunc- tion Service Required	The system has malfunctioned. Contact your authorized dealer as soon as possible.
Keep Hands on Steering Wheel	The system requests you to keep your hands on the steering wheel.

### Maintenance

Message	Action
LOW Engine Oil Pressure	Stop your vehicle as soon as safely possible and turn off the engine. Check the oil level. If the warning stays on or continues to come on with your engine running, contact an authorized dealer as soon as possible.
Change Engine Oil Soon	The engine oil life remaining is 10% or less. See <b>Engine Oil Check</b> (page 251).
Oil Change Required	The oil life left is at 0%. See <b>Engine Oil Check</b> (page 251).
Brake Fluid Level LOW	The brake fluid level is low, inspect the brake system immediately. See <b>Brake Fluid Check</b> (page 255).
Check Brake System	The brake system needs servicing. Stop your vehicle in a safe place. Contact an authorized dealer.
Engine Coolant Overtem- perature	The engine coolant temperature is excessively high. Stop your vehicle in a safe place and allow the engine to cool. If the problem persists, contact an authorized dealer. See <b>Engine Coolant Check</b> (page 252).

Message	Action
Power Reduced to Lower Engine Temp	The engine has reduced power to help reduce high engine temperature.
Transport / Factory Mode	Your vehicle is still in Transport or Factory mode. This may not allow some features to operate properly. See an authorized dealer.
See Manual	The powertrain needs service due to a powertrain malfunction.

### MyKey

Message	Action
MyKey Not Created	You cannot program a MyKey.
MyKey Active Drive Safely	MyKey is active.
Speed Limited to XX MPH/km/h	When switching on your vehicle and MyKey is in use, displays that the MyKey speed limit is on.
Near Vehicle Top Speed	MyKey is in use, the MyKey speed limit is on and your vehicle speed is approaching 80 mph (130 km/h).
Vehicle at Top Speed of MyKey Setting	You have reached the speed limit set for your MyKey.
Check Speed Drive Safely	You have an active MyKey with a programmed set speed limit.
Buckle Up to Unmute Audio	The belt-minder turns on with a MyKey in use.
AdvanceTrac On - MyKey Setting	With a MyKey in use, AdvanceTrac turns on.
Traction Control On - MyKey Setting	With a MyKey in use, traction control turns on.
MyKey Park Aid Cannot be Deactivated	With a MyKey in use, park aid is always on.
Lane Keeping Alert On MyKey Setting	With a MyKey in use, lane keeping alert turns on.

### **Park Aid**

Message	Action
Check Front Park Aid	The system has detected a condition that requires service. Contact an authorized dealer. See <b>Principle of Operation</b> (page 179).
Check Rear Park Aid	The system has detected a condition that requires service. Contact an authorized dealer. See <b>Principle of Operation</b> (page 179).
Front Park Aid On Off	Front park aid status.
Rear Park Aid On Off	Rear park aid status.

### **Park Brake**

Message	Action
Park Brake Engaged	You have set the parking brake and you have driven the vehicle more than 3 mph (5 km/h). If the warning stays on after you have released the parking brake, contact an authorized dealer.
Release Park Brake	The electric parking brake is set and the vehicle is driven more than 3mph (5km/h). Release park brake before continued driving.
Park Brake Malfunction Service Now	The electric parking brake system has detected a condition that requires service. Contact an authorized dealer.
Park Brake Not Applied	The electric parking brake is not fully applied.
Park Brake Not Released	The electric parking brake is not fully released.
Park Brake Maintenance Mode	The electric parking brake system has been put into a special mode that is used to allow service of the rear brakes. Contact an authorized dealer.
Park Brake Use Switch to Release	The electric parking brake is set and an automatic release is attempted, but cannot be performed. Perform a manual release.
To Release: Press Brake and Switch	The electric parking brake is set and a manual release is attempted without the brake pedal being pressed.
Park Brake Limited Function Service Required	The electric park brake system has detected a condition that requires service. Contact an authorized dealer.

Message	Action
Park Brake System Overheated	You have not released the electric parking brake causing it to overheat.
Park Brake Applied	The electric parking brake is set. Only displayed when a fault is present that is causing the brake system warning lamp to be illuminated continuously.
Park Brake Released	The electric parking brake is released. Only displayed when a fault is present that is causing the brake system warning lamp to be illuminated continuously.

### **Power Steering**

Message	Action
Steering Fault Service Now	The power steering system detects a condition that requires service. Contact an authorized dealer.
Steering Loss Stop Safely	The power steering system is not working. Stop your vehicle in a safe place. Contact an authorized dealer.
Steering Assist Fault Service Required	The power steering system detects a condition that requires service. Contact an authorized dealer.

### **Pre-Collision Assist**

Message	Action
Pre-Collision Assist Malfunction	There is a system malfunction with the pre-collision assist system. The system will be disabled. Contact an authorized dealer as soon as possible.
Pre-Collision Assist Not Available Sensor Blocked See Manual	The pre-collision assist 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 an authorized dealer as soon as possible.
Pre-Collision Assist Not Available	There is a system malfunction with the pre-collision assist system. The system will be disabled. Contact an authorized dealer as soon as possible.

#### **Remote Start**

Message	Action	
To Drive: Turn Key to On	A reminder to turn the key on to drive your vehicle after a remote start.	
To Drive: Press Brake and Start Button	A reminder to apply the brake and push the gearshift button to drive your vehicle after a remote start.	

### Seats

Message Action	
Memory Recall Not Permitted While Driving	A reminder that memory seats are not available while driving.
Memory X Saved	Shows where you have saved your memory setting.

### **Starting System**

Message	Action	
Press Brake to Start	A reminder to apply the brake when starting your vehicle.	
Engine Start Pending Please Wait	The starter is attempting to start your vehicle.	
Pending Start Cancelled	The system has cancelled the pending start.	
Cranking Time Exceeded	The starter has exceeded its cranking time in attempting to start your vehicle.	

### **Tire Pressure Monitoring System**

Message	Action	
LOW Tire Pressure	One or more tires on your vehicle has low tire pressure. See <b>Tire Pressure Monitoring System</b> (page 301).	
Tire Pressure Monitor Fault	The tire pressure monitoring system is malfunctioning. If the warning stays on or continues to come on, contact an authorized dealer. See <b>Tire Pressure Monitoring System</b> (page 301).	
Tire Pressure Sensor Fault	A tire pressure sensor is malfunctioning or your spare tire is in use. See <b>Tire Pressure Monitoring System</b> (page 301). If the warning stays on or continues to come on, contact an authorized dealer as soon as possible.	

### **Traction Control**

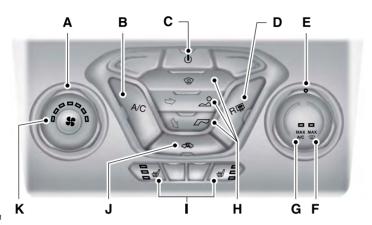
Message	Action
Traction Control Off / Traction Control On	The status of the traction control system after you switched it off or on. See <b>Using Traction Control</b> (page 177).
Spinout Detected Hazards Activated	A spinout has occurred and the hazards are on.

### **Transmission**

Message	Action	
Transmission Malfunc- tion Service Now	Contact an authorized dealer.	
Transmission Over- heating Stop Safely	The transmission is overheating and needs to cool. Stop in a safe place as soon as it is possible.	
Transmission Overtem- perature Stop Safely	The transmission has overheated and needs to cool. Stop in a safe place as soon as it is possible.	
Transmission Service Required	Contact an authorized dealer.	
Transmission Too Hot Press Brake	Transmission is getting hot. Stop to let it cool.	
Transmission Limited Function See Manual	The transmission has overheated and has limited functionality. See <b>Automatic Transmission</b> (page 163).	

Message	Action	
Transmission Warming Up Please Wait	Transmission is too cold. Wait for it to warm up before you drive.	
Transmission Not in Park	A reminder to shift into park.	
Press Brake Pedal	You need to depress the brake pedal.	
Transmission Adjusted	The transmission has adjusted the shift strategy.	
Transmission Adapt Mode	The transmission is adjusting the shift strategy.	
Transmission Indicate Mode Lockup On	The transmission is locked and unable to select gears.	
Transmission Indicate Mode Lockup Off	The transmission is unlocked and free to select gears.	

### MANUAL CLIMATE CONTROL (If Equipped)



E144491

- A **Fan speed control:** Adjust the volume of air circulated in the vehicle.
- B **A/C:** Press the button to switch the air conditioning on or off. Air conditioning cools your vehicle using outside air. To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

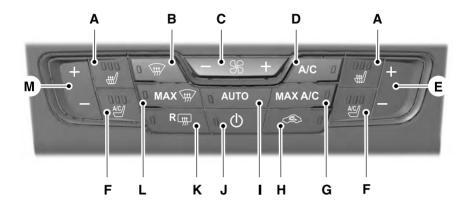
**Note:** In certain conditions (for example, maximum defrost), the air conditioning compressor may continue to operate even though the air conditioning is switched off.

- C **Power:** Press the button to switch the system on and off. When the system is off, it prevents outside air from entering the vehicle.
- D **Heated rear window:** Press the button to switch the heated rear window on and off. See **Heated Windows and Mirrors** (page 128).
- E **Temperature control:** Controls the temperature of the air circulated in your vehicle.
- F MAX Defrost: Adjust the control to turn on defrost. Outside air flows through the windshield vents, air conditioning automatically turns on, and fan automatically adjusts to the highest speed. You can also use this setting to defrost and clear the windshield of a thin covering of ice. The heated rear window also automatically turns on when you select maximum defrost.

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

- G **MAX A/C:** Adjust the control for maximum cooling. Recirculated air flows through the instrument panel vents, air conditioning automatically turns on, and the fan automatically adjusts to the highest speed.
- H **Air distribution control:** Adjust the control to turn airflow from the windshield, instrument panel, or footwell vents on or off. You can distribute air through any combination of these vents.
  - **Note:** At least one of these buttons illuminates on when the system is on.
- Heated seats (if equipped): Press the button to switch the heated seats on and off. See Heated Seats (page 137).
- J **Recirculated air:** Press the button to switch between outside air and recirculated air. The air currently in the passenger compartment recirculates. This can reduce the time needed to cool the interior and reduce unwanted odors from entering your vehicle.
  - **Note:** Recirculated air may also turn on and off automatically in instrument panel or instrument panel and floor airflow modes during hot weather to improve cooling efficiency.
- K Fan speed indicator: Illuminates to indicate fan speed.

# AUTOMATIC CLIMATE CONTROL - VEHICLES WITHOUT: SONY AUDIO SYSTEM



#### E198922

- A **Heated seats (if equipped):** Press the button to switch the heated seats on and off. See **Heated Seats** (page 137).
- B **Defrost:** Select to distribute air through the windshield air vents. Air distribution to the instrument panel and footwell vents turns off. You can also use this setting to defrost and clear the windshield of a thin covering of ice.
- C **Fan speed control:** Adjust the volume of air circulated in the vehicle.
- D **A/C:** Press the button to switch the air conditioning on or off. Air conditioning cools your vehicle using outside air. To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

**Note:** In certain conditions (for example, maximum defrost), the air conditioning compressor may continue to operate even though the air conditioning is switched off.

E **Passenger temperature control:** Adjust the temperature on the passenger side

- F **Climate controlled seats (if equipped):** Press the button to switch the climate controlled seats on and off. See **Climate Controlled Seats** (page 137).
- G **MAX A/C:** Press the button for maximum cooling. Recirculated air flows through the instrument panel vents, air conditioning automatically turns on and the fan automatically adjusts to the highest speed.
- H **Recirculated air:** Press the button to switch between outside air and recirculated air. The air currently in the passenger compartment recirculates. This can reduce the time needed to cool the interior and reduce unwanted odors from entering your vehicle.

**Note:** Recirculated air may also turn on and off automatically in instrument panel or instrument panel and floor airflow modes during hot weather to improve cooling efficiency.

- AUTO: Press the button to switch on automatic operation. Adjust to select the desired temperature. Fan speed, air distribution, air conditioning operation, and outside or recirculated air are automatically adjusted to heat or cool the vehicle to maintain the desired temperature. You can also switch off dual zone mode by pressing and holding the button for more than two seconds.
- J **Power:** Press the button to switch the system on and off. When the system is off, it prevents outside air from entering the vehicle.
- K Heated rear window: Press the button to switch the heated rear window on and off. See Heated Windows and Mirrors (page 128).
- L **MAX Defrost:** Press the button to switch on defrost. Outside air flows through the windshield vents, air conditioning automatically turns on, and fan automatically adjusts to the highest speed. You can also use this setting to defrost and clear the windshield of a thin covering of ice. The heated rear window also automatically turns on when you select maximum defrost.

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

M Driver temperature control: Adjust the temperature setting using the control on the driver side.

### AUTOMATIC CLIMATE CONTROL - VEHICLES WITH: SONY AUDIO SYSTEM/SONY AUDIO SYSTEM

**Note:** You can switch temperature units between Fahrenheit and Celsius. See

Settings (page 395).



A **A/C:** Press the button to switch the air conditioning on or off. Air conditioning cools your vehicle using outside air. To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

**Note:** In certain conditions (for example, maximum defrost), the air conditioning compressor may continue to operate even though the air conditioning is switched off.

- B **MAX A/C:** Press the button for maximum cooling. Recirculated air flows through the instrument panel vents, air conditioning automatically turns on, and the fan automatically adjusts to the highest speed.
- C **Recirculated air:** Press the button to switch between outside air and recirculated air. The air currently in the passenger compartment recirculates. This can reduce the time needed to cool the interior and reduce unwanted odors from entering your vehicle.

**Note:** Recirculated air may also turn on and off automatically in instrument panel or instrument panel and floor airflow modes during hot weather to improve cooling efficiency.

D **Power:** Press the button to switch the system on and off. When the system is off, it prevents outside air from entering the vehicle.

- E **Heated seats:** Press the button to switch the heated seats on and off. See **Heated Seats** (page 137).
- F **Right-hand temperature control:** Adjust the temperature on the right-hand side.

**Note:** The maximum difference between left-hand and right-hand settings may be limited. Whenever you make an adjustment that would result in a larger difference, both settings will change together.

- G **Climate controlled seats:** Press the button to switch the climate controlled seats on and off. See **Climate Controlled Seats** (page 137).
- H **Fan speed control:** Adjust the volume of air circulated in the vehicle.
- Left-hand temperature control: Adjust the temperature setting using the control on the left-hand side. This control also adjusts the right-hand side temperature when you switch off dual zone mode.
- J **Heated rear window:** Press the button to switch the heated rear window on and off. See **Heated Windows and Mirrors** (page 128).
- K **Defrost:** Select to distribute air through the windshield air vents. Air distribution to the instrument panel and footwell vents turns off. You can also use this setting to defrost and clear the windshield of a thin covering of ice.
- L **MAX Defrost:** Press the button to switch on defrost. Outside air flows through the windshield vents, air conditioning automatically turns on, and fan automatically adjusts to the highest speed. You can also use this setting to defrost and clear the windshield of a thin covering of ice. The heated rear window also automatically turns on when you select maximum defrost.

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

M **AUTO:** Press the button to switch on automatic operation. Adjust to select the desired temperature. Fan speed, air distribution, air conditioning operation, and outside or recirculated air are automatically adjusted to heat or cool the vehicle to maintain the desired temperature. You can also switch off dual zone mode by pressing and holding the button for more than two seconds.

## HINTS ON CONTROLLING THE INTERIOR CLIMATE

#### **General Hints**

**Note:** Prolonged use of recirculated air may cause the windows to fog up.

**Note:** You may feel a small amount of air from the footwell air vents regardless of the air distribution setting.

**Note:** To reduce humidity build-up inside your vehicle, do not drive with the system switched off or with recirculated air always switched on.

**Note:** Do not place objects under the front seats as this may interfere with the airflow to the rear seats.

**Note:** Remove any snow, ice or leaves from the air intake area at the base of the windshield.

**Note:** To improve the time to reach comfort in hot weather, drive with the windows fully open until you feel cold air through the air vents.

#### **Manual Climate Control**

**Note:** To reduce fogging of the windshield during humid weather, adjust the air distribution control to the windshield air vents position.

#### **Automatic Climate Control**

**Note:** Adjusting the settings when your vehicle interior is extremely hot or cold is not necessary. The system automatically adjusts to heat or cool the cabin to your selected temperature as quickly as possible. For the system to function efficiently, the instrument panel and side air vents should be fully open.

**Note:** If you select **AUTO** during cold outside temperatures, the system directs airflow to the windshield and side window vents. In addition, the fan may run at a slower speed until the engine warms up.

**Note:** If you select **AUTO** during hot outside temperatures, or when the inside of the vehicle is hot, the system automatically uses recirculated air to maximize interior cooling. When the interior reaches the selected temperature, the system automatically switches to using outside air.

### **Heating the Interior Quickly**

	Vehicle with manual climate control	Vehicle with automatic climate control
1	Adjust the fan speed to a high speed setting.	Press the <b>AUTO</b> button.
2	Adjust the temperature control to the highest setting.	Adjust the temperature control to the desired setting.
3	Select the footwell air vents using the air distribution buttons.	

### **Recommended Settings for Heating**

	Vehicle with manual climate control	Vehicle with automatic climate control
1	Adjust the fan speed to the center setting.	Press the <b>AUTO</b> button.
2	Adjust the temperature control to the midway point of the hot settings.	Adjust the temperature control to the desired setting. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.
3	Select the footwell air vents using the air distribution buttons.	

### **Cooling the Interior Quickly**

	Vehicle with manual climate control	Vehicle with automatic climate control
1	Adjust the temperature control to the <b>MAX A/C</b> position.	Press the MAX A/C button.
2	Drive with the windows fully open until you feel cold air through the air vents.	

### **Recommended Settings for Cooling**

	Vehicle with manual climate control	Vehicle with automatic climate control
1	Adjust the fan speed to the center setting.	Press the <b>AUTO</b> button.
2	Adjust the temperature control to the midway point of the cold settings.	Adjust the temperature control to the desired setting. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.
3	Select the instrument panel air vents using the air distribution buttons.	

### Side Window Defogging in Cold Weather

	Vehicle with manual climate control	Vehicle with automatic climate control
1	Select the windshield air vents using the air distribution buttons.	Press the defrost button.
2	Press the <b>A/C</b> button.	Adjust the temperature control to the desired setting. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.
3	Adjust the temperature control to the desired setting.	
4	Adjust the fan speed to the highest setting.	

# HEATED WINDOWS AND MIRRORS

#### **Heated Rear Window**

**Note:** Make sure the engine is running before operating the heated windows.



Press the button to clear the heated rear window of thin ice and fog. The heated rear window

will automatically turn off after a short period of time. Start the engine before you switch the heated rear window on.

**Note:** Do not use razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window. The vehicle warranty does not cover damage caused to the heated rear window grid lines.

#### **Heated Exterior Mirror**

When you switch the heated rear window on, the heated exterior mirrors will automatically turn on.

**Note:** Do not remove ice from the mirrors with a scraper or adjust the mirror glass when it is frozen in place.

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

#### **CABIN AIR FILTER**

Your vehicle is equipped with a cabin air filter, which gives you and your passengers the following benefits:

- It improves your driving comfort by reducing particle concentration.
- It improves the interior compartment cleanliness.
- It protects the climate control components from particle deposits.

You can locate the cabin air filter behind the glove box.

**Note:** Make sure you have a cabin air filter installed at all times. This prevents foreign objects from entering the system. Running the system without a filter in place could result in degradation or damage to the system.

Replace the filter at regular intervals. See **Scheduled Maintenance** (page 464).

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

### REMOTE START (If Equipped)

The remote start feature allows you to pre-condition the interior of your vehicle. The climate control system works to achieve comfort according to your previous settings.

**Note:** 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 normally, but you 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 default remote start settings using the information display controls. See **Information Displays** (page 96).

### **Automatic Settings**

In hot weather, the system is set to 72°F (22°C). The 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 seats do not automatically turn on.

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

# SITTING IN THE CORRECT POSITION

#### WARNINGS

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

Do not recline the seatback as this can cause the occupant to slide under the safety belt, resulting in serious injury in the event of a crash.

feet on the floor.

Do not place objects higher than the seatback to reduce the risk of serious injury in the event of a crash or during heavy braking.



When you use them properly, the seat, head restraint, safety belt and airbags will provide optimum protection in the event of a crash.

We recommend that you follow these guidelines:

- Sit in an upright position with the base of your spine as far back as possible.
- Do not recline the seatback more than 30 degrees.
- Adjust the head restraint so that the top of it is level with the top of your head and as far forward as possible. Make sure that you remain comfortable.
- Keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 10 in (25 cm) between your breastbone and the airbag cover.
- Hold the steering wheel with your arms slightly bent.
- 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**

#### **WARNINGS**

A

Fully adjust the head restraint before you sit in or operate your vehicle. This will help minimize the risk of neck

injury in the event of a crash. Do not adjust the head restraint when your vehicle is moving.

Λ

The head restraint is a safety device.
Whenever possible it should be installed and properly adjusted when the possible possible.

the seat is occupied.

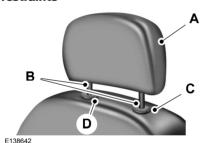
#### **WARNINGS**



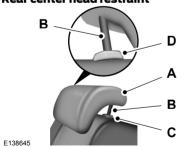
Install the head restraint properly to help minimize the risk of neck injury in the event of a crash.

**Note:** Adjust the seatback to an upright driving position before adjusting the head restraint. Adjust the head restraint so that the top of it is level with the top of your head and as far forward as possible. Make sure that you remain comfortable. If you are extremely tall, adjust the head restraint to its highest position.

## Front seat and rear seat outboard head restraints



#### Rear center head restraint



The head restraints consist of:

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

### **Adjusting the Head Restraint**

### **Raising the Head Restraint**

Pull the head restraint up.

### **Lowering the Head Restraint**

- Press and hold button C.
- Push the head restraint down.

### **Removing the Head Restraint**

- 1. Pull the head restraint up until it reaches its highest position.
- 2. Press and hold buttons C and D.
- 3. Pull the head restraint up.

### **Installing the Head Restraint**

Align the steel stems into the guide sleeves and push the head restraint down until it locks.

### **Tilting Head Restraints**

The front head restraints tilt for extra comfort. To tilt the head restraint, do the following:



F144727

- 1 Adjust the seatback to an upright driving or riding position.
- 2. Pivot the head restraint forward toward your head to the desired position.

After the head restraint reaches the forward-most tilt position, pivoting it forward again will then release it to the rearward, un-tilted position.

### **MANUAL SEATS**

#### **WARNINGS**



Do not adjust the driver seat or seatback when your vehicle is moving.



Rock the seat backward and forward after releasing the lever to make sure that it is fully engaged.

Reclining the seatback can cause an occupant to slide under the seat's safety belt, resulting in severe personal injuries in the event of a crash.

The driver and passenger manual seats may consist of:



E144631

- A bar to move the seat backward Α and forward
- A control to adjust the lumbar of В the seatback (driver seat only).
- C A lever to adjust the height of the seat (driver seat only).
- $\Box$ A lever to adjust the angle of the seatback.

#### POWER SEATS (If Equipped)

Do not adjust the driver seat or seatback when your vehicle is moving.

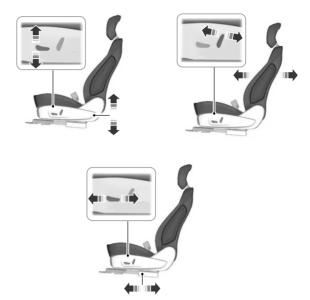
WARNINGS



Do not place cargo or any objects behind the seatback before returning it to the original position.

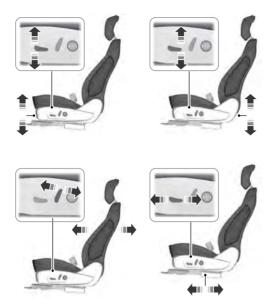
**Note:** Driver seat shown, passenger seat similar.

### 6-way power seat



E176793

#### 10-way power seat



E144632

### Power Lumbar (If Equipped)



E165608

### MEMORY FUNCTION (If Equipped)

#### WARNINGS

Λ

Before activating the seat memory, make sure that the area immediately surrounding the seat is clear of ructions and that all occupants are

obstructions and that all occupants are clear of moving parts.



Do not use the memory function when your vehicle is moving.

This feature will automatically recall the position of the driver seat and power mirrors. The memory control is located on the driver door.



F142554

### **Saving a PreSet Position**

- 1. Switch the ignition on.
- 2. Adjust the seat and exterior mirrors to your desired position.
- 3. Press and hold the desired preset button until you hear a single tone.

You can save up to three preset memory positions. You can save a memory preset at any time.

#### **Recalling a PreSet Position**

Press and release the preset button associated with your desired driving position. The seat and mirrors will move to the position stored for that preset.

**Note:** A preset memory position can only be recalled when the ignition is off, or when the transmission is in park (P) or neutral (N) if the ignition is on.

You can also recall a preset memory position by:

- Pressing the unlock button on your integrated keyhead transmitter or intelligent access key fob if it is linked to a preset position.
- Unlocking the intelligent driver door handle if a linked key fob is present.
- Entering a personal entry code on the Securicode keypad. See **Locks** (page 60).

**Note:** Using a linked key fob to recall your memory position when the ignition is off moves the seat to the Easy Entry position.

**Note:** Pressing any active memory feature control - power seat, mirror (or any memory button) during a memory recall cancels the operation.

#### Linking a PreSet Position to your Remote Control or Intelligent Access Key Fob

Your vehicle can save the preset memory positions for up to three remote controls or intelligent access (IA) keys.

- 1. With the ignition on, move the memory positions to the desired positions.
- Press and hold the desired preset button for about five seconds. A tone will sound after about two seconds. Continue holding until a second tone is heard.
- Within three seconds, press the lock button on the remote control you are linking.

To unlink a remote control, follow the same procedure – except in step 3, press the unlock button on the remote control.

**Note:** If more than one linked remote control or intelligent access key is in range, the memory function moves to the settings of the first key to initiate a memory recall.

### **Easy Entry and Exit Feature**

If you enable the easy entry and exit feature, it automatically moves the driver seat position rearward up to two inches (five centimeters) when you switch the ignition off.

The driver seat will return to the previous position when you switch the ignition on.

You can enable or disable this feature in the information display. See **Information Displays** (page 96).

### **REAR SEATS**

**Note:** Your vehicle may have split seatbacks that you must fold individually.

**Note:** Make sure the center safety belt is unbuckled before folding the seatback.

To lower the seat back(s) from inside the

vehicle, do the following:



- 1. Pull the handle to release the seatback.
- 2. Push the seatback forward.





3. Stow the safety belt in the stowage clip. This will prevent the safety belt from getting caught in the seat latch.

When raising the seat back(s), make sure you hear the seat latch into place.

#### HEATED SEATS (If Equipped)

#### WARNING

People who are unable to feel pain to their 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 heated seat. The heated seat 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. This may cause the heated seat to overheat. Do not puncture the seat with pins, needles or other pointed objects. This may damage the heating element which may cause the heated seat to overheat. An overheated seat may cause serious personal injury.

#### Do not do the following:

- Place heavy objects on the seat.
- Operate the heated seat if water or any other liquid is spilled on the seat. Allow the seat to dry thoroughly.
- Operate the heated seats unless the engine is running. Doing so can cause the battery to lose charge.



F146941

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

#### CLIMATECONTROLLEDSEATS

WARNING

(If Equipped)

#### **Heated Seats**

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.

### 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.
- Operate the heated seats unless the engine is running. Doing so can cause the battery to lose charge.



F146322

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

### Cooled Seats (If Equipped)

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



F146309

To operate the cooled seats:

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

If the engine falls below 350 RPM while the cooled seats are on, the feature will turn itself off. You will need to reactivate it.

## Climate controlled seat air filter replacement (if equipped)

Your vehicle is equipped with lifetime air filters that are integrated with the seats. Regular maintenance or replacement is not needed.

### **REAR SEAT ARMREST**



E144635

Fold the armrest down to use the armrest and cupholder.

### Universal Garage Door Opener (If Equipped)

### **HomeLink Wireless Control** System (If Equipped)

#### 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). A garage door opener which cannot detect an object, signaling the door to stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.

**Note:** 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.

**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 within 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 online at www.homelink.com or by calling the toll-free help line on 1-800-355-3515.

#### In-vehicle programming

This process is to program your hand-held transmitter and your in-vehicle HomeLink button.

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



- E142658
- 1. With your vehicle parked outside of the garage, turn your ignition to the on position, but do not start your vehicle.
- 2. Hold your hand-held garage door transmitter 1-3 inches (2-8 centimeters) away from the HomeLink button you want to program.

### Universal Garage Door Opener (If Equipped)

E142659

- Using both hands, simultaneously, press and hold the desired HomeLink button and the hand-held transmitter button. DO NOT release either one until the HomeLink indicator light flashes slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. The rapid flashing indicates successful training.
- Press and hold the HomeLink button you programmed for five seconds, then release. You may need to do this twice to activate the door. If your garage door does not operate, watch the HomeLink indicator light.

If the indicator light stays on, the programming is complete. See **Programming your garage door motor** later in this section.

If the indicator light flashes rapidly for 2 seconds and then turns to a constant light, the HomeLink button is not programmed yet. Do the following:

Press and hold the HomeLink button while you press and release the hand-held transmitter button every 2 seconds. The HomeLink indicator light will flash slowly and then rapidly once the HomeLink function button recognizes and accepts the hand-held transmitter's radio frequency signal.

After programming the HomeLink button, begin programming your garage door opener motor.

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



To program additional buttons, repeat Steps 1 – 4.

For questions or comments, please contact HomeLink at www.homelink.com or 1-800-355-3515.

## Programming your garage door opener motor

- Press the learn button on the garage door opener motor and then you have 30 seconds to complete the next two steps.
- 2. Return to your vehicle.

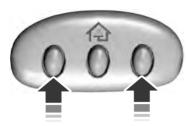


 Press and hold the function button you want to program for 2 seconds, then release. Repeat this step. Depending on your brand of garage door opener, you may need to repeat this sequence a third time.

### **Erasing the Function Button Codes**

**Note:** You cannot erase individual buttons.

### Universal Garage Door Opener (If Equipped)



E142660

- 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.
- 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 or 1-800-355-3515.

### Programming 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.

**Note:** To program HomeLink to the transmitter you must first put the transmitter into programming mode.



- A. Red indicator light
- B. Green indicator light
- Press and hold one of the buttons on the hand-held transmitter for 10 seconds. The indicator light will change from green to red and green.
- Press the same button twice to confirm the change to programming mode. If done properly the indicator light will appear red.
- Hold the transmitter within 1–3 inches (2–8 centimeters) of the button on the visor you want to program.
- 4. Press and hold both the programmed Genie button on the hand-held transmitter and the button you want to program. The indicator light on the 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 indicator light displays green and red, release the button until the indicator light 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:

## Universal Garage Door Opener (If Equipped)

- 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 indicator light 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.



E142662

- Press and hold the program button on the garage door opener motor until both blue indicator lights turn on.
- Release the program button. Only the smaller round indicator light should be on.
- Press and release the program button. The larger purple indicator light 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 visor for 2 seconds. Repeat this step up to 3 times until the garage door moves.

Programming is now 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 indicator light will begin flashing in 10 to 20 seconds, at which time both buttons should be released. Programming has now been erased, and the indicator light 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**

## 12 Volt DC Power Point

### **WARNINGS**

Λ

Do not plug optional electrical accessories into the cigar lighter socket. Incorrect use of the cigar

lighter can cause damage not covered by the vehicle warranty, and can result in fire or serious injury.

Δ

Do not use a power point for operating a cigar lighter. Incorrect use of the power points can cause age not covered by the vehicle

damage not covered by the vehicle warranty, and can result in fire or serious injury.

**Note:** When you switch the ignition on, you can use the socket to power 12 volt appliances with a maximum current rating of 15 amps.

If the power supply does not work after you switch the ignition off, switch the ignition on.

**Note:** Do not hang any accessory from the accessory plug.

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

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

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

Run the vehicle for full capacity use of the power point.

To prevent the battery from running out of charge:

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

#### Locations

Power points may be in the following locations:

- On the front of the center console.
- Inside the center console.
- On the rear of the center console.

### 110 Volt AC Power Point (If Equipped)

#### WARNING

Δ

Do not keep electrical devices plugged in the power point whenever the device is not in use. Do not use

any extension cord with the 110 volt AC power point, since it will defeat the safety protection design. Doing so may cause the power point to overload due to powering multiple devices that can reach beyond the 150 watt load limit and could result in fire or serious injury.

**Note:** The power point will turn off when the ignition is switched off or the battery voltage drops below 11 volts.

Use the power point for powering electric devices that require up to 150 watts. It is on the rear of the center console.



**Note:** Depending on your vehicle, the power point may open to the right or upward.

## **Auxiliary Power Points**

When the indicator light on the power point is:

- On: The power point is working, the ignition is on and a device is plugged in.
- Off: The power point is off, the ignition is off or no device is plugged in.
- Flashing: The power point is in fault mode.

The power outlet temporarily turns off power when in fault mode if the device exceeds the 150 watt limit. Unplug your device and switch the ignition off. Switch the ignition back on, but do not plug your device back in. Let the system cool off and switch the ignition off to reset the fault mode. Switch the ignition back on and make sure the indicator light remains on.

Do not use the power point for certain electric devices, including:

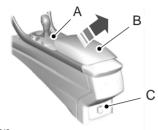
- · Cathode-ray, tube-type televisions.
- Motor loads, such as vacuum cleaners, electric saws and other electric power tools or compressor-driven refrigerators.
- Measuring devices, which process precise data, such as medical equipment or measuring equipment.
- Other appliances requiring an extremely stable power supply such as microcomputer-controlled electric blankets or touch-sensor lamps.

# **Storage Compartments**

## **CENTER CONSOLE**

Stow items in the cupholder carefully as items may become loose during hard braking, acceleration or collisions, including hot drinks which may spill.

Available console features include:



- E143942
  - A Cupholder.
  - B Storage compartment with auxiliary power point, auxiliary input jack, USB port, and media hub.
  - C Auxiliary power point.

## **OVERHEAD CONSOLE**



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

### **GENERAL INFORMATION**

### **WARNINGS**

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.

Do not park, idle or drive your vehicle on dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, creating the risk of fire.

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

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

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

The powertrain control system meets all Canadian interference-causing equipment standard requirements regulating the impulse electrical field or radio noise.

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

### **IGNITION SWITCH**



F72128

• (off) - The ignition is off.

**Note:** When you switch the ignition off and leave your vehicle, do not leave your key in the ignition. This could cause your vehicle battery to lose charge.

I (accessory) - Allows the electrical accessories, such as the radio, to operate while the engine is not running.

**Note:** Do not leave the ignition key in this position for too long. This could cause your vehicle battery to lose charge.

II (on) - All electrical circuits are operational and the warning lamps and indicators illuminate.

III (start) - cranks the engine.

## **KEYLESS STARTING**

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

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

## **Ignition Modes**



The keyless starting system has three modes:

Off: Turns the ignition off.

 Without applying the clutch pedal (manual transmission) or brake pedal (automatic transmission), press and release the button once when the ignition is in the on mode, or when the engine is running but the vehicle is not moving.

**On:** All electrical circuits are operational and the warning lamps and indicators illuminate.

 Without applying the clutch pedal (manual transmission) or brake pedal (automatic transmission), press and release the button once.

**Start:** Starts the vehicle. The engine may not start when the vehicle starts.

 Press the clutch pedal (manual transmission) or brake pedal (automatic transmission), and then press the button for any length of time. An indicator light on the button illuminates when then ignition is on and when the engine starts.

# STARTING A GASOLINE ENGINE

When you start the engine, the idle speed increases. This helps to warm up the engine. If the engine idle speed does not slow down automatically, have your vehicle checked by an authorized dealer.

**Note:** You can crank the engine for a total of 60 seconds (without the engine starting) before the starting system temporarily disables. The 60 seconds does not have to be all at once. For example, if you crank the engine three times for 20 seconds each time, without the engine starting, you reached the 60-second time limit. A message appears in the information display alerting you that you exceeded the cranking time. You cannot attempt to start the engine for at least 15 minutes. After 15 minutes, vou are limited to a 15-second engine cranking time. You need to wait 60 minutes before vou can crank the engine for 60 seconds again.

Before starting your vehicle, check the following:

- Make sure all occupants have fastened their safety belts.
- Make sure the headlamps and electrical accessories are off.
- Make sure the parking brake is on.
- Move the transmission selector lever to a low gear (manual transmission) or park (P) (automatic transmission).
- Switch the ignition key to position II. If your vehicle is equipped with a keyless ignition, see the following instructions.

## Vehicles with an Ignition Key

**Note:** Do not touch the accelerator pedal.

 Fully press the brake pedal. If your vehicle is equipped with a manual transmission, fully press the clutch pedal also.

2. Turn the key to position **III** to start the engine. Release the key when the engine starts.

**Note:** The engine may continue cranking for up to 15 seconds or until it starts.

**Note:** If you cannot start the engine on the first try, wait for a short period and try again.

## **Vehicles with Keyless Start**

**Note:** Do not touch the accelerator pedal.

**Note:** You must have your intelligent access key in the vehicle in order to shift the transmission out of park (P).

- Fully press the clutch pedal (manual transmission) or brake pedal (automatic transmission).
- 2. Press the button.

The system does not function if:

- The key frequencies are jammed.
- The key battery has no charge.

If you are unable to start the vehicle, do the following:



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- Locate the key backup slot in the center console utility compartment.
- With the buttons facing the rear of the vehicle and the key ring up, place the key into the backup slot.

 With the key in this position, press the clutch pedal (manual transmission) or brake pedal (automatic transmission), and then press the button to switch on your vehicle.

### **Fast Restart**

The fast restart feature allows you to restart the engine within 20 seconds of switching it off, even if a valid key is not present.

Within 20 seconds of switching the engine off, press the brake pedal and press the button. After 20 seconds have expired, you can no longer restart the vehicle without the key present inside your vehicle.

Once the vehicle has started, it remains running until you press the button, even if the system does not detect a valid key. If you open and close a door while the vehicle is running, the system searches for a valid key. You cannot restart the engine if the system does not detect a valid key within 20 seconds.

### **Failure to Start**

If you cannot start the engine after three attempts, wait 10 seconds and follow this procedure:

- If your vehicle is equipped with an automatic transmission, fully press the brake pedal. If your vehicle is equipped with a manual transmission, fully press the clutch pedal and apply the handbrake.
- 2. Move the transmission selector lever to park (P) (automatic transmission) or neutral (manual transmission).
- 3. Fully press the accelerator pedal and hold it there.
- 4. Start the engine.

### **Automatic Shutdown**

This feature automatically shuts down the vehicle if it has been idling for an extended period. The ignition also turns off in order to save battery power. Before the vehicle shuts down, a message appears in the information display showing a timer counting down from 30 seconds. If you do not intervene within 30 seconds, the vehicle shuts down. Another message appears in the information display to inform you that the vehicle has shut down in order to save fuel. Start your vehicle as you normally do.

### **Automatic Shutdown Override**

**Note:** You cannot permanently switch off the automatic shutdown feature. When you switch it off temporarily, it turns on at the next ignition cycle.

You can stop the shutdown, or reset the timer, at any point before the 30-second countdown has expired by doing any of the following:

- You can reset the timer by interacting with your vehicle (such as pressing the brake pedal or accelerator pedal).
- You can temporarily switch off the shutdown feature any time the ignition is on (for the current ignition cycle only). Use the information display to do so. See Information Displays (page 96).
- During the countdown before shutdown, you are prompted to press OK or RESET (depending on your type of information display) to temporarily switch the feature off (for the current ignition cycle only).

# Switching Off the Vehicle When it is Stationary

## Vehicles with an Ignition Key

- Move the transmission selector lever to a low gear (manual transmission) or park (P) (automatic transmission).
- 2. Turn the key to position **0**.
- 3. Apply the parking brake.

## **Vehicles with Keyless Start**

- Move the transmission selector lever to a low gear (manual transmission) or park (P) (automatic transmission).
- 2. Press the button once.
- 3. Apply the parking brake.

**Note:** This switches off the ignition, all electrical circuits, warning lamps and indicators.

**Note:** If the engine is idling for 30 minutes, the ignition and engine automatically shut down.

# Switching Off the Vehicle When It Is Moving

## **WARNING**



Switching off the engine when the vehicle is still moving will result in a loss of brake and steering assistance.

The steering will not lock, but higher effort will be required. When the ignition is switched off, some electrical circuits, including air bags, warning lamps and indicators may also be off. If the ignition was turned off accidentally, you can shift into neutral (N) and re-start the engine.

### Vehicles with an Ignition Kev

- Move the transmission selector lever to the neutral position (manual transmission) or neutral (N) (automatic transmission) and use the brakes to bring your vehicle to a safe stop.
- 2. When your vehicle has stopped, move the transmission selector lever to a low gear (manual transmission) or park (P) (automatic transmission) and turn the key to position **O**.
- 3. Apply the parking brake.

## **Vehicles with Keyless Start**

- 1. Move the transmission selector lever to the neutral position (manual transmission) or neutral (N) (automatic transmission) and use the brakes to bring your vehicle to a safe
- 2. When your vehicle has stopped, move the transmission selector lever to a low gear (manual transmission) or park (P) (automatic transmission).
- 3. Press and hold the button for one second, or press it three times within two seconds.
- 4. Apply the parking brake.

## **Guarding Against Exhaust Fumes**

#### WARNING

If you smell exhaust fumes inside your vehicle, have your vehicle checked by your authorized dealer immediately. Do not drive your vehicle if vou smell exhaust fumes. Carbon monoxide is present in exhaust fumes. Take precautions to avoid its dangerous effects.

## Important Ventilating Information

If you stop your vehicle and then leave the engine idling for long periods, we recommend that you do one of the following:

- Open the windows at least 1.0 in (2.5 cm).
- Set your climate control to outside air.

## **ENGINE BLOCK HEATER** (14

#### Equipped)

### WARNINGS



Failure to follow engine block heater instructions could result in property damage or serious personal injury.

Do not use your heater with ungrounded electrical systems or two-pronged 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 AC electrical source.

We recommend that you do the following for a safe and correct operation:

Use a 16-gauge outdoor extension cord that is product certified by Underwriter's Laboratory (UL) or Canadian Standards Association (CSA). This extension cord must be suitable for use outdoors, in cold

temperatures, and be clearly marked Suitable for Use with Outdoor Appliances. Do not use an indoor extension cord outdoors. This could result in an electric shock or become a fire hazard.

- Use as short an extension cord as possible.
- Do not use multiple extension cords.
- Make sure that when in operation, the extension cord plug and heater cord plug connections are free and clear of water. This could cause an electric shock or fire.
- Make sure your 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 heater system is checked for proper operation before winter

## **Using the Engine Block Heater**

The engine block heater plug is located in a housing in the left fog lamp bezel. Open the hinged, circular door and 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 will achieve maximum temperature after approximately three hours of operation. If you use the heater longer than three hours, this will not improve system performance and will use unnecessary electricity.

# **Unique Driving Characteristics**

## AUTO-START-STOP (If Equipped)

The system helps reduce fuel consumption by automatically shutting off and restarting the engine while your vehicle is stopped. The engine will restart automatically when you release the brake pedal. In some situations, your vehicle may restart automatically, for example:

- To maintain interior comfort
- To recharge the battery

**Note:** Power assist steering is turned off when the engine is off.

### **WARNINGS**



The engine may restart automatically if required by the system.



Switch the ignition off before opening the hood or performing any maintenance. Failure to do so may t in serious injuries due to automatic

result in serious injuries due to automatic engine restart.

Always switch the ignition off before leaving your vehicle, as the system may have turned the engine off, but the ignition will still be on and automatic restart may occur.

The Auto StartStop system status is available at a glance within the information display. See **Information Displays** (page 96).

## **Enabling Auto StartStop**

The system is automatically enabled every time you start your vehicle if the following conditions are met:

- The Auto StartStop button is not pressed (not illuminated).
- Your vehicle exceeds an initial speed of 3 mph (4 km/h) after the vehicle has been initially started.
- Your vehicle is stopped.

- Your foot is on the brake pedal.
- The transmission is in drive (D).
- · The driver's door is closed.
- There is adequate brake vacuum.
- The interior compartment has been cooled or warmed to an acceptable level.
- · The front windshield defroster is off.
- The steering wheel is not turned rapidly or is not at a sharp angle.
- The vehicle is not on a steep road grade.
- The battery is within optimal operating conditions (battery state of charge and temperature in range).
- The engine coolant is at operating temperature.
- Elevation is below approximately 10000 feet (3048 meters).
- Ambient temperature is moderate.

**Note:** The system allows multiple successive Auto StartStop events, but it may not operate in conditions of heavy traffic or in extended low speed operation.



**Note:** The green Auto StartStop indicator light on the instrument cluster will illuminate to indicate

when the automatic engine stop occurs.



**Note:** If the instrument cluster is equipped with a grey Auto StartStop indicator light, it is

illuminated when automatic engine stop is not available due to one of the above noted conditions not being met.

## **Automatic Engine Restart**

Any of the following conditions will result in an automatic restart of the engine:

- Your foot is removed from the brake pedal.
- · You press the accelerator pedal.

## **Unique Driving Characteristics**

- You press the accelerator and the brake pedal at the same time.
- The driver safety belt becomes unfastened or the driver door is aiar.
- The transmission is moved from drive (D).
- Your vehicle is moving.
- The interior compartment does not meet customer comfort when air conditioning or heat is on.
- Fogging of the windows could occur and the air conditioning is on.
- The battery is not within optimal operating conditions.
- The maximum engine off time is exceeded.
- When you press the Auto StartStop button while the engine is stopped automatically.
- The heated windshield is turned on.

Any of the following conditions may result in an automatic restart of the engine:

- The blower fan speed is increased or the climate control temperature is changed.
- An electrical accessory is turned on or plugged in.

**Disabling Auto StartStop** 



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Press the Auto StartStop button located on the center console to switch the system off. The button will illuminate. The system will only be deactivated for the current ignition cycle. Press the button again to restore Auto StartStop function.

If your vehicle is in an Auto StartStop state and you shift the transmission to reverse while the brake is not depressed, a message telling you to press the brake will appear. You must press the brake pedal within 10 seconds, or a shift to park and a manual restart will be required.

**Note:** If the Shift to P, Restart Engine message appears and the amber Auto StartStop indicator light is flashing, automatic restart is not available. The vehicle must be restarted manually. See **Information Displays** (page 96).

## **SAFETY PRECAUTIONS**

### WARNINGS

Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.

The fuel system may be under pressure. If you hear a hissing sound near the fuel filler door (Easy Fuel capless fuel system), do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.



Automotive fuels can cause serious injury or death if misused or mishandled.

Flow of fuel through a fuel pump nozzle can produce static electricity. This can cause a fire if you are filling an ungrounded fuel container.



Fuel ethanol and gasoline may contain benzene, which is a cancer-causing agent.

When refueling always shut the engine off and never allow sparks or open flames near the filler neck.

Never smoke or use a cell phone while refueling. Fuel vapor is extremely hazardous under certain conditions. 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, clothing or both, 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**

## **Choosing the Right Fuel**



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Use only regular unleaded gasoline with a minmum pump (R+M)/2 octane rating of 87. Some fuel stations offer fuels posted as regular unleaded gasoline with an octane rating below 87, particularly in high altitude areas. Fuels with octane levels below 87 are not recommended.

Do not use any fuel other than those recommended because they could lead to engine damage that may not be covered by the vehicle Warranty.

**Note:** Use of any fuel other than those recommended can impair the emission control system and cause a loss of vehicle performance.

### Do not use:

- Diesel fuel.
- · Fuels containing kerosene or paraffin.
- Fuel containing more than 15% ethanol or E85 fuel.
- · Fuels containing methanol.
- Fuels containing metallic-based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT).
- Leaded fuel (using leaded fuel is prohibited by law).

The use of fuels with metallic compounds such as methylcyclopentadienyl manganese tricarbonyl (commonly known as MMT), which is a manganese-based fuel additive, will impair engine performance and affect the emission control system.

Do not be concerned if the engine sometimes knocks lightly. However, if it knocks heavily under most driving conditions while you are using fuel with the recommended octane rating, contact an authorized dealer to prevent any engine damage.

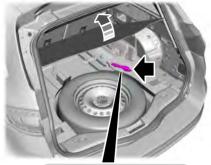
# FUEL FILLER FUNNEL LOCATION

The fuel filler funnel is located under the luggage compartment floor covering.

### 4-Door and 5-Door



### Wagon





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E185369

## **Vehicles with Temporary Mobility Kit**





### **RUNNING OUT OF FUEL**

Running out of fuel can cause damage not covered by the vehicle Warranty.

If your vehicle runs out of fuel:

- Add a minimum of 1.3 gal (5 L) of fuel to restart the engine. If your vehicle is out of fuel and on a steep slope, more fuel may be required.
- You may need to switch the ignition from off to on several times after refueling to allow the fuel system to pump the fuel from the tank to the engine. When restarting, cranking time takes a few seconds longer than normal.

## Filling a Portable Fuel Container

Use the following guidelines to avoid electrostatic charge build-up when filling an ungrounded fuel container:

- Only use an approved fuel container to transfer fuel to your vehicle. Place the container on the ground when filling it.
- Do not fill a fuel container when it is inside your vehicle (including the cargo area).
- Keep the fuel pump nozzle in contact with the fuel container when filling it.
- Do not use a device that holds the fuel pump nozzle lever in the fill position.

# Adding Fuel From a Portable Fuel Container

### WARNINGS

Do not insert the nozzle of a fuel container or an aftermarket funnel into the fuel system filler neck. This

may damage the fuel system filler neck or its seal and cause fuel to run onto the ground.

### WARNINGS



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



Do not dispose of fuel in the household refuse or the public sewage system. Use an authorized waste disposal facility.

When refueling the vehicle fuel tank from a fuel container, use the plastic funnel included with your vehicle. See Fuel Filler Funnel Location (page 155).

**Note:** Do not use aftermarket funnels as thev will not work with the capless fuel system and can damage it.

When refueling the vehicle fuel tank from a fuel container, do the following:

Fully open the fuel tank filler door until it engages and remove the fuel tank filler cap.

**Note:** Capless fuel systems do not have a fuel tank filler cap.

2. Fully insert the plastic funnel into the fuel tank filler pipe opening.



- 3. Add fuel to your vehicle from the fuel container.
- 4. Remove the plastic funnel from the fuel tank filler pipe opening.
- 5. Replace the fuel tank filler cap and close the fuel tank filler door
- 6. Clean the plastic funnel and place it back in your vehicle or properly dispose of it.

**Note:** Extra funnels can be purchased from an authorized dealer if you choose to dispose of the funnel.

## REFUELING

### WARNINGS



Fuel vapor burns violently and a fuel fire can cause severe injuries.



Read and follow all the instructions on the pump island.



Switch 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 your 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.

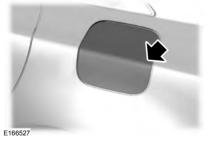
## Easy Fuel™ Capless Fuel System

#### 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. Put the vehicle in position **P** and switch the ignition off.



2. Press the center-rear edge of the fuel filler door and release to open.



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**Note:** Hold the handle of the fuel filler nozzle higher while you insert the nozzle for easier access.

 Slowly insert the fuel filler nozzle fully into the fuel system to open both doors. Leave the nozzle fully inserted until you have stopped pumping fuel.



**Note:** Allow about five to 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.

4. After you have stopped pumping fuel, slowly remove the fuel filler nozzle.

**Note:** A fuel spillage concern may occur if overfilling the fuel tank. Do not overfill the tank to the point that the fuel is able to bypass the fuel filler nozzle. The overfilled fuel may run down the drain located below and in front of the fuel filler door.

To close the fuel filler door, press the center-rear edge of the fuel filler door and then release. The fuel door will latch closed.

If the fuel fill inlet did not close properly, a **Check Fuel Fill Inlet** message may appear on the instrument cluster.

At the next opportunity, do the following:

- 1. Safely pull off the road.
- 2. Put the vehicle in position **P** and switch the ignition off.
- Open the fuel filler door and remove any visible debris from the fuel fill opening.
- Insert the fuel fill nozzle, or the fuel fill funnel provided with the vehicle, several times to allow the inlet to close properly. This will dislodge any debris preventing the inlet from sealing.

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 or highway driving. Continuing to drive with the message on may cause the service engine soon lamp to turn on as well.

## **FUEL CONSUMPTION**

**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.

Empty reserve is the amount of fuel remaining in the tank after the fuel gauge indicates empty. Do not rely on this fuel for driving. The usable capacity of the fuel tank is the amount of fuel that can be put into the tank after the gauge indicates empty. The advertised capacity is the total fuel tank size — it is the combined usable capacity plus the empty reserve.

## Filling 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 1000 miles (1600 kilometers) of driving (this is your engine's break-in period); a more accurate measurement is obtained after 2000 miles - 3000 miles (3200 kilometers - 4800 kilometers). 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.

 Calculate fuel economy by dividing miles traveled by gallons used (For 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**

#### WARNINGS

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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.

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

Your vehicle is equipped with various emission control components and a catalytic converter that 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.

smell exhaust fumes.

- 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 you use anything other than Ford, Motorcraft or Ford-authorized parts 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 information for complete details.

## On-Board Diagnostics (OBD-II)

Your vehicle has a computer known as the on-board diagnostics system (OBD-II) that monitors the engine's emission control system. The system protects the environment by making sure that your vehicle continues to meet government emission standards. The OBD-II system also assists a service technician 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. Your 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 closed properly. See **Refueling** (page 157).
- 4. Driving through deep water—the electrical system may be wet.

You can correct these temporary malfunctions 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 you start the engine. A driving cycle consists of a cold engine startup followed by mixed city and 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 and Maintenance (I/M) Testing

Some state and 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, your vehicle may need

service. See On-Board Diagnostics.

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 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 your vehicle is ready for I/M testing.

The OBD-II system checks the emission control system during normal driving. A complete check may take several days.

If the vehicle is not ready for I/M testing, you can perform the following driving cycle consisting of mixed city and highway driving:

- 15 minutes of steady driving on an expressway or highway followed by 20 minutes of stop-and-go driving with at least four 30-second idle periods.
- Allow your vehicle to sit for at least eight hours with the ignition off. Then, start the vehicle and complete the above driving cycle. The vehicle must warm up to its normal operating temperature. Once started, do not turn off the vehicle until the above driving cycle is complete.

If the vehicle is still not ready for I/M testing, you need to repeat the above driving cycle.

## **AUTOMATIC TRANSMISSION**

### **WARNINGS**

Always set the parking brake fully and latch the gearshift in park (P).

Turn the ignition to the off position and remove the key whenever you leave

and remove the key whenever you leave your vehicle.

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Do not apply the brake pedal and accelerator pedal simultaneously.

Applying both pedals simultaneously

for more than three seconds will limit engine rpm, which may result in difficulty maintaining speed in traffic and could lead to serious injury.

# Understanding the Positions of Your Automatic Transmission

## Putting your vehicle in gear:

- 1. Fully press down the brake pedal.
- 2. Move the gearshift lever into the desired gear.
- 3. Come to a complete stop.
- 4. Move the gearshift lever and securely latch it in park (P).



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## Park (P)

This position locks the transmission and prevents the wheels from turning.

### Reverse (R)

With the gearshift lever in reverse (R), your vehicle moves backward. Always come to a complete stop before shifting into and out of reverse (R).

## Neutral (N)

With the gearshift lever in neutral (N), your vehicle can be started and is free to roll. Hold the brake pedal down while in this position.

## Drive (D)

Drive (D) is the normal driving position for the best fuel economy. The overdrive function allows automatic upshifts and downshifts through gears one through six.

## Sport (S)

Moving the gearshift lever to sport (S):

- Provides additional grade (engine) braking and extends lower gear operation to enhance performance for uphill climbs, hilly terrain or mountainous areas. This increases engine RPM during engine braking.
- Provides additional lower gear operation through the automatic transmission shift strategy.
- Gears are selected more quickly and at higher engine speeds.

# SelectShift Automatic<sup>TM</sup> Transmission (If Equipped)

Your vehicle is equipped with a SelectShift Automatic transmission gearshift lever. The SelectShift Automatic transmission gives you the ability to change gears up or down (without a clutch) as desired.

In order to prevent the engine from running at too low an RPM, which may cause it to stall, SelectShift still automatically makes some downshifts if it has determined that you have not downshifted in time. Although SelectShift makes some downshifts for you, it still allows you to downshift at any time as long as the SelectShift determines that damage will not be caused to the engine from over-revving.

**Note:** Engine damage may occur if you maintain excessive engine revving without shifting.

SelectShift does not automatically upshift, even if the engine is approaching the RPM limit. It must be shifted manually by pressing the + button.

# If equipped with the toggle on the gearshift lever:

- Press the (+) button to upshift.
- Press the (-) button to downshift.



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# If equipped with steering wheel paddles:

With your vehicle in drive (D), the paddle shifters provide temporary manual control. They allow you the ability to shift gears quickly, without taking your hands off the steering wheel.

You can achieve extensive manual control by moving the gearshift lever to the sport (S) position.

- Pull the right paddle (+) to upshift.
- Pull the left paddle (-) to downshift.



The system determines when temporary manual control is no longer in use and returns to automatic control.

Upshift to the recommended shift speeds according to the following chart:

Upshifts when accelerating (recom- mended for best fuel economy)	
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 displays your currently selected gear.

**Note:** The system stays in manual control until you make another shift selection (for example, drive [D1).

## **Brake-Shift Interlock**

## WARNINGS



Do not drive your vehicle until you verify that the brake lamps are working.

### **WARNINGS**

When doing this procedure, you will be taking your vehicle out of park (P) which means your vehicle can roll freely. To avoid unwanted vehicle movement, always fully set the parking brake prior to doing this procedure. Use wheel chocks if appropriate.

If you fully release the parking brake and the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer.

**Note:** For some markets this feature will be disabled.

Your vehicle is equipped with a brake-shift interlock feature that prevents moving the gearshift lever from park (P) when the ignition is in the on position and the brake pedal is not pressed.

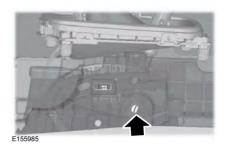
If you cannot move the gearshift lever out of park (P) position with the ignition in the on position and the brake pedal pressed, a malfunction may have occurred. It is possible that a fuse has blown or your vehicle's brake lamps are not operating properly. See **Fuse Specification Chart** (page 237).

If the fuse is not blown and the brake lamps are working properly, the following procedure will allow you to move the gearshift lever from park (P):



E155984

 Remove the side panel on the right side of the gearshift lever.



2. Locate the access hole.



- F155983
- Insert the screwdriver (or similar tool) into the access hole and press the lever foreword while pulling the gearshift lever out of the park (P) position and into the neutral (N) position.
- 4. Remove the tool and reinstall the panel.
- 5. Start the vehicle and release the parking brake.

## Automatic Transmission Adaptive Learning

This feature may increase durability and provide consistent shift feel over the life of your vehicle. A new vehicle or transmission may have firm shifts, soft shifts or both. This operation is considered normal and does not affect function or durability of the transmission. Over time, the adaptive learning process fully updates transmission operation.

# 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, you may rock it out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.

## **USING ALL-WHEEL DRIVE**

All-wheel drive 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 vehicle 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:** A warning message will be displayed in the information display when an AWD system fault is present. See **Information Messages** (page 105). An AWD system fault will cause the AWD system to default to front-wheel drive only mode. When this warning message is displayed, have your vehicle serviced at an authorized dealer

**Note:** A warning message will be displayed in the information display if the AWD system has overheated See **Information Messages** (page 105). 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 warning message will turn off and normal AWD function will return.

Do not use a spare tire of a different size other than the tire provided. 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 will be indicated by a warning in the information display See Information **Messages** (page 105). If there is a warning message in the information display 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.

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

### **WARNINGS**

Always set the parking brake fully and make sure the transmission is in P (Park). Turn the ignition to the lock position or turn the vehicle off using the start/stop button and remove the key whenever you leave your vehicle.

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.



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. This will cause the AWD system to overheat. After the system has cooled down, normal AWD function will return.

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 AWD PTU (Power Transfer Unit) lubricant should be checked and changed if necessary.



E143950

"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."

E142667

### 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 driveline 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 (ABS), do not "pump" the brakes. See **Hints on Driving With Anti-Lock Brakes** (page 172). for more information on the operation of the anti-lock brake system (ABS).

### 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 lowering 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.

## **Rrakes**

## **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. Have the system checked by an authorized dealer. If vour vehicle has continuous vibration or shudder in the steering wheel while braking, have it checked 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. See Cleaning the Allov Wheels (page 270).

**Note:** Depending on applicable laws and regulations in the country for which your vehicle was originally built, your brake lamps may flash during heavy braking. Following this, your hazard lights may also flash when your vehicle comes to a stop.



See Warning Lamps and Indicators (page 91).

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. Move the transmission to park (P). switch the engine off and apply the parking brake. Inspect the accelerator pedal for any interference. If none are found and the condition persists, have your vehicle towed to the nearest authorized dealer.

### Brake Assist

Brake assist detects when you brake rapidly by measuring the rate at which you press the brake pedal. It provides maximum braking efficiency as long as you press the pedal, and can reduce stopping distances in critical situations.

## Anti-lock Brake System

This system helps you maintain steering control during emergency stops by keeping the brakes from locking.



This lamp momentarily illuminates when you turn the ignition on. If the light does not

illuminate during start up, remains on or flashes, the system may be disabled. Have the system checked by an authorized dealer. If the anti-lock brake system is disabled, normal braking is still effective.



(1) (P) If the brake warning lamp illuminates when you release the parking brake, have the system

checked by an authorized dealer.

## HINTS ON DRIVING WITH **ANTI-LOCK BRAKES**

Note: 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 svstem. This is normal.

The anti-lock braking system will not eliminate the risks 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.

## **Rrakes**

## **ELECTRIC PARKING BRAKE**

The electric parking brake replaces the conventional handbrake. The operating switch is located in the center console.

### **WARNING**

Always set the parking brake and leave your vehicle with the transmission in park (P) (automatic transmission) or in first gear (1) or reverse (R) (manual transmission).

**Note:** When you apply the electric parking brake in certain conditions, for example, on a steep hill, the electric parking brake may reapply the brakes within three to ten minutes.

**Note:** You may notice various noises when vou apply and release the electric parking brake. This is normal and no cause for concern.

## Parking On a Hill (Vehicles With a Manual Transmission)

If you park your vehicle facing uphill, move the transmission to first gear (1) and turn the steering wheel away from the curb. If you park your vehicle facing downhill, move the transmission to reverse (R) and turn the steering wheel toward the curb.

## Applying the Electric Parking brake

#### WARNING

The brake system warning lamp will flash during an emergency parking brake apply. If the brake system warning lamp continues to flash, there could be a problem with your electric parking brake.

**Note:** The brake system warning lamp will illuminate for ten seconds, if the ignition is turned off after the electric parking brake has been applied, or the electric parking brake has been applied after the ignition has been turned off.

**Note:** The electric parking brake will not automatically apply. You must apply the electric parking brake using the electric parking brake switch.



Pull the switch up to apply the electric parking brake.

The brake system warning lamp will flash for approximately 2 seconds and then illuminate to confirm that the electric parking brake has been applied. See **Information Displays** (page 96).

## Apply the electric parking brake when the vehicle is moving

### WARNINGS

Applying the electric parking brake while moving will result in use of the anti-lock braking system. Do not use

the electric parking brake system when the vehicle is moving unless the normal brake system is unable to stop the vehicle.

## **Brakes**

### WARNINGS

Δ

With the exception of emergency conditions (for example, the brake pedal does not work or is blocked),

do not apply the electric parking brake while the vehicle is moving. On bends, or poor road surfaces or weather conditions, emergency braking can cause the vehicle to skid out of control or off the road.

If you apply the electric parking brake when your vehicle is moving, the brake system warning lamp will illuminate and a warning chime will sound. See **Information Displays** (page 96).

If your vehicle speed is above 4 mph (6 km/h), the braking force is applied as long as the switch is pulled. Releasing or pressing the switch or pressing the accelerator pedal will stop the braking force.

# Releasing the Electric Parking Brake



E147231

You can release the electric parking brake either manually by pressing the switch or automatically.

#### Manual release

#### WARNING

If the brake system warning light remains illuminated or flashes after you have released the parking brake, there could be a problem with you braking system. Have the system checked by an authorized dealer as soon as possible.

You can manually release the electric parking brake by:

- 1. Turning the ignition on.
- 2. Pressing the brake pedal.
- 3. Pressing the electric parking brake switch.

When the electric parking brake is released, the brake system warning lamp will turn off

### Automatic release - drive away release

Your vehicle will automatically release the parking brake if all of the following conditions exist:

- · The driver door is closed.
- The driver safety belt is fastened.
- The vehicle is accelerated.
- There are no faults detected in the parking brake system.

**Note:** If the electric parking brake warning lamp stays illuminated, the electric parking brake will not automatically release. You must release the electric parking brake using the electric parking brake switch.

**Note:** On manual transmission vehicles, if the transmission is in neutral (N) when you release the clutch pedal and press the accelerator pedal, the electric parking brake will release automatically.

## **Brakes**

**Note:** On manual transmission vehicles, you must fully press the clutch pedal before the drive away release feature will operate. Drive as normal using the accelerator and clutch pedals and the electric parking brake will be automatically released.

The brake system warning lamp will go off to confirm that the electric parking brake has been released.

**Note:** The electric parking brake drive away release makes starting on a hill easier. This feature will release the parking brake automatically when the vehicle has sufficient drive force to move up the hill. To assure drive away release when starting uphill, press the accelerator pedal quickly.

## **Driving with a Trailer**

Depending on the slope and the weight of the trailer, your vehicle and trailer may roll backwards slightly when you start on a slope.

To prevent this from happening, do the following:

- 1. Pull the switch up and hold it in this position.
- 2. Drive your vehicle, then release the switch when you notice that the engine has developed sufficient driving force.

## **Battery With No Charge**

#### WARNING



You will not be able to apply or release the electric parking brake if the battery is low or has no charge.

If the battery is low or has no charge, use jumper cables and a booster battery.

### HILL START ASSIST

#### WARNINGS

The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake. Failure to leave your vehicle securely parked may lead to a crash or injury. See **Electric Parking Brake** (page 173).

You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

The system will turn off if a malfunction is apparent or if you rev the engine excessively. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.

The system makes it easier to pull away when your vehicle is on a slope without the need to use the parking brake.

When the system is active, your vehicle remains stationary on the slope for two to three seconds after you release the brake pedal. This allows time to move your foot from the brake to the accelerator pedal. The system releases the brakes

automatically once the engine has developed sufficient drive to prevent your vehicle from rolling down the slope. This is an advantage when pulling away on a slope, for example from a car park ramp, traffic lights or when reversing uphill into a parking space.

**Note:** The system only functions when you bring your vehicle to a complete standstill with the vehicle in an uphill gear (for example, second (2) when facing uphill or reverse (R) when facing downhill).

## **Brakes**

**Note:** There is no warning light to indicate the system is either on or off.

## **Using Hill Start Assist**

- Press the brake pedal to bring your vehicle to a complete standstill. Keep the brake pedal pressed.
- If the sensors detect that your vehicle is on a slope, the system activates automatically.
- 3. When you remove your foot from the brake pedal, your vehicle remains on the slope without rolling away for about two to three seconds. This hold time automatically extends if you are in the process of driving off.
- Drive off in the normal manner. The system releases the brakes automatically.

**Note:** When you remove your foot from the brake pedal and press the pedal again when the system is active, you will experience significantly reduced brake pedal travel. This is normal.

## Switching the System On and Off

#### **Vehicles with Manual Transmission**

You can switch this feature on or off in the information display. The system remembers the last setting when you start your vehicle.

#### Vehicles with Automatic Transmission

You cannot turn the system on or off. When you switch the ignition on, the system automatically turns on.

## **Traction Control**

## PRINCIPLE 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**

In certain situations for example, stuck in snow or mud, turning the traction control off may be beneficial as this allows the wheels to spin with full engine power. Depending on the type of system you have on your vehicle, you can either turn the system off using the information display or by pressing the button.

# Switching the System Off Using the Information Display Controls

(If Equipped)

Your vehicle comes with this feature already enabled. If required, you can switch this feature off using the information display controls. See (page 96).

## Switching the System Off Using a Switch (If Equipped)

The button is located in the instrument panel.

Press the button. You will see a message in conjunction with an illuminated icon in the display. Press the button again to return the system to normal mode.

When you switch the traction control system off, stability control remains fully active.

# System Indicator Lights and Messages

#### WARNING



If a failure has been detected within the AdvanceTrac system, the

stability control light will illuminate steadily. Verify that the AdvanceTrac system was not manually disabled through the information display. If the stability control light still illuminates steadily, have the system serviced by an authorized dealer immediately. Operating your vehicle with AdvanceTrac 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 you turn the traction control system off.

When you turn the traction control system off or on, a message appears in the information display showing system status.

# **Stability Control**

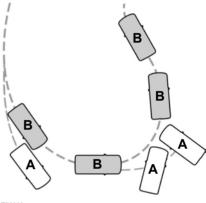
### PRINCIPLE OF OPERATION

#### WARNINGS

Vehicle modifications involving braking system, aftermarket roof racks, suspension, steering system. tire construction and wheel and 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.

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 vou to lose control of vour 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 Control system helps you keep control of your vehicle when on a slippery surface. The electronic stability control portion of the system helps avoid skids and lateral slides. The traction control system helps avoid drive wheel spin and loss of traction. See **Using Traction Control** (page 177).



- E72903
  - A Vehicle without AdvanceTrac skidding off its intended route.
  - B Vehicle with AdvanceTrac maintaining control on a slippery surface.

# **USING STABILITY CONTROL**

#### **AdvanceTrac®**

The system automatically activates when you start your vehicle. The AdvanceTrac system cannot be completely turned off, but the electronic stability control system is disabled when the transmission selector lever is in position **R**. You can turn off the traction control portion of the system independently. See **Using Traction Control** (page 177).

### PRINCIPLE OF OPERATION

#### WARNINGS

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 on a flat surface at parking speeds. Certain objects with surfaces that absorb ultrasonic waves, surrounding vehicle's parking aid systems, traffic control systems, fluorescent lamps, 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.



To help avoid personal injury, always use caution when in reverse (R) and when using the sensing system.

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 your vehicle. The system mav

not detect smaller objects, particularly those close to the ground.

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 or 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 or fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.

**Note:** The sensing system cannot be turned off when a MvKev is present. See **Principle** of Operation (page 54).

**Note:** If you attach certain add-on devices such as a trailer or bike rack, the rear sensing system may detect that add-on device and therefore provide warnings. It is suggested that you disable the rear sensing system when you attach an add-on device to your vehicle to prevent these warnings.

The sensing system warns the driver of obstacles within a certain range of your vehicle. The system turns on automatically whenever you switch the ignition on.

The system can be switched off through the information display menu or from the pop-up message that appears once you shift the transmission into reverse (R). See General Information (page 96).

Note: On vehicles with front parking aid you can use the parking aid switch to switch the system off.

If a fault is present in the system, a warning message appears in the information display. See Information Messages (page 105).

### **REAR PARKING AID**

The rear sensors are only active when the transmission is in reverse (R). As your vehicle moves closer to the obstacle, the rate of the audible warning increases. When the obstacle is less than 12 in (30 cm) away, the warning sounds continuously. If the system detects a stationary or receding object farther than 12 in (30 cm) from the corners of the bumper, the tone sounds for only three seconds. Once the system detects an object approaching, the warning sounds again.



#### E130178

Coverage area of up to 6 ft (1.8 m) from the rear bumper. There may be decreased coverage area at the outer corners of the bumper.

The system detects certain objects while the transmission is in reverse (R):

- Your vehicle is moving toward a stationary object at a speed of 3 mph (5 km/h) or less.
- Your vehicle is not moving, but a moving object is approaching the rear of your vehicle at a speed of 3 mph (5 km/h) or less.
- Your vehicle is moving at a speed of less than 3 mph (5 km/h) and a moving object is approaching the rear of your vehicle at a speed of less than 3 mph (5 km/h).

The system provides audio warnings only when your vehicle is moving or when your vehicle is stationary and the detected obstacle is less than 12 in (30 cm) away from the bumper.

### FRONT PARKING AID

The front sensors are active when the transmission is in reverse (R) or drive (D).



#### E187330

Coverage area of up to 28 in (70 cm) from the front bumper. There is decreased coverage area at the outer corners.

When your vehicle approaches an object, a warning tone sounds. When your vehicle moves closer to an object, the warning tone repeat rate increases. The warning tone sounds continuously when an object is 12 in (30 cm) or less from the front bumper.

If the transmission is in reverse (R), the front sensing system provides audio warnings when your vehicle is moving and the detected obstacle is stationary or moving towards your vehicle.

If the transmission is in drive (D) or any other forward gear (for example, low (L), sport (S) or any forward gear in a manual transmission), the front sensing system provides audio warnings when your vehicle is moving below a speed of 7 mph (12 km/h) and an obstacle is located inside the detection area.

### ACTIVE PARK ASSIST (If Equipped)

#### **WARNING**

Designed to be a supplementary park aid, this system may not work in all conditions. This system cannot 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

**Note:** The driver is always responsible for controlling the vehicle, supervising the system and intervening if required.

is in use.

The system detects an available parallel parking space and automatically steers your vehicle into the space (hands-free) while you control the accelerator, gearshift and brakes. The system visually and audibly instructs you to park your vehicle.

The system may not function correctly if something passes between the front bumper and the parking space (a pedestrian or cyclist) or if the edge of the neighboring parked vehicle is high off the ground (for example, a bus, tow truck or flatbed truck).

**Note:** The blindspot information system does not detect traffic alongside or behind your vehicle during a park assist maneuver.

**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 or cause ultrasonic interference (motorcycle exhaust, truck air brakes or horns).

Do not use the system if:

- You have attached a foreign object (bike rack or trailer) to the front or rear of your vehicle or attached close to the sensors.
- You have attached an overhanging object (surfboard) to the roof.
- The front bumper or side sensors are damaged or obstructed by a foreign object (front bumper cover).
- A mini-spare tire is in use.

### **Using Active Park Assist**



Press the button located on the center console near the gearshift lever or the right side of the

center stack.

The touchscreen displays a message and a corresponding graphic to indicate it is searching for a parking space. Use the direction indicator to indicate which side of your vehicle you want the system to search.

**Note:** If the direction indicator is not on, the system automatically searches on your vehicle's passenger side.



When the system finds a suitable space, the touchscreen displays a message and a tone sounds. Slow down, continue moving forward and stop when another tone sounds and a message displays on the touchscreen (at approximately position A), then follow the instructions on the touchscreen.

**Note:** You must observe that the selected space remains clear of obstructions at all times in the maneuver.

**Note:** Active park assist may not detect vehicles with overhanging loads (a bus or a truck), street furniture and other items. You must make sure the selected space is suitable for parking.

**Note:** You should drive your vehicle within 4.9 ft (1.5 m) to the other vehicles while passing a parking space.

**Note:** The system always offers the last detected parking space (for example, if the vehicle detects multiple spaces while you are driving, it offers the last one).

**Note:** If driven above approximately 22 mph (35 km/h), the touchscreen shows a message to alert you to reduce your vehicle speed.

# Automatic Steering into Parking Space

**Note:** If your vehicle speed exceeds 6 mph (9 km/h), the system switches off and you need to take full control of your vehicle.

When you shift the transmission into reverse (R), with your hands off the wheel (and nothing obstructing its movement), your vehicle steers itself into the space. Indicated by tones, instructions to move your vehicle back and forth in the space, display on the touchscreen.





When you think your vehicle has enough space in front and behind it, or you hear a solid tone from the parking aid (accompanied by a touchscreen display message and a chime), bring your vehicle to a complete stop.

When automatic steering is finished, the touch screen displays a message and a tone sounds, 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 park (P).

# Deactivating the Park Assist Feature

Manually deactivate the system by:

- Pressing the active park assist button.
- · Grabbing the steering wheel.

- Driving above approximately 50 mph (80 km/h) for 10 seconds during an active park search.
- Driving above 6 mph (9 km/h) during automatic steering.
- Turning off the traction control system.

Certain vehicle conditions can also deactivate the system, such as:

- Traction control has activated on a slippery or loose surface.
- There is an anti-lock brake system activation or failure.
- · Something touches the steering wheel.

If a problem occurs with the system, a warning message is displayed, followed by a tone. Occasional system messages may occur in normal operation. For recurring or frequent system faults, contact an authorized dealer to have your vehicle serviced.

### **Troubleshooting the System**

#### The system does not look for a space

The traction control system may be off

The transmission is in Reverse (  $\mbox{\it R}\mbox{\it R}\mbox{\it R}$ ); your vehicle must be moving forward to detect a parking space

#### The system does not offer a particular space

Something may be contacting the front bumper or side sensors

There is not enough room on both sides of your vehicle in order to park

There is not enough space for the parking maneuver on the opposite side of the parking space

The parking space is farther than 4.9 ft (1.5 m) or closer than 15.7 in (0.4 m) away.

The transmission is in Reverse (R); your vehicle must be moving forward to detect a parking space

Your vehicle is going faster than 22 mph (35 km/h)

### The system does not position the vehicle where I want in the space

Your vehicle is rolling in the opposite direction of the transmission (rolling forward when Reverse [R] is selected)

An irregular curb along the parking space prevents the system from aligning your vehicle properly

Vehicles or objects bordering the space may not be positioned correctly

You pulled your vehicle 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 (not inflated correctly, improper size, or of different sizes)

A repair or alteration has changed detection capabilities

A parked vehicle has a high attachment (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 (driving from a heated garage into the cold, or after leaving a car wash)

# REAR VIEW CAMERA (If Equipped)

#### **WARNINGS**

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.

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.



Back up as slow as possible since higher speeds might limit your reaction time to stop your vehicle.

### **WARNINGS**

Use caution when using the rear video camera and the luggage

compartment door is ajar. If the luggage compartment door is ajar, the camera will be out of position and the video image may be incorrect. All guidelines disappear when the luggage compartment door is ajar.



Use caution when turning camera features on or off. Make sure your vehicle is not moving.

The rear view camera system provides a video image of the area behind your vehicle.

During operation, lines appear in the display which represent your vehicle's path and proximity to objects behind your vehicle.



F142435

The camera is located on the luggage compartment door.

### Using the Rear View Camera System

The rear view camera system displays what is behind your vehicle when you place the transmission in reverse (R).

**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 system uses three types of guides to help you see what is behind your vehicle:

- Active guidelines: Show the intended path of your vehicle when reversing.
- Fixed guidelines: Show the actual path your vehicle is moving in while reversing in a straight line. This can be helpful when backing into a parking space or aligning your vehicle with another object behind you.
- Centerline: Helps align the center of your vehicle with an object (for example, a trailer).

**Note:** If the transmission is in reverse (R) and the luggage compartment door or liftgate is open, no rear view camera features will display.

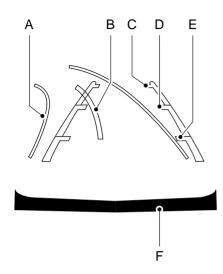
**Note:** When towing, the camera only sees what you are towing. This might not provide adequate coverage as it usually provides in normal operation and some objects might not be seen. In some vehicles, the guidelines may disappear when you connect the trailer tow connector.

The camera may not operate correctly under the following conditions:

- Nighttime or dark areas if one or both reverse lamps are not operating.
- Mud, water or debris obstructs the camera's view. Clean the lens with a soft, lint-free cloth and non-abrasive cleaner
- The rear of your vehicle is hit or damaged, causing the camera to become misaligned.

#### **Camera Guidelines**

**Note:** Active guidelines are only available when the transmission is in reverse (R).



F142436

Active guidelines Α

В Centerline

C Fixed guideline: Green zone

 $\Box$ Fixed guideline: Yellow zone

Е Fixed guideline: Red zone

F Rear bumper

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 you change the steering wheel position while reversing. your vehicle might deviate from the original intended path.

The fixed and active guidelines fade in and out depending on the steering wheel position. The active guidelines do not display when the steering wheel position is straight.

Always use caution while reversing. Objects in the red zone are closest to your vehicle and objects in the green zone are farther away. Objects are getting closer to your vehicle as they move from the green zone to the vellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of the vehicle.

#### Manual Zoom

#### WARNING

When manual zoom is on, the full area behind your vehicle may not show. Be aware of your surroundings when using the manual zoom feature.

**Note:** Manual zoom is only available when the transmission is in reverse (R).

**Note:** When you enable manual zoom, only the centerline is shown.

Selectable settings for this feature are Zoom in (+) and Zoom out (-). Press the symbol in the camera screen to change the view. The default setting is Zoom OFF.

This allows you to get a closer view of an object behind your vehicle. The zoomed image keeps the bumper in the image to provide a reference. The zoom is only active while the transmission is in reverse (R).

# Camera System Settings

To access any of the rear view camera system settings, make the following selections in the multifunctional display when the transmission is not in reverse (R):

Main Menu
Settings
Vehicle
Camera Settings

#### Enhanced Park Aids or Park Pilot

Selectable settings for this feature are ON and OFF.

The system uses red, yellow and green highlights that appear on top of the video image when any of the sensing systems detect an object.

#### Rear Camera Delay

Selectable settings for this feature are ON and OFF.

The default setting for the rear camera delay is OFF.

When shifting the transmission out of reverse (R) and into any gear other than park (P), the camera image remains in the display until:

- Your vehicle speed sufficiently increases.
- You shift your vehicle into park (P).
- · 10 seconds of time elapse.

### PRINCIPLE OF OPERATION

Cruise control lets you maintain a set speed without keeping your foot on the accelerator pedal. You can use cruise control when your vehicle speed is greater than 20 mph (30 km/h).

### **USING CRUISE CONTROL**

#### **WARNINGS**

Do not use cruise control on winding roads, in heavy traffic or, when the road surface is slippery. This could result in loss of vehicle control, serious injury or death.

When you are going downhill, your vehicle speed may increase above the set speed. The system will not apply the brakes but a warning displays.



E197198

The cruise controls are on the steering wheel.

# **Switching Cruise Control On**

Press and release ON.



The indicator appears in the instrument cluster.

# **Setting the Cruise Speed**

Drive to desired speed.

- 2. Press and release **SET+**.
- 3. Take your foot off the accelerator pedal.

Note: The indicator will change color.

**Note:** Cruise control will disengage if the vehicle speed decreases more than 10 mph (16 km/h) below the set speed while driving uphill.

#### **Changing the Set Speed**

- Press the accelerator or brake pedal until you reach the desired speed. Press and release SET+.
- Press and hold SET+ or SET-. Release the control when you reach the desired speed.
- Press and release SET+ or SET-. The set speed will change in approximately 3 mph (5 km/h) increments.

**Note:** If you accelerate by pressing the accelerator pedal, the set speed will not change. When you release the accelerator pedal, your vehicle returns to the speed that you previously set.

### **Canceling the Set Speed**

Press and release **CAN** or tap the brake pedal. You will not erase the set speed.

## **Resuming the Set Speed**

Press and release **RES**.

# **Switching Cruise Control Off**

Press and release **OFF** when the system is in stand by mode or switch the ignition off.

**Note:** You will erase the set speed if you switch the system off.

# USING ADAPTIVE CRUISE CONTROL (If Equipped)

#### WARNINGS

Always pay close attention to changing road conditions when using adaptive cruise control. The system does not replace attentive driving. Failing to pay attention to the road may result in a crash, serious injury or death.



Adaptive cruise control does not detect stationary or slow moving vehicles below 6 mph (10 km/h).



Do not use adaptive cruise control on winding roads, in heavy traffic or when the road surface is slippery.

This could result in loss of vehicle control, serious injury or death.

Do not use adaptive cruise control when towing a trailer that has trailer brakes. The auto-brake component of the adaptive cruise control system does not operate the trailer brakes. Using adaptive cruise control when towing a trailer that has trailer brakes may result in the loss of vehicle control, which could result in serious injury.



Adaptive cruise control is not a crash warning or avoidance system.



Adaptive cruise control does not detect pedestrians or objects in the road.



Adaptive cruise control does not detect oncoming vehicles in the same lane.



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



Do not use the system when entering or leaving a freeway.

#### WARNINGS

Do not use tire sizes other than those recommended because this can affect the normal operation of the system. Failing to do so may result in a loss of vehicle control, which could result in serious injury.

**Note:** It is your responsibility to stay alert, drive safely and be in control of the vehicle at all times.

The system is designed to help you maintain a gap from the vehicle in front of you. If there is no vehicle in front of you the system will maintain a set speed. The system is intended to provide enhanced operation of your vehicle when following other vehicles which are in the same lane and traveling in the same direction. You can select from one of four gap settings.

The system is based on the use of a radar sensor which projects a beam directly forward of your vehicle.



E197202

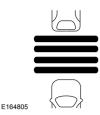
The adaptive cruise controls are on the steering wheel.

# **Switching the System On**

Press and release ON.



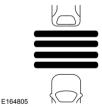
The information display shows the grey indicator light.



The current gap setting and **SET** also display.

## **Setting a Speed**

- 1. Accelerate to the desired speed.
- 2. Press and release **SET+**. The vehicle speed is stored in the memory.
- The information display shows a green indicator light, current gap setting and desired set speed.
- 4. Take your foot off the accelerator pedal.



A lead vehicle graphic illuminates when the system detects a vehicle in front of you.

**Note:** When adaptive cruise control is active, the speedometer may vary slightly from the set speed displayed in the information display.

### Following a Vehicle

#### WARNINGS



When following a vehicle in front of you, your vehicle does not decelerate automatically to a stop, nor does

your vehicle always decelerate quickly enough to avoid a crash without driver intervention. Always apply the brakes when necessary. Failing to do so may result in a crash, serious injury or death.



Adaptive cruise control only warns of vehicles detected by the radar sensor. In some cases there may be

no warning or a delayed warning. You should always apply the brakes when necessary. Failure to do so may result in a crash, serious injury or death.

**Note:** The brakes may emit a sound when the adaptive cruise control system is active.

When a vehicle ahead of you enters the same lane or a slower vehicle is ahead in the same lane, the vehicle speed adjusts to maintain a preset gap distance. The distance setting is adjustable.

The lead vehicle graphic illuminates.

When you are following a vehicle and you switch on your left directional indicator, adaptive cruise control may provide a small temporary acceleration to help you pass.

The vehicle maintains 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 12 mph (20 km/h).
- A new gap distance is set.

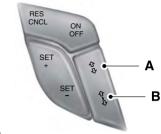
The vehicle applies brakes to slow the vehicle to maintain a safe distance from the vehicle in front. The maximum braking which the system can apply is limited. You can override the system by applying the brakes.

If the system predicts that its maximum braking level is insufficient, an audible warning sounds while the system continues to brake. The red warning bar appears on the windshield. You should take immediate action

## **Setting the Gap Distance**

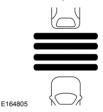
You can decrease or increase the gap between your vehicle and the vehicle in front of you by pressing the gap control. You can select four gap settings.

**Note:** It is your responsibility to select a gap appropriate to the driving conditions.



E197201

- A Gap decrease.
- B Gap increase.



The selected gap appears in the information display as shown by the bars in the graphic. Four gap distance settings are available.

# Adaptive cruise control, distance between vehicle settings

Set speed mph ( km/h)	Graphic display, bars indicated between vehicles	Time gap, seconds	Distance gap yd (m)	Dynamic beha- vior
62 (100)	1	1	31 (28)	Sport.
62 (100)	2	1.4	43 (39)	Normal.
62 (100)	3	1.8	55 (50)	Normal.
62 (100)	4	2.2	67 (61)	Comfort.

Each time you start the vehicle, the system selects the last chosen gap for the current driver.

### Disengaging the System

Press the brake pedal or press **CNCL**. The last set speed displays in grey but does not erase.

### **Overriding the System**

#### WARNING

Whenever the driver presses the accelerator pedal and overrides the system, the system does not

automatically apply the brakes to maintain the set distance from any vehicle ahead.

Press the accelerator pedal to override the set speed and gap distance.



When you override the system, the green indicator light illuminates and the lead vehicle graphic does not show in the

information display.

The system resumes operation when you release the accelerator pedal. The vehicle speed decreases to the set speed, or a slower speed if following a slower vehicle.

# **Changing the Set Speed**

- Press and release SET+ or SET-. The set speed changes in approximately 1 mph (2 km/h) increments.
- Press the accelerator or brake pedal until you reach the desired speed. Press and release SET+.
- Press and hold SET+ or SET-. Release the control when you reach the desired speed.

The system may apply the brakes to slow the vehicle to the new set speed. The set speed displays continuously in the information display when the system is active.

### **Canceling the Set Speed**

Press the brake pedal or press and release **CNCL**. The last set speed displays with a strikethrough.

### Resuming the Set Speed

**Note:** Only use resume if you are aware of the set speed and intend to return to it.

Press and release **RES**. The vehicle returns to the previously set speed. The set speed displays continuously in the information display while the system is active.

### **Automatic Cancellation**

The system does not operate below 12 mph (20 km/h). An audible warning sounds and the automatic braking releases if the vehicle drops below this speed.

Automatic cancellation can also occur if:

- The tires lose traction.
- The engine speed is too low.
  - You apply the parking brake.

**Note:** If the engine speed drops too low, the information display indicates low engine speed. Shift to a lower gear (manual transmission only) to avoid automatic cancellation.

# **Hilly Condition Usage**

**Note:** An audible alarm sounds and the system shuts down if it is applying brakes for an extended period of time. This allows the brakes to cool. The system functions normally again when the brakes cool.

Select a lower gear during prolonged downhill driving on steep slopes, such as mountainous areas, when the system is active. In such situations, the system needs additional engine braking to reduce the load on the vehicle's regular brake system to prevent the brakes from overheating.

### Switching the System Off

**Note:** The set speed memory erases when you switch off the system.

Press and release **OFF** or turn off the ignition.

#### **Detection Issues**

#### WARNING

On rare occasions, detection issues can occur due to the road infrastructures, for example bridges, tunnels and safety barriers. In these cases, the system may brake late or unexpectedly. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required.

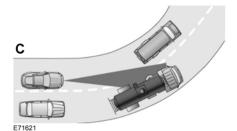
The radar sensor has a limited field of vision. It may not detect vehicles at all or detect a vehicle later than expected in some situations. The lead vehicle graphic does not illuminate if the system does not detect a vehicle in front of you.

#### Α



#### В





#### Detection issues can occur:

- A When driving on a different line than the vehicle in front.
- B With vehicles that edge into your lane. The system can only detect these vehicles once they move fully into your lane.
- C There may be issues with the detection of vehicles in front when driving into and coming out of a bend or curve in the road.

In these cases the system may brake late or unexpectedly. The driver should stay alert and intervene when necessary.

If something hits the front end of your vehicle or damage occurs, the radar-sensing zone may change. This could cause missed or false vehicle detections. See an authorized dealer to have the radar checked for proper coverage and operation.

# **System Not Available**

Conditions that can cause the system to deactivate or prevent the system from activating when requested include:

- · A blocked sensor.
- · High brake temperature.
- A failure in the system or a related system.

#### **Blocked Sensor**



E145632

A message appears if something obstructs the sensor's radar signals. The sensor is located behind a cover near the driver side of the lower grille. The system cannot detect a vehicle ahead and does not function when something obstructs the radar signal. The following table lists possible causes and actions for this message displaying.

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 free from obstruction.
Heavy rain or snow is interfering with the radar signals.	Do not use the system in these conditions because it may not detect any vehicles ahead.
Swirling water, or snow or ice on the surface of the road may interfere with the radar signals.	Do not use the system in these conditions because it may not detect any vehicles ahead.
You are in a desert or 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 with no actual block. This happens, for example, when driving in sparse rural or desert environments. A false blocked condition either self clears or clears after a you restart your vehicle.

# Switching to Normal Cruise Control

#### WARNING

Normal cruise control does not brake for slower vehicles. Always be aware of which mode you have 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 replaces the adaptive cruise control indicator light if you

select normal cruise control. The gap setting does not display, the system does not automatically respond to lead vehicles and automatic braking does not activate.

### DRIVER ALERT (If Equipped)

#### PRINCIPLE OF OPERATION

#### 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 or off setting in the information display menu through ignition cycles.

**Note:** If enabled in the menu, the system will be active at speeds above 40 mph (64 km/h). When below the activation speed, the information display will inform the driver that the system is unavailable.

**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.

#### **USING DRIVER ALERT**

### Switching the System On and Off

Switch the system on or off using the information display. See **General Information** (page 96).

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 (64 km/h).

The warning system has 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, it may issue another warning that will remain in the information display for a longer time. You can 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 a warning if required. You can view the status at any time using the information display. See (page 96).

The alertness level is shown by six steps in a colored bar.



E131358

The current assessment of your alertness is within a typical range.



E131359

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 vellow position indicates the first warning is active and the red position indicates the second warning is active.

Note: If you have recently received a warning; you should consider resting, even if the current assessment is within the tvpical range.

**Note:** If the camera sensor cannot track the road lane markings or if your vehicle speed drops below approximately 40 mph (64 km/h), the alertness level will change to grev for a short time and the information display will inform you that the system is unavailable.

#### 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.

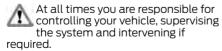
#### LANE KEEPING SYSTEM (15

#### Equipped)

#### WARNINGS



The system does not relieve you of your responsibility to drive with due care and attention.





If the sensor becomes blocked the system may not function.

#### WARNINGS



In cold and severe weather conditions the system may not function. Rain, snow, spray can all limit sensor performance.



Large contrasts in lighting can limit sensor performance.



The system will not operate if the sensor cannot track the road lane markings.



The vehicle should be taken to an authorized dealer for inspection if damage occurs in the immediate area surrounding the sensor.

**Note:** The system works above 40 mph (64 km/h).

**Note:** The system works as long as the camera can detect one lane marking.

**Note:** The system may not function if the camera is blocked or there is damage to the windshield.

**Note:** When Aid mode is on and the system detects no steering activity for a short period, the system will alert you to put your hands on the steering wheel. The system may detect a light grip or touch on the steering wheel as hands off driving.

The system notifies you to stay in your lane through the steering system and the instrument cluster display when the front camera detects an unintentional drift out of your lane is likely to occur. The system automatically detects and tracks the road lane markings using a camera mounted behind the interior rear view mirror.

# Switching the System On and Off

**Note:** The system on or off setting is stored until it is manually changed, unless a MyKey is detected. If the system detects a MyKey it defaults to on and the mode is set to Alert.

**Note:** If a MyKey is detected, pressing the button will not affect the on or off status of the system.

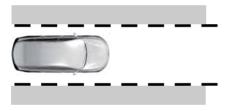


Press the button located on the left steering wheel stalk to switch the system on or off.

### **System Settings**

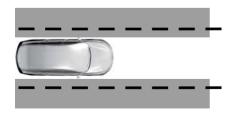
The system has optional setting menus available. To view or adjust the settings, See (page 96). The system stores the last-known selection for each of these settings. You do not need to readjust your settings each time you turn on the system.

**Mode:** This setting allows you to select which of the system features you can enable.



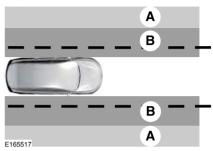
E165515

Alert only – Provides a steering wheel vibration when the system detects an unintended lane departure.



E165516

Aid only — Provides an assistance steering torque input toward the lane center when the system detects an unintended lane departure.



- A Alert
- B Aid

Alert + Aid — Provides an assistance steering torque input toward the lane center. If your vehicle continues drifting out of the lane, the system provides a steering wheel vibration.

**Note:** The alert and aid diagrams illustrate general zone coverage. They do not provide exact zone parameters.

**Intensity:** This setting affects the intensity of the steering wheel vibration used for the alert and alert + aid modes. This setting does not affect the aid mode.

- Low
- Medium
- High

#### **System Display**



F151660

When you switch on the system, an overhead graphic of a vehicle with lane markings will display in the information display. If you select aid mode when you switch on the system, a separate white icon will also appear or in some vehicles arrows will display with the lane markings.

When you switch off the system, the lane marking graphics will not display.

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:

- Your vehicle is under the activation speed.
- The turn indicator is active.

- · Your 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 (significant sun angles, shadows, snow, heavy rain or fog), traffic conditions (following a large vehicle that is blocking or shadowing the lane), or vehicle conditions (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:

- Ouick braking.
- Fast acceleration.
- Using the turn signal indicator.
- Evasive steering maneuver.

## **Troubleshooting**

# Why is the feature not available (line markings are gray) when I can see the lane markings on the road?

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

# Why is the feature not available (line markings are gray) when I can see the lane markings on the road?

Driving at high speeds in curves

The last Alert warning or Aid intervention occurred a short time ago

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

Driving 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

Driving on tight roads or on uneven roads

# Why does the vehicle not come back toward the middle of the lane, as expected, in the Aid or Aid + Alert mode?

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

# Blind Spot Information System (BLIS™) with Cross Traffic Alert

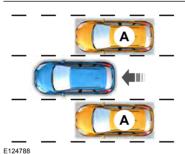
(If Equipped)

#### WARNING

Λ

To help avoid injuries, NEVER use the Blind Spot Information System as a replacement for using the interior

and exterior mirrors and looking over your shoulder before changing lanes. The Blind Spot Information System is not a replacement for careful driving.



The Blind Spot Information System is designed to aid you in detecting vehicles that may have entered the blind spot zone (A). The detection area is on both sides of your vehicle, extending rearward from the exterior mirrors to approximately 10 ft (3 m) beyond the bumper. The system is designed to alert you if certain vehicles enter the blind spot zone while driving.

Cross Traffic Alert is designed to warn you of vehicles approaching from the sides when the transmission is in reverse (R).

**Note:** The Blind Spot Information System does not prevent contact with other vehicles or objects; nor detect parked vehicles, people, animals or infrastructure (fences, guardrails, trees, etc.). It's only designed to alert you 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**

The Blind Spot Information System turns on when you start the engine and you drive you vehicle forward above 5 mph (8 km/h); it remains on while the transmission is in drive (D) or neutral (N). If shifted out of drive (D) or neutral (N), the system enters cross traffic alert mode. Once shifted back into drive (D), the Blind Spot Information System turns back on when you drive your vehicle above 5 mph (8 km/h).

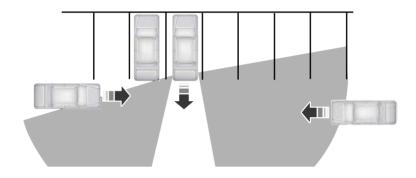
**Note:** The Blind Spot Information System does not function in reverse (R) or park (P) or provide any additional warning when a turn signal is on.

**Note:** Cross Traffic Alert is designed to detect approaching vehicles from up to 46 ft (14 m) away, though coverage decreases when the sensors are blocked. Reversing slowly helps increase the coverage area and effectiveness.

**Note:** For manual transmission vehicles, the Cross Traffic Alert will be active only if the transmission is in reverse (R). If your vehicle is rolling backwards and the transmission is not in reverse (R) then Cross Traffic Alert will not be active.

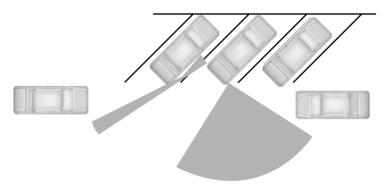
#### **WARNING**

To help avoid personal injury, NEVER use the Cross Traffic Alert system as a replacement for using the interior and exterior mirrors and looking over your shoulder before backing out of a parking space. Cross Traffic Alert is not a replacement for careful driving.



E142440

In this first example, the left sensor is only partially obstructed; zone coverage is nearly maximized.



E142441

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**



E142442

The Blind Spot Information and Cross Traffic Alert systems illuminate a yellow alert indicator in the outside mirror on the side of your vehicle the approaching vehicle is coming from.

**Note:** The alert indicator dims when the system detects nighttime darkness.

Cross Traffic Alert also sounds a series of tones and a message appears in the information display indicating a vehicle is coming from the right or left. Cross Traffic Alert works with the reverse sensing system that sounds its own series of tones. See **Principle of Operation** (page 179).

### 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 Blind Spot Information System as a replacement for using the side and rear view mirrors and looking over your shoulder before changing lanes. The Blind Spot Information System is not a replacement for careful driving.

**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 your vehicle. Do not allow mud, snow or bumper stickers to obstruct these areas, this can cause degraded system performance.

If the system detects a degraded performance condition, a message warning of a blocked sensor or low visibility will appear in the information display along with a warning indicator. You can clear the information display warning but the warning indicator will remain illuminated.

When you remove a blockage, you can reset the system in two ways:

- While driving, the system detects at least two objects.
- You cycle the ignition from on to off and then back on.

If the blockage is still present after the key cycle and driving in traffic, check again for a blockage.

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 or snowfall interferes with the radar signals	No action required. The system automatically resets to an unblocked state once the rainfall or snowfall rate decreases or stops. Do not use the Blind Spot Information System or Cross Traffic Alert in these conditions.			

### **System Limitations**

The Blind Spot Information and Cross Traffic Alert 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 Blind Spot Information System:

- 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 Cross Traffic Alert 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 5 mph (8 km/h).
- Backing out of an angled parking spot.

#### **False Alerts**

**Note:** If your vehicle has a factory equipped tow bar and it is towing a trailer, the sensors will detect the trailer and turn the Blind Spot Information and Cross Traffic Alert systems off to avoid false alerts. For non-factory equipped tow bars, you may want to turn the Blind Spot Information System off manually.

There may be certain instances when there is a false alert by either the Blind Spot Information or the Cross Traffic Alert systems that illuminates the alert indicator with no vehicle in the coverage zone. 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 Blind Spot Information System warning indicator will illuminate and a message will appear in the information display.

All other system faults will display only with a message in the information display. See **Information Messages** (page 105).

### Switching the Systems Off and On

You can temporarily switch off one or both systems in the information display. See (page 96). When you switch off the Blind Spot Information System, you will not receive alerts and the information display will display a system off message.

**Note:** The Cross Traffic Alert system always switches on whenever the ignition is switched on. However, the Blind Spot Information System will remember the last selected on or off setting.

One or both systems cannot be switched off when MyKey is used. See (page 54).

You can also have one or both systems switched off permanently at an authorized dealer. Once switched off, the system can only be switched back on at an authorized dealer.

#### **STEERING**

## **Electric Power Steering**

#### WARNING

The electric power steering system has diagnostic checks that

continuously monitor the system. If a fault is detected, a message displays in the information display. Stop your vehicle as soon as it is safe to do so. Switch the ignition off. After at least 10 seconds, switch the ignition on and watch the information display for a steering system warning message. If a steering system warning message returns, have the system checked by an authorized dealer.

Your vehicle has an electric power steering system. There is no fluid reservoir. No maintenance is required.

If your vehicle loses electrical power while you are driving, electric power steering assistance is lost. The steering system still operates and you can steer your vehicle manually. Manually steering your vehicle requires more effort.

Extreme continuous steering may increase the effort required for you to steer your vehicle. This increased effort prevents overheating and permanent damage to the steering system. You do not lose the ability to steer your vehicle manually. Typical steering and driving maneuvers allow the system to cool and return to normal operation.

#### **Steering Tips**

If the steering wanders or pulls, check for:

- Correct tire pressures.
- Uneven tire wear.
- Loose or worn suspension components.
- Loose or worn steering components.
- Improper vehicle alignment.

**Note:** A high crown in the road or high crosswinds may also make the steering seem to wander or pull.

### **Adaptive Learning**

The electronic power steering system adaptive learning helps correct road irregularities and improves overall handling and steering feel. It communicates with the brake system to help operate advanced stability control and accident avoidance systems. Additionally, whenever the battery is disconnected or a new battery installed, you must drive your vehicle a short distance before the system relearns the strategy and reactivates all systems.

## PRE-COLLISION ASSIST

#### **WARNINGS**

This system is an extra driving aid. It does not replace your attention and judgment, or the need to apply the brakes. This system does NOT automatically brake your vehicle. If you fail to press the brake pedal when necessary, you may collide with another vehicle.

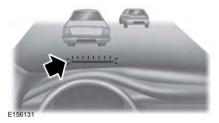
The Pre-Collision Assist system with brake support cannot help prevent all collisions. Do not rely on this system to replace your judgment and the need to maintain correct distance and speed.

**Note:** The system does not detect, warn or respond to potential collisions with vehicles to the rear or sides of your vehicle.

**Note:** The Pre-Collision Assist system is active at speeds above approximately 5.0 mph (8 km/h).



The system alerts you of certain collision risks. The system's sensor detects your vehicle's rapid approach to other vehicles traveling in the same direction as your vehicle.



When your vehicle rapidly approaches another vehicle, a red warning light flashes and a tone sounds.

The brake support system assists you in reducing any collision speed by pre-charging the brakes. If the risk of collision continues to increases after the audio-visual warning, the brake support prepares the brake system for rapid braking. The system does not automatically activate the brakes, but if the brake pedal is pressed even lightly, the brakes apply full stopping power.

# Using the Pre-Collision Assist System

#### WARNING

The Pre-Collision Assist system's brake support reduces collision speed only if you brake your vehicle before any collision. As in any typical braking situation, you must press your brake pedal.

You can adjust the warning system's sensitivity through your information display. See **General Information** (page 96).

**Note:** When possible, the manufacturer recommends using the highest sensitivity setting. If warnings are too frequent, you can reduce your system's sensitivity. Reduced sensitivity causes fewer and later system warnings. See **General Information** (page 96).

#### **Blocked Sensors**



E145632

If a blocked sensor message appears in the information display, dirt, water, or an object is blocking the sensor. The sensor is located behind a cover near the driver side of the lower grille. If anything blocks the sensor, your vehicle cannot see through the sensor, and the pre-collision assist system will not work. Possible causes for the blocked sensor message and corrective actions are listed below.

Cause	Action
The radar sensor cover in the grille is dirty or obstructed	Clean the radar sensor cover or remove the obstruction
The surface of the radar sensor cover is clean but the message remains in the display	Wait a short time. The radar may take several minutes to reset after you remove the obstruction
Heavy rain, spray, snow or fog in the air interferes with the radar signals	The Pre-Collision Assist system is tempor- arily disabled. Shortly after weather condi- tions improve, the collision warning system automatically reactivates
Swirling water, snow or ice on the road surface interferes with the radar signals	The Pre-Collision Assist system is tempor- arily disabled. Shortly after weather condi- tions improve, the collision warning system automatically reactivates

#### **System Limitations**

#### **WARNING**

The Pre-Collision Assist system's brake support only reduces collision speed if you first apply your brakes. You must brake as you would in 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 6.2 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.
- Large steering wheel and pedal movements (very active driving style).

Damage to the front end of your vehicle may alter the radar sensor's coverage area. This may result in missed or false collision warnings. Have an authorized dealer check your radar sensor for proper coverage and operation.

#### **LOAD LIMIT**

# Vehicle Loading - with and without a Trailer

This section will guide you in the proper loading of your vehicle, trailer or both, 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 full fluids 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.



E143816

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 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

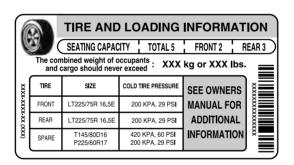
payload. The payload listed on the

Tire Label is the maximum payload for the vehicle as built by the assembly plant. If you install any aftermarket or authorized-dealer installed equipment on the vehicle, you must subtract the weight of the equipment from the payload listed on the Tire Label in order to determine the new payload.

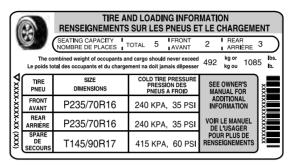
#### **WARNING**

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:**



E142516



E142517



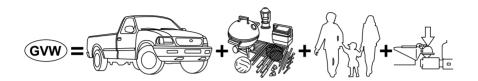
E143817

**Cargo Weight -** includes all weight added to the Base Curb Weight, including cargo and optional equipment. When towing, trailer tongue load or king pin 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 Gross Axle Weight Rating.

**Note:** For trailer towing information refer to the RV and Trailer Towing Guide available at an authorized dealer.



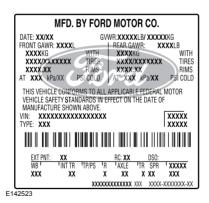
F143818

**GVW (Gross Vehicle Weight)** - is the Vehicle Curb Weight, plus cargo, plus passengers.

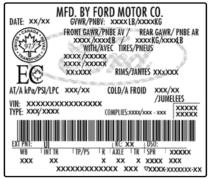
**GVWR (Gross Vehicle Weight Rating) -** is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). It is shown on the

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 Gross Vehicle Weight must never exceed the Gross Vehicle Weight Rating.** 

# Example only:



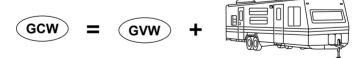
212



E142524

#### 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.



E143819

# **GCW (Gross Combined Weight)**

• is the Gross Vehicle Weight 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

## **Load Carrying**

for operation at Gross Vehicle Weight Rating, not at Gross Combined Weight Rating.) Separate functional brakes should be used for safe control of towed vehicles and for trailers where the Gross Combined Weight of the towing vehicle plus the trailer exceed the Gross Vehicle Weight Rating of the towing vehicle. **The Gross Combined Weight must never exceed the Gross**Combined Weight Rating.

**Maximum Loaded Trailer Weight -** is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with mandatory options. driver and front passenger weight (150 pounds [68 kilograms] each), no cargo weight (internal or external) and a tongue load of 10–15% (conventional trailer) or king pin weight of 15–25% (fifth wheel trailer). Consult an authorized dealer (or the RV and Trailer Towing Guide available at an authorized dealer) for more detailed information.

**Tongue Load or Fifth Wheel King Pin Weight -** refers to the amount of the weight that a trailer pushes down on a trailer hitch.

**Examples:** For a 5000 pound (2268 kilogram) conventional trailer, multiply 5000 by 0.10 and 0.15 to obtain a proper tongue load range of 500 to 750 pounds (227 to 340 kilograms). For an 11500 pound (5216 kilogram) fifth wheel trailer, multiply by 0.15 and 0.25 to obtain a proper king pin load range of 1725 to 2875 pounds (782 to 1304 kilograms).

## **WARNINGS**

Do not exceed the GVWR or the GAWR specified on the Safety Compliance Certification Label.

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.

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:

 Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lb." on your vehicle's placard.

## **Load Carrying**

- Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- Subtract the combined weight of the driver and passengers from XXX kg or XXX lb.
- 4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1,400 lb. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lb. (1400-750 (5 x 150) = 650 lb.)
- 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.
- 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:

\*Suppose your vehicle has a 1400-pound (635-kilogram) cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, four of your friends and all the golf bags? You and four friends average 220 pounds (99 kilograms) each and the golf bags weigh approximately 30 pounds (13.5 kilograms) each. The calculation would be: 1400 - $(5 \times 220) - (5 \times 30) = 1400 - 1100$  150 = 150 pounds. Yes. you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be: 635 kilograms - (5 x 99 kilograms) - $(5 \times 13.5 \text{ kilograms}) = 635 - 495 -$ 67.5 = 72.5 kilograms.

\*Suppose your vehicle has a 1400-pound (635-kilogram) cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past two years. Measuring the inside of the vehicle with the rear seat folded down, you have room for twelve 100-pound (45-kilogram) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 pounds (99 kilograms), the calculation would be: 1400 - $(2 \times 220) - (12 \times 100) = 1400 - 440$ - 1200 = - 240 pounds. No. you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would

## **Load Carrying**

be: 635 kilograms - (2 x 99 kilograms) - (12 x 45 kilograms) = 635 - 198 - 540 = -103 kilograms. You will need to reduce the load weight by at least 240 pounds (104 kilograms). If you remove three 100-pound (45-kilogram) cement bags, then the load calculation would be: 1400 - (2 x 220) - (9 x 100) = 1400 - 440 -900 = 60 pounds. Now you have the load capacity to transport the cement and vour friend home. In metric units. the calculation would be: 635 kilograms - (2 x 99 kilograms) - (9 x 45 kilograms) = 635 - 198 - 405 = 32 kilograms.

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**

#### WARNINGS

Do not exceed the GVWR or the GAWR specified on the certification label.

Towing trailers beyond the maximum recommended gross trailer weight exceeds the limit of your vehicle and could result in engine damage, transmission damage, structural damage, loss of vehicle control, vehicle rollover and personal injury.

**Note:** Your vehicle may have electrical items, such as fuses or relays, related to towing. See **Fuses** (page 237).

Your vehicle's load capacity designation is by weight, not by volume, so you cannot necessarily use all available space when loading a vehicle.

Towing a trailer places an extra 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 your vehicle when driving:

- Load the heaviest items closest to the trailer floor.
- Load the heaviest items centered between the left and right side trailer tires.
- Load the heaviest items above the trailer axles or just slightly forward toward the trailer tongue. Do not allow the final trailer tongue weight to go above or below 10-15% of the loaded trailer weight.
- 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 your 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 located in the Load Carrying chapter. See **Load Limit** (page 209).

You can also find information in the **RV & Trailer Towing Guide** available at your authorized dealer, or online.

## RV & Trailer Towing Guide Online

Website http://www.fleet.ford.com/towing-guides/

## 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 (1.11 meters) for 1.5L GTDI and 2.5L TiVCT or 20 feet (1.86 meters) for 2.0L GTDI.

**Note:** For high altitude operation, reduce the gross combined weight by 2% per 1,000 ft (300 m) starting at the 1,000 ft (300 m) 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 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 <sup>*</sup>
1.5L GTDI	1000 lb (454 kg)
2.0L GTDI	2000 lb (907 kg)
2.5L TiVCT	1000 lb (454 kg)

<sup>\*</sup>Calculated with SAE J2807 method.

#### **ESSENTIAL TOWING CHECKS**

Follow these guidelines for safe towing:

- Do not tow a trailer until you drive your vehicle at least 1000 miles (1600 kilometers).
- Consult your local motor vehicle laws for towing a trailer.
- See the instructions included with towing accessories for the proper installation and adjustment specifications.
- Service your vehicle more frequently if vou tow a trailer. See your scheduled maintenance information.
- If you use a rental trailer, follow the instructions the rental agency gives VOU.

You can find information on load specification terms found on the tire label and Safety Compliance label as well as instructions on calculating your vehicle's load in the Load Carrying chapter. See Load Limit (page 209).

Remember to account for the trailer tongue weight as part of your 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 your 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 you install them properly and adjust them to the manufacturer's specifications. The trailer brakes must meet local and federal regulations.

The rating for the tow vehicle's braking system operation is at the gross vehicle weight rating, not the gross combined weight rating.

### **Trailer Lamps**

#### WARNING

Never connect any trailer lamp wiring to the vehicle's tail lamp wiring; this may damage the electrical system

resulting in fire. Contact your authorized dealer as soon as possible for assistance in proper trailer tow wiring installation. Additional electrical equipment may be required.

Trailer lamps are required on most towed vehicles. Make sure all running lights, brake lights, turn signals and hazard lights are working.

## **Before Towing a Trailer**

Practice turning, stopping and backing up to get the feel of your vehicle-trailer combination before starting on a trip. When turning, make wider turns so the trailer wheels 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 the gearshift in position P to aid engine and transmission cooling and to help A/C performance.
- Turn off the speed control with heavy loads or in hilly terrain. The speed control may turn off 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:
- Turn the steering wheel to point your vehicle tires away from traffic flow.
- 2. Set your vehicle parking brake.
- 3. Place the automatic transmission in position **P**.
- 4. Place wheel chocks in front and back of the trailer wheels. (Chocks not included with vehicle.)

### Launching or Retrieving a Boat or Personal Watercraft (PWC)

**Note:** Disconnect the wiring to the trailer **before** backing the trailer into the water.

**Note:** Reconnect the wiring to the trailer **after** removing the trailer from the water.

When backing down a ramp during boat launching or retrieval:

- Do not allow the static water level to rise above the bottom edge of the rear bumper.
- Do not allow waves to break higher than 6 inches (15 centimeters) above the bottom edge of the rear bumper.

Exceeding these limits may allow water to enter vehicle components:

- Causing internal damage to the components.
- Affecting driveability, emissions, and reliability.

Any time the rear axle submerges in water, replace the rear axle lubricant. Water may contaminate the rear axle lubricant, which is not a normal maintenance inspection item unless there is a possibility of a leak or other axle repair is required.

## **TOWING POINTS**

Due to local market requirements in some countries, some vehicles may be equipped with a recovery hook.

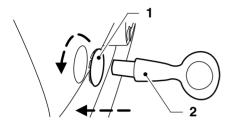
## **Recovery Hook Location**

If your vehicle is equipped with a screw-in recovery hook, it is located with the spare tire kit.

## **Installing the Recovery Hook**

There is an installation point for the recovery hook located behind the fascia.

**Note:** The screw-in recovery hook has a left-hand thread. Turn it counterclockwise to install it. Make sure that the recovery hook is fully tightened.



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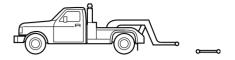


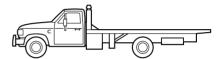
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Remove the recovery hook cover by prying it off at the notch with a screwdriver or similar object.

**Note:** Use a soft cloth to cover the prying tool. This helps prevent scratch marks to the vehicle's paint.

### **TRANSPORTING THE VEHICLE**







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.

We recommend the use of a wheel lift and dollies or flatbed equipment to tow your vehicle. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure. Vehicle damage may occur if towed incorrectly, or by any other means.

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.

It is acceptable to have your front-wheel drive vehicle towed from the front if using proper wheel lift equipment to raise the front wheels off the ground. When towing in this manner, the rear wheels can remain on the ground.

Front-wheel drive vehicles must have the front wheels placed on a tow dolly when towing your vehicle from the rear using wheel lift equipment. This prevents damage to the transmission.

Towing an all-wheel drive vehicle requires that all wheels be off the ground, such as using a wheel lift and dollies or flatbed equipment. This prevents damage to the transmission, all-wheel drive system and vehicle.

## TOWING THE VEHICLE ON FOUR WHEELS

### **Emergency Towing**

#### **WARNING**

If your vehicle has a steering wheel lock make sure the ignition is in the accessory or on position when being towed.

If your vehicle becomes inoperable (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 and transmission configuration) under the following conditions:

- Your vehicle is facing forward for towing in a forward direction.
- Place the transmission in position N. If you cannot move the transmission into N, you may need to override it. See Transmission (page 163).

- 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. See **Climate Control** (page 120).

Follow these guidelines if you have a need for recreational (RV) towing. An example of recreational towing would be towing your vehicle behind a motorhome. We designed these guidelines to prevent damage to your transmission.

#### Front-wheel Drive Vehicles

Front-wheel drive vehicles **CANNOT** be flat-towed (all wheels on the ground) as vehicle or transmission damage may occur. It is recommended to tow your vehicle 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.

#### **All-wheel Drive Vehicles**

All-wheel drive vehicles **CANNOT** be flat-towed (all wheels on the ground) as vehicle or transmission damage may occur. It is recommended to tow your vehicle with all four (4) wheels off the ground such as when using a car-hauling trailer. Otherwise, you cannot recreational tow your vehicle.

## **Driving Hints**

#### **BREAKING-IN**

You need to break in new tires for approximately 300 miles (480 kilometers). During this time, your vehicle may exhibit some unusual 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.
- Anticipate stops; slowing down may eliminate the need to stop.
- Combine errands and minimize stop-and-go driving.
  - When running errands, go to the furthest destination first and then work your way back home.
- Close the windows for high-speed driving.
- Drive at reasonable speeds. (Traveling at 65 mph/105 kph uses about 15% less fuel than traveling at 75 mph/121 kph).
- 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 want to avoid doing because they reduce your fuel economy:

- Avoid sudden or hard accelerations.
- Avoid revving the engine before turning off the car.
- Avoid long idle periods.
- Do not warm up your vehicle on cold mornings.
- Reduce the use of air conditioning and heat.
- Avoid using speed control in hilly terrain.
- Do not rest your foot on the brake pedal while driving.
- Avoid carrying unnecessary weight (approximately 1 mpg [0.4 kilometers/liter] is lost for every 400 lbs [180 kilograms] of weight carried).
- Avoid adding particular accessories to your vehicle (e.g. bug deflectors, rollbars/light bars, running boards, ski racks).
- Avoid driving with the wheels out of alignment.

## **DRIVING THROUGH WATER**

## WARNING



Do not drive through flowing or deep water as you may lose control of your vehicle.

**Note:** Driving through standing water can cause vehicle damage.

**Note:** Engine damage can occur if water enters the air filter.

## **Driving Hints**

Before driving through standing water. check the depth. Never drive through water that is higher than the bottom of the front rocker area of your vehicle.



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When driving through standing water, drive very slowly and do not stop your vehicle. Your brake performance and traction may be limited. After driving through water and as soon as it is safe to do so:

- Lightly press the brake pedal to dry the brakes and to check that they work.
- Check that the horn works.
- Check that the exterior lights work.
- Turn the steering wheel to check that the steering power assist works.

#### FLOOR MATS

#### **WARNINGS**

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.

#### WARNINGS

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 make sure 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.

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 a loss of vehicle control.

## **Driving Hints**



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 United States: Getting Roadside Assistance

To fully assist you should you have a vehicle concern, Ford Motor Company offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty. The service is available:

- 24 hours a day, seven days a week.
- For the coverage period listed on the Roadside Assistance Card included in your Owner's Manual portfolio.

#### Roadside Assistance covers:

- A flat tire change with a good spare, if provided with the vehicle (except vehicles supplied with a tire inflation kit).
- Battery jump start.
- Lock-out assistance (key replacement cost is the customer's responsibility).
- Fuel delivery independent service contractors, if not prohibited by state, local or municipal law, shall deliver up to 2 gal (7.6 L) of gasoline or 5 gal (18.9 L) of diesel fuel to a disabled vehicle. Roadside Assistance limits fuel delivery service to two no-charge occurrences within a 12-month period.
- Winch out available within 100 ft (30.5 m) of a paved or county maintained road, no recoveries.
- Towing independent service contractors, if not prohibited by state, local or municipal law, shall tow Ford eligible vehicles to an authorized dealer within 35 mi (56 km) of the disablement location or to the nearest

authorized dealer. If a member requests a tow to an authorized dealer that is more than 35 mi (56 km) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 mi (56 km).

Roadside Assistance includes up to \$200 for a towed trailer if the disabled eligible vehicle requires service at the nearest authorized dealer. If the towing vehicle is operational but the trailer is not, then the trailer does not qualify for any roadside services.

## Vehicles Sold in the United States: Using Roadside Assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. This card is in the owner's information portfolio in the glove compartment.

United States Ford vehicle customers who require Roadside Assistance, call 1-800-241-3673.

If you need to arrange roadside assistance for yourself, Ford Motor Company reimburses a reasonable amount for towing to the nearest dealership within 35 mi (56 km). To obtain reimbursement information, United States Ford vehicle customers call 1-800-241-3673. Customers need 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

For your convenience, you may complete the roadside assistance identification card found in the centerfold of your warranty guide and retain for future reference.

Canadian roadside coverage and benefits may differ from the U.S. coverage. If you require more information, please refer to the coverage section of your warranty guide, call us in Canada at 1-800-665-2006, or visit our website at

1-800-665-2006, or visit our website at www.ford.ca.

Sykes Assistance Services Corporation administers the Roadside Assistance program. You must receive covered services in Canada or the continental United States. Coverage extends to vehicles that use public, non-seasonal, annually traveled roadways. Roadside Assistance coverage does not extend to vehicles involved in cross-country driving, logging, autocross and any other form of off-road use. Well maintained roads and surfaces help ensure safe travel for the supplier, and allow their representatives to perform service as per the standard operating procedures.

#### In Remote Locations

If our supplier cannot take your vehicle by road to the nearest authorized dealership, transportation by rail or water may be necessary. The program covers a tow to the dock or rail terminal and also to the dealership at the end of the trip.

For rail or water transportation, however, contact your authorized dealer to confirm if you are eligible for additional coverage before you authorize or pay for the service.

Call the Ford Roadside Assistance at 1-800-665-2006 for additional information.

## **HAZARDWARNINGFLASHERS**

**Note:** If used when the vehicle is not running, the battery will lose charge. There may be insufficient power to restart your vehicle.



The hazard warning button is located on the instrument panel. Use it when your vehicle is

creating a safety hazard for other motorists.

- Press the button to turn on the hazard warning function, and the front and rear direction indicators will flash.
- Press the button again to turn them off.

#### **FUEL SHUTOFF**

#### **WARNING**

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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 includes a fuel pump shutoff feature that stops the flow of fuel to the engine. Not every impact will cause a shutoff.

Should your vehicle shut off after a collision, you may restart your vehicle. For vehicles equipped with a key system:

- 1. Switch off the ignition.
- 2. Switch on the ignition.
- 3. Repeat Steps 1 and 2 to re-enable the fuel pump.

For vehicles equipped with a push button start system:

- Press the **START/STOP** button to switch off the ignition.
- Press the brake pedal and press the START/STOP button to switch on the ignition.

- 3. Remove your foot from the brake pedal and press the **START/STOP** button to switch off the ignition.
- 4. You can either attempt to start the engine by pressing the brake pedal and the **START/STOP** button, or switch on the ignition only by pressing the **START/STOP** button without pressing the brake pedal. Both ways re-enable the fuel system.

**Note:** When you try to restart your vehicle after a fuel shutoff, the vehicle makes sure that various systems are safe to restart. Once your vehicle determines that the systems are safe, then the vehicle will allow vou to restart.

**Note:** In the event that your vehicle does not restart after your third attempt, contact an authorized dealer.

### **JUMP STARTING THE VEHICLE**

#### **WARNINGS**



Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow

flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide correct ventilation.



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.



Use only adequately sized cables with insulated clamps.

### **Preparing Your Vehicle**

Do not attempt to push-start your automatic transmission vehicle.

**Note:** Attempting to push-start a vehicle with an automatic transmission may cause transmission damage.

**Note:** Use only a 12-volt supply to start your

**Note:** Do not disconnect the battery of the disabled vehicle as this could damage the vehicle electrical system.

Park the booster vehicle close to the hood of the disabled vehicle, making sure the two vehicles do not touch.

### Connecting the Jumper Cables

#### WARNINGS

Do not attach the cables to fuel lines. engine rocker covers, the intake manifold or electrical components as grounding points. Stay clear of moving parts. To avoid reverse polarity connections, make sure that you correctly identify the positive (+) and negative (-) terminals on both the disabled and booster vehicles before connecting the cables.



Do not attach the end of the positive cable to the studs or L-shaped eyelet located above the positive (+)

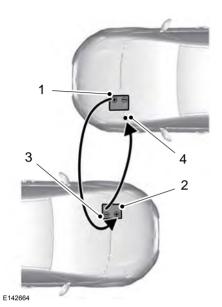
terminal of your vehicle's battery. High current may flow through and cause damage to the fuses.



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:** In the illustration, the bottom vehicle represents the booster vehicle.



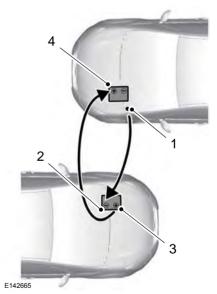
- Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.
- Connect the other end of the positive (+) cable to the positive (+) terminal of the booster vehicle battery.
- 3. Connect the negative (-) cable to the negative (-) terminal of the booster vehicle battery.
- 4. Make the final connection of the negative (-) cable to an exposed metal part of the stalled vehicle's engine, away from the battery and the fuel injection system, or connect the negative (-) cable to a ground connection point if available.

### **Jump Starting**

- Start the engine of the booster vehicle and rev the engine moderately, or press the accelerator gently to keep your engine speed between 2000 and 3000 RPM, as shown in your tachometer.
- 2. Start the engine of the disabled vehicle.
- Once the disabled vehicle has been started, run both vehicle engines for an additional three minutes before disconnecting the jumper cables.

## Removing the Jumper Cables

Remove the jumper cables in the reverse order that they were connected.



- 1. Remove the negative (-) jumper cable from the disabled vehicle.
- Remove the jumper cable on the negative (-) terminal of the booster vehicle battery.

- Remove the jumper cable from the positive (+) terminal of the booster vehicle battery.
- 4. Remove the jumper cable from the positive (+) terminal of the disabled vehicle battery.
- 5. Allow the engine to idle for at least one minute.

### **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 (front, side, side curtain or Safety Canopy) or the safety belt pretensioners.

The horn and lamps will turn off when:

- The hazard control button is pressed
- The panic button (if equipped) is pressed on the remote entry transmitter
- · Your vehicle runs out of power

#### **SPINOUT DETECTION**

If your vehicle detects a spinout and it comes to a stop, the hazard warning flashers turn on. A spinout detected message appears in the information display. The message may not appear if your vehicle runs out of power.

After your vehicle's hazard warning flashers turn on, you can switch them off by:

- Pressing the hazard warning flasher button.
- Pressing the remote control unlock button.
- Pressing the remote control panic button.
- Switching the ignition on and off twice.

## 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 and equipment, 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

1-800-392-3673 (FORD) (TDD for the hearing impaired: 1-800-232-5952)

#### **Online**

Additional information and resources are available online at www.fordowner.com

These are some of the items that can be found online:

- U.S. dealer locator by Dealer Name, City/State or Zip Code.
- Owner Manuals.
- Maintenance Schedules.
- Recalls.
- Ford Extended Service Plans.
- Ford Genuine Accessories.
- Service specials and promotions.

In Canada:

#### **Mailing address**

Customer Relationship Centre Ford Motor Company of Canada, Limited P.O. Box 2000 Oakville. Ontario L6K OC8

#### **Telephone**

1-800-565-3673 (FORD)

#### Online

www.ford.ca

#### **Twitter**

@FordServiceCA (English Canada) @FordServiceQC (Quebec)

#### **Additional Assistance**

If you have questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

- Contact your Sales Representative or Service Advisor at your selling/servicing authorized dealer.
- If your inquiry or concern remains unresolved, contact the Sales Manager, Service Manager or Customer Relations Manager.
- If you require assistance or clarification on Ford Motor Company policies, please contact the Ford Customer Relationship Center.

In order to help us serve you better, please have the following information available when contacting a Customer Relationship Center:

- Vehicle Identification Number.
- 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:

- 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 3033 Wilson Boulevard, Suite 600 Arlington, Virginia 22201

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.

## 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 our Customer Relationship Center.

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 or 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 United States.

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 Customer Relationship Center 1555 Fairlane Drive Fairlane Business Park #3 Allen Park, Michigan 48101 U.S.A.

Telephone: (313) 594-4857 Fax: (313) 390-0804 Email: expcac@ford.com

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).

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 MOTOR COMPANY Customer Relationship Center 1555 Fairlane Drive Fairlane Business Park #3 Allen Park, Michigan 48101 U.S.A.

Telephone: (800) 841-FORD (3673) FAX: (313) 390-0804 Email: prcac@ford.com 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 MOTOR COMPANY Customer Relationship Center 1555 Fairlane Drive Fairlane Business Park #3 Allen Park, Michigan 48101 U.S.A

**Ford:** 80004443673 **Lincoln:** 80004441067

If calling from the UAE: 80004441066 If calling from the Kingdom of Saudi

**Arabia:** 8008443673

If calling from Kuwait: 22280384

FAX: +971 4 3327266 Email: menacac@ford.com 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.

If you are in another foreign country, contact the nearest authorized dealer. In the event your inquiry is unresolved, communicate your concern with the dealership's Sales Manager, Service Manager or Customer Relations Manager. If you require additional assistance or clarification, please contact the respective Customer Relationship Center as previously listed.

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

toll free. 1-000-702-4550

Monday-Friday 8:00 a.m. - 6:00 p.m. EST Helm. Incorporated can also be reached

by their website:

(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)



E142557

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.

Transport Canada Contact Information		
Website	http://www.tc.gc.ca/eng/roadsafety/menu.htm	
Phone	1–800–333–0510	

#### **FUSE SPECIFICATION CHART**

#### **Power Distribution Box**

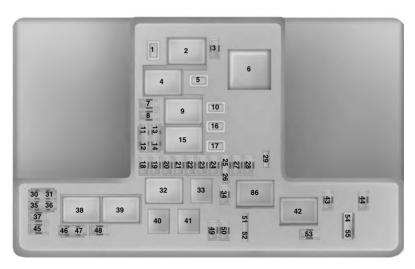
#### WARNINGS

Always disconnect the battery before servicing high-current fuses.

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, some features will need to be reset. See Changing the 12V Battery (page 256).



E190797

Fuse or relay number	Fuse amp rating	Protected components
1	30A <sup>3</sup>	Wide open panoramic roof 1.
2	-	Starter relay.
3	15A <sup>1</sup>	Rain sensor.

Fuse or relay number	Fuse amp rating	Protected components
4	_	Blower motor relay.
5	20A <sup>3</sup>	Power point 3 - Back of console.
6	_	Not used.
7	20A¹	Powertrain control module - vehicle power 1.
8	20A¹	Powertrain control module - vehicle power 2.
9	_	Powertrain control module relay.
10	20A <sup>3</sup>	Power point 1 - driver front.
11	15A²	Powertrain control module - vehicle power 4.
12	15A²	Powertrain control module - vehicle power 3.
13	10A <sup>2</sup>	Powertrain control module - vehicle power 5.
14	10A <sup>2</sup>	Powertrain control module - vehicle power 6.
15	_	Run-start relay.
16	20A <sup>3</sup>	Power point 2 - console.
17	_	Not used.
18	_	Not used.
19	10A <sup>1</sup>	Run-start electronic power assist steering.
20	10A1	Run/start lighting.
21	15A¹	Run/start transmission control. Transmission oil pump start/stop.
22	10A1	Air conditioner clutch solenoid.
23	15A¹	Run-start. Blind spot information system. Rear view camera. Adaptive cruise control.

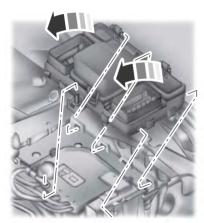
Fuse or relay number	Fuse amp rating	Protected components
		Heads-up display. Voltage stability module.
24	_	Not used.
25	10A <sup>2</sup>	Run-start anti-lock brake system.
26	10A <sup>2</sup>	Run-start powertrain control module.
27	_	Not used.
28	_	Not used.
29	5A <sup>1</sup>	Mass air flow monitor.
30	_	Not used.
31	_	Not used.
32	_	Electronic fan 1 relay.
33	_	A/C clutch relay.
34	_	Not used.
35	_	Not used.
36	_	Not used.
37	_	Not used.
38	_	Electronic fan 2 relay.
39	_	Electronic fan coil 2 and 3 relay.
40	_	Horn relay.
41	_	Not used.
42	_	Fuel pump coil relay.
43	_	Not used.
44	_	Not used.
45	_	Not used.
46	_	Not used.
47	_	Not used.
48	_	Not used.

Fuse or relay number	Fuse amp rating	Protected components
49	10A <sup>1</sup>	Keep alive power.
50	20A¹	Horn.
51	_	Not used.
52	_	Not used.
53	10A <sup>1</sup>	Power seats.
54	10A²	Brake on off switch.
55	10A <sup>2</sup>	ALT sensor.

<sup>&</sup>lt;sup>1</sup>Micro fuse.

### **Power Distribution Box - Bottom**

There are fuses located on the bottom of the fuse box. To access the bottom of the fuse box, do the following:

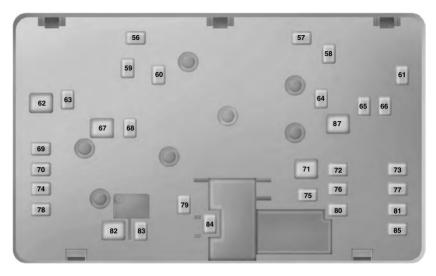


E145983

- 1. Release the two latches, located on both sides of the fuse box.
- 2. Raise the inboard side of the fuse box from the cradle.
- 3. Move the fuse box toward the center of the engine compartment.
- 4. Pivot the outboard side of the fuse box to access the bottom side.

<sup>&</sup>lt;sup>2</sup>Dual micro fuse.

<sup>&</sup>lt;sup>3</sup>M-type fuse.



E190798

Fuse or relay number	Fuse amp rating	Protected components
56	_	Not used.
57	20A¹	Diesel vaporizer or E100.
58	30A¹	Fuel pump feed.
59	30A <sup>2</sup>	Electronic fan 3.
60	30A <sup>2</sup>	Electronic fan 1.
61	_	Not used.
62	50A <sup>2</sup>	Body control module 1.
63	25A <sup>1</sup>	Electronic fan 2.
64	_	Not used.
65	20A¹	Front heated seat.

Fuse or relay number	Fuse amp rating	Protected components
66	_	Not used.
67	50A <sup>2</sup>	Body control module 2.
68	40A¹	Heated rear window.
69	30A <sup>1</sup>	Anti-lock brake system valves.
70	30A <sup>1</sup>	Passenger seat.
71	_	Not used.
72	20A¹	Trans oil pump.
73	20A <sup>1</sup>	Rear heated seats.
74	30A <sup>1</sup>	Driver seat module.
75	25A¹	Wiper motor 1.
76	30A <sup>1</sup>	Power lift-gate module.
77	30A <sup>1</sup>	Climate control seat module.
78	40A¹	Trailer tow module.
79	40A²	Blower motor.
80	25A¹	Wiper motor 2.
81	40A¹	Inverter.
82	_	Not used.
83	20A¹	TRCM shifter.
84	30A <sup>1</sup>	Starter solenoid.
85	30A <sup>1</sup>	Wide open panoramic roof 2.

Fuse or relay number	Fuse amp rating	Protected components
86	_	Not used.
87	60A²	Anti-lock brake system pump.

<sup>&</sup>lt;sup>1</sup> M-type fuse.

## Passenger Compartment Fuse Panel

The fuse panel is located under the instrument panel to the left of the steering column.

**Note:** It may be easier to access the fuse panel if you remove the finish trim piece.



E145984

<sup>&</sup>lt;sup>2</sup>J-type fuse.

Fuse or relay number	Fuse amp rating	Protected components
1	10A <sup>1</sup>	Lighting (ambient, glove box, vanity, dome, trunk).
2	7.5A¹	Memory seats, lumbar, power mirror.
3	20A¹	Driver door unlock.
4	5A¹	Not used (spare).
5	20A¹	Subwoofer amplifier.
б	10A <sup>2</sup>	Heated seat relay coil.
7	10A <sup>2</sup>	Not used (spare).
8	10A²	Not used (spare).
9	10A <sup>2</sup>	Not used (spare).
10	5A <sup>2</sup>	Keypad. Power decklid module. Cellphone passport module.
11	5A²	Not used (spare).
12	7.5A <sup>2</sup>	Climate control. Gear shift
13	7.5A <sup>2</sup>	Steering wheel column lock. Cluster. Datelink logic.
14	10A <sup>2</sup>	Battery electronic control module.
15	10A <sup>2</sup>	Datalink gateway module.
16	15A¹	Child lock. Decklid-liftglass release.
17	5A²	Tracking and blocking.
18	5A <sup>2</sup>	Ignition. Push button stop start switch.
19	7.5A²	Passenger airbag disabled indicator.

Fuse or relay number	Fuse amp rating	Protected components
		Transmission range.
20	7.5A²	Adaptive headlamp.
21	5A²	Humidity and in-car temperature sensor.
22	5A²	Occupant classification sensor.
23	10A <sup>1</sup>	Delayed accessory (power inverter logic, moonroof logic).
24	20A¹	Central lock unlock.
25	30A¹	Driver door (window, mirror).
26	30A <sup>1</sup>	Front passenger door (window, mirror).
27	30A <sup>1</sup>	Moonroof.
28	20A <sup>1</sup>	Amplifier.
29	30A <sup>1</sup>	Rear driver side door (window).
30	30A <sup>1</sup>	Rear passenger side door (window).
31	15A <sup>1</sup>	Not used (spare).
32	10A¹	Global positioning system. Display. Voice control. Adaptive cruise control. Radio frequency receiver.
33	20A¹	Radio. Active noise control. CD changer.
34	30A¹	Run-start bus (fuse 19, 20, 21, 22, 35, 36, 37, circuit breaker).
35	5A¹	Restraints control module.
36	15A <sup>1</sup>	Auto-dimming rear view mirror. Continuous control damping suspension. Rear heated seats.

Fuse or relay number	Fuse amp rating	Protected components
37	15A¹	All wheel drive. Heated steering wheel.
38	30A	Not used (spare).

<sup>&</sup>lt;sup>1</sup>Micro fuse.

### **CHANGING A FUSE**

#### **Fuses**

#### **WARNING**

Always replace a fuse with one that has the specified amperage rating. Using a fuse with a higher amperage rating can cause severe wire damage and could start a fire.



E142430

If electrical components in the vehicle are not working, a fuse may have blown. A break in the fuse wire will indicate a blown fuse. Check the appropriate fuses before replacing any electrical components.

<sup>&</sup>lt;sup>2</sup>Dual micro fuse.

## **Maintenance**

#### **GENERAL INFORMATION**

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of authorized dealers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialized tools developed specifically for servicing your vehicle.

To help you service your vehicle, we provide scheduled maintenance information which makes tracking routine service easy. See Scheduled Maintenance (page 464).

If your vehicle requires professional service. an authorized dealer can provide the necessary parts and service. Check your warranty information to find out which parts and services are covered.

Use only recommended 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

- Set the parking brake and shift to park (P).
- 2. Switch off the engine.
- 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.

- Set the parking brake and shift to park 1. (P).
- 2. Block the wheels

## **OPENING AND CLOSING THE** HOOD

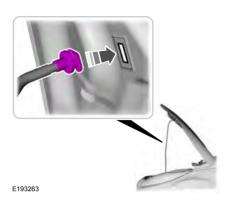
## **Opening the Hood**



#### E142457

- Inside the vehicle, pull the hood release handle located under the left-hand side of the instrument panel.
- 2. Slightly lift the hood.
- 3. Release the hood latch by pushing the secondary release lever to your right-hand side.

## **Maintenance**



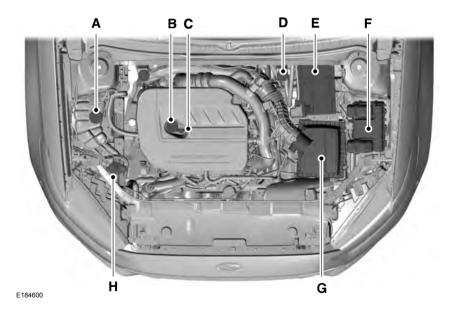
4. Open the hood. Support the hood with the strut.

## **Closing the Hood**

- 1. Remove the hood strut from the catch and secure it correctly after use.
- 2. Lower the hood and allow it to drop under its own weight for the last 8–12 in (20–30 cm).

**Note:** Make sure that the hood is correctly closed.

## UNDER HOOD OVERVIEW - 1.5L ECOBOOST™

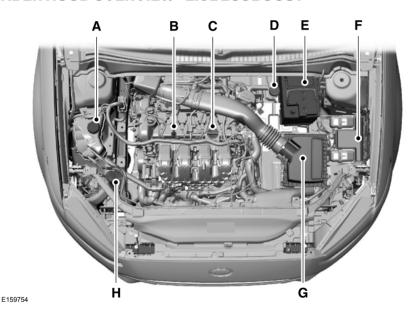


- A Engine coolant reservoir
- B Engine oil filler cap

## **Maintenance**

- C Engine oil dipstick
- D Brake fluid reservoir cap
- E Battery
- F Power distribution box
- G Engine air filter assembly
- H Windshield washer fluid reservoir cap

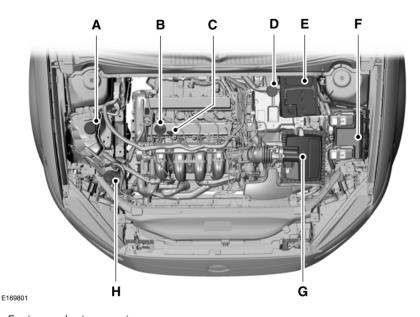
## UNDER HOOD OVERVIEW - 2.0L ECOBOOST™



- A Engine coolant reservoir cap
- B Engine oil dipstick
- C Engine oil filler cap
- D Brake fluid reservoir cap
- E Battery
- F Power distribution box

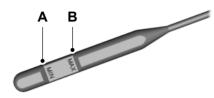
- G Engine air filter assembly
- H Windshield washer fluid reservoir cap

# **UNDER HOOD OVERVIEW - 2.5L**



- A. Engine coolant reservoir cap
- B. Engine oil filler cap
- C. Engine oil dipstick
- D. Brake fluid reservoir cap
- E. Battery
- F. Power distribution box
- G. Air filter housing cover
- H. Windshield washer fluid reservoir cap

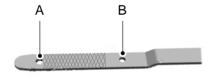
# ENGINE OIL DIPSTICK - 1.5L ECOBOOST™



E199415

- A Minimum.
- B Maximum.

# ENGINE OIL DIPSTICK - 2.0L ECOBOOST™/2.5L



#### E169062

- A Minimum.
- B Maximum.

### **ENGINE OIL CHECK**

**Note:** Check the level before starting the engine.

**Note:** Make sure that the level is between the MIN and the MAX marks.

- 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.
- 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 oil further than the MAX mark. Oil levels above the MAX mark may cause engine damage.



#### E142732

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

- 1. Remove the filler cap.
- 2. If the engine oil level is not within the normal range, add engine oil that meets Ford specifications. See Capacities and Specifications (page
- 3. Remove the engine oil filler cap and use a funnel to pour the engine oil into the opening.
- 4. Wipe off any spilled oil.
- 5. Replace the filler cap. Turn it until you feel a strong resistance.

# OIL CHANGE INDICATOR RESET

Use the information display controls on the steering wheel to reset the oil change indicator.

#### From the main menu scroll to:

Message	Action and description
Settings	Press the right arrow button, then from this menu scroll to the following message.
Vehicle	Press the right arrow button, then from this menu scroll to the following message.
Oil Life	Press the right arrow button, then from this menu scroll to the following message.
Hold OK to Reset	Press and hold the <b>OK</b> button until the instrument cluster displays the following message.
	Reset Successful
	When the oil change indicator resets the instrument cluster displays 100%.
	Remaining Life

Message	Action and description
	{00}%
	If the instrument cluster displays one of the following messages, repeat the process.
	Not Reset
	Reset Cancelled

#### **ENGINE COOLANT CHECK**

#### WARNINGS

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, spilling coolant on hot engine parts can burn you.



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.

To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure. Steam and hot liquid can come out forcefully when you loosen the cap slightly.



Do not add coolant further than the MAX mark.

# **Checking the Engine Coolant**

When the engine is cold, check the concentration and level of the engine coolant at the intervals listed in the scheduled maintenance information. See Scheduled Maintenance (page 464).

**Note:** Make sure that the coolant level is between the MIN and MAX marks on the coolant reservoir

**Note:** Coolant expands when it is hot. The level may extend beyond the MAX mark.

**Note:** If the level is at the MIN mark, below the MIN mark, or empty, add coolant immediately. See **Adding Engine Coolant** in this chapter.

Maintain coolant concentration within 48% to 50%, which equates to a freeze point between -30°F (-34°C) and -34°F (-37°C).

**Note:** For best results, coolant concentration should be tested with a refractometer such as Robinair® Coolant and Battery Refractometer 75240. We do 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**

**Note:** Do not use stop leak pellets, cooling system sealants or additives as they can cause damage to the engine cooling or heating systems. Your warranty may not cover these damages.

**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, any 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. 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. Use prediluted engine coolant meeting the Ford specification. See **Capacities and Specifications** (page 313).

In case of emergency, you can add a large amount of water without engine coolant in order to reach a vehicle service location. In this instance, qualified personnel:

- 1. Must drain the cooling system.
- Chemically clean the coolant system with Motorcraft Premium Cooling System Flush.
- 3. Refill with engine coolant as soon as possible.

Water alone, without engine coolant, can cause engine damage from corrosion, overheating or freezing.

Do not use the following as a coolant substitute:

- Alcohol.
- Methanol.
- Brine.
- Any engine coolant mixed with alcohol or methanol antifreeze or 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.

When adding coolant:

- 1. Unscrew the cap slowly. Pressure escapes as you unscrew the cap.
- Add prediluted engine coolant meeting the Ford specification. See Capacities and Specifications (page 313).

- Check the coolant level in the coolant reservoir the next few times you drive your vehicle.
- 4. 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 an authorized dealer increase the coolant concentration above 50%.
- A coolant concentration of 60% provides improved freeze point protection. Engine coolant concentrations above 60% 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 an authorized dealer decrease the coolant concentration to 40%.
- A coolant concentration of 40% provides improved overheat protection. Engine coolant concentrations below 40% decrease the freeze and corrosion 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.

#### 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 outside temperatures, vehicle load and terrain.

#### **How Fail-Safe Cooling Works**

If the engine begins to overheat, the engine coolant temperature gauge moves to the red (hot) area and:



A high engine temperature message appears in the information display.



The service engine soon indicator appears in the information display.

If the engine reaches a preset over-temperature condition, the engine automatically switches to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

If this occurs, your vehicle still operates. However:

- · The engine power becomes limited.
- The air conditioning system becomes disabled.

Continued operation increases the engine temperature and the engine completely shuts 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

#### **WARNINGS**

Fail-safe mode is for use during emergencies only. Operate your vehicle in fail-safe mode only as long as necessary to bring your vehicle to rest

as necessary to bring your vehicle to rest in a safe location and seek immediate repairs. When in fail-safe mode, your vehicle will have limited power, will not be able to maintain high-speed operation, and may completely shut down without warning, potentially losing engine power, power steering assist, and power brake assist, which may increase the possibility of a crash resulting in serious injury.



Never remove the coolant reservoir cap while the engine is running or hot.

Your vehicle has limited engine power when in the fail-safe mode. Drive your vehicle with caution. Your vehicle does not maintain high-speed operation and the engine operates poorly.

Remember that the engine is capable of automatically shutting down to prevent engine damage. In this situation:

- Pull off the road as soon as safely possible and switch off the engine.
- 2. Tow your vehicle 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 add if low.
- 5. Re-start the engine and drive your vehicle to an authorized dealer.

**Note:** Driving your vehicle without repair increases the chance of engine damage. See an authorized dealer as soon as possible.

# AUTOMATIC TRANSMISSION FLUID CHECK

The automatic transmission does not have a transmission fluid dipstick.

Have an authorized dealer check and change the transmission fluid at the correct service interval. See **Scheduled Maintenance** (page 464). Your transmission does not consume fluid. However, if the transmission slips, shifts slowly or if you notice a sign of leaking fluid, contact an authorized dealer.

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.

#### **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.

#### **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 Capacities and Specifications (page 313).

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.

### **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.

# **CHANGING THE 12V BATTERY**

#### **WARNINGS**



Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow

flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide correct ventilation.

#### WARNINGS



When lifting a plastic-cased battery, excessive pressure on the end walls could cause acid to flow through the vent caps, resulting in personal injury and damage to the vehicle or battery. Lift the battery with a battery carrier or with your hands on opposite corners.



Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or

clothing. Shield your eves 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.



Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after

handling.

Your vehicle has a Motorcraft® maintenance-free battery which normally does not require additional water during its life of service.

**Note:** If your vehicle's battery has a cover or shield, make sure it is reinstalled after the battery has been cleaned or replaced.

**Note:** See an authorized dealer for low voltage battery access, testing, or replacement.

When a low voltage battery replacement is necessary, see an authorized dealer to replace the low voltage battery with a Ford recommended replacement low voltage battery that matches the electrical requirements of the vehicle.

To ensure proper operation of the battery management system (BMS), do not allow a technician to connect any electrical device ground connection directly to the low voltage battery negative post. A connection at the low voltage battery negative post can cause inaccurate measurements of the battery condition and potential incorrect system operation.

**Note:** If a person adds electrical or electronic accessories or components to the vehicle, the accessories or components may adversely affect the low voltage battery performance and durability and may also affect the performance of other electrical systems in the vehicle.

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.

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.

When a battery replacement is required, the battery should only be replaced with a Ford recommended replacement battery that matches the electrical requirements of the vehicle.

Because your vehicle's engine is electronically-controlled by a computer, some engine control settings are maintained by power from the low voltage battery. Some engine computer settings, like the idle trim and fuel trim strategy, optimize the driveability and performance of the engine. Some other computer settings, like the clock and radio station presets, are also maintained in memory by power from the low voltage battery. When a technician disconnects and connects the low voltage battery, these settings are erased. Complete the following procedure in order to restore the settings:

- 1. With the vehicle at a complete stop, set the parking brake.
- 2. Shift into park (P).
- Switch off all accessories.
- 4. Fully press the brake pedal and start the vehicle.
- Run the engine until it reaches normal operating temperature. While the engine is warming up, complete the following: Reset the clock. See Audio System (page 327). Reset the power windows bounce-back feature. See Windows and Mirrors (page 84). Reset the radio station presets. See Audio System (page 327).
- Allow the engine to idle for at least one minute. If the engine turns off, press the accelerator pedal to start the engine.
- 7. While the engine is running, press the brake pedal and shift into neutral (N).
- Allow the engine to run for at least one minute by pressing on the accelerator pedal.
- Drive the vehicle at least 12 mi (20 km) to completely relearn the idle and fuel trim strategy.

**Note:** If you do not allow the engine to relearn the idle and fuel trim strategy, the idle quality of your vehicle may be adversely affected until the engine computer eventually relearns the idle trim and fuel trim strategy.

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

# CHECKING THE WIPER BLADES

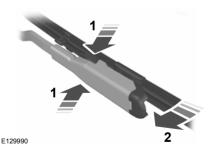


Run the tip of your fingers over the edge of the blade to check for roughness.

Clean the wiper blades with washer fluid or water applied with a soft sponge or cloth.

# CHANGING THE WIPER BLADES

The wiper arms can be manually moved when the ignition is off. This allows for ease of blade replacement and cleaning under the blades.



- 1. Pull the wiper blade and arm away from the glass.
- 2. Press the locking buttons together.
- 3. Rotate and remove the wiper blade.
- 4. Install in the reverse order.

**Note:** Make sure that the wiper blade locks into place. Lower the wiper arm and blade back to the windshield. The wiper arms will automatically return to their normal position when the ignition is turned on.

Replace wiper blades at least once per year for optimum performance.

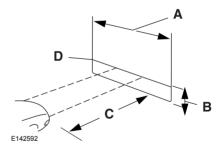
Poor wiper quality can be improved by cleaning the wiper blades and the windshield

#### ADJUSTING THE HEADLAMPS

# **Vertical Aim Adjustment**

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.

#### **Headlamp Aiming Target**



- A 8 feet (2.4 meters)
- B Center height of lamp to ground
- C 25 feet (7.6 meters)
- D Horizontal reference line

#### **Vertical Aim Adjustment Procedure**

- Park the vehicle directly in front of a wall or screen on a level surface, approximately 25 feet (7.6 meters) away.
- 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.

**Note:** To see a clearer light pattern for adjusting, you may want to block the light from one headlamp while adjusting the other.

3. Turn on the low beam headlamps to illuminate the wall or screen and open the hood.



E142465

4. 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.

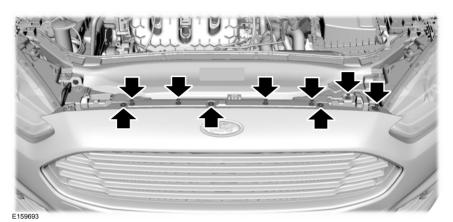


- Locate the vertical adjuster on each headlamp. Using a Phillips #2 screwdriver, turn the adjuster either clockwise or counterclockwise in order to adjust the vertical aim of the headlamp. The horizontal edge of the brighter light should touch the horizontal reference line.
- 6. Close the hood and turn off the lamps.

# **Horizontal Aim Adjustment**

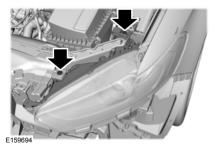
Horizontal aim is not required for this vehicle and is not adjustable.

#### **REMOVING A HEADLAMP**

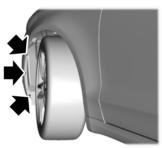


**Note:** To remove push pins, use a flat-bladed screwdriver to pull up the center release pin.

- 1. Make sure the headlamp control is in the off position and open the hood.
- 2. Remove the six push pins securing the front fascia to the front trim cover.
- 3. Remove the three bumper cover upper screws using a flat-bladed screwdriver.
- 4. Remove the push pin at the inboard side of the headlamp you are servicing.

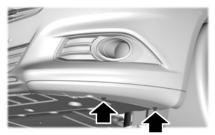


Remove the two screws securing the headlamp using a flat-bladed screwdriver.



E159695

 Remove the lower three wheel housing fasteners by turning them counterclockwise.



F159696

Remove the two outmost front bumper cover lower fasteners, only on the side of the headlamp you are servicing, by turning them counterclockwise.



8. Separate the front bumper cover from the fender by gently pulling the front bumper cover to the outside of the vehicle 1.2 inches (3 centimeters).



9. From the front of the vehicle, gently pull the front bumper cover forward 4 inches (10 centimeters) by grasping it next to the headlamp to be serviced and in the lower front of the wheel opening.



- 10. Gently pull the headlamp assembly outward to disengage it from the lower fixing point.
- 11. Carefully lift the headlamp and remove it from the vehicle.
- 12 Disconnect the electrical connector from the headlamp assembly by pushing the release tab on the connector

#### CHANGING A BULB

#### WARNINGS



Switch all of the lamps and the ignition off. Failure to follow this warning could result in serious personal injury.



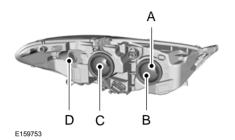
Bulbs become hot when in use. Let them cool down before you remove them

Use the correct specification bulb. See **Bulb Specification Chart (page 263).** 

Install in the reverse order unless otherwise stated.

#### Headlamp

You must remove the headlamp assembly prior to replacing any bulb. See **Removing a Headlamp** (page 260).



- A Front side lamp.
- B High beam.
- C Low beam.
- D Front direction indicator.

#### Front Side Lamp

- 1. Remove the headlamp.
- 2. Remove the cover.
- 3. Remove the bulb holder by pulling it straight out.
- 4. Remove the bulb by pulling it straight out.

#### **Front Direction Indicator**

- 1. Remove the headlamp.
- 2. Turn the bulb holder counterclockwise and remove it.

**Note:** You cannot separate the bulb from the bulb holder.

#### **Headlamp Low Beam**

- 1. Remove the headlamp.
- 2. Remove the cover.

- 3. Turn the bulb holder counterclockwise and remove it.
- 4. Disconnect the electrical connector.

Note: Do not touch the bulb glass.

**Note:** You cannot separate the bulb from the bulb holder.

#### **Headlamp High Beam**

- 1. Remove the headlamp.
- 2. Remove the cover.
- 3. Turn the bulb holder counterclockwise and remove it.
- 4. Disconnect the electrical connector.

**Note:** Do not touch the bulb glass.

**Note:** You cannot separate the bulb from the bulb holder.

#### **High-Intensity Discharge Headlamps**

These lamps operate at a high voltage. See an authorized dealer if they fail.

#### **LED Lamps**

LED lamps are not serviceable items. See an authorized dealer if they fail.

The following lamps are LED:

- Brake and rear lamps.
- · Central high mounted brake lamp.
- Daytime running lamps.
- Rear direction indicators.
- Side direction indicators.

#### **Reverse Lamp**

- Carefully remove the luggage compartment trim panel.
- 2. Remove the wing nut.
- 3. Gently pull the lamp assembly away from the vehicle.



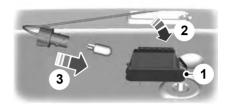
#### E145779

4. Turn the bulb holder counterclockwise and remove the bulb holder.



5. Remove the bulb from the bulb holder.

# Replacing the License Plate Lamp Bulb



#### F72789

- 1. Carefully release the spring clip.
- 2. Remove the lamp.
- 3. Remove the bulb.

#### **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 to make sure they have the proper lamp performance, light brightness, light pattern, and safe visibility. The correct bulbs will not damage the lamp assembly or void the lamp assembly warranty and will provide quality bulb illumination time.

Function	Trade name
*Headlamp high beam (Halogen)	H7LL
*Headlamp low beam (Halogen)	HIILL
*Side marker lamp - front	LED

Function	Trade name
*Park lamp - front	W5W
*Turn lamp - front	PWY24W
*Fog lamp - front	HII
*Tail and brake lamp - high series	LED
*Tail and brake lamp - low series	LED
Reverse lamp	921
*Turn lamp - rear - high series	LED
*Turn lamp - rear - low series	LED
*Side marker lamp - rear	LED
License plate lamp	W5W
*Trunk lamp	W5W or LED**
*High-mount brake lamp	LED
*Side repeater lamp	LED
*Interior lamp	LED

<sup>\*</sup>To replace these bulbs, see your authorized dealer.

To replace all instrument panel bulbs, see your authorized dealer.

<sup>\*\*</sup>If so equipped.

# CHANGING THE ENGINE AIR FILTER

#### 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. See **Capacities and Specifications** (page 313).

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.

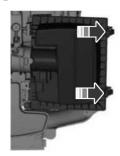
Change the air filter element at the proper interval. See **Scheduled Maintenance** (page 464).

**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.

# **EcoBoost Engines**



#### 2.5L Engine



E146047

- 1. Release the clamps that secure the air filter housing cover.
- 2. Carefully lift the air filter housing cover.
- 3. Remove the air filter element from the air filter housing.
- Wipe any dirt or debris from the air filter housing and cover to make sure no dirt gets in the engine and to make sure you have a good seal.
- 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. Install the air filter housing cover.
- Engage the clamps to secure the air filter housing cover to the air filter housing.

#### **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 Wash Concentrate with Bitterant (U.S. only) (ZC-32-B2)
- Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54)
- Motorcraft Premium Leather and Vinyl Cleaner (ZC-56)
- Motorcraft Spot and Stain Remover (U.S. only) (ZC-14)
- Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23)
- 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, we recommend Motorcraft Detail Wash.

- Never use strong household detergents or soap, for example dish washing or laundry liquid. These products can discolor and spot painted surfaces.
- Never wash your vehicle when is hot to the touch, or during strong or direct sunlight.
- Dry your vehicle with a chamois or soft terry cloth towel to eliminate water spotting.
- Immediately remove fuel spillages, bird droppings, insect deposits and road tar. These may cause damage to your vehicle's paintwork or trim over time. We recommend Motorcraft Bug and Tar Remover.
- Remove any exterior accessories, for example antennas, before entering a car wash.

**Note:** Suntan lotions and insect repellents can damage painted surfaces. If these substances come in contact with your vehicle, wash the affected area as soon as possible.

#### **Exterior Chrome Parts**

- Apply a high quality-cleaning product to bumpers and other chrome parts.
   Follow the manufacturer's instructions.
   We recommend Motorcraft Custom Bright Metal Cleaner.
- Do not apply the cleaning product to hot surfaces. Do not leave the cleaning product on chrome surfaces longer than the time recommended.
- Using other non-recommended cleaners can result in severe and permanent cosmetic damage.

**Note:** Never use abrasive materials, for example steel wool or plastic pads as they can scratch the chrome surface.

**Note:** Do not use chrome cleaner, metal cleaner or polish on wheels or wheel covers.

#### **Exterior Plastic Parts**

For routine cleaning we recommend Motorcraft Detail Wash. If tar or grease spots are present, we recommend Motorcraft Bug and Tar Remover.

#### Stripes or Graphics (If Equipped)

Do not use a commercial or high-pressure sprayer on the surface or edge of stripes and graphics. This can damage them and cause the edges to peel away from the vehicle surface.

#### Underbody

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free of debris or foreign material.

#### WAXING

Regular waxing is necessary to protect your car's paint from the elements. We recommend that you wash and wax the painted surface once or twice a year.

When washing and waxing, park your vehicle in a shaded area out of direct sunlight. Always wash your vehicle before applying wax.

- Use a quality wax that does not contain abrasives.
- Follow the manufacturer's instructions to apply and remove the wax.
- Apply a small amount of wax in a back-and-forth motion, not in circles.

- Do not allow wax to come in contact with any non-body (low-gloss black) colored trim. The wax will discolor or stain the parts over time.
  - · Roof racks.
  - Bumpers.
  - Grained door handles.
    - Side moldings.
  - · Mirror housings.
  - Windshield cowl area.
- Do not apply wax to glass areas.
- After waxing, your car's paint should feel smooth, and be free of streaks and smudges.

#### **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**

Car wash chemicals and environmental fallout can result in windshield and wiper blade contamination. Dirty windshield and wipers will result in poor windshield wiper operation. Keep the windshield and wiper blades clean to maintain windshield wiper performance.

To clean the windshield and wiper blades:

- Clean the windshield with a non-abrasive glass cleaner. When cleaning the interior of the windshield, avoid getting any glass cleaner on the instrument panel or door panels. Wipe any glass cleaner off these surfaces immediately.
- For windshields contaminated with tree sap, chemicals, wax or bugs, clean the entire windshield using steel wool (no greater than 0000 grade) in a circular motion and rinse with water.
- Clean the wiper blades with isopropyl rubbing alcohol or windshield washer concentrate.

**Note:** Do not use razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window. The vehicle warranty does not cover damage caused to the heated rear window grid lines.

#### **CLEANING THE INTERIOR**

#### WARNINGS

Do not use cleaning solvents, bleach or dve on the vehicle's safety belts. as these actions may weaken the belt webbing.



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.

**Note:** Follow the same procedure as cleaning leather seats for cleaning leather instrument panels and leather interior trim surfaces. See **Cleaning Leather Seats** (page 269).

Clean the instrument panel and cluster lens with a clean, damp and soft cloth, then use a clean, dry and soft 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 you from undesirable windshield reflection.
- Do not use any household cleaning products or glass cleaners as these may damage the finish of the instrument panel, interior trim and cluster lens.
- Wash or wipe your hands clean if you have been in contact with certain products such as insect repellent and suntan lotion to avoid possible damage to the interior painted surfaces.
- Do not allow air fresheners and hand sanitizers to spill onto interior surfaces.
   If a spill occurs, wipe off immediately.
   Your warranty may not cover these damages.

If a staining liquid like coffee or juice has been spilled on the instrument panel or on interior trim surfaces:

- 1. Wipe up spilled liquid using a clean, soft cloth as quickly as possible.
- Use Motorcraft Premium Leather and Vinyl Cleaner or a commercially available leather cleaning product for automotive interiors. Test any cleaner or stain remover on an inconspicuous area.
- Alternatively, wipe the surface with a clean, soft cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
- If necessary, apply more soap and water solution or cleaning product to a clean, soft cloth and press it onto the soiled area. Allow this to set at room temperature for 30 minutes.
- Remove the soaked cloth, then with a clean, damp cloth, use a rubbing motion for 60 seconds on the soiled area.
- 6. Dry the area with a clean, soft cloth.

### **CLEANING LEATHER SEATS (15**

#### Equipped)

**Note:** Follow the same procedure as cleaning leather seats for cleaning leather instrument panels and leather interior trim surfaces.

For routine cleaning, wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.

For cleaning and removing stains such as dye transfer, use Motorcraft Premium Leather and Vinyl Cleaner or a commercially available leather cleaning product for automotive interiors.

**Note:** Test any cleaner or stain remover on an inconspicuous area.

You should:

- Remove dust and loose dirt with a vacuum cleaner.
- Clean and treat spills and stains as soon as possible.

Do not use the following products as these may damage the leather:

- Oil and petroleum or silicone-based leather conditioners.
- Household cleaners.
- Alcohol solutions.
- Solvents or cleaners intended specifically for rubber, vinyl and plastics.

# REPAIRING MINOR PAINT DAMAGE

Authorized dealers have touch-up paint to match your vehicle's color. Your vehicle color code is printed on a sticker on the front, left-hand side door jamb. Take your color code to your authorized dealer to make sure you get the correct color.

Before repairing minor paint damage, use a cleaner such as Motorcraft Bug and Tar Remover to remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout.

Always read the instructions before using cleaning products.

# CLEANING THE ALLOY WHEELS

**Note:** Do not apply a cleaning chemical to warm or hot wheel rims and covers.

**Note:** Some automatic car washes may cause damage to the finish on your wheel rims and covers.

**Note:** Industrial-strength or heavy-duty cleaners in combination with brush agitation to remove brake dust and dirt, could wear away the clear coat finish over a period time.

**Note:** Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergents.

**Note:** If you intend parking your vehicle for an extended period after cleaning the wheels with a wheel cleaner, drive your vehicle for a few minutes before doing so. This will reduce the risk of increased corrosion of the brake discs.

Alloy wheels and wheel covers are coated with a clear coat paint finish. To maintain their condition we recommend that you:

- Clean the wheels weekly using Motorcraft Wheel and Tire Cleaner. Apply using manufacturer's instructions.
- Use a sponge to remove heavy deposits of dirt and brake dust accumulation.
- Rinse thoroughly with a strong stream of water when you have completed the cleaning process.
- To remove tar and grease, use Motorcraft Bug and Tar Remover.

### **VEHICLE STORAGE**

If you plan on storing your vehicle for 30 days or more, read the following maintenance recommendations to make sure your vehicle stays in good operating condition.

We engineer and test all motor vehicles and their components for reliable, regular driving. Under various conditions, long-term storage may lead to degraded engine performance or failure unless you use specific precautions to preserve engine 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 your vehicle thoroughly to remove dirt, grease, oil, tar or mud from exterior surfaces, rear-wheel housing and the underside of front fenders.
- Periodically wash your vehicle if it is stored in exposed locations.
- Touch-up exposed 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 you wash your vehicle.
- Lubricate all hood, door and luggage compartment hinges and latches with a light grade oil.
- Cover interior trim to prevent fading.
- Keep all rubber parts free from oil and solvents.

#### **Engine**

- Change the engine oil and filter prior to storage because used engine oil contains contaminates which may cause engine damage.
- Start the engine every 15 days for a minimum of 15 minutes. Run at fast idle with the climate controls set to defrost until the engine reaches normal operating temperature.

- With your foot on the brake, shift through all the gears while the engine is running.
- We recommend that you change the engine oil before you use your vehicle again.

#### Fuel system

 Fill the fuel tank with high-quality fuel until the first automatic shutoff of the fuel pump nozzle.

#### Cooling system

- · Protect against freezing temperatures.
- When removing your vehicle from storage, check coolant fluid level. Confirm that there are no cooling system leaks and that 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, we recommend that you disconnect the battery cables to maintain battery charge for quick starting.

**Note:** It is necessary to reset memory features if battery cables are disconnected.

#### **Brakes**

 Make sure the brakes and parking brake release fully.

#### **Tires**

Maintain recommended air pressure.

#### Miscellaneous

- Make sure all linkages, cables, levers and pins under your vehicle are covered with grease to prevent rust.
- Move vehicles at least 25 ft (7.5 m) 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 such as mice or 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 your vehicle 15 ft (4.5 m) 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 you remove the battery, clean the battery cable ends and check for damage.

Contact an authorized dealer if you have any concerns or issues.

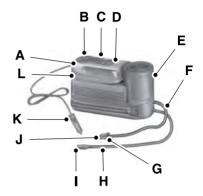
#### **TEMPORARY MOBILITY KIT (15**

#### **Equipped**)

#### Type 1

**Note:** The temporary mobility kit canister contains enough sealant compound for one tire repair only. See your authorized Ford dealer for additional replacement sealant canisters.

The kit is located under the load floor of the trunk. The kit consists of an air compressor to inflate the tire and a sealing compound in a canister that will effectively seal most punctures caused by nails or similar objects. This kit will provide a temporary tire repair allowing you to drive your vehicle up to 120 mi (200 km) at a maximum speed of 50 mph (80 km/h) to reach a tire service location.



#### E144618

- A Air compressor (inside)
- B Diverter knob
- C On and off button
- D Air pressure gauge
- E Sealant bottle and canister
- F Sealant filling clear tube
- G Sealant tube tire valve connector
- H Yellow cap tool
- I Air compressor hose
- J Air hose -tire valve connector
- K Accessory power plug
- L Casing/housing

#### **General Information**

#### WARNING



Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

**Note:** Do not use the kit if a tire has become severely damaged by driving the vehicle with a tire that has insufficient air pressure. Only punctured areas located within the tire tread can be sealed with the kit.

Do not attempt to repair punctures larger than 0.24 in (6 mm) or damage to the tire's sidewall. The tire may not completely seal.

Loss of air pressure may adversely affect tire performance. For this reason:

**Note:** Do not drive the vehicle above 50 mph (80 km/h).

**Note:** Do not drive further than 120 mi (200 km). Drive only to the closest authorized Ford dealer or tire repair shop to have your tire inspected.

- Drive carefully and avoid abrupt steering maneuvers.
- Periodically monitor tire inflation pressure in the affected tire. If the tire is losing pressure, have the vehicle towed.
- Read the information in the Tips for Use of the Kit section to make sure safe operation of the kit and your vehicle.

# Tips for Use of the Kit

To ensure safe operation of the kit:

- Read all instructions and cautions fully.
- Before operating the kit, make sure your vehicle is safely off the road and away from moving traffic. Turn on the hazard lights.
- Always set the parking brake to ensure the vehicle does not move unexpectedly.

- Do not remove any foreign objects, such as nails or screws, from the tire.
- When using the kit, leave the engine running (only if the vehicle is outdoors or in a well-ventilated area) so the compressor does not drain the vehicle battery.
- Do not allow the compressor to operate continuously for more than 15 minutes. This will help prevent the compressor from overheating.
- Never leave the kit unattended when it is operating.
- Sealant compound contains latex.
   Make sure that you use the non-latex gloves provided to avoid an allergic reaction.
- · Keep the kit away from children.
- Only use the kit when the ambient temperature is between -22°F (-30°C) and 158°F (70°C).
- Only use the sealing compound before the use by date. The use by date is on the lower right hand corner of the label located on the sealant canister (bottle). Check the use by date regularly and replace the canister after four years.
- Do not store the kit unsecured inside the passenger compartment of the vehicle as it may cause injury during a sudden stop or crash. Always store the kit in its original location.
- After sealant use, the tire pressure monitoring system sensor and valve stem on the wheel must be replaced by an authorized Ford dealer.
- When inflating a tire or other objects, use the black air hose only. Do not use the transparent hose which is designed for sealant application only.
- Operating the kit could cause an electrical disturbance in radio, CD, and DVD player operation.

# What to do when a Tire Is Punctured

A tire puncture within the tire tread area can be repaired in two stages with the kit.

- In the first stage, the tire will be reinflated with a sealing compound and air. After the tire has been reinflated, you will need to drive the vehicle a short distance 4 mi (6 km) to distribute the sealant in the tire.
- In the second stage, you will need to check the tire pressure and adjust, if necessary, to the vehicle tire inflation pressure.

# First Stage: Reinflating the Tire with Sealing Compound and Air

#### WARNINGS

Do not stand directly over the kit while inflating the tire. If you notice any unusual bulges or deformations in the tire sidewall during inflation, stop

and call roadside assistance.

If the tire does not inflate to the recommended tire pressure within 15 minutes, stop and call roadside

assistance.

Preparation: Park the vehicle in a safe, level and secure area, away from moving traffic. Turn the hazard lights on. Apply the parking brake and turn the engine off. Inspect the flat tire for visible damage.

Sealant compound contains latex. To avoid any allergic reactions, use the non-latex gloves located in the accessory box on the underside of the kit housing.

Do not remove any foreign object that has pierced the tire. If a puncture is located in the tire sidewall, stop and call roadside assistance.

Remove the valve cap from the tire valve.

- 2. Unwrap the clear tube from the compressor housing.
- Remove the tube cap and fasten the metal connector of the tube to the tire valve, turning clockwise. Make sure the connection is tightly fastened.



- 4. Plug the power cable into the 12-volt power point in the vehicle.
- Remove the warning sticker found on the canister and place it on the top of the instrument panel or the center of the dash.
- 6. Start the vehicle only if the vehicle is outdoors or in a well-ventilated area.



E144924

Push and turn dial (A)
 counterclockwise to the sealant
 position. Turn on the kit by pressing the
 on/off button (B).



- 8. Inflate the tire to the pressure specified by the tire label located on the driver door or the door jamb area. While the sealant compound is being pumped into the tire, the air pressure gauge will indicate a pressure above the actual tire pressure. This is normal and should be no reason for concern. The pressure gauge will provide a correct tire pressure reading after about 30 seconds of operation. The tire pressure has to be checked with the compressor in the off position to get an accurate tire pressure reading.
- 9. When the recommended tire pressure is reached, turn off the kit by pressing the on/off button. Disconnect the kit from the tire valve and the power point. Re-install the valve cap on the tire valve, place the tube cap on the metal connector, and return the kit to the stowage area
- Immediately and cautiously, drive the vehicle 4 miles (6 kilometers) to distribute the sealant evenly inside the tire. Do not exceed 50 mph (80 km/h).
- 11. After 4 miles (6 kilometers), stop and check the tire pressure. See Second stage: Checking tire pressure.

**Note:** If you experience any unusual vibration, ride disturbance or noise while driving, reduce your speed until you can safely pull off to the side of the road to call for roadside assistance. Note: Do not proceed to the second stage of this operation.

# Second Stage: Checking Tire Pressure

#### WARNINGS

If you are proceeding from the First stage: Re-inflating the tire with sealing compound and air section and have injected sealant in the tire and the pressure is below 20 psi (1.4 bar), stop and call roadside assistance. If tire pressure is above 20 psi (1.4 bar), continue to the next step.



The power plug may get hot after use and should be handled carefully while unplugging.

Check the air pressure of your tires as follows:

- 1. Remove the valve cap from the tire valve.
- Unhook the black hose from the side of the compressor and fasten firmly on the valve stem by turning clockwise.
- Push and turn the dial clockwise to the air position. Turn on the kit by pressing the on button.



- 4. Adjust the tire to the recommended inflation pressure from the tire label located on the driver door or door jamb area. The tire pressure has to be checked with the compressor in the OFF position to get the correct tire pressure reading.
- 5. Turn the compressor off by pressing the on/off button.
- When the tire pressure reading with the compressor in the off position is correct, disconnect the hose, re-install the valve cap on the tire valve, unplug the compressor, and return the kit to the stowage area.

# What to do after the Tire has been Sealed

After using the kit to seal your tire, you will need to replace the sealant canister and clear tube (hose). You can obtain and replace sealing compound and spare parts at an authorized Ford dealer or tire dealer. Empty sealant bottles may be disposed of at home. However, liquid residue from the sealing compound should be disposed by your local Ford Motor Company dealer or tire dealer, or in accordance with local waste disposal regulations.

**Note:** After the sealing compound has been used, the maximum vehicle speed is 50 mph (80 km/h) and the maximum driving distance is 120 mi (200 km). The sealed tire should be inspected immediately.

**Note:** After sealant use, the tire pressure monitoring system sensor and valve stem on the wheel must be replaced by an authorized Ford dealer.

You can check the tire pressure any time within the 120 mi (200 km) by performing the procedure from Second stage: Checking tire pressure listed previously.

# Removal of the sealant canister from the kit



1144020

1. Unwrap the clear tube from the compressor housing.



E144624

2. Locate the yellow cap at the end of the clear tube.



E144625

3. Using the yellow cap tool, press the tab located on the kit compressor housing while pulling up on the sealant canister.

# Installation of the sealant canister to the kit



E144626

E161567

 Align the sealant canister with the kit housing.



Once aligned, seat the sealant canister by lightly pushing down until you hear an audible click.



F144628

3. Wrap the clear tube around the compressor housing.

**Note:** If you experience any difficulties with the removal or installation of the sealant canister, consult your Ford Motor Company authorized dealer for assistance.

Use By / Utiliser avant:

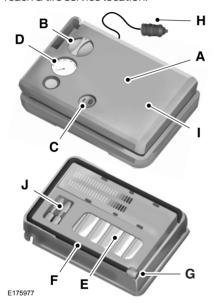
F144629

Be sure to check the sealant compound's use by date regularly. The use by date is on the lower right hand corner of the label located on the sealant canister (bottle). The sealant canister should be replaced after four years of non-use.

# Type 2

**Note:** The temporary mobility kit contains enough sealant compound in the canister for one tire repair only. See your authorized Ford dealer for replacement sealant canisters.

The kit is located under the load floor in the trunk. The kit consists of an air compressor to re-inflate the tire and a canister of sealing compound that will effectively seal most punctures caused by nails or similar objects. This kit will provide a temporary tire repair allowing you to drive your vehicle up to 120 (200 km) at a maximum speed of 50 mph (80 km/h) to reach a tire service location.



- A Air compressor (inside)
- B Selector switch
- C On and off button
- D Air pressure gauge
- E Sealant bottle and canister
- F Dual purpose hose: air and repair
- G Tire valve connector
- H Accessory power plug

- I Casing/housing
- J Bike/raft/sports ball adapters

#### **General Information**

#### WARNING



Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

**Note:** Do not use the kit if a tire has become severely damaged. Only punctures located within the tire tread can be sealed with the kit

Do not attempt to repair punctures larger than ¼ inch (6 millimeters) or damage to the tire's sidewall. The tire may not completely seal.

Loss of air pressure may adversely affect tire performance. For this reason:

**Note:** Do not drive the vehicle above 50 mph (80 km/h).

**Note:** Do not drive further than 120 mi (200 km). Drive only to the closest authorized Ford dealer or tire repair shop to have your tire inspected.

- Drive carefully and avoid abrupt steering maneuvers.
- Periodically monitor tire inflation pressure in the affected tire; if the tire is losing pressure, have the vehicle towed.
- Read the information in the Tips for Use of the Kit section to make sure safe operation of the kit and your vehicle.

# Tips for Use of the Kit

To ensure safe operation of the kit:

- Read all instructions and cautions fully.
- Before operating the kit, make sure vour vehicle is safely off the road and away from moving traffic. Turn on the hazard lights.
- Always set the parking brake to ensure the vehicle doesn't move unexpectedly.
- Do not remove any foreign objects. such as nails or screws, from the tire.
- When using the kit, leave the engine running (only if the vehicle is outdoors or in a well-ventilated area) so the compressor does not drain the vehicle's battery.
- Do not allow the compressor to operate continuously for more than 15 minutes. This will help prevent the compressor from overheating.
- Never leave the kit unattended during operation.
- Sealant compound contains latex. Those with latex sensitivities should use appropriate precautions to avoid an allergic reaction.
- Keep the kit away from children.
- Only use the kit when the ambient temperature is between -22°F (-30°C) and 158°F (70°C).
- Only use the sealing compound before the use-by date. The use-by date is on a label on the sealant canister and can be seen through the rectangular viewing window on the bottom of the compressor. Check the use-by date regularly and replace the canister after four years of non-use.
- Do not store the kit unsecured inside the passenger compartment of the vehicle as it may cause injury during a sudden stop or crash. Always store the kit in its original location.

- After sealant use, the tire pressure monitoring system sensor and valve stem on the wheel must be replaced by an authorized Ford dealer.
- Operating the kit could cause an electrical disturbance in radio, CD, and DVD player operation.



\* When inflation only is required for a tire or other objects, the selector must be in the Air

position.

#### What to do when a Tire Is Punctured

A tire puncture within the tire's tread area can be repaired in two stages with the kit.

- In the first stage, the tire will be reinflated with a sealing compound and air. After the tire has been inflated. you will need to drive the vehicle a short distance (about 4 miles [6 kilometers1) to distribute the sealant in the tire.
- In the second stage, you will need to check the tire pressure and adjust, if necessary, to the vehicle's specified tire inflation pressure.

### First Stage: Reinflating the Tire with Sealing Compound and Air

#### WARNINGS

Do not stand directly over the kit

while inflating the tire. If you notice any unusual bulges or deformations in the tire's sidewall during inflation, stop and call roadside assistance.

If the tire does not inflate to the recommended tire pressure within 15 minutes, stop and call roadside assistance.



Do not run the engine during kit operation unless the vehicle is outdoors or in a well-ventilated area.

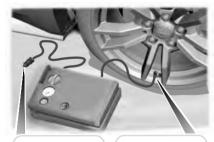
Preparation: Park the vehicle in a safe, level and secure area, away from moving traffic.

Turn the hazard lights on. Apply the parking brake and turn the engine off. Inspect the flat tire for visible damage.

Sealant compound contains latex. Use appropriate precautions to avoid any allergic reactions.

Do not remove any foreign object that has pierced the tire. If a puncture is located in the tire sidewall, stop and call roadside assistance

- Remove the valve cap from the tire valve.
- Unwrap the dual purpose hose (black tube) from the back of the compressor housing.
- Fasten the hose to the tire valve by turning the connector clockwise. Tighten the connection securely.







E175979

- 4. Plug the power cable into the 12-volt power point in the vehicle.
- Remove the warning sticker found on the casing/housing and place it on the top of the instrument panel or the center of the dash.
- Start the vehicle leave the engine running so the compressor does not drain the vehicle's battery.



E175981

- Turn dial (A) clockwise to the sealant position. Turn the kit on by pressing the on/off button (B).
- 8. Inflate the tire to the pressure listed on the tire label located on the driver's door or the door jamb area. The initial air pressure gauge reading may indicate a value higher than the label pressure while the sealing compound is being pumped into the tire. This is normal and should be no reason for concern. The

pressure gauge reading will indicate the tire inflation pressure after about 30 seconds of operation. The final tire pressure should be checked with the compressor turned OFF in order to get an accurate pressure reading.



- 9. When the recommended tire pressure is reached, turn off the kit, unplug the power cable, and disconnect the hose from the tire valve. Re-install the valve cap on the tire valve and return the kit to the stowage area.
- 10. Immediately and cautiously, drive the vehicle 4 miles (6 kilometers) to distribute the sealant evenly inside the tire. Do not exceed 50 mph (80 km/h).
- 11. After 4 miles (6 kilometers), stop and check the tire pressure. See Second stage: Checking tire pressure.

**Note:** If you experience any unusual vibration, ride disturbance or noise while driving, reduce your speed until you can safely pull off to the side of the road to call for roadside assistance. Note: Do not proceed to the second stage of this operation.

#### Second Stage: Checking Tire Pressure

#### WARNINGS

If you are proceeding from the First Stage: Re-inflating the Tire with Sealing Compound and Air section

and have injected sealant in the tire and the pressure is below 20 psi (1.4 bar), continue to the next step.



The power plug may get hot after use and should be handled carefully while unplugging.

Check the air pressure of your tires as follows:



- 1 Remove the valve cap from the tire valve.
- 2. Firmly screw the air compressor hose onto the valve stem by turning clockwise.
- 3. Push and turn the dial clockwise to the air position.

- 4. If required, turn on the compressor and adjust the tire to the recommended inflation pressure shown on the tire label located on the driver's door or door jamb area. The tire pressure should be checked with the compressor turned OFF in order to get an accurate pressure reading.
- 5. Unplug the hoses, re-install the valve cap on the tire and return the kit to the stowage area.

# What to do after the Tire has been Sealed

After using the kit to seal your tire, you will need to replace the sealant canister. Sealant canisters and spare parts can be obtained at an authorized Ford dealer. Empty sealant canisters may be disposed of at home. However, canisters still containing liquid sealant should be disposed of by your local authorized Ford dealer or tire dealer, or in accordance with local waste disposal regulation.

**Note:** After the sealing compound has been used, the maximum vehicle speed is 50 mph (80 km/h) and the maximum driving distance is 120 mi (200 km). The sealed tire should be inspected immediately.

You can check the tire pressure any time within the 120 mi (200 km) by performing the steps listed previously in the Second stage: Checking Tire Pressure procedure.

# Removal of the sealant canister from the kit



1. Unwrap the dual purpose hose (black tube) from the compressor housing.



2. Unwrap the power cord.



3. Remove the back cover.



 Rotate the sealant canister up 90 degrees and pull away from casing/housing to remove.

# Installation of the sealant canister to the kit

- With the canister held perpendicular to the housing, insert the canister nozzle into the connector and push until seated.
- 2. Rotate the canister 90 degrees down into the housing/casing.



3. Snap the back cover back into place.



 Wrap the dual purpose hose (black tube) around the channel on the bottom of the housing/casing.



Wrap the power cord around the housing and stow the accessory power plug into its storage area.

**Note:** If you experience any difficulties with the removal or installation of the sealant canister, consult your authorized Ford dealer for assistance.

Be sure to check the sealant compound's use-by date regularly. The use-by date is on a label located on the sealant canister and can be seen through the rectangular viewing window on the bottom of the kit. The sealant canister should be replaced after four years of non-use.

#### **TIRE CARE**

Important information for 235/40R19 low-profile tires and wheels If your vehicle is equipped with 235/40R19 tires. they are low-profile tires. These tires and wheels are designed to give your vehicle a sport appearance. With low-profile tires. vou may notice an increase in road noise and faster tire wear depending on road conditions and driving styles. Due to their design, low-profile tires and wheels are more prone to road damage from potholes, rough or unpaved roads, car wash rails and curb contact than standard tires and wheels.

**Note:** Your vehicle's warranty does not cover these types of damage. Tires should always be kept at the correct inflation pressures and extra caution should be taken when operating on rough roads to avoid impacts that could cause wheel and tire damage.

# Information About Uniform Tire Quality Grading



E142542

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 1 ½ 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 ABC

#### **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 original equipment tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.

- \*Tire Identification Number (TIN): A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.
- \*Inflation pressure: A measure of the amount of air in a tire.
- \*Standard load: A class of P-metric or Metric tires designed to carry a maximum load at set pressure. For example: For P-metric tires 35 psi (2.4 bar) or 36 (2.5 bar) depending on tire size and for Metric tires 36 psi (2.5 bar). Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.
- \*Extra load: A class of P-metric or Metric tires designed to carry a heavier maximum load at 42 psi (2.9 bar). Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.
- \***kPa:** Kilopascal, a metric unit of air pressure.
- \***PSI:** Pounds per square inch, a standard unit of air pressure.
- \*Cold tire pressure: The tire pressure when the vehicle has been stationary and out of direct sunlight for an hour or more and prior to the vehicle being driven for 1 mile (1.6 kilometers).

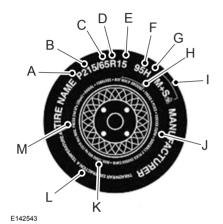
- \*Recommended inflation pressure: The cold inflation pressure found on the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or Tire Label located on the B-Pillar 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 United States and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and

describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall

## **Information on P Type Tires**



P215/65R15 95H is an example of a tire size, load index and speed rating. The definitions of these items are listed below. (Note that the tire size, load index and speed rating for your vehicle may be different from this example.) A. **P:** Indicates a tire, designated by the Tire and Rim Association, that may be used for service on cars, sport utility vehicles, minivans and light trucks. **Note:** If your tire size does not begin with a letter this may mean it is designated by either the European Tire and Rim Technical Organization or the Japan Tire Manufacturing Association.

B. **215:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

C. **65:** Indicates the aspect ratio which gives the tire's ratio of height to width.

D. R: Indicates a radial type tire.

E. **15:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

F. **95:** Indicates the tire's load index. It is an index that relates to how much weight a tire can carry. You may find this information in your owner's manual. If not, contact a local tire dealer.

**Note:** You may not find this information on all tires because it is not required by federal law.

G. **H:** Indicates the tire's speed rating. The speed rating denotes the speed at which a tire is designed to be driven for extended periods of time under a standard condition of load and inflation pressure. The tires on your vehicle may operate at different conditions for load and inflation pressure. These speed ratings may need to be adjusted for the difference in conditions. The ratings range from 81 mph (130 km/h) to 186 mph (299 km/h). These ratings are listed in the following chart.

**Note:** You may not find this information on all tires because it is not required by federal law.

Letter rating	mph ( km/h)
М	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)
Т	118 mph (190 km/h)
U	124 mph (200 km/h)
Н	130 mph (210 km/h)
V	149 mph (240 km/h)

Letter rating	mph ( km/h)	
W	168 mph (270 km/h)	
Υ	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:

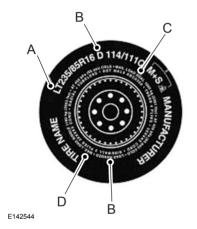
\*Treadwear The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half times as well on the government course as a tire graded 100.

- \*Traction: The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.
- \***Temperature:** The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.
- M. Maximum Inflation **Pressure:** Indicates the tire manufacturers' maximum permissible pressure or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the vehicle manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label (affixed to either the door hinge pillar. door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load, radial tubeless, etc.

## Additional Information Contained on the Tire Sidewall for LT Type Tires

**Note:** Tire Quality Grades do not apply to this type of tire.



LT type tires have some additional information beyond those of P type tires; these differences are described below.

A. **LT:** Indicates a tire, designated by the Tire and Rim Association, that is intended for service on light trucks.

B. Load Range and Load Inflation Limits: Indicates the tire's load-carrying capabilities and its inflation limits.

C. Maximum Load Dual lb (kg) at psi (kPa) cold: Indicates the maximum load and tire pressure when the tire is used as a dual; defined as four tires on the rear axle (a total of six or more tires on the vehicle).

D. Maximum Load Single lb (kg) at psi (kPa) cold: Indicates the maximum load and tire pressure when the tire is used as a single; defined as two tires (total) on the rear axle.

## **Information on T Type Tires**

T145/80D16 is an example of a tire size.

**Note:** The temporary tire size for your vehicle may be different from this example. Tire Quality Grades do not apply to this type of tire.



E142545

T type tires have some additional information beyond those of P type tires; these differences are described below:

A. **T:** Indicates a type of tire, designated by the Tire and Rim Association, that is intended for temporary service on cars, sport utility vehicles, minivans and light trucks.

B. **145:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

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.

## **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.

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

#### **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!

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 Inflation Pressure** is the tire manufacturer's maximum permissible pressure and 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.

**Note:** If you are checking tire pressure when the tire is hot, (for example, driven more than 1 mile [1.6 kilometers]), 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 wheel and tire assembly information for a description. Store and maintain at 60 psi (4.15 bar). For full-size and dissimilar spare tires, see the Dissimilar spare wheel and tire assembly information for a description. Store and maintain at the higher of the front and rear inflation pressure as shown on the Tire I abel.

- 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.
- 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**



E142546

When the tread is worn down to one sixteenth of an inch (2 mm), tires must be replaced to help prevent your vehicle from skidding and hydroplaning. Built-in treadwear indicators, or wear bars, which look like narrow strips of smooth rubber across the tread will appear on the tire when the tread is worn down to one sixteenth of an inch (2 millimeters)

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

## Age

#### WARNING

Tires degrade over time depending on many factors such as weather, storage conditions, and conditions of use (load, speed, inflation pressure) the tires experience throughout their lives.

In general, tires should be replaced after six years regardless of tread wear. However, heat caused by hot climates or frequent high loading conditions can accelerate the aging process and may require tires to be replaced more frequently.

You should replace your spare tire when you replace the road tires or after six years due to aging even if it has not been used.

## U.S. DOT Tire Identification Number (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

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.

## **WARNINGS**

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

#### **WARNINGS**

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 vour 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, transfer case or power transfer unit failure. If you have questions regarding tire replacement, contact your authorized dealer as soon as possible.

To reduce the risk of serious injury, when mounting replacement tires and wheels, you should not exceed the maximum pressure indicated on the sidewall of the tire to set the beads without additional precautions listed below. If the beads do not seat at the maximum pressure indicated, re-lubricate and try again

#### **WARNINGS**

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 feet (3.66 meters) away from the wheel and tire 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 feet (3.66 meters) away from the wheel and tire assembly

**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**

### **WARNINGS**

If your vehicle is stuck in snow, mud or sand, do not rapidly spin the tires; spinning the tires can tear the tire and cause an explosion. A tire can explode in as little as three to five seconds.

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 wheel and tire assembly. A dissimilar spare wheel and tire assembly is defined as a spare wheel and tire assembly that is different in brand, size or appearance from the road tires and wheels. If you have a dissimilar spare wheel and tire assembly it is intended for temporary use only and should not be used in a tire rotation

**Note:** After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.

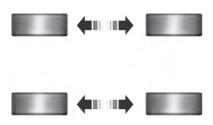
Rotating your tires at the recommended interval (as indicated in the Scheduled Maintenance chapter) will help your tires wear more evenly, providing better tire performance and longer tire life.

Front-wheel drive and all-wheel drive vehicles (front tires on the left side of the diagram)



E142547

All vehicles with directional tires (front tires on the left side of the diagram)



E147237

Sometimes irregular tire wear can be corrected by rotating the tires.

#### **Summer Tires**

Your Ford vehicle may be equipped with summer tires to provide superior performance on wet and dry roads. Summer tires do not have the Mud and Snow (M+S or M/S) tire traction rating on the tire side wall. Since summer tires do not have the same traction performance as All-season or Snow tires. Ford does not recommend using summer tires when temperatures drop to approximately 40°F (5°C) or below (depending on tire wear and environmental conditions) or in snow and ice conditions. Like any tire, summer tire performance is affected by tire wear and environmental conditions. If you must drive in those conditions, Ford recommends using Mud and Snow (M+S, M/S), All-season or Snow tires.

#### **USING SUMMER TIRES**

Summer tires provide superior performance on wet and dry roads. Summer tires do not have the Mud and Snow (M+S or M/S) tire traction rating on the tire side wall. Since summer tires do not have the same traction performance. as All-season or Snow tires, we do not recommend using summer tires when temperatures drop to approximately 45°F (7°C) or below (depending on tire wear and environmental conditions) or in snow and ice conditions. Like any tire, summer tire performance is affected by tire wear and environmental conditions. If you must drive in those conditions, we recommend using Mud and Snow (M+S, M/S). All-season or Snow tires.

Always store your summer tires indoors at temperatures above 20°F (-7°C). The rubber compounds used in these tires lose flexibility and may develop surface cracks in the tread area at temperatures below 20°F (-7°C). If the tires have been subjected to 20°F (-7°C) or less, warm them in a heated space to at least 40°F (5°C) for at least 24 hours before installing them on a vehicle, or moving the vehicle with the tires installed, or checking tire inflation. Do not place tires near heaters or heating devices used to warm the room where the tires are stored. Do not apply heat or blow heated air directly on the tires. Always inspect the tires after storage periods and before use.

#### **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, transfer

case or power transfer unit failure.

The tires on your vehicle may have all-weather treads to provide traction in rain and snow. However, in some climates, you may need to use snow tires and cables. If you need to use cables, it is recommended that steel wheels (of the same size and specifications) be used, as cables may chip aluminum wheels.

Follow these guidelines when using snow tires and traction devices

- If possible, avoid fully loading your vehicle
- Purchase chains or cables from a manufacturer that clearly labels body to tire dimension restrictions.
- Use no larger than 15 mm cables or chains ONLY on front axle with 215/60R16 tires. Do not use chains or cables on any other size tires.
- The snow chains or cables must be mounted in pairs on the front axle.
- When driving with tire cables do not exceed 30 mph (48 km/h) or the maximum speed recommended by the chain manufacturer, whichever is less.

- Drive cautiously. If you hear the cables rub or bang against the vehicle, stop and retighten them. If this does not work, remove the cables to prevent vehicle damage.
- Remove the cables when they are no longer needed. Do not use cables on dry roads.

If you have any questions regarding snow chains or cables, please contact your authorized dealer.

## 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.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

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 Tire Pressure Monitoring System



**Note:** Each road tire is equipped with a tire pressure sensor located inside the wheel and tire 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. Take care when changing the tire to avoid damaging the sensor

You should always have your tires serviced by an authorized dealer.

Check the tire pressure periodically (at least monthly) using an accurate tire gauge. See Inflating Your Tires in this chapter.

#### Understanding Your Tire Pressure Monitoring System

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.

## When Your Temporary Spare Tire is Installed

When one of your road tires needs to be replaced with the temporary spare, the system will continue to identify an issue to remind you that the damaged road wheel and tire assembly needs to be repaired and put back on your vehicle.

To restore the full function of the tire pressure monitoring system, have the damaged road wheel and tire assembly repaired and remounted on your vehicle.

#### 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. See 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	Make sure tires are at the proper pressure. See Inflating your tires in this chapter. 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 and tire assembly and reinstall it on the vehicle to restore system function. For a description on how the system functions, see <b>When your temporary spare tire is installed</b> 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.
Flashing warning light	Spare tire in use	Repair the damaged road wheel and tire assembly and reinstall it on the vehicle to restore system function. For a description on how the system functions, see When your temporary spare tire is installed 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. monitors tire pressure in each pneumatic tire. While driving in a normal manner, a typical passenger tire inflation pressure may increase about 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 about 3 psi (21 kPa) for a drop of 30°F (17°C) in ambient temperature. This lower pressure value may be detected by the tire pressure monitoring system as being significantly lower than the recommended inflation pressure and activate the system 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 the 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**

#### WARNINGS

The use of tire sealant may damage your tire pressure monitoring system and should only be used in roadside emergencies. If you must use a sealant, the Ford Tire Mobility Kit sealant should be used. The tire pressure monitoring system sensor and valve stem on the wheel must be replaced by an authorized dealer after use of the sealant.



If the tire pressure monitor sensor becomes damaged, it will no longer function. See **Tire Pressure** 

Monitoring System (page 301).

**Note:** The tire pressure monitoring system indicator light will illuminate when the spare tire is in use. To restore the full function of the monitoring system, all road wheels equipped with tire pressure monitoring sensors must be mounted on 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 tire pressure monitoring system sensors. See **Tire Pressure Monitoring System** (page 301). Replace the spare tire with a road tire as soon as possible. During repairing or replacing of the flat tire, have an authorized dealer inspect the tire pressure monitoring system sensor for damage.

## Dissimilar Spare Wheel and Tire 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 wheel and tire, 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 wheel and tire 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 wheel and tire assembly is defined as a spare wheel and tire assembly 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 WHEEL AND TIRE ASSEMBLY FOR TEMPORARY USF 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 wheel and tire assembly, do not:

- Exceed 70 mph (113 km/h).
- Use more than one dissimilar spare wheel and tire assembly at a time.

- Use commercial car washing equipment.
- Use snow chains on the end of the vehicle with the dissimilar spare wheel and tire assembly.

The usage of a full-size dissimilar spare wheel and tire 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

When driving with the full-size dissimilar spare wheel and tire 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 wheel and tire assembly and seek service as soon as possible.

## Tire Change Procedure (If Equipped)

#### WARNINGS

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 is in park (P).



To help prevent your vehicle from moving when you change a tire, be sure to place the transmission in park

(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.

#### **WARNINGS**

Never get underneath a vehicle that is supported only by a jack. If your vehicle slips off the jack, you or someone else could be seriously injured.

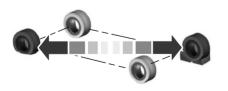
Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to avoid the danger of being hit when operating the jack or changing the wheel.

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 your vehicle when the vehicle is being jacked.

### Type 1

- 1. Park on a level surface, set the parking brake and activate the hazard flashers.
- 2. Place the transmission in park (P) and turn the engine off. For vehicles with a manual transmission, place the transmission in reverse (R) after the engine is turned off.



E175447

- 3. Block both the front and rear of the wheel diagonally opposite the flat tire. For example, if the left front tire is flat, block the right rear wheel.
- 4. Remove the carpeted wheel cover.
- Remove the spare tire bolt securing the spare tire by turning it counterclockwise.
- 6. Remove the spare tire from the spare tire compartment.

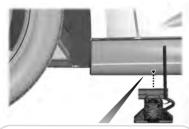


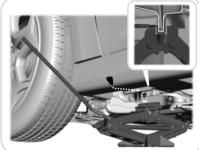
- Remove the lug wrench and jack from the foam holder.
- 8. Loosen each wheel lug nut one-half turn counterclockwise, but do not remove them until the wheel is raised off the ground.



E145908

9. The vehicle jacking points are shown here, and can be identified by the triangle markings on the molding. The triangle marking may be located on the side or the underside of the molding. The jacking points are identified on vehicles without moldings by a pair of arrows on the metal flange pointing to the jacking point between them. Details are depicted on the warning label on the iack.

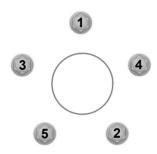




E174775

- Place the jack at the jacking point next to the tire you are changing. Turn the jack handle clockwise until the wheel is completely off the ground.
- 11. Remove the lug nuts with the lug wrench.

- 12. 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. If you are using the temporary tire, the lug nut washers will not appear to be flush with the rim. This is normal only when using the temporary spare tire.
- 13. Lower the wheel by turning the jack handle counterclockwise.

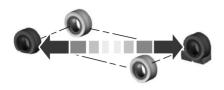


E75442

- 14. Remove the jack and fully tighten the lug nuts in the order shown. See **Changing a Road Wheel** (page 305).
- Put the flat tire, jack and lug wrench away. Make sure the jack is fastened securely before you drive.
- 16. Unblock the wheel.

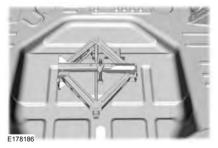
## Type 2

- Park on a level surface, set the parking brake and activate the hazard flashers.
- 2. Place the transmission in park (P) and turn the engine off. For vehicles with a manual transmission, place the transmission in reverse (R) after the engine is turned off.



#### E175447

- Block both the front and rear of the wheel diagonally opposite the flat tire. For example, if the left front tire is flat, block the right rear wheel.
- 4. Remove the carpeted wheel cover.
- Remove the spare tire bolt securing the spare tire by turning it counterclockwise.
- 6. Remove the spare tire from the spare tire compartment.

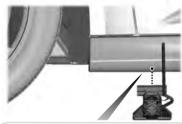


- 7. Remove the lug wrench and jack from the spare tire compartment.
- Loosen each wheel lug nut one-half turn counterclockwise, but do not remove them until the wheel is raised off the ground.



#### E145908

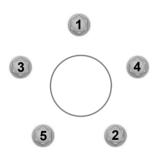
9. The vehicle jacking points are shown here, and can be identified by the triangle markings on the molding. The triangle marking may be located on the side or the underside of the molding. The jacking points are identified on vehicles without moldings by a pair of arrows on the metal flange pointing to the jacking point between them. Details are depicted on the warning label on the jack.





E174775

- Place the jack at the jacking point next to the tire you are changing. Turn the jack handle clockwise until the wheel is completely off the ground.
- 11. Remove the lug nuts with the lug wrench.
- 12. 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. If you are using the temporary tire, the lug nut washers will not appear to be flush with the rim. This is normal only when using the temporary spare tire.
- 13. Lower the wheel by turning the jack handle counterclockwise.



#### E75442

- Remove the jack and fully tighten the lug nuts in the order shown. See Changing a Road Wheel (page 305).
- 15. Put the flat tire, jack and lug wrench away. Make sure the jack is fastened securely before you drive.
- 16. Unblock the wheel.

## Stowing the flat tire (Type 1)

You can stow the full-size road wheel in the spare tire compartment.

- Lift the carpeted wheel cover at an angle to access the spare tire compartment.
- Place the wheel in the spare tire well with the valve stem facing down. Use the mini-spare bolt to secure the wheel through one of the lug holes.
- 3. Place the jack, tools and foam block back into the spare tire compartment.
- 4. Replace the carpeted wheel cover.



F146026

### Stowing the flat tire (Type 2)

You can stow the full-size road wheel in the spare tire compartment.

- Lift the carpeted wheel cover at an angle to access the spare tire compartment.
- 2. Place the wheel in the spare tire well with the valve stem facing down. Use the mini-spare bolt to secure the wheel through one of the lug holes.
- 3. Place the jack and tools back into the spare tire compartment.
- 4. Replace the carpeted wheel cover.



#### **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. Make sure 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 your vehicle is in motion, resulting in loss of control.

Bolt size	lb-ft (Nm) <sup>*</sup>
M12 x 1.5	100 (135)

<sup>\*</sup>Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.

Retighten the lug nuts to the specified torque within 100 miles (160 kilometers) after any wheel disturbance (such as tire rotation, changing a flat tire, wheel removal).



A Wheel pilot bore

Inspect the wheel pilot bore and mounting surface prior to installation. Remove any visible corrosion or loose particles.

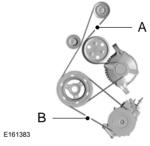
### **ENGINE SPECIFICATIONS**

Engine	1.5L EcoBoost engine	2.0L EcoBoost engine	2.5L engine
Cubic inches	92	122	152
Required fuel	Minimum 87 octane	Minimum 87 octane	Minimum 87 octane
Compression ratio	10.0:1	9.3:1	9.7:1
Spark plug gap	0.025-0.029 in. (0.65- 0.75 mm)	0.027-0.031 in. (0.70-0.80 mm)	0.049-0.053 in. (1.25-1.35 mm)

## **Drivebelt Routing**



## 2.0L and 2.5L engines



- A. Long drivebelt is on first pulley groove closest to engine
- B. Short drivebelt is on second pulley groove farthest from engine

### **MOTORCRAFT PARTS**

Component	1.5L EcoBoost Engine	2.0L EcoBoost Engine	2.5L Engine
Air filter element	FA-1912		
Oil filter	FL-910S		
Battery	BXT-90T5-500	BXT-90T5-590 <sup>1</sup>	BXT-90T5-500
	BXT-90T5-590 <sup>1</sup>		
	BAGM-48H6-760 <sup>2</sup>		BXT-90T5-590 <sup>1</sup>

Component	1.5L EcoBoost Engine	2.OL EcoBoost Engine	2.5L Engine
Spark plugs	SP-539	SP-537	SP-530
Cabin air filter	FP-71		
Windshield wiper blade	WW-2601 (driver side) WW-2700 (passenger side)		

<sup>&</sup>lt;sup>1</sup>This part is designed for vehicles with Intelligent Access.

We recommend Motorcraft replacement parts available at your Ford dealer or at fordparts.com for scheduled maintenance. These parts meet or exceed Ford Motor Company's specifications and are engineered for your vehicle. Use of other parts may impact vehicle performance, emissions and durability. Your warranty may be void for any damage related to use of other parts.

If a Motorcraft oil filter is not available, use an oil filter that meets industry performance specification SAE/USCAR-36.

For spark plug replacement, contact an authorized dealer. Replace the spark plugs at the appropriate intervals. See **Scheduled Maintenance** (page 464).

<sup>&</sup>lt;sup>2</sup>This part is designed for vehicles with Automatic-Start-Stop.

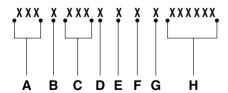
## VEHICLE IDENTIFICATION NUMBER

The vehicle identification number is located on the left-hand side of the instrument panel.



Please note that in the graphic, XXXX is representative of your vehicle identification number.

The Vehicle Identification Number contains the following information:

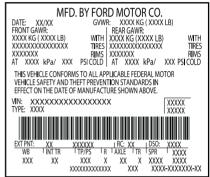


F142477

- A World manufacturer identifier
- B Brake system, Gross Vehicle Weight Rating, Restraint Devices and their locations

- C Make, vehicle line, series, body type
- D Engine type
- E Check digit
- F Model year
- G Assembly plant
- H Production sequence number

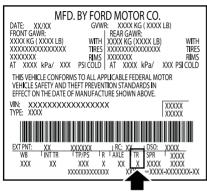
## VEHICLE CERTIFICATION LABEL



F167469

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



The transmission code is on the Safety Compliance Certification Label. The following table shows the transmission code along with the transmission description.

Description	Code
Six-speed automatic transmission.	W

E167814

#### CAPACITIES AND SPECIFICATIONS - 1.5L ECOBOOST™

#### Capacities

#### **WARNING**



The air conditioning refrigerant system contains refrigerant R-134a under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Item	Capacity	
Engine oil	4.3 qt (4.1 L)	
Engine coolant	11.1 qt (10.5 L)	
Brake fluid	Between MIN/MAX on brake fluid reservoir	
Automatic transmission fluid¹	9.0 qt (8.5 L)	
Windshield washer fluid	Fill as required	
Fuel tank (Front Wheel Drive)	16.5 gal (62.5 L)	

Item	Capacity
A/C refrigerant	20 oz (0.56 kg)
A/C refrigerant compressor oil	5.2 fl oz (153.8 ml)

<sup>&</sup>lt;sup>1</sup>Approximate dry fill capacity. Actual amount may vary during fluid changes.

## **Specifications**

#### **Materials**

Name	Specification
Recommended motor oil (U.S.): Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil XO-5W20-OSP	WSS-M2C945-A
Recommended motor oil (Canada): Motorcraft SAE 5W-20 Super Premium Motor Oil CXO-5W20-LSP12	WSS-M2C945-A
Recommended motor oil (Mexico): Motorcraft SAE 5W-20 Synthetic Motor Oil MXO-5W20-QSP	WSS-M2C945-A
Optional motor oil (U.S. and Mexico): Motorcraft SAE 5W-20 Full Synthetic Motor Oil XO-5W20-QFS	WSS-M2C945-A
Optional motor oil (Canada): Motorcraft SAE 5W-20 Synthetic Motor Oil CXO-5W20-LFS12	WSS-M2C945-A
Engine coolant (U.S. and Mexico): Motorcraft Orange Antifreeze/Coolant Prediluted VC-3DIL-B	WSS-M97B44-D2
Engine coolant (Canada): Motorcraft Orange Antifreeze/Coolant Prediluted CVC-3DIL-B	WSS-M97B44-D2
Brake fluid: Motorcraft DOT 4 Low Viscosity (LV) High Performance Motor Vehicle Brake Fluid PM-20	WSS-M6C65-A2
Automatic transmission fluid (U.S. and Mexico): Motorcraft MERCON LV Automatic Transmission Fluid	WSS-M2C938-A MERCON LV

Name	Specification
XT-10-QLVC	
Automatic transmission fluid (Canada): Motorcraft MERCON LV Automatic Transmission Fluid CXT-10-LV12	WSS-M2C938-A MERCON LV
Windshield washer fluid (U.S. and Mexico): Motorcraft Premium Windshield Wash Concentrate with Bitterant ZC-32-B2	WSS-M14P19-A
Windshield washer fluid (Canada): Motorcraft Premium Quality Windshield Washer Fluid CXC-37-(A, B, D, F)	WSS-M14P19-A
A/C refrigerant (U.S.): Motorcraft R-134a Refrigerant YN-19	WSH-M17B19-A
A/C refrigerant (Canada): Motorcraft R-134a Refrigerant CYN-16-R	WSH-M17B19-A
A/C refrigerant (Mexico): Motorcraft R-134a Refrigerant MYN-19	WSH-M17B19-A
A/C refrigerant compressor oil: Motorcraft PAG Refrigerant Compressor Oil YN-12-D	WSH-M1C231-B
Multi-purpose grease: Motorcraft Multi-Purpose Grease Spray XL-5	ESB-MIC93-B
Lock cylinders (U.S.): Penetrating and Lock Lubricant XL-1	
Lock cylinders (Canada): Penetrating Fluid CXC-51-A	
Lock cylinders (Mexico): Penetrating and Lock Lubricant MXL-1	

If you use oil and fluids that do not meet the defined specification and viscosity grade, this may lead to:

- Component damage which is not covered by the vehicle warranty.
- Longer engine cranking periods.
- Increased emission levels.
- Reduced engine performance.
- Reduced fuel economy.
- Degraded brake performance.

We recommend Motorcraft motor oil for your vehicle. If Motorcraft oil is not available, use motor oils of the recommended viscosity grade that meet API SN requirements and display the API Certification Mark for gasoline engines. Do not use oil labeled with API SN service category unless the label also displays the API certification mark.



An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of the International Lubricants Specification Advisory Council (ILSAC).

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that may not be covered by your vehicle warranty.

Note: Ford recommends using DOT 4 Low Viscosity (LV) High Performance Brake Fluid or equivalent meeting WSS-M6C65-A2. Use of any fluid other than the recommended fluid may cause degraded brake performance and not meet the Ford performance standards. Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials may result in brake system damage and possible failure.

**Note:** Automatic transmissions that require MERCON LV transmission fluid should only use MERCON LV transmission fluid. The use of any other fluid may cause transmission damage.

E142732

## CAPACITIES AND SPECIFICATIONS - 2.0L ECOBOOST™

## Capacities

#### **WARNING**



The air conditioning refrigerant system contains refrigerant R-134a under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Item	Capacity
Engine oil	5.7 qt (5.4 L)
Engine coolant	8.9 qt (8.4 L)
Brake fluid	Between MIN/MAX on brake fluid reservoir
Rear differential (All Wheel Drive) fluid	2.4 pt (1.15L)
Power Transfer Unit (PTU) fluid (All Wheel Drive)	11.8 fl oz (0.35 L)
Automatic transmission fluid <sup>1</sup>	9.0 qt (8.5 L)
Windshield washer fluid	Fill as required
Fuel tank (Front Wheel Drive)	16.5 gal (62.5 L)
Fuel tank (All Wheel Drive)	17.5 gal (66.2 L)
A/C refrigerant	20 oz (0.56 kg)
A/C refrigerant compressor oil	5.2 fl oz (153.8 ml)

<sup>&</sup>lt;sup>1</sup>Approximate dry fill capacity. Actual amount may vary during fluid changes.

## **Specifications**

### **Materials**

Name	Specification
Recommended motor oil (U.S.): Motorcraft SAE 5W-30 Premium Synthetic Blend Motor Oil XO-5W30-QSP	WSS-M2C946-A
Recommended motor oil (Canada): Motorcraft SAE 5W-30 Super Premium Motor Oil CXO-5W30-LSP12	WSS-M2C946-A
Recommended motor oil (Mexico): Motorcraft SAE 5W-30 Synthetic Motor Oil MXO-5W30-QSP	WSS-M2C946-A
Optional motor oil (U.S. and Mexico): Motorcraft SAE 5W-30 Full Synthetic Motor Oil XO-5W30-QFS	WSS-M2C946-A
Optional motor oil (Canada):	WSS-M2C946-A

Name	Specification
Motorcraft SAE 5W-30 Synthetic Motor Oil CXO-5W30-LFS12	
Engine coolant (U.S. and Mexico): Motorcraft Orange Antifreeze/Coolant Prediluted VC-3DIL-B	WSS-M97B44-D2
Engine coolant (Canada): Motorcraft Orange Antifreeze/Coolant Prediluted CVC-3DIL-B	WSS-M97B44-D2
Brake fluid: Motorcraft DOT 4 Low Viscosity (LV) High Performance Motor Vehicle Brake Fluid PM-20	WSS-M6C65-A2
Rear differential (All Wheel Drive) fluid: Motorcraft SAE 80W-90 Premium Rear Axle Lubricant XY-80W90-QL	WSP-M2C197-A
Power Transfer Unit (PTU) fluid (All Wheel Drive): Motorcraft SAE 75W-140 Synthetic Rear Axle Lubricant XY-75W140-QL	WSL-M2C192-A
Automatic transmission fluid (U.S. and Mexico): Motorcraft MERCON LV Automatic Transmission Fluid XT-10-QLVC	WSS-M2C938-A MERCON LV
Automatic transmission fluid (Canada): Motorcraft MERCON LV Automatic Transmission Fluid CXT-10-LV12	WSS-M2C938-A MERCON LV
Windshield washer fluid (U.S. and Mexico): Motorcraft Premium Windshield Wash Concentrate with Bitterant ZC-32-B2	WSS-M14P19-A
Windshield washer fluid (Canada): Motorcraft Premium Quality Windshield Washer Fluid CXC-37-(A, B, D, F)	WSS-M14P19-A
A/C refrigerant (U.S.): Motorcraft R-134a Refrigerant YN-19	WSH-M17B19-A
A/C refrigerant (Canada): Motorcraft R-134a Refrigerant CYN-16-R	WSH-M17B19-A

Name	Specification
A/C refrigerant (Mexico): Motorcraft R-134a Refrigerant MYN-19	WSH-M17B19-A
A/C refrigerant compressor oil: Motorcraft PAG Refrigerant Compressor Oil YN-12-D	WSH-M1C231-B
Multi-purpose grease: Motorcraft Multi-Purpose Grease Spray XL-5	ESB-M1C93-B
Lock cylinders (U.S.): Penetrating and Lock Lubricant XL-1	
Lock cylinders (Canada): Penetrating Fluid CXC-51-A	
Lock cylinders (Mexico): Penetrating and Lock Lubricant MXL-1	

If you use oil and fluids that do not meet the defined specification and viscosity grade, this may lead to:

- Component damage which is not covered by the vehicle warranty.
- Longer engine cranking periods.
- Increased emission levels.
- Reduced engine performance.
- Reduced fuel economy.
- Degraded brake performance.

We recommend Motorcraft motor oil for your vehicle. If Motorcraft oil is not available, use motor oils of the recommended viscosity grade that meet API SN requirements and display the API Certification Mark for gasoline engines. Do not use oil labeled with API SN service category unless the label also displays the API certification mark.



#### E142732

An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of the International Lubricants Specification Advisory Council (ILSAC).

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that may not be covered by your vehicle warranty.

**Note:** Ford recommends using DOT 4 Low Viscosity (LV) High Performance Brake Fluid or equivalent meeting WSS-M6C65-A2. Use of any fluid other than the recommended fluid may cause degraded brake performance and not meet the Ford performance standards. Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials may result in brake system damage and possible failure.

**Note:** Automatic transmissions that require MERCON LV transmission fluid should only use MERCON LV transmission fluid. The use of any other fluid may cause transmission damage.

#### **CAPACITIES AND SPECIFICATIONS - 2.5L**

#### **Capacities**

#### WARNING



The air conditioning refrigerant system contains refrigerant R-134a under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Item	Capacity
Engine oil	5.7 qt (5.4 L)
Engine coolant	7.2 qt (6.8 L)
Brake fluid	Between MIN/MAX on brake fluid reservoir
Automatic transmission fluid <sup>1</sup>	9.0 qt (8.5 L)
Windshield washer fluid	Fill as required
Fuel tank	16.5 gal (62.5 L)
A/C refrigerant	24 oz (0.68 kg)
A/C refrigerant (E100 engines)	20 oz (0.56 kg)
A/C refrigerant compressor oil	5.2 fl oz (153.8 ml)

<sup>&</sup>lt;sup>1</sup>Approximate dry fill capacity. Actual amount may vary during fluid changes.

## **Specifications**

### Materials

Name	Specification
Recommended motor oil (U.S.): Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil XO-5W20-QSP	WSS-M2C945-A
Recommended motor oil (Canada): Motorcraft SAE 5W-20 Super Premium Motor Oil CXO-5W20-LSP12	WSS-M2C945-A
Recommended motor oil (Mexico): Motorcraft SAE 5W-20 Synthetic Motor Oil MXO-5W20-QSP	WSS-M2C945-A
Optional motor oil (U.S. and Mexico): Motorcraft SAE 5W-20 Full Synthetic Motor Oil XO-5W20-QFS	WSS-M2C945-A
Optional motor oil (Canada): Motorcraft SAE 5W-20 Synthetic Motor Oil CXO-5W20-LFS12	WSS-M2C945-A
Engine coolant (U.S. and Mexico): Motorcraft Orange Antifreeze/Coolant Prediluted VC-3DIL-B	WSS-M97B44-D2
Engine coolant (Canada): Motorcraft Orange Antifreeze/Coolant Prediluted CVC-3DIL-B	WSS-M97B44-D2
Brake fluid: Motorcraft DOT 4 Low Viscosity (LV) High Performance Motor Vehicle Brake Fluid PM-20	WSS-M6C65-A2
Rear differential (All Wheel Drive) fluid: Motorcraft SAE 80W-90 Premium Rear Axle Lubricant XY-80W90-QL	WSP-M2C197-A
Power Transfer Unit (PTU) fluid (All Wheel Drive): Motorcraft SAE 75W-140 Synthetic Rear Axle Lubricant XY-75W140-QL	WSL-M2C192-A
Automatic transmission fluid (U.S. and Mexico): Motorcraft MERCON LV Automatic Transmission Fluid XT-10-QLVC	WSS-M2C938-A MERCON LV

Name	Specification
Automatic transmission fluid (Canada): Motorcraft MERCON LV Automatic Transmission Fluid CXT-10-LV12	WSS-M2C938-A MERCON LV
Windshield washer fluid (U.S. and Mexico): Motorcraft Premium Windshield Wash Concentrate with Bitterant ZC-32-B2	WSS-M14P19-A
Windshield washer fluid (Canada): Motorcraft Premium Quality Windshield Washer Fluid CXC-37-(A, B, D, F)	WSS-M14P19-A
A/C refrigerant (U.S.): Motorcraft R-134a Refrigerant YN-19	WSH-M17B19-A
A/C refrigerant (Canada): Motorcraft R-134a Refrigerant CYN-16-R	WSH-M17B19-A
A/C refrigerant (Mexico): Motorcraft R-134a Refrigerant MYN-19	WSH-M17B19-A
A/C refrigerant compressor oil: Motorcraft PAG Refrigerant Compressor Oil YN-12-D	WSH-M1C231-B
Multi-purpose grease: Motorcraft Multi-Purpose Grease Spray XL-5	ESB-M1C93-B
Lock cylinders (U.S.): Penetrating and Lock Lubricant XL-1	
Lock cylinders (Canada): Penetrating Fluid CXC-51-A	
Lock cylinders (Mexico): Penetrating and Lock Lubricant MXL-1	

If you use oil and fluids that do not meet the defined specification and viscosity grade, this may lead to:

- Component damage which is not covered by the vehicle warranty.
- Longer engine cranking periods.
- Increased emission levels.
- Reduced engine performance.
- Reduced fuel economy.
- Degraded brake performance.

We recommend Motorcraft motor oil for your vehicle. If Motorcraft oil is not available, use motor oils of the recommended viscosity grade that meet API SN requirements and display the API Certification Mark for gasoline engines. Do not use oil labeled with API SN service category unless the label also displays the API certification mark.

**Note:** Ford recommends using DOT 4 Low Viscosity (LV) High Performance Brake Fluid or equivalent meeting WSS-M6C65-A2. Use of any fluid other than the recommended fluid may cause degraded brake performance and not meet the Ford performance standards. Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials may result in brake system damage and possible failure.

**Note:** Automatic transmissions that require MERCON LV transmission fluid should only use MERCON LV transmission fluid. The use of any other fluid may cause transmission damage.



#### E142732

An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of the International Lubricants Specification Advisory Council (ILSAC).

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that may not be covered by your vehicle warranty.

#### **GENERAL 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

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

#### **CD and CD Player Information**

**Note:** CD units play commercially pressed 4.75-inch (12 centimeter) 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:** Do not insert CDs with homemade paper (adhesive) labels into the CD player as the label may peel and cause the CD to become jammed. You should use a permanent felt tip marker rather than adhesive labels on your homemade CDs. Ballpoint pens may damage CDs. Please contact an 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. Wipe it 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.

#### 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 TO01 to a maximum of T255. 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.

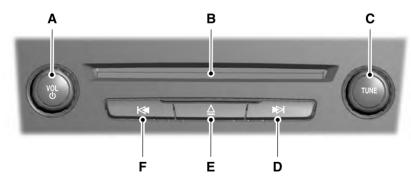
In track mode, the system displays and plays the structure as if it were only one level deep (all .mp3 files play, regardless of being in a specific folder). In folder mode, the system only plays the .mp3 files in the current folder.

## AUDIOUNIT-VEHICLES WITH: AM/FM/CD/SYNC

#### WARNING

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

**Note:** Depending on your vehicle option package, your system may look different from what you see here.



E185815

- A **VOL and Power:** Press this button to turn the system off and on. Turn it to adjust the volume.
- B **CD slot:** Insert a CD.
- C **TUNE:** Turn to search the frequency in individual increments.
- D Seek: In radio mode, select a frequency and press this button. The system stops at the first station up the band. Press and hold the button to move quickly to the next strong radio station. In CD mode, press this button to select the next track. Press and hold the button to move quickly forward through the current track.
- E **Eject:** Press this button to eject a CD.
- F Seek: In radio mode, select a frequency and press this button. The system stops at the first station down the band. Press and hold the button to move quickly to the previous strong radio station. In CD mode, press this button to select the previous track. Press and hold the button to move quickly backward through the current track.

# AUDIOUNIT-VEHICLES WITH: AM/FM/CD/SYNC/SATELLITE RADIO

#### **WARNING**

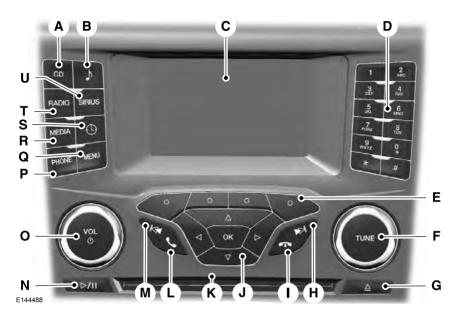
Driving while distracted can result in

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

local laws that may affect the use of electronic devices while driving.

**Note:** Depending on your vehicle option package, your system may look different from what you see here.

**Note:** Some features, such as Sirius satellite radio, may not be available in your location. Check with an authorized dealer.



- A **CD:** Press this button to listen to a CD. Press the function buttons below the radio screen to select on-screen options of Repeat or Shuffle.
- B **SOUND:** Press this button to access settings for Treble, Midrange, Bass, Fade and Balance. Use the up and down arrow buttons to select the various settings. When you make your selection, press the left and right arrow buttons to change the settings. Press **OK** to set or press **MENU** to exit. Sound settings can be set for each audio source independently.
- C **Display screen:** Shows audio and SYNC information.
- D **Number block:** In radio mode, store your favorite stations for later access. When tuned to any station, press and hold a preset button until sound returns. In CD mode, press a button to select a track. In phone mode, press the buttons to enter a phone number.
- E **Function buttons:** Select different functions of the audio system depending on which mode you are in (such as Radio mode or CD mode).
- F **TUNE:** Turn to search the frequency band in individual increments.
- G **Eject:** Press this button to eject a CD.

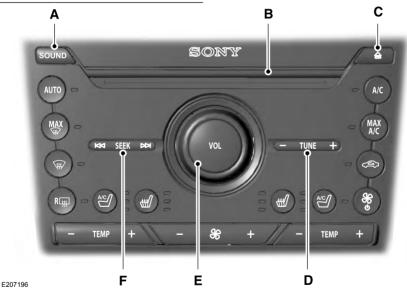
- H **Seek:** In radio mode, select a frequency band and press this button. The system stops at the first station up the band. Press and hold the button to move quickly to the next strong radio station or memory preset. In CD mode, press this button to select the next track. Press and hold the button to move quickly forward through the current track.
- **End phone call:** Press this button to end a phone call.
- J **Cursor arrows and OK:** Use the up and down arrow buttons to select the various settings. When you make your selection, press the left and right arrow buttons to change the settings. Press **OK** to set or press **MENU** to exit.
- K CD slot: Insert a CD.
- L **Pick-up or Make phone call:** Press this button to either pick-up an incoming phone call or to make a phone call.
- M **Seek:** In radio mode, select a frequency band and press this button. The system stops at the first station down the band. Press and hold the button to move quickly to the previous strong radio station or memory preset. In CD mode, press this button to select the previous track. Press and hold the button to move quickly backward through the current track.
- N **Play/Pause:** Press to either play or pause a track when listening to a CD.
- O **VOL and Power:** Press this button to turn the system off and on. Turn it to adjust the volume.
- P **PHONE:** Press this button to access the phone features of the SYNC® system. See **SYNC™** (page 341).
- Q **MENU:** Press this button to access different audio system features. See **Menu Structure** later in this section.
- R **MEDIA:** Press this button to access your auxiliary input jack or switch between devices you plug into the input jack or USB port.
- S **Clock:** Press this button to access the clock setting. Use the center arrow controls to change the hours and minutes. You can also set the clock by pressing the **MENU** button and scrolling to Clock Settings.
- T **RADIO:** Press this button to listen to the radio or change radio frequencies bands. Press the function buttons below the radio screen to select different radio functions.
- U **SIRIUS** or **MUTE:** If your vehicle is equipped with Sirius satellite radio, press this button to listen to Sirius satellite radio. If your vehicle is not equipped with Sirius satellite radio, press the button to mute the playing media.

## AUDIOUNIT-VEHICLES WITH: SONY AM/FM/CD

**Note:** The MyFord Touch system controls most of the audio features. See **MyFord Touch™** (page 386).

#### WARNING

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



- A SOUND: Press this button to access settings for Treble, Midrange, Bass, Fade or Balance.
- B CD slot: Insert a CD.

- C **Eject:** Press this button to eject a CD.
- D **TUNE:** Press these buttons to search the frequency bands in individual increments.
- E **VOL:** Turn the control to adjust the volume. Press the button to switch the system on and off.
- F **SEEK:** In radio mode, select a frequency band and press one of these buttons. The system stops at the first station it finds in that direction. Press and hold one of these buttons to move quickly in that direction to the next strong radio station or memory preset. In CD mode, press one of these buttons to select the previous or next track. Press and hold one of these buttons to move quickly in that direction within the current track.

#### Menu Structure

**Note:** Depending on your system, some options may appear slightly different.

Press **MENU**.

Press the up and down arrow buttons to scroll through the options.

Press the right arrow to enter a menu. Press the left arrow to exit a menu.

Press **OK** to confirm a selection.

Radio	
Manual tune	Use the left and right arrows to go up or down the frequency band.
Scan	Select for a brief sampling of all available channels.
AST	Select to store the six strongest local stations on the AMAST and FM-AST frequency bands.
PTY/Set Category	Select to have the system search by certain music categories (such as Rock, Pop or Country).
RBDS/RDS	Select to view additional broadcast data, if available. This feature defaults to off. RBDS must be on for you to set a category.

SIRIUS	
Scan	Select for a brief sampling of all available channels.
Show ESN	Select to view your satellite radio electronic serial number (ESN). You will need this number when communicating with Sirius to activate, modify or track your account.
Channel Guide	Select to view available satellite radio channels. Press <b>OK</b> to open a list of the following options for this channel: Tune Channel, Skip Channel or Lock Channel. Once you skip or lock a channel, you can only access it by pressing Direct and entering the channel number. Locking or unlocking a channel requires your PIN.
Set Category	Select to view channel categories (such as Pop, Rock or News). If you select a category, seek and scan functions only stop on channels in that category.
Alerts	Select to turn off or turn on alerts for songs, artists or teams. The system alerts you when the selection is playing on another channel. Save up to 20 alerts.
Unlock All Stations	Use your PIN to unlock previously locked stations.
Skip No stations	Use to restore any channels you previously skipped.
Parental Lock (PIN)	Select to create a PIN, which allows you to lock or unlock channels. Your initial PIN is 1234.

Audio Settings	
Speed Compensated Volume	Automatically adjusts the volume to compensate for speed and wind noise. You can set the system between 0 and +7.
Sound	Select to adjust settings for Treble, Midrange, Bass, Fade or Balance.
Occupancy Mode	Select to optimize sound quality for the chosen seating position.
RBDS/RDS Text	Select to view additional broadcast data, if available. This feature defaults to off. RBDS must be on for you to set a category.
DSP	Choose between the stereo modes.

CD Settings	
Scan All	Select to scan all disc selections.
Scan Folder	Select to scan all music in the current MP3 folder.
CD Compression	Select to bring soft and loud passages together for a more consistent listening level.

Clock Settings	
Set Time	Select to set the time.
Set Date	Select to set the calendar date.
24h Mode	Select to view clock time in a 12-hour mode or 24-hour mode.

Display Settings	
Dimming	Select to change display brightness.
Language	Select to display the language in English, French or Spanish.
Temp. setting	Select to display the outside temperature in Fahrenheit or Celsius.

#### **DIGITAL RADIO**

**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 that 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.

When HD Radio is on and you tune to a station broadcasting HD Radio technology, you may notice the HD Radio logo on your screen. When this logo is available, you may also see Title and Artist fields on-screen.

The multicast indicator appears in FM mode (only) if the current station is broadcasting multiple digital broadcasts. The highlighted numbers 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. Other multicast stations (HD2 through HD7) are only available digitally.

When HD Radio broadcasts are active, you can access the following functions:

- Scan allows you to hear a brief sampling of all available stations. This feature still works when HD Radio reception is on, although it does not scan for HD2-HD7 channels. You may see the HD logo appear if the station has a digital broadcast.
- Memory presets allow you to save an active channel as a memory preset. Touch and hold a memory preset slot until the sound returns. There is a brief mute while the radio saves the station. Sound returns when finished. When switching to an HD2 or HD3 memory preset, the sound mutes before the digital audio plays, because the system has to reacquire the digital signal.

**Note:** 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**

Potential reception issues	
Reception area	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.
	If you are listening to HD1, the system switches back to the analog broadcast until the digital broadcast is available again. However, if you are listening to any of the possible HD2-HD7 multicast channels, the station mutes and stays muted unless it is able to connect to the digital signal again.
Station blending	When the system first receives a station (aside from HD2-HD7 multicast stations), it first plays the station in the analog version. Once the 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. Blending is the shift from analog to digital sound or digital back to analog sound.

In order to provide the best possible experience, use the contact form to report any station issues found while listening to a station broadcasting with HD Radio

technology. Independent entities own and operate each station. These stations are responsible for ensuring all audio streams and data fields are accurate.

Potential station issues		
Issues	Cause	Action
Echo, stutter, skip or repeat in audio. Increase or decrease in audio volume.	This is poor time alignment by the radio broadcaster.	No action required. This is a broadcast issue.
Sound fading or blending in and out.	The radio is shifting between analog and digital audio.	No action required. The reception issue may clear up as you continue to drive.
There is an audio mute delay when selecting HD2 or HD3, multicast preset or <b>Direct Tune</b> .	The digital multicast is not available until the HD Radio broadcast is decoded. Once decoded, the audio is available.	No action required. 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.	No action required. 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.*
There is 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-HD7 stations not found when <b>Scan</b> is pressed.	Pressing <b>Scan</b> disables HD2-HD7 channel search.	No action required. This is normal behavior.

<sup>\*</sup> http://www.ibiquity.com/automotive/report\_radio\_station\_experiences

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#### SATELLITE RADIO (If Equipped)

SIRIUS® broadcasts a variety of music, news, sports, weather, traffic and entertainment satellite radio channels. For more information and a complete list of SIRIUS satellite radio channels, visit www.siriusxm.com in the United States, www.sirius.ca in Canada, or call SIRIUS at 1-888-539-7474.

**Note:** This receiver includes the eCos real-time operating system. eCos is published under the eCos License.

### **Satellite Radio Reception Factors**

Potential satellite radio reception issues	
Antenna obstructions	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.
Terrain	Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.
Station overload	When you pass a ground-based broadcast-repeating tower, a stronger signal may overtake a weaker one and the audio system may mute.
Satellite radio signal interference	Your display may show ACQUIRING to indicate the interference and the audio system may mute.

#### SIRIUS® Satellite Radio Service

**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 your vehicle. See an 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 in the United States, 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. When in satellite radio mode, press **Options**.

#### **Troubleshooting**

Message	Condition	Action
Acquiring	Radio requires more than two seconds to produce audio for the selected channel.	No action required. This message should disappear shortly.
Satellite antenna fault SIRIUS system failure	There is an internal module or system failure present.	If this message does not clear shortly, or with an igni- tion key cycle, your receiver may have a fault. See an authorized dealer for service.
Invalid Channel	The channel is no longer available.	Tune to another channel or choose another preset.
Unsubscribed Channel	Your subscription does not include this channel.	Contact SIRIUS at 1-888- 539-7474 to subscribe to the channel, or tune to another channel.
No Signal	The signal is lost from the SIRIUS satellite or SIRIUS tower to your vehicle antenna.	The signal is blocked. When you move into an open area, the signal should return.
Updating	Update of channel programming in progress.	No action required. The process may take up to three minutes.

Message	Condition	Action
Questions? Call 1-888-539-7474	Your satellite service is no longer available.	Contact SIRIUS at 1-888- 539-7474 to resolve subscription issues.
None found Check Channel Guide	All the channels in the selected category are either skipped or locked.	Use the channel guide to turn off the Lock or Skip function on that station.
Subscription Updated	SIRIUS has updated the channels available for your vehicle.	No action required.

## USB PORT (If Equipped)



The USB port allows you to plug in media playing devices, memory sticks and charge devices (if supported). See **Using SYNC™ With Your Media Player** (page 367).

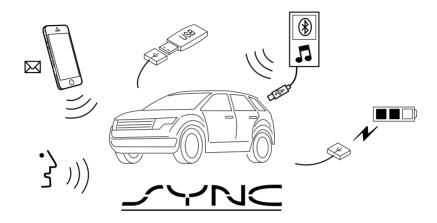


- A USB Port
- B SD card slot

## MEDIA HUB (If Equipped)

The media hub is located in the center console or in front of the gear shift.

#### **GENERAL INFORMATION**



E198355

SYNC is an in-vehicle communications system that works with your Bluetooth-enabled cellular phone and portable media player. This allows you to:

- Make and receive calls.
- Access and play music from your portable music player.
- Use 911 Assist, Vehicle Health Report and SYNC Services (Traffic, Directions & Information).\*
- Use applications, such as Pandora and Stitcher, via SYNC AppLink.\*\*
- Access phonebook contacts and music using voice commands.
- Stream music from your connected phone.
- Text message.

- Use the advanced voice recognition system.
- Charge your USB device (if your device supports this).

\*These features are not available in all markets and require activation.

\*\*Available AppLink enabled apps vary by market.

Make sure that you review your device's manual before using it with SYNC.

#### **Support**

The SYNC support team is available to help you with any questions you cannot answer on your own.

Monday-Saturday, 8:30am-9:00pm EST. Sunday, 10:30am-7:30pm EST.

In the United States, call 1-800-392-3673. In Canada, call 1-800-565-3673.

Times are subject to change due to holidavs.

#### SYNC Owner Account

Why do I need a SYNC owner account?

- Required to activate Vehicle Health Report and to view the reports online.
- Required to activate the subscription-based SYNC Services and to personalize your Saved Points and Favorites.
- Essential for keeping up with the latest software downloads available for SYNC.
- Access to customer support for any questions you may have.

## **Driving Restrictions**

For your safety, certain features are speed-dependent and restricted when your vehicle is traveling over 3 mph (5 km/h).

## **Safety Information**

#### WARNING



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

Driving while distracted can result in

#### When using SYNC:

- Do not operate playing devices if the power cords or cables are broken, split or damaged. Place cords and cables out of the way, so they do not interfere with the operation of pedals, seats, compartments or safe driving abilities.
- Do not leave playing devices in your vehicle during extreme conditions as it could cause them damage. See your device's manual for further information.
- Do not attempt to service or repair the system. See an authorized dealer.

#### **Privacy Information**

When a cellular phone is connected to SYNC, the system creates a profile within your vehicle that is linked to that cellular phone. This profile is created in order to offer you more cellular features and to operate more efficiently. Among other things, this profile may contain data about your cellular phone book, text messages (read and unread), and call history. including history of calls when your cellular phone was not connected to the system. In addition, if you connect a media device, the system creates and retains an index of supported media content. The system also records a short development log of approximately 10 minutes of all recent system activity. The log profile and other system data may be used to improve the system and help diagnose any problems that may occur.

The cellular profile, media device index, and development log will remain in the vehicle unless you delete them and are generally accessible only in the vehicle when 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.

electronic devices while driving.

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. Vehicle Health Report, and Traffic. Directions and Information.

#### **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.

#### Helpful Hints

- Make sure the interior of your vehicle is as quiet as possible. Wind noise from open windows and road vibrations may prevent the system from correctly recognizing spoken commands.
- After pressing the voice button, wait until after the tone sounds and Listening appears before saying a command. Any command spoken before 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 button.

#### **Initiating a Voice Session**



Initiate a voice session by pressing the voice button on the steering wheel controls. See

Voice Control (page 72).

#### When prompted you can say any of the following:

Voice command	If you want the system to carry out the following
Bluetooth Audio	Stream audio from your phone.
Cancel	Cancel the requested action.
Line In   Aux   Audio In	Access the device connected to the auxiliary input jack.
mobile (apps   applications)	Access mobile applications.
Phone	Make calls.
USB [1]	Access the device connected to your USB port.
Vehicle Health (Report)	Run a vehicle health report.

Voice command	If you want the system to carry out the following
Voice Settings   Voice Preferences	Adjust the level of voice interaction and feedback.
Help	Hear a list of voice commands available in the current mode.

You can say any of the voice commands that appear within open and close brackets that are separated by |. For example, where (cancel | stop | exit) appears you say; cancel or stop or exit.

You must say any of the voice commands that appear outside of open and close brackets. For example, where mobile (apps | applications) appears, you must say mobile followed by either apps or applications.

You do not need to say words that appear within square brackets. For example, for where (USB [stick] | iPOD | MP3 [player]) appears, you can say USB or USB stick.

**Note:** Mobile Applications, Services and Vehicle health report, is only available in the United States of America.

### **System Interaction and Feedback**

The system provides feedback through audible tones, prompts, questions and spoken confirmations depending on the situation and the chosen level of interaction (voice settings). You can customize the voice recognition system to provide more or less instruction and feedback.

The default setting is to a higher level of interaction in order to help you learn to use the system. You can change these settings at any time.

#### **Adjusting the Interaction Level**



Initiate a voice session by pressing the voice button on the steering wheel controls. See

**Voice Control** (page 72).

#### When prompted say the following:

Voice command	If you want the system to carry out the following
Voice Settings   Voice Preferences	
Followed by either of th	ne following:
Interaction Mode Standard	Provide more detailed interaction and guidance.
Interaction Mode Advanced	Provide less audible interaction and more tone prompts.

The system defaults to the standard interaction mode.

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. For example, the system may ask "Phone, is that

correct?". If turned off, the system simply makes a best guess as to what you requested and may ask you to confirm settings.

Voice command	If you want the system to carry out the following
Confirmation Prompts Off	Make a best guess from the command; you may still occasionally be asked to confirm settings.
Confirmation Prompts On	Clarify your voice command with a short question.

The system creates candidate lists when it has the same confidence level of several options based on your voice command. When turned on, it may prompt you with as many as four possibilities for clarification.

For example, say "Say 1 after the tone to call John Doe at home. Say 2 after the tone to call Johnny Doe on mobile. Say 3 after the tone to call Jane Doe at home." You could also say "Say 1 after the tone to play John Doe, Say 2 after the tone to play Johnny Doe."

Voice command	If you want the system to carry out the following
Media Candidate Lists Off	Make a best guess from the media candidate list. You may still occasionally be asked questions.
Media Candidate Lists On	Clarify your voice command for media candidates.
Phone Candidate Lists Off	Make a best guess from the phone candidate list. You may still occasionally be asked questions.
Phone Candidate Lists On	Clarify your voice command for phone candidates.

## USING SYNC™ WITH YOUR PHONE

Hands-free calling is one of the main features of SYNC. While the system supports a variety of features, many are dependent on your cell phone's functionality. At a minimum, most cell phones with Bluetooth wireless technology support the following functions:

- Answering an incoming call.
- Ending a call.
- Using privacy mode.
- Dialing a number.
- Redialing.
- · Call waiting notification.
- Caller ID.

Other features, such as text messaging using Bluetooth and automatic phonebook download, are cell phone-dependent features. To check your cell phone's compatibility, see your cell phone's manual and visit www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.ca.

## Pairing a Cell Phone for the First Time

**Note:** SYNC can support downloading up to approximately 1000 entries per Bluetooth-enabled cell phone.

**Note:** Make sure to switch on the ignition and the radio. Put the transmission in position park (**P**) (automatic transmission) or neutral with the parking brake applied (manual transmission).

**Note:** To scroll through the menus, press the up and down arrows on your audio system.

Wirelessly pairing your cell phone with SYNC allows you to make and receive hands-free calls.

## Press the phone button. When the display indicates there is no cell phone paired, do the following:

Message	Action and Description
No Phone Paired	Press the <b>OK</b> button.
Find SYNC	1. Press the <b>OK</b> button.
	Put your cell phone into Bluetooth discovery mode. See your device's manual if necessary.
	3. When prompted on your cell phone's display, enter the six-digit PIN provided by SYNC in the radio display. The display indicates when the pairing is successful.

Depending on your cell phone's capability and your market, the system may prompt you with questions, such as setting the current cell phone as the primary cell phone (the cell phone SYNC automatically tries to connect with first upon vehicle start-up) and downloading your phonebook.

#### **Pairing Subsequent Cell Phones**

**Note:** To scroll through the menus, press the up and down arrows on your audio system.

**Note:** Make sure to switch on the ignition and the radio. Put the transmission in position park (**P**) (automatic transmission) or neutral with the parking brake applied (manual transmission).

#### Press the phone button, then scroll to:

Message	Action
Phone settings	Press the <b>OK</b> button.
Bluetooth device	Press the <b>OK</b> button.
Add	Press the <b>OK</b> button. When the following message appears in the display.
Find SYNC	<ol> <li>Press the <b>OK</b> button.</li> <li>Put your cell phone into Bluetooth discovery mode. See your device's manual if necessary.</li> <li>When prompted on your cell phone's display, enter the six-digit PIN provided by SYNC in the radio display. The display indicates when the pairing is successful.</li> </ol>

The system then prompts with questions, such as if you would like to set the current cell phone as the primary cell phone (the cell phone SYNC automatically tries to connect with first upon vehicle start-up) or download your phonebook.

#### **Phone Voice Commands**

#### Press the voice icon and say:

Voice Commands
Phone
You can then say any of the following commands.
Call History Incoming
Call History Missed
Call History Outgoing

Voice Commands
Phonebook
Phonebook at Home
Phonebook at Work
Phonebook in Office
Phonebook on Cell

\_\_ is a dynamic listing that should be the name of a contact in your phonebook. For example you could say "Call Mom".

#### You can also say any of the following:

Voice Command
Call
Call at Home
Call at Work
Call in Office
Call on Mobile
Call on Other
Dial

None of these commands are available until your cell phone information is completely downloaded using Bluetooth.

\_\_ is a dynamic listing that should be the name of a contact in your phonebook. For example you could say "Call Mom".

## The following commands are only available during active calls:

Voice Commands
Go To Privacy
Hold
Join

#### **Phone Menu Commands**

# To access the phone menu with voice commands, press the voice button and when prompted say:

Voice Command
[Phone] Menu
You can then say any of the following:
[Phone] Connections   [Media] Connections   [Bluetooth] Connections

Voice Command	
---------------	--

[Phone] Settings [Message] Notification On

[Phone] Settings [Message] Notification Off

[Phone] Settings [Set] Phone Ringer

[Phone] Settings [Set] Ringer 1

[Phone] Settings [Set] Ringer 2

[Phone] Settings [Set] Ringer 3

[Phone] Settings [Set] Ringer Off

Battery

Phone Name

Signal

Text Message Inbox

Send [New] Text Message

You do not need to say word contained within brackets for the system to understand your command.

**Note:** To exit dial mode, press and hold the phone button or press MENU to go to the PHONE menu.

#### **Phonebook Commands**

When you ask SYNC to access content, for example the phonebook name or number, the requested information appears in the display to view.

#### **Making a Call**

#### Press the voice button and when prompted say:

Voice Command	Action and Description
Call	This command is not available until your cell phone information is completely downloaded using Bluetooth.
Dial	Use to enter a phone number digit by digit.
When the system confirms the number say one of the following commands:	
Dial	To confirm the number and initiate the call.
delete	To erase the last spoken digit. You can also press the left arrow button.
clear	To erase all spoken digits. You can also press and hold the left arrow button.

To end a call, press and hold the red phone button.

### **Receiving Calls**

When receiving a call, you can:

- Answer the call by pressing the phone button.
- Reject the call by pressing and holding the red phone button.
- Ignore the call by doing nothing.

## Phone Options during an Active Call

During an active call, you have more menu features that become available, for example putting a call on hold or joining calls. Use the arrow buttons to scroll through the menu options.

#### Press the MENU button during an active call, then scroll to:

Message	Action and Description
Active call	Press the <b>OK</b> button.
Select one of the following:	
Mute Call	Press the <b>OK</b> button to mute the call.
Privacy	Press the <b>OK</b> button to switch a call from an active hands-free environment to your cell phone for a more private conversation.
Hold	Press the <b>OK</b> button to put an active call on hold.
Join calls	Join two separate calls. SYNC supports a maximum of three callers on a multiparty call or conference call.

Message	Action and Desc	cription
	<ol> <li>Press the phone button.</li> <li>Access the desired contact through to place the second call. Once active MENU.</li> <li>Scroll to Join Calls, and press the OK message appears.</li> </ol>	vely in the second call, press
	Join calls	Press the <b>OK</b> button.
Enter Tones	Enter tones such as numbers for passwords. Scroll until the desired number appears in the display, then press OK; a tone sounds as confirmation. Repeat as necessary.	
Phonebook	<ol> <li>To access your phonebook contacts.</li> <li>Press the <b>OK</b> button to select, and phonebook contacts.</li> <li>Press the <b>OK</b> button again when the display.</li> <li>Press the phone button to call the or</li> </ol>	e desired selection appears in
Call History	<ol> <li>To access your call history log.</li> <li>Press the <b>OK</b> button to select, then options (incoming, outgoing or miss.</li> <li>Press the <b>OK</b> button when the desi display.</li> <li>Press the phone button to call the select the select of the select the select of the select the select of the select of</li></ol>	sed). red selection appears in the
Return	Exit the current menu.	

## Accessing Features Through the Phone Menu

The phone menu allows you to redial a number, access your call history and phonebook and sends text messages as well as access cell phone and system settings. You can also access advanced features, for example 911 Assist, Vehicle Health Report and SYNC Services.

## Press the phone button to enter the Phone Menu, then scroll to:

Message	Action and Description
Phone Redial	Press the <b>OK</b> button to redial the last number called. Press the <b>OK</b> button again to confirm.
Call History	Access any previously dialed, received or missed calls after you
	connect your Bluetooth-enabled cell phone to SYNC.
	Press the <b>OK</b> button then select one of the following and press the <b>OK</b> button again to confirm.
	Incoming calls
	Outgoing calls
	Missed calls
	The system attempts to automatically re-download your phonebook and call history each time your cell phone connects to SYNC (if the auto download feature is on and your Bluetoothenabled cell phone supports this feature).
Phonebook	Access and call any contacts in your previously downloaded phonebook. <sup>12</sup>
	If your phonebook has less than 255 entries, they appear alphabetically in flat file mode. If there are more than 255 entries, the system will organize them into alphabetical categories.
	1. Press the <b>OK</b> button.
	2. Scroll to the desired contact.
	3. Press <b>OK</b> or the phone button to call the contact.
Text messaging	Press the <b>OK</b> button to send, download, read and delete text messages. <sup>1</sup>
Phone settings	View your cell phone's status, set ring tones, select your message notification, change phonebook entries and automat-
	ically download your cell phone content among other features.
SYNC Services	Access the SYNC Services portal where you can request various
	types of information, for example traffic reports and directions. <sup>3</sup>
911 Assist	Auotmatically place an emergency call to a 911 operator following a crash.

Message	Action and Description
Vehicle Health	Create and receive a diagnostic report card on your vehicle. <sup>3</sup>
Mobile Apps	Interact with SYNC-capable mobile applications on your smartphone. <sup>3</sup>
Sys Settings	Access Bluetooth Devices menu listings and advanced menu listings.
Exit	Press the <b>OK</b> button to to exit the phone menu.

<sup>&</sup>lt;sup>1</sup> This is a cell phone-dependent feature.

### **Text Messaging**

**Note:** This is a cell phone-dependent feature.

SYNC allows you to receive, send, download and delete text messages. The system can also read incoming text messages to you so that you do not have to take your eves off the road.

**Note:** This is a cell phone-dependent feature.

**Receiving a Text Message** 

**Note:** This is a cell phone-dependent feature. Your cell phone must support downloading text messages using Bluetooth to receive incoming text messages.

**Note:** Forwarding a text message is a speed-dependent feature. It is only available when your vehicle is traveling at 3 mph (5 km/h) or less.

**Note:** Only one recipient is allowed per text message.

When a new text message arrives, an audible tone sounds and the information display indicates you have a new message.

## Following the notification you can do any of the following:

Do nothing to have the message go into your text message inbox.

## To have SYNC read you the message using voice commands, press the voice button and when prompted say:

Voice Command	Action and Description
Read Message   Read Text Message   Text Message	Press the <b>OK</b> button to have SYNC read the message to you.

<sup>&</sup>lt;sup>2</sup> This is a cell phone-dependent and speed-dependent feature.

<sup>&</sup>lt;sup>3</sup> This is an optional feature and available in the United States only.

<sup>&</sup>lt;sup>4</sup> This is an optional feature and available in the United States and Canada only.

To open the test message, press OK to receive and open the text message. Press OK again and SYNC reads your message aloud as you are not able to view the

message. You can then also choose whether you'd like to reply or forward the message.

#### Reply or forward the message, press OK and scroll to choose between:

Message	Action and Description
Reply to sender	Press the <b>OK</b> button to access and then scroll through the list of pre-defined messages to send.
Forward msg.	Press the <b>OK</b> button to forward the message to anyone in your Phonebook or Call History. You can also choose enter a number.

#### Sending, Downloading and Deleting Your Text Messages

Text messaging is a cell phone-dependent feature. If your cell phone is compatible, SYNC allows you to receive, send, download and delete text messages.

**Note:** Sending a text message is a speed-dependent feature. It is only available when your vehicle is traveling at 3 mph (5 km/h) or less.

**Note:** You can only have one recipient per text message.

#### Press the phone button, then scroll to:

Message	Action and Description		
Text messaging	Press the <b>OK</b> button.		
Select one of the following:			
Send Text Message?	Allows you to send a new text message based on a predefined set of 15 messages.		
	<ol> <li>Press the <b>OK</b> button.</li> <li>Scroll to your desired message.</li> <li>Press the <b>OK</b> button.</li> <li>Scroll through your phonebook, call history entries or enter a new number.</li> <li>Press the <b>OK</b> button to enter the desired contact.</li> <li>Press the <b>OK</b> button again when the system asks if you would like to send the message. The system sends each</li> </ol>		
	text message with the following signature: This message was sent from my Ford.		

Message	Action and Description
Download now	Allows you to download your unread messages to SYNC. To download the messages, press the <b>OK</b> button to select. The display indicates the system is downloading your messages. When downloading is complete, SYNC returns you to the inbox.
Delete All Messages?	Allows you to delete current text messages from SYNC. To delete the messages, press the <b>OK</b> button to select. The display indicates when it is finished deleting all your text messages. SYNC returns you to the text message menu.
Return	Press the <b>OK</b> button to exit the current menu.

## **Accessing Your Phone Settings**

These are cell phone-dependent features. Your cell phone settings allow you to access and adjust some features. For example ring tones, text message notification, modify your phonebook and set up automatic download.

#### Press the phone button, then scroll to:

Message	Action and Description		
Phone settings	Press the <b>OK</b> button.		
Select one of t	Select one of the following:		
Phone status	See the provider, name, signal power, battery power and roaming status of your connected cell phone.  Press <b>OK</b> to select and scroll to view the information. When done, press <b>OK</b> again to return to the phone status menu.		
Set ringtone	Select which ring tone sounds during an incoming call. You can choose one of the system ring tones or your cell phone ring tones. Press the <b>OK</b> button and scroll to hear the available options. You can also choose to use to use your phone's ring tone.		
	Press the <b>OK</b> button to select th desired ring tone. If your cell phone supports in-band ringing, your cell phone ring plays when you choose the phone ringer option.		
Text msg notify	You have the option of hearing an audible tone to notify you when a text message arrives.		

Message	Action and Description		
	Press the <b>OK</b> button then select one of the following and press <b>OK</b> button again to confirm.		
	Message Notification On		
	Message Notifica	ation Off	
Modify Phone- book		nts of your phone book (such as add, delete, downoselect and scroll between:	
	Add contacts	Press the <b>OK</b> button to add more contacts from your phonebook. Push the desired contact(s) on your cell phone. See your cell phone's manual on how to push contacts.	
	Delete Phone- book	Press <b>OK</b> to delete the current phone book and call history. When Delete Phonebook appears, press OK to confirm. SYNC takes you back to the Phone Settings menu.	
	Download Phonebook	Press <b>OK</b> to select and press OK again when Confirm Download? appears.	
Auto-download	Automatically download your phone book each time your phone connects to SYNC. Press OK to select.		
	Auto On?	When this message appears, press <b>OK</b> to have your phonebook automatically downloaded each time. Select Off to NOT download your phonebook every time your phone connects to SYNC. Your phonebook, call history and text messages can only be accessed when your specific phone is connected to SYNC. *	
Return	Exit the current menu.		

<sup>\*</sup> Downloading times are cell phone-dependent and quantity-dependent. When Auto Download is on, it automatically deletes any changes, additions or deletions saved since your last download.

## **System Settings**

This menu provides access to your Bluetooth Devices and Advanced menu features. Use the arrow buttons to scroll through the menu options.

#### **Bluetooth Devices**

The Bluetooth Devices menu allows you to add, connect and delete devices, set a cell phone as primary as well as turn your Bluetooth feature on and off.

#### Press the Phone button to enter the Phone Menu. then scroll to:

Message	Action and Description
Sys Settings	Press the <b>OK</b> button.
Bluetooth device	Press the <b>OK</b> button.
Select one of the follo	wing:
Add	See <b>Using SYNC™ With Your Phone</b> (page 346). ¹
Connect BT	Connect a previously paired Bluetooth-enabled phone. <sup>2</sup> Press <b>OK</b> to select and view a list of previously paired phones. Scroll until the desired device is chosen, then press OK to connect the phone.
Set Primary?	Set a previously paired phone as your primary phone. <sup>3</sup> Press <b>OK</b> to select and scroll to select the desired phone. Press OK to confirm.
Bluetooth On and Off	Turn the Bluetooth feature on and off. <sup>4</sup> Press <b>OK</b> and scroll to toggle between On and Off. When the desired selection is chosen, press <b>OK</b> . Setting Bluetooth to off disconnects all Bluetooth devices and turns off all Bluetooth features.
Del Device	Delete a paired cell phone. Press the <b>OK</b> button and scroll to select the device. Press <b>OK</b> to confirm.
Delete all	Delete all previously paired phones (and all information originally saved with those phones).  Press <b>OK</b> to select.
Return	Exit the current menu.

<sup>&</sup>lt;sup>1</sup> This is a speed-dependent feature. It is only available when your vehicle is traveling at 3 mph (5 km/h) or less.

<sup>&</sup>lt;sup>2</sup> You can only connect one device at a time. When another cell phone is connected, the previous one is disconnected.

<sup>&</sup>lt;sup>3</sup> SYNC attempts to connect with the primary phone at every ignition cycle. When a phone is selected as primary, it appears first in the list and is marked with an asterisk (\*).

<sup>&</sup>lt;sup>4</sup>Turning Bluetooth off disconnects all Bluetooth devices and deactivates all Bluetooth features.

#### **Advanced**

The Advanced menu allows you to access

and set prompts, languages, defaults, perform a master reset, install an application and view system information.

## To access the advanced menu, press the phone button to enter the Phone Menu, the scroll to:

Message	Action and Description	
Sys Settings	Press <b>OK</b> .	
Advanced	Press <b>OK</b> .	
Select one of the follo	wing:	
Confirmation Prompts	Get help from SYNC by using questions, helpful hints or asking you for a specific action. To turn these prompts on or off:	
	1. Press the <b>OK</b> button to select and scroll to select between On and Off.	
	2. Press the <b>OK</b> button when the desired selection appears in the display. SYNC returns you to the Advanced menu.	
Language	1. Press <b>OK</b> to select and then scroll through the languages. Choose between English, Français and Español. Once selected, all of the radio displays and prompts are in the selected language.	
	2. Press <b>OK</b> when the desired selection appears in the display. If you change the language setting, the display indicates that the system is updating. When complete, SYNC returns you to the Advanced menu.	
Factory Defaults	Return to the factory default settings. This selection does not erase your indexed information, for example phonebook, call history, text messages or paired devices.  Press the <b>OK</b> button to select and then press <b>OK</b> again when the following message appears in the display.	
	Confirm Restore	
Master reset	Completely erase all information stored on SYNC, for example phonebook, call history, text messages and paired devices, and return the system to the factory default settings. Press <b>OK</b> to select. The display indicates when complete. SYNC returns you to the Advanced menu.	
Install Applications	Install applications you have downloaded.	

Message	Action and Description
	Press the <b>OK</b> button and scroll to select. Press the <b>OK</b> button to confirm.
System info	Access the Auto Version number as well as the FDN number. Press the <b>OK</b> button to select.
Return	Exit the current menu.

## SYNC™ APPLICATIONS AND SERVICES (If Equipped)

In order for the following features to work. vour cell phone must be compatible with SYNC. To check your phone's compatibility, visit www.SYNCMyRide.com, www.SYNCMvRide.ca or www.svncmaroute.ca.

- SYNC Services\*: Provides access to traffic, directions and information such as travel, horoscopes, stock prices and more.
- 911 Assist: Can alert 911 in the event of an emergency.
- Vehicle Health Report\*: Provides a diagnostic and maintenance report card of your vehicle.

\*This is an optional feature and available in the United States only.

#### 911 Assist (If Equipped)

#### **WARNINGS**

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

#### WARNINGS

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.



Always place your phone in a secure location in your vehicle so it does not become a projectile or get damaged

in a crash. Failure to do so may cause serious injury to someone or damage the phone which could prevent 911 Assist from working properly.

**Note:** The SYNC 911 Assist feature must be set on before the incident.

**Note:** Before setting this feature on, make sure that you read the 911 Assist Privacy Notice later in this section for important information.

**Note:** If any user turns 911 Assist on or off, that setting applies for all paired phones. If 911 Assist is turned off, either a voice message plays or a display message (or icon) comes on (or both) when your 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 (excluding knee airbags and rear inflatable safety belts [if equipped]) 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. You can learn more about the 911 Assist feature, visit www.SYNCMyRide.com,

www.SYNCMyRide.ca or www.svncmaroute.ca.

See **Supplementary Restraints System** (page 38). Important information about airbag deployment is in this chapter.

See **Roadside Emergencies** (page 226). Important information about the fuel pump shut-off is in this chapter.

#### Switching 911 Assist On or Off

#### Press the phone button to enter the phone menu and scroll to:

Message	Action and Description
911 Assist	Press the <b>OK</b> button to confirm and enter the 911 Assist menu.
On	Press the <b>OK</b> button when the desired option appears in the
Off	radio display.

#### Off selections include:

Message	Action and Description
Off with reminder:	Provides a display and voice reminder at phone connection at vehicle start.
Off without reminder:	Provides a display reminder only without a voice reminder at phone connection.

To make sure that 911 Assist works correctly:

- SYNC must be powered and working properly at the time of the incident and throughout feature activation and use.
- The 911 Assist feature must be set on before the incident.
- You must pair and connect a Bluetooth-enabled and compatible cell phone to SYNC.
- A connected Bluetooth-enabled phone must have the ability to make and maintain an outgoing call at the time of the incident.

- A connected Bluetooth-enabled phone must have adequate network coverage, battery power and signal strength.
- The vehicle must have battery power and be located in the U.S., Canada or in a territory in which 911 is the emergency number.

#### In the Event of a Crash

Not all crashes will deploy an airbag or activate the fuel pump shut-off (the triggers for 911 Assist). If a connected cell phone sustains damage or loses its connection to SYNC during a crash, SYNC will search for and try to connect to a previously paired cell phone: SYNC will then attempt to call the emergency services.

#### Before making the call:

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

If you do not cancel the call, and SYNC makes a successful call, a pre-recorded message plays for the 911 operator, and then the occupant(s) in your vehicle 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 sustains damage in a crash.
- The vehicle's battery or the SYNC system has no power.
- The phone(s) thrown from your vehicle are the ones paired and connected to the system.

#### 911 Assist Privacy Notice

When you turn on 911 Assist, it may disclose to emergency services that your vehicle has been in a crash involving the deployment of an airbag or activation of the fuel pump shut-off. Certain versions or updates to 911 Assist may also be capable of electronically or verbally disclosing to 911 operators your vehicle location or other details about your vehicle or crash to assist 911 operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not turn the feature on.

### Vehicle Health Report (If Equipped, United States 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. electronically monitored by your vehicle and will not monitor or report the status of any other system, (such as brake lining wear). Failure to perform scheduled maintenance and regularly inspect your vehicle may result in vehicle damage and serious injury.

**Note:** This feature is only available in the United States

**Note:** Your Vehicle Health Report feature requires activation before use. Visit 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 cellular phone. Before running a report, review the 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. After registering, you can request a Vehicle Health Report (inside your vehicle). Return to your account at www.SYNCMyRide.com to view your report. You can also choose for SYNC to remind you automatically to run reports at specific mileage intervals.

The system allows you to check your vehicle's overall health in the form of a diagnostic report card. The Vehicle Health Report contains valuable information, for example:

- Vehicle diagnostic information
- Scheduled maintenance
- · Open recalls and Field Service Actions
- Items noted during vehicle inspections by an authorized dealer that still need servicing.

You can run a vehicle health report after your vehicle has been running a minimum of 60 seconds. Choose one of the following options.

#### To use voice commands, press the voice button and when prompted say:

Voice command	Action and Description
Vehicle Health (Report)	The system will run a vehicle health report of your vehicle's diagnostic systems and send the results to Ford where it combines with scheduled maintenance information, open recalls, other field service actions and vehicle inspection items that still need servicing by an authorized dealer.

#### To use the screen, press the phone button, then scroll to:

Message	Action and Description
Vehicle Health	Press the <b>OK</b> button.
Select one of the following:	
Auto On?	Press the <b>OK</b> button and select on or off. Select On to have SYNC automatically prompt you to run a health report at certain mileage intervals.*
Report Interval	Scroll to select between 5000, 7500 or 10000-mile intervals. Select your desired option and press the <b>OK</b> button.

Message	Action and Description
Run Report	Press the <b>OK</b> button for SYNC to run a health report of your vehicle's diagnostic systems and send the results to Ford where it combines with scheduled maintenance information, open recalls, other field service actions and vehicle inspection items that still need servicing by an authorized dealer.
Return	Exit the current menu.

<sup>\*</sup>You must first turn this feature on before you can select the desired mileage interval.

#### **Vehicle Health Report Privacy Notice**

When you create 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 more vehicle information. Ford may use your 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 vour Vehicle Health Report profile at www.SYNCMyRide.com. See www.SYNCMvRide.com (Vehicle Health Report Terms and Conditions, and Privacy Statement) for more information.

# SYNC Services: Traffic, Directions & Information (TDI) (If Equipped, United States Only)

**Note:** SYNC Services varies by trim level and model year and may require a subscription. Traffic alerts and turn-by-turn directions available in select markets. Message and data rates may apply. Ford Motor Company reserves the right to change or discontinue this product service at any time without prior notification or incurring any future obligation.

Note: SYNC Services requires activation before use. Visit 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. See Using SYNC™ With Your Phone (page 346).

**Note:** This feature does not function properly if you have enabled caller ID blocking on your cellular phone. Make sure your cellular 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 provided are only 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, place you 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 your 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. 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. If you do not want Ford or its service providers to collect your vehicle travel information or other information identified in the Terms and Conditions, do not subscribe 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.

#### **Connecting to SYNC Services Using Voice Commands**

#### Press the voice button and when prompted say:

Voice command	Action and Description	
Services	This initiates an outgoing call to SYNC Services using your paired and connected Bluetooth-enabled cellular phone. Once you connect to the service, follow the voice prompts to request the desired service, for example traffic or directions.	
Once you are connected	Once you are connected to SYNC Services, you can also say the following:	
(what are my (options   choices)   what can I say   [available] commands)	Receive a list of available services from which to choose.	
Services	To return to the Services main menu.	
Help	Receive system help.	

You can say any of the voice commands that appear within open and close brackets that are separated by |. For example, where (options | choices) appears you say either; options or choices.

You must say any of the voice commands that appear outside of open and close brackets. For example, where; what are my (options | choices) appears, you must say; what are my, followed by either, options or choices.

You do not need to say words that appear within square brackets. For example, for where (what can I say [available] commands) appears, you can say, what can I say commands.

## Connecting to SYNC Services Using the Phone Menu

## Press the phone button, then scroll to:

Message	Action and Description
SYNC Apps	Press the <b>OK</b> button.
Services	1. Press the <b>OK</b> button. The display indicates the system is connecting.
	2. Press the <b>OK</b> button again. SYNC initiates the call to the Services portal.
	<ol> <li>Once you connect to the service, follow the prompts to request the desired service, for example traffic or direc- tions.</li> </ol>

### **Receiving Turn-by-Turn Directions**

## 

Voice command	Action and Description
Directions	To receive directions to a location. Once you select your destination, the system uploads your current vehicle location, calculates a route based on current traffic conditions and sends it back to your vehicle. After the route download is complete, the phone call automatically ends. You then receive audible and visual driving instructions as you travel toward your destination.
Business search	To find a business or type of business. Select your destination, the system uploads your current vehicle location, calculates a route based on current traffic conditions and sends it back to your vehicle. After the route download is complete, the phone call automatically ends. You then receive audible and visual driving instructions as you travel toward your destination.
You can also say the fol	llowing:
Search near me	To find the closest business or type of business to your location, within business search.
Operator	If you need further assistance in finding a location at any time within a Directions or Business search and need to speak with a live operator.

Voice command	Action and Description
	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. The system may prompt you to speak with an operator when it has difficulty matching your voice request. Operator Assist is a feature of your SYNC Services subscription. For more information on Operator Assist, visit www.SYNCMyRide.com/support.
Yes *	If you miss a turn, SYNC automatically asks if you want the route updated. Say yes when prompted and the system sends a new route to your vehicle.

<sup>\*</sup> During an active route.

## **Disconnecting from SYNC Services**

## To disconnect from SYNC services, say:

Voice command	Action and Description
Goodbye	From the SYNC Services main menu, or press and hold the phone button on the steering wheel.

## **SYNC Services quick tips**

	SYNC Services quick tips	
Personalizing	You can personalize your Services feature to provide quicker access to your most used or favorite information. You can save address points, for example work or home. You can also save favorite information like sports teams or a news category. You can learn more about personalization by logging onto www.SYNCMyRide.com.	
Push to interrupt	Press the voice button at any time while connected to SYNC Services to interrupt a voice prompt or an audio clip and say your voice command.	
Portable	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 SYNC Services and continue enjoying your personalized services.	

SYNC Services quick tips	
	You can even access your account outside your vehicle. Just use the number on your phone's call history. Traffic and Directions features do not function properly but information services and the 411 connect and text message features are available.

#### SYNCTM APPLINKTM

#### **SYNC Mobile Apps**

**Note:** You must pair and connect your smartphone to SYNC to access AppLink.

**Note:** iPhone users need to connect the phone to the USB port in order to start the application.

**Note:** The AppLink feature is not available if your vehicle is equipped with the MyFord Touch system.

**Note:** Depending on your display type, you can access AppLink from the media menu, the phone menu, or by using voice commands. Once an app is running through AppLink, you can control main features of the app through voice commands and steering wheel controls.

## To Access Using the Phone Menu

# Press the phone button to access the SYNC phone menu on-screen. You can then scroll to:

	Menu item
Mobile Apps	Press <b>OK</b> to access a list of available applications.

#### Menu item

Scroll through the list of available applications and press OK to select a particular app. Once an app is running through SYNC, you can access an app's menu by pressing the **MENU** button to first access the SYNC menu.

Scroll until the app name followed by "Menu", is displayed (such as, Pandora Menu), then press **OK**. From here, you can access an application's features, such as Thumbs up and Thumbs down.

## For more information, please visit:

# **Website**www.SYNCMyRide.com

#### To Access Using the Media Menu

Press the **AUX** button on the center console.

#### Press the Menu button to the SYNC menu and scroll to:

Menu item	Action and description
SYNC-Media	Press the <b>OK</b> button.
Mobile Apps	Press the <b>OK</b> button and scroll through the list of available applications and select your desired app.

Scroll until the app name followed by "Menu", is displayed (such as, Pandora Menu), then press **OK**. From here, you can access an application's features, such as Thumbs up and Thumbs down.

#### For more information, please visit:

<u> </u>
Website
www.SYNCMyRide.com

#### **To Access Using Voice Commands**

#### Press the voice button and when prompted say:

Voice command	Action and description
Mobile Apps	Say the name of the application after the tone. The app should start. While an app is running through SYNC, you can press the voice button and speak commands specific to the app, for example, "Playlist Road Trip".
You can also say the following:	
Help	To discover the available voice commands.

## USING SYNC™ WITH YOUR MEDIA PLAYER

You can access and play music from your digital music player over your vehicle's speaker system using the system's media menu or voice commands. You can also sort and play your music by specific categories, for example artist and album.

**Note:** The system is capable of indexing up to 6,000 songs.

SYNC is capable of hosting nearly any digital media player including: iPod®, Zune™, plays from device players, and most USB drives. SYNC also supports the following audio formats MP3, WMA, WAV and ACC.

## Connecting Your Digital Media Player to the USB Port

**Note:** If your digital media player has a power switch, make sure you switch it on before plugging it in.

#### **To Connect Using Voice Commands**

Plug the device into the USB port. See **USB Port** (page 340).



## Press the voice button and when prompted say:

Voice command	Action and Description
USB [1]	You can now play music by saying any of the appropriate voice commands. See Media voice commands.

You do not need to say words that appear within square brackets. For example, for where USB[1]appears, you can say USB or USB one.

#### To Connect Using the System Menu

Press the **AUX** button, then the **Menu** button to enter the Media Menu.

Plug the device into the USB port. See **USB Port** (page 340).

#### You can then scroll to:

Message	Action and Description
Select Src	Press the <b>OK</b> button.
USB	Press the <b>OK</b> button. Depending on how many digital media files are on your connected device, the following message may appear in the radio display.
	Indexing
When indexing is comp select one of the follow	lete, the screen returns to the Play menu. You can then ring:
Play all	
Artists	
Albums	
Genres	
Playlists	
Songs	
Browse USB	
Similar music	
Return	Exit the current menu.

### What's Playing?

When a track is playing, you can ask the system to tell you what is currently playing.

#### Press the voice button and when prompted say:

Voice command	Action and Description
Whats This?   Whats Playing?	The system reads the metadata tags of the playing track, and if the metadata tags are populated, the system will tell you what track is playing.

You can say any of the voice commands that appear within open and close brackets that are separated by |. For example, where; (what's | what is) appears you say; what's or what is.

You must say any of the voice commands that appear outside of open and close brackets. For example, where; who plays this (what's | what is) playing, you must say; who plays this (what's or what is) playing.

#### **Media Voice Commands**

## Press the voice button and when prompted say any of the following:

Voice command	
USB [1]	
You can then say any of the following	
[Phone] Connections   [Media] Connections   [Bluetooth] Connections	
Pause	
Play	
Play All	
Play Artist	1,2
Play Album	1,2
Play Genre	1,2
[Play] Next Folder	
[Play] Next Track   [Play] Next Song	
Play Playlist	1,2

	Voice command	
[Play] Prev	vious Folder	3
[Play] Prev Song	vious Track   [Play] Previous	
[Play] Nex	t Track   [Play] Next Song	1,2
Repeat [O	n]	
Repeat Of	f	
Shuffle [O	n]	
Shuffle Of	f	
Search Alb	oum	1,2
Search Art	ist	1,2
Search Genre	The system searches all the data from your indexed music and, if available, begins to play the chosen type of music. You can only play genres of music which are present in the GENRE metadata tags that you have on your digital media player.	1,2

Voice command		
Search Track   Search Song	The system searches for a specific artist/track/album from the music indexed through the USB port.	1,2
Refine album	This allows you to make your previous command more specific. By using this command you can filter though a previous selection, such as an artist to play only specific album.	1,2
Similar Music	The system compiles a playlist and then plays similar music to what is currently playing from the USB port using indexed metadata information.	
Autoplay (	Off	
Autoplay [on]	Turn autoplay on to listen to music processed during indexing. Turn autoplay off to allow the indexing process to finish before the system plays any of your music.	

<sup>1</sup>\_\_\_ is a dynamic listing, meaning that it could be the name of anything, such as a group, artist or song. For example you could say "Play artist The Beatles".

# Bluetooth Audio Command Guide Press the voice button and say:

<del>-</del>
Voice command
Bluetooth Audio
You can then say any of the following:
[Phone] Connections   [Media] Connections   [Bluetooth] Connections
Pause
Play
[Play] Next Track   [Play] Next Song
[Play] Previous Track   [Play] Previous Song

#### **Media Menu Features**

The media menu allows you to select your media source, how to play your music, for example by artist, genre, shuffle or repeat, and to add, connect or delete devices.

Press the **AUX** button, then the **Menu** button to enter the Media Menu.

<sup>&</sup>lt;sup>2</sup> This voice command is not available until indexing is complete.

<sup>&</sup>lt;sup>3</sup> This voice command is only available in folder mode.

## You can then scroll to:

Messag	ge .	Action and Description
Play Menu		Play your music by artist, album, genre, playlists, tracks, similar music or to simply, play all. You can also choose to Explore USB to view the supported digital music files on your playing device.  See Play Menu later in this section for more information.
Select one of the follo	wing:	
Select Src	USB	Press the <b>OK</b> button to access music plugged into your USB port. You can also plug in devices to charge them (if supported by your device). Once connected, the system indexes any readable media files. <sup>1</sup>
	Bluetooth Audio	Press the <b>OK</b> button. This is a phone-dependent feature that allows you to stream music playing on your Bluetoothenabled phone. If supported by your device, you can press seek to play the previous or next track.
	Line in	Press the <b>OK</b> button to select and play music from your portable music player over your vehicle's speakers. <sup>2</sup>
Media Player Settings	Choose to shuffle or repeat your music and select your Autoplay settings. Once you turn these selections on, they remain on until you turn them off. Press <b>SEEK</b> to play the previous or next track. <sup>3</sup>	
	Shuffle	Press the <b>OK</b> button to shuffle available media files in the current playlist. To shuffle all media tracks, you must select Play All in the play menu and then select Shuffle.
	Repeat	Press the <b>OK</b> button to repeat any song.
	Autoplay	Press the <b>OK</b> button to turn autoplay on to listen to music processed during indexing. Turn autoplay off to allow the indexing process to finish before the system plays any of your music. <sup>4</sup>

Message		Action and Description
Mobile Apps	Interact with SYNC-capable mobile applications on your smartphone.	
Sys Settings	Access available Bluetooth Device menu listings as well as Advanced menu listings.	
Exit	Press <b>OK</b> to exit the media menu.	

The time required to complete this depends on the size of the media the system needs to index. If autoplay is on, you can listen to media processed during indexing. If autoplay is off, you cannot listen to music until the system finishes indexing media. SYNC is capable of indexing thousands of average size media and notifies you if it reaches the maximum indexing file size.

<sup>2</sup>If you have already connected a device to the USB port, you cannot access the line in feature. Some digital media players require both USB and line in ports to stream data and music separately.

<sup>3</sup>Some digital media players require both USB and line in ports to stream data and music separately.

<sup>4</sup>Indexing times can vary from device to device and with regard to the number of songs the system needs to process.

## **Accessing Your Play Menu**

This menu allows you to select and play your media by artist, album, genre, playlist, track, similar music or even to explore what is on your USB device.

Make sure that your device is plugged into the USB port and is turned on.

Press the **AUX** button, then the **Menu** button to enter the Media Menu.

#### You can then scroll to select:

Message	Action and Description	
Play Menu	Press the <b>OK</b> button.	
If there are no media files media files, you have the	files to access, the display indicates there is no media. If there are the following options:	
Play all	Press the <b>OK</b> button. The first track title appears in the display. Play all indexed media (tracks) from your playing device in flat file mode, one at a time in numerical order.	

Message	Action and Description		
Artists	Sort all indexed media by artist. Once selected, the system lists and then plays all artists and tracks alphabetically. If there are fewer than 255 indexed artists, the system lists them alphabetically in flat file mode. If there are more than 255, the system categorizes them alphabetically.		
	Press the <b>OK</b> button. You can select to play all artists or any indexed artist.		
	2. Scroll to choose the desired artist. Press the <b>OK</b> button.		
Albums	Sort all indexed media by albums. If there are fewer than 255 indexed albums, the system lists them alphabetically in flat file mode. If there are more than 255, the system categorizes them alphabetically.		
	1. Press the <b>OK</b> button. You can enter the album menu and select from playing all albums or from any individual indexed album.		
	2. Scroll to choose the desired album. Press the <b>OK</b> button.		
Genres	Sort indexed music by genre (category) type. SYNC lists the genres alphabetically in flat file mode. If there are more than 255, the system categorizes them alphabetically.		
	1. Press the <b>OK</b> button.		
	2. Scroll to select the desired genre. Press the <b>OK</b> button.		
Playlists	Access your playlists from formats ASX, M3U, WPL or MTP. The system lists your playlists alphabetically in flat file mode. If there are more than 255, the system categorizes them alphabetically.		
	1. Press the <b>OK</b> button.		
	2. Scroll to select the desired playlist. Press the <b>OK</b> button.		
Songs	Search for and play a specific indexed track. SYNC lists your tracks alphabetically in flat file mode. If there are more than 255, the system categorizes them alphabetically.		
	1. Press the <b>OK</b> button.		
	2. Scroll to select the desired track. Press the <b>OK</b> button.		

Message	Action and Description	
Browse USB	Explore all supported digital media on your media device connected to the USB port. You can only view media content which is compatible with SYNC; other files saved are not visible.	
	1. Press the <b>OK</b> button.	
	2. Scroll to explore indexed media on your flash drive.	
Similar music	Play music similar to what is currently playing from the USB port. The system uses the metadata information of each song to compile a playlist for you.*	
	<ol> <li>Press the <b>OK</b> button.</li> <li>The system creates a new list of similar songs and begins playing. This feature does not include tracks with incomplete metadata information. Press the <b>OK</b> button.</li> </ol>	
Return	Exit the current menu.	

\*With certain playing devices, if your metadata tags are not populated, the tracks are not available in voice recognition, play menu or similar music. However, if you place these tracks onto your playing device in "Mass Storage Device Mode", they are available in voice recognition, play menu browsing and similar music. The system places Unknown items into any unpopulated metadata tag.

## **System Settings**

System settings provide access to your Bluetooth Devices and Advanced menu features.

#### **Bluetooth Devices**

The Bluetooth Devices menu allows you to enable, disable, add, connect and delete a Bluetooth device.

Press the **AUX** button, then the **Menu** button to enter the Media Menu.

#### You can then scroll to:

Message	Action and Description	
Sys Settings	Press the <b>OK</b> button.	
Bluetooth device	Press the <b>OK</b> button.	
You can then select one of the following:		
Add Device	Pair more devices to the system.*	

Message	Action and Description		
	<ol> <li>Press the <b>OK</b> button. When find SYNC appears in the display, press the <b>OK</b> button again.</li> <li>Follow the directions in your phone's manual to put your phone into discovery mode. A six-digit PIN appears in the display.</li> <li>When prompted on your phone's six-digit display, enter the PIN.</li> </ol>		
Connect BT	Connect a previously paired Bluetooth-enabled phone.  1. Press <b>OK</b> to select and view a list of devices.  2. Scroll until the desired device is chosen and press <b>OK</b> to connect the device.		
Bluetooth On and Off	<ol> <li>Turn the Bluetooth feature on and off.**</li> <li>Press the <b>OK</b> button and scroll to toggle between on and off.</li> <li>Make a selection and press the <b>OK</b> button.</li> </ol>		
Delete	Delete a paired media device.  1. Press the <b>OK</b> button and scroll to select the device.  2. Press the <b>OK</b> button to confirm.		
Delete all	Delete all previously paired devices.  1. Press the <b>OK</b> button.  2. Press the <b>OK</b> button to confirm.		
Return	Exit the current menu.		

<sup>\*</sup>This is a speed-dependent feature. It is only available when your vehicle is traveling at 3 mph (5 km/h) or less.

#### **Advanced**

The Advanced menu allows you to access and set prompts, languages, defaults and perform a master reset.

Press the **AUX** button, then the **Menu** button to enter the Media Menu.

<sup>\*\*</sup>Setting Bluetooth to off disconnects all Bluetooth devices and turns off all Bluetooth features.

## **SYNC<sup>TM</sup>**

## You can then scroll to:

Message	Action and Description	
Sys Settings	Press the <b>OK</b> button.	
Bluetooth device	Press the <b>OK</b> button.	
You can then select on	e of the following:	
Confirmation Prompts	Have SYNC guide you by asking questions, helpful hints or ask you for a specific action.	
	1. Press the <b>OK</b> button and scroll to toggle between on and off.	
	2. Make a selection and press the <b>OK</b> button. SYNC takes you back to the Advanced menu.	
Language	Choose from the available languages. The displays and prompts are in the selected language.	
	Press the <b>OK</b> button and scroll through the available languages.	
	2. Press the <b>OK</b> button when the desired language appears in the display.	
	3. If you change the language setting, the display indicates that the system is updating. When complete, SYNC takes you back to the Advanced menu.	
Factory Defaults	Return to the factory default settings. This selection does not erase your indexed information, for example phonebook, call history, text messages and paired devices.	
	1. Press the <b>OK</b> button.	
	2. Press the <b>OK</b> button. When restore defaults appears in the display, press the <b>OK</b> button again to confirm.	
Master reset	Completely erase all information stored on SYNC. All phonebook, call history, text messages and all paired devices will be deleted and the system will return to the factory default settings.	
Install Applications	Download available software applications through the USB port.	
Return	Exit the current menu.	

#### SYNC™ TROUBLESHOOTING

Your SYNC system is easy to use. However, should questions arise, see the tables below.

Use the website at any time to check your phone's compatibility, register your account and set preferences as well as access a customer representative via an online chat (during certain hours). Visit www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.ca for more information.

Phone issues		
Issue	Possible cause(s)	Possible solution(s)
There is excessive back- ground noise during a phone call.	The audio control settings on your phone may be affecting SYNC performance.	Review your phone's manual about audio adjustments.
During a call, I can hear the other person but they cannot hear me.	This may be a possible phone malfunction.	Try turning off the device, resetting the device, removing the device's battery, then trying again.
SYNC is not able to download my phonebook.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again. Try pushing your phonebook contacts to SYNC by using the Add Contacts feature. Use the SYNCmyphone feature available on the website.
The system says Phonebook Downloaded but the phonebook in SYNC is empty or missing contacts.	This may be a limitation on your phone's capability.	Try pushing your phonebook contacts to SYNC by using the Add Contacts feature. If the missing contacts are stored on your SIM card, try moving them to the device memory. Remove any pictures or special ring tones associated with the missing contact.

Phone issues			
Issue	Possible cause(s)	Possible solution(s)	
		Depending upon your phone, you may have to grant SYNC permission to access your phonebook contacts. Make sure to confirm when prompted by your phone during the phonebook download.	
I am having trouble connecting my phone to SYNC.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device or removing the device's battery, then trying again. Try deleting your device from SYNC, deleting SYNC from your device and trying again. Check the security and auto accept and prompt always settings relative to the SYNC Bluetooth connection on your phone. Update your device's firmware. Turn off the Auto phonebook download setting.	
Text messaging is not working on SYNC.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again.	

USB and media issues		
Issue	Possible cause(s)	Possible solution(s)
I am having trouble connecting my device.	This may be a possible device malfunction.	Try turning off the device, resetting the device, removing the device's battery, then trying again. Make sure you are using the manufacturer's cable. Make sure you insert the USB cable correctly into the device and the USB port. Make sure that the device does not have an autoinstall program or active security settings.
SYNC does not recognize my device when I turn on the car.	This is a device limitation.	Make sure you are not leaving the device in your vehicle during very hot or cold temperatures.
Bluetooth audio does not stream.	This is a phone-dependent feature. The device is not connected.	Review the device compatibility chart on the SYNC website to confirm your phone supports the Bluetooth audio streaming function.  Make sure you correctly connect the device to SYNC, and that you have pressed play on your device.
SYNC does not recognize music that is on my device.	Your music files may not contain the correct artist, song title, album or genre information. The file may be corrupted. The song may have copyright protection, which does not allow it to play.	Make sure that all song details are populated. Some devices require you to change the USB settings from mass storage to MTP class.

Vehicle Health Report and Services (Traffic, Directions and Information) issues		
Issue	Possible cause(s)	Possible solution(s)
I received a text that I did not activate Vehicle Health Report.	You did not activate your account on the website. You may have the wrong VIN (vehicle identification number) listed.	This is a free feature, but you must first register online to use it.  Make sure that your VIN is correctly listed in your account.
I am unable to retrieve the report on the website, or I receive a system error.	The preferred dealer information did not load correctly.	When you register your account, you must choose a preferred dealer. If it already lists a dealer, try selecting another dealer and logging out. Log back in, change it back to your preferred dealer, and retrieve the report.
I am unable to submit a report.	This could be due to your phone's compatibility. Bad signal strength. You did not register your phone correctly on the website.	Update your cellular number in your account on the website. Make sure you have full signal strength and that your Bluetooth volume level has been turned up. Make sure the currently connected phone is registered on your SYNCMyRide account. Try deleting your phone and performing a clean pairing.
I heard a commercial when I tried to use Traffic, Direc- tions and Information.	You did not activate this phone for this service. Your phone has ID blocker active.	This is a free feature, but you must first register online to use it.  Turn off ID blocker on your phone as the system recognizes you by your phone number.  Make sure the currently connected phone is the same one that is registered on your SYNCMyRide account.

Voice command issues		
Issue	Possible cause(s)	Possible solution(s)
SYNC does not understand what I am saying.	You may be using the wrong voice commands. You may be speaking too soon or at the wrong time.	Review the phone voice commands and the media voice commands at the beginning of their respective sections.  After pressing the voice icon, wait until after the tone sounds and Listening appears before saying a command. Any command spoken before this does not register with the system.
SYNC does not understand the name of a song or artist.	You may be using the wrong voice commands. You may be saying the name differently than the way you saved it. The system may not be reading the name the same way you are saying it.	Review the media voice commands at the beginning of the media section. Say the song or artist exactly as listed. If you say "Play Artist Prince", the system does not play music by Prince and the Revolution or Prince and the New Power Generation. Make sure you are saying the complete title, such as "California remix featuring Jennifer Nettles". If the song titles are in all CAPS, you have to spell them. LOLA requires you to say "L-O-L-A". Do not use special characters in the title. The system does not recognize them.
SYNC does not understand or is calling the wrong contact when I want to make a call.	You may be using the wrong voice commands. You may be saying the name differently than the way you saved it.	Review the Phone voice commands at the beginning of the phone section.

Voice command issues		
Issue	Possible cause(s)	Possible solution(s)
	The system may not be reading the name the same way you are saying it. Contacts in your phonebook may be very short and similar, or they may contain special characters. Your phonebook contacts may be in CAPS.	Make sure you are saying the contacts exactly as they are listed. For example, if you save a contact as Joe Wilson, say "Call Joe Wilson".  Using the SYNC phone menu, open the phonebook and scroll to the name SYNC is having trouble understanding. SYNC will read the name to you, giving you some idea of the pronunciation SYNC is expecting. The system works better if you list full names, such as "Joe Wilson" rather than "Joe".  Do not use special characters, such as 123 or ICE, as the system does not recognize them.  If a contact is in CAPS, you have to spell it. JAKE requires you to say "Call J-A-K-E".

AppLink issues		
Issue	Possible cause(s)	Possible solution(s)
AppLink Mobile Applications: When I select "Find New Apps," SYNC does not find any applications.	An AppLink capable phone is not connected to SYNC.	Ensure you have a compatible smartphone; an Android with OS 2.3 or higher or an iPhone 3GS or newer with iOS 5.0 or higher. Additionally, ensure your phone is paired and connected to

AppLink issues		
Issue	Possible cause(s)	Possible solution(s)
		SYNC in order to find AppLink-capable apps on your device. iPhone users must also connect to SYNC's USB port with an Apple USB cable.
My phone is connected, but I still cannot find any apps.	AppLink-enabled apps are not installed and running on your mobile device.	Ensure you have downloaded and installed the latest version of the app from your phone's app store. Ensure the app is running on your phone. Some apps require you to register or login on the app on the phone before using them with AppLink. Also, some may have a "Ford SYNC" setting, so check the app's settings menu on the phone.
My phone is connected, my app(s) are running, but I still cannot find any apps.	Sometime apps do not properly close and re-open their connection to SYNC, over ignition cycles, for example.	Closing and restarting apps may help SYNC find the application if you cannot discover it inside the vehicle. On an Android device, if apps have an "Exit' or 'Quit' option, select that then restart the app. If the app does not have that option, you can also manually "Force Close" the app by going to the phone's settings menu, selecting 'Apps.' then finding the particular app and choosing 'Force stop.' Don't forget to restart the app afterwards, then select "Find New Apps" on SYNC.

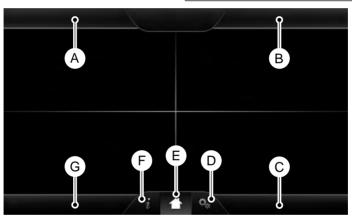
	AppLink issues	
Issue	Possible cause(s)	Possible solution(s)
		On an iPhone with iOS7+, to force close an app, double tab the home button then swipe up on the app to close it. Tab the home button again, then select the app again to restart it. After a few seconds, the app should then appear in SYNC's Mobile App's Menu.
My Android phone is connected, my app(s) are running, I restarted them, but I still cannot find any apps.	There is a bluetooth bug on some order versions of the Android OS that may cause apps that were found on your previous vehicle drive to not be found again if you have not turned off bluetooth.	Reset the Bluetooth on your phone by turning it off and then turning Bluetooth back on. If you are in your vehicle, SYNC should be able to automatically re-connect to your phone if you press the "Phone" button.

AppLink issues		
Issue	Possible cause(s)	Possible solution(s)
My iPhone phone is connected, my app is running, I restarted the app but I still cannot find it on SYNC.	The USB connection to SYNC may need to be reset.	Unplug the USB cable from the phone, wait a moment, and plug the USB cable back in to the phone. After a few seconds, the app should appear in SYNC's Mobile Apps Menu. If not, "Force Close" the application and restart it.
I have an Android phone. I found and started my media app on SYNC, but there is no sound or the sound is very low.	The bluetooth volume on the phone may be low.	Try increasing the Bluetooth volume of the device by using the device's volume control buttons which are most often found on the side of the device.
I can only see some of the AppLink apps running on my phone listed in SYNC's Mobile Apps Menu.	Some Android devices have a limited number of bluetooth ports apps can use to connect. If you have more AppLink apps on your phone than the number of availble Bluetooth ports, you will not see all of your apps listed in SYNC's mobile apps menu.	Force close or uninstall the apps you do not want SYNC to find. If the app has a "Ford SYNC" setting, disable that setting in the app's settings menu on the phone.

#### **GENERAL INFORMATION**

#### **WARNING**

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



E161891

Item	Message
А	Phone
В	Navigation
С	Climate
D	Settings

Item	Message
Е	Home
F	Information
G	Entertainment

This system uses a four-corner strategy to provide quick access to several vehicle features and settings. The touchscreen provides easy interaction with your cell phone, entertainment, information and system settings. The corners display active modes within the menus, for example; your cell phone's status.

**Note:** Some features are not available while your vehicle is moving.

**Note:** You can access the entertainment features for 30 minutes after you switch the ignition off, and no doors are opened.

#### **PHONE**

#### Press to select any of the following:

Message
Phone
Quick Dial
Phonebook
History
Messaging
Settings

#### **NAVIGATION**

#### Press to select any of the following:

Message
My Home
Favorites
Previous Destinations
Point of Interest
Emergency
Street Address
Intersection

	Message
City Center	
Мар	
Edit Route	
Cancel Route	

#### CLIMATE

Press the corresponding icons to control the following options:

- Driver Settings
- Recirculated Air
- Auto
- Dual
- Passenger Settings
- A/C
- Defrost

#### **SETTINGS**



#### Press to select any of the following:

Message
Clock
Display
Sound
/ehicle
Settings
Help

#### HOME



Press to access the home screen.

**Note:** Depending on your vehicle's option package and software, the screens may vary in appearance from the descriptions in this section. The features may also be limited depending on the market. Check with an authorized dealer for availability.

#### **INFORMATION**



#### Press to select any of the following:

Message
Services
Travel Link
Alerts

Message
Calendar
Apps
Where Am I?

#### **ENTERTAINMENT**

#### Press to select any of the following:

Message
AM
FM
SIRIUS
CD
USB
BT Stereo
SD Card

## **Using the Audio Controls**

## Depending on your vehicle, it may also have the following controls:

Message	Action and Description
Power	Switch the media features on or off.
Vol:	Adjust the volume of playing media.
Tune	Use as you normally would in media modes.
Eject	Eject a CD from the entertainment system.
Display	Press this button to switch the display screen off. Press again, or touch the screen to switch the display screen on.
Source	Touch the control repeatedly to switch between media modes.
Sound	Adjust the settings for:
	Bass
	Treble

Message	Action and Description
	Midrange
	Set Balance and Fade
	DSP
	EQ Mode
	Speed Compensated Volume

#### **Using the Steering Wheel Controls**

#### Depending on your vehicle, it may also have the following controls:

Control	Action and Description
VOL	Adjust the volume of playing media.
Voice	Press to start a voice session. Press again to interrupt a voice prompt and begin speaking. Press and hold to end an active voice session.
Seek and Call Accept	Use as you normally would in media and phone modes.
Seek and Call Reject	Use as you normally would in media and phone modes.

## **Using the Touchscreen**

- Make sure your hands are clean and dry.
- Press firmly on the center of a control graphic or menu item.
- Keep metal objects or other conductive material away from the surface of the touchscreen.

## Cleaning the Touchscreen Display

Use a dry, clean, soft cloth. If dirt or fingerprints 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:

- Monday-Saturday, 8:30am-8:00pm EST.
- United States: 1-888-270-1055
- Canada: 1-800-565-3673

**Note:** Times are subject to change due to holidays.

#### **Safety Information**

#### WARNING

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

- Do not attempt to service or repair the system. Have your vehicle checked by an authorized dealer.
- Do not operate media devices if the power cables are broken or damaged.

- Make sure the power cables do not interfere with the safe operation of your vehicle's controls or affect your safe driving abilities.
- Some SYNC functions are speed-dependent. Their use is limited to when your vehicle is traveling at speeds below 3 mph (5 km/h).

Make sure that you review your device's manual before using it with SYNC.

#### **Speed-restricted Features**

Some features of this system are restricted from use unless your vehicle is stationary.

- Screens crowded with information, for example:
  - Point of Interest reviews and ratings
  - SIRIUS Travel Link sports scores
  - Movie times
  - Ski conditions.
- Any action that requires keyboard use, for example: entering a navigation destination or editing information.
- All lists are limited, for example: phone contacts.

See the following chart for more specific examples.

Speed-restricted Features	
Cell phone	Pairing a cell phone
	Adding or editing phonebook contacts
	Phone contacts and recent phone call entries
System Functionality	Enabling Valet Mode
	Editing settings while the rear view camera or active park assist are active
Wi-Fi and Wireless	Editing wireless settings
	Editing the list of wireless networks

Speed-restricted Features	
Photos and Graphics	Adding or editing wallpaper
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 or editing Address Book or Avoid Area entries

### **Privacy Information**

When you connect a cell phone to SYNC. the system creates a profile within your vehicle that links to that cell phone. This profile helps in offering you more cellular features and operating more efficiently. Among other things, this profile may contain data about your cell 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 remain in your vehicle unless you delete them, and are generally accessible only in your vehicle when your cell phone or media player is connected. If you no longer plan to use the system or your vehicle, we recommend you carry out a Master Reset to erase all stored information.

System data cannot be accessed without special equipment and access to your vehicle's SYNC module. Ford Motor Company and Ford of Canada do not access the system data for any purpose other than as described without 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®, Vehicle Health Report, and Traffic. Directions and Information.

## Accessing and Adjusting Modes Through Your Right Vehicle Information Display



The display is located on the right side of your instrument cluster (A). You can use your steering wheel controls 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 memory presets and make some adjustments.
- In Phone mode, you can accept or reject an incoming call.
- If your vehicle is equipped with Navigation, you can view the current route or activate a route.



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Use the **OK** and arrow buttons on the right side of your steering wheel to scroll through the available modes.

The selection menu expands and different options appear.

- 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 (for example, 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 Commands**

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 appear in the lower left status bar indicating the status of the voice command session (such as Listening, Success, Failed, Paused or Try Again).

#### **How to Use Voice Commands**



The following are some of the voice commands that you can say at any time during a voice

command session.

## Press the voice button and when prompted say:

prompted say:	
Voice command	
Main Menu	
What Can I Say	
Previous Page	
Go Back	
Help	

#### Helpful Hints

- Make sure the interior of your vehicle is as quiet as possible. Wind noise from open windows and road vibrations may prevent the system from correctly recognizing spoken voice commands.
- After pressing the voice command icon, wait until after the tone sounds and a message appears before saying a voice command. Any voice 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 command icon.

## Accessing a List of Available Voice Commands

To access a list of available voice commands you can do either of the following.

### Using the touchscreen, press:

Menu Item
Settings
Help
Voice Command List

#### Using the steering wheel control, press the voice button and when prompted say one of the following:

Voice Commands
List of Commands
Radio List of Commands
Phone List of Commands

#### **Voice Commands**

Voice Instructions List of Commands

#### **Voice Command Settings**

These allow you to customize the level of system interaction, help and feedback. The system defaults to standard interaction that uses candidate lists and confirmation prompts as these provide the highest level of guidance and feedback.

Menu Item	Action and Description		
Interaction Mode	Novice	In this mode the system provides detailed interaction and guidance.	
	Advanced	This mode has less audible interaction and more tone prompts.	
Confirmation Prompts	The system uses these short questions to confirm your voice command. If turned off, the system simply makes a best guess as to what you requested. The system may still occasionally ask you to confirm a voice command.		
Phone Candidate Lists	Candidate lists are lists 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		
Media Candidate Lists			

# Using the touchscreen, press the settings icon, then press:

Menu Item
Voice Settings
Voice Control
Select from the following:
Interaction Mode
Confirmation Prompts

Menu Item
Media Candidate Lists
Phone Candidate Lists
Voice Control Volume

#### Using Voice Commands with the Touchscreen Options

The voice command system has a dual mode feature which allows you to switch between using voice commands and making on-screen selections. This is

available only when the system displays a list of candidates generated during a voice command session. For example, this can be used when entering a street address or trying to call a contact from a cell phone paired to the system.

# **SETTINGS**



Item	Message
Α	Clock
В	Display
С	Sound
D	Vehicle
Е	Settings
F	Help

#### Clock

Under this menu, you can set the clock, access and adjust the display, sound and vehicle settings as well as access settings for specific modes or the help feature.

#### To make adjustments using the touchscreen, select:

Menu Item	Action and Description
Settings	Press the settings icon.
Clock	Press the + or - to adjust the time. From this screen, you can also make other adjustments such as 12-hour or 24-hour mode, activate GPS time synchronization and have the system automatically update new time zones. You can also switch the outside air temperature display off and on. It appears at the top center of the touchscreen, next to the time and date.

Note: You cannot manually set the date. Your vehicle's GPS does this for you.

**Note:** If the battery has been disconnected, your 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.

# Display

You can adjust the display using the touchscreen or the voice button on the steering wheel controls.

Menu Item	Action and Description	
Settings	Press the settings icon.	
Display		
Then select fro	m the followi	ng:
Auto Dim	When set to <b>On</b> , lets you use the automatic dimming feature. When set to <b>Off</b> you are able to adjust the brightness of the screen.	
	Brightness	Make the screen display brighter or dimmer.
Mode	Allows you to switch the display off. It also allows you to set the screen to a certain brightness or have the system automatically change based on the outside light level.  If you also select:	
	Auto	These features will allow you to adjust the dimming of your screen.

Menu Item	Action and Description	
	Night	
Auto Dim Manual Offset	Allows you to adjust screen dimming as the outside lighting conditions change from day to night.	
Edit Wallpaper	Allows you to display the default photo or upload your own.	



# To make adjustments using the voice button, press the button and when prompted. sav:

Voice command	
Display Settings	

#### Uploading Photos for Your Home Screen Wallpaper

**Note:** You cannot load photos directly from your camera. You must access the photos either from your USB mass storage device or from an SD card.

**Note:** Photographs with extremely large dimensions (such as 2048 x 1536) may not be compatible and appear as a blank (black) image on the display.

The system allows you to upload and view up to 32 photos.

To access, press:

### To upload your photos, select:

Menu Item	Action and Description
Settings	Press the settings icon.
Display	
Edit Wallpaper	Follow the system prompts to upload your photographs.

Only the photograph(s), which meets the following conditions display:

- 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

# To make adjustments using the touchscreen, select:

Message
Settings
Sound
Then select from the following:
Bass
Midrange
Treble
Set Balance and Fade
Occupancy Mode
Speed Compensated Volume
DSP

**Note:** Your vehicle may not have all of these sound settings.

#### Vehicle

# To make adjustments using the touchscreen, select:

Message
Settings
Vehicle
Then select from the following:
Ambient Lighting
Vehicle Health Report *
Camera Settings
Enable Valet Mode

<sup>\*</sup> US only

### **Ambient Lighting (If Equipped)**

When you switch this feature on, ambient lighting illuminates the dashboard, footwells, doors, cupholders, and console with a choice of colors.

Menu Item	Action and Description
Settings	Press the settings icon.
Vehicle	
Ambient Lighting	

- You can then touch the desired color.
- Use the scroll bar to increase or decrease the intensity.
- To switch the feature on or off, press the power button.

### Vehicle Health Report (If Equipped, US Only)

#### To make adjustments using the touchscreen, select:

Message	Action and Description
Settings	Press the settings icon.
Vehicle	
Vehicle Health	
Automatic Reminders Mileage Interval (Miles)	Turn on and off and set the mileage interval at which you would like to receive the reports. Press the <b>?</b> for more information on these selections.
Run Vehicle Health Report Now	To run the vehicle health report immediately.

You can find more information on Vehicle Health Report in this chapter.

### **Camera Settings**

#### To make adjustments using the touchscreen, select:

Message	Action and Description
Settings	Press the settings icon.
Vehicle	
Camera Settings	
Then select from the following:	
Enhanced Park Aids	
Rear Camera Delay	

You can find more information on the rear view camera system in another chapter. See **Parking Aids** (page 179).

#### **Enable Valet Mode**

**Note:** If the system locks, and you need to reset the PIN, please contact the Customer Relationship Center.

United States: 1-800-392-3673 Canada: 1-800-565-3673

### To make adjustments using the touchscreen, select:

Menu Item	Action and Description
Settings	Press the settings icon.
Vehicle	
Enable Valet Mode	Then enter a four digit PIN twice, as prompted.
Continue	After you press Continue the system locks until you enter the PIN again.

# **Settings**

Access and adjust system settings, voice features, as well as phone, navigation and wireless settings.

#### **System**

Message	Action and Description
Settings	Press the settings icon.
System	
Then select from the fo	llowing:
Language	Select to have the touchscreen display in English, Spanish or French.
Distance	Select to display units in kilometers or miles.
Temperature	Select to display units in Celsius or Fahrenheit.
System Prompt Volume	Adjust the volume of voice prompts from the system.
Touch Screen Button Beep	Select to have the system beep to confirm choices made through the touchscreen.
Keyboard Layout	Have the touchscreen keyboard display in QWERTY or ABC format.
Install Applications	Install any downloaded applications or view the current software licenses.
Master reset	Select to restore factory defaults. This erases all personal settings and personal data.

#### **Voice Control**

# To make adjustments using the touchscreen, select:

Message	Action and Description
Settings	
Voice Control	
Then select from the fo	llowing:
Interaction Mode	Novice interaction mode provides more detailed interaction and guidance. Advanced mode has less audible interaction and more tone prompts.
Confirmation Prompts	Have the system ask you short questions if it has not clearly heard or understood your request. <b>Note:</b> Even with confirmation prompts turned off, the system may occasionally ask you to confirm settings.
Media Candidate Lists	Candidate lists are possible results from your voice commands. The system simply makes a best guess at your request with these turned off.
Phone Candidate Lists	Candidate lists are possible results from your voice commands. The system simply makes a best guess at your request with these turned off.
Voice Control Volume	This allows you to adjust the system's voice volume level.

# **Media Player**

Message	Action and Description	
Settings	Press the settings icon.	
Media Player		
Then select from the following:		
Autoplay	When this feature is on, the system automatically switches to the media source upon initial connection. This allows you to listen to music during the indexing process. When this feature is off, the system does not automatically switch to the inserted media source.	

Message	Action and Description
Bluetooth Devices	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.
Gracenote® Database Info	This allows you to view the version level of the Gracenote Database.
Gracenote® Manage- ment	With this feature on, the Gracenote Database supplies metadata information for your music files. This overrides information from your device. This feature defaults to off.
Cover Art Priority	With this feature on, the Gracenote Database supplied cover art for your music files. This overrides any art from your device. This feature defaults to Media Player.

# **Navigation**

Message	Action and Description
Settings	Press the settings icon.
Navigation	
Then select from the fo	llowing:
Map Preferences	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.
Route Preferences	Select shortest route, fastest route or ecological route as your preferred route. This route will be displayed first.
	Always use preferred route. If set to yes, the system will only calculate a single route. This speeds up your destination entry process.
	Select a low, medium or high cost for the calculated ecological route. This may incur a time penalty.
	Have the system avoid freeways.
	Have the system avoid toll roads.

# $MyFord\ Touch^{TM}\ (If\ Equipped)$

Message	Action and Description
	Have the system avoid ferries or car trains.
	Have the system use HOV (high-occupancy vehicle) lanes.
Navigation Preferences	Have the system use guidance prompts.
	Have the system automatically fill-in State/Province information.
Traffic Preferences	Have the system automatically avoid traffic concerns or allow you to accept or decline an alternative route.
	Have the system automatically alert you to traffic concerns that occur on your route.
	Have the system display accident icons.
	Have the system display traffic jam icons.
	Have the system display closed roads.
	Have the system display areas where road work occurs.
	Have the system display incident icons.
	Have the system display areas where difficult driving conditions may occur.
	Have the system display areas where 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.
Avoid Areas	Enter specific areas that would like to avoid on planned navigation routes.

#### Phone

Message	Action and Description
Settings	Press the settings icon.
Phone	
Then select from the fo	llowing:
Bluetooth Devices	Connect, disconnect, add or delete a device, as well as save it as a favorite.
Bluetooth	Turn Bluetooth on and off.
Do Not Disturb	Have all calls go directly to your voice mail and not ring inside your vehicle. With this feature turned on, text message notifications are also suppressed and do not ring inside your vehicle.
911 Assist	Turn on or turn off the 911 Assist feature. See <b>Information</b> (page 432).
Phone Ringer	Select the type of notification for phone calls - ring tone, beep, text to speech or silent.
Text Message Notification	Select the type of notification for text messages - alert tone, beep, text to speech, or have it be silent.
Internet Data Connection	If compatible with your phone, you can adjust your internet data connection. Select to make your connection profile with the personal area network or to turn off your connection. You can also choose to adjust your settings or have the system always connect, never connect when roaming, or query on connect. Press ? for more information.
Manage Phonebook	Access features, such as automatic phonebook download, re-download your phonebook, add contacts from your phone as well as delete or upload your phonebook.
Roaming Warning	Have the system alert you when in Roaming mode.

#### Wireless and Internet

Your system has a Wi-Fi feature that creates a wireless network within your vehicle, thereby allowing other devices (such as personal computers or phones) in your vehicle to speak to each other,

share files or play games. Using this Wi-Fi feature, everyone in your vehicle can also access the internet if you have a USB mobile broadband connection inside your vehicle, your phone supports personal area networking or if you park outside a wireless hotspot.

Menu Item	Action and Description
Settings	Press the settings icon.
Wireless & Internet	
Then select from the f	following:
Wi-Fi Settings	Wi-Fi Network (Client) Mode
	Turns the Wi-Fi feature on and off in your vehicle. Make sure you switch it on for connectivity purposes.
	Choose a Wireless Network
	Allows you to 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.
	Gateway (Access Point) Mode
	Makes SYNC an access point for a phone or a computer when turned on. This forms the local area network within your vehicle for things, such as game playing, file transfer and internet browsing. Press ? for more information.
	Gateway (Access Point) Settings
	Allows you to view and change settings for using SYNC as the internet gateway.
	Gateway (Access Point) Devices List
	Allows you to view recent connections to your Wi-Fi system.

Menu Item	Action and Description
USB Mobile Broadband	Instead of using Wi-Fi, your system can also use a USB mobile broadband connection to access the internet. (You must switch on your mobile broadband device on your personal computer before 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 display if the device is already on.) You can select the following:
	Country
	Carrier
	Phone Number
	User Name
	Password
Bluetooth Settings	Shows you the currently paired devices 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.
Prioritize Connection Methods	Choose your connection methods and change them as needed. You can select to change order and have the system either always attempt to connect using a USB, mobile broadband, or using Wi-Fi.



The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance.

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# Help

Message	Action and Description		
Settings	Press the settings icon.		
Help			
Then select fro	om the following:		
System Inform-	Touchscreen system serial number		
ation	Your vehicle identification number (VIN)		
	Touchscreen system software version		
	Navigation system version		
	Map database version		
	Sirius satellite radio ESN		
	Gracenote® Database Information and Library version		
Software Licenses	View the licenses for any software and applications installed on your system.		
Driving Restrictions	Certain features are not accessible when your vehicle is moving.		
911 Assist	Turn on and turn off the 911 Assist feature. See <b>Informat</b> 432).		
	In Case of Emergency (ICE) Quick Dial	Allows you to save up to two numbers as ICE contacts for quick access if there is an emergency. The ICE contacts you select appear at the end of the Emergency Assistance call process.	
	Edit	Select to access your phone- book and then select the desired contacts. The numbers then appear as options on this screen for the ICE 1 and ICE 2 buttons.	
Voice Command List	View categorized lists of voice commands.		



You can also access Help using the voice commands. The system provides allowable voice commands for the current mode.

### Press the voice button and when prompted say:

	Voice command
Help	

You can say help at any time to get assistance with commands, menus or other information.

### **ENTERTAINMENT**



Message	Message and Description	
А	AM	
В	FM	
С	SIRIUS	
D	CD	
E	USB	
F	Touch this button to scroll down for more options, for example SD Card and USB	

Message	Message and Description	
G	These buttons change with the media mode you are in.	
Н	Radio memory presets.	

**Note:** Some features may not be available in your area. Contact an authorized dealer for more information.

You can access these options using the touchscreen or voice commands.

#### **AM/FM Radio**



The following controls are available for AM/FM radio

Item	Action and Description	
AM	Touch either tab to listen to the radio. To change between AM and FM	
FM	presets, just touch the <b>AM</b> or <b>FM</b> tab.	
Presets	Save a station by pressing and holding one of the memory preset areas. There is a brief mute while the radio saves the station. Sound returns when finished.	
HD Radio	Touch this button to turn HD Radio on. The light on the button illuminates when the feature is on. HD Radio allows you to receive radio broadcasts digitally, where available, providing free, crystal-clear sound. See HD Radio information later in this chapter.	
Options	Touch this button to make adjustments to your audio settings.	
Scan	Touch this button to go to the next strong AM or FM radio station. The light on the button illuminates when the feature is on.	
Direct Tune	Touch this button to manually enter the desired station number. Touch <b>Enter</b> when you are done.	

### **Options**

# You can make adjustments to the following options:

Menu Item	Action and Description	
Sound Settings	Touch this button to adjust settings for:	
	Bass	
	Midrange	
	Treble	

Menu Item	Action and Description
	Set Balance and Fade
	DSP
	Occupancy Mode
	Speed Compensated Volume
Set PTY for Seek / Scan	This allows you to select a category of music you would like to search for. You can then choose to either seek or scan for the stations playing that category.
RDS Text Display	This allows you to view the information broadcast by FM stations.
AST	AST (Autostore) allows you to have the system automatically store the six strongest stations in your current location.
TAG Button	This feature is available when HD Radio is on, and allows you to tag a song to download later. When you select On, <b>TAG</b> appears on-screen when HD Radio is active. You can touch <b>TAG</b> to save the information of the song that is playing. When you plug in your portable music player, the information transfers, if supported by your device. When you are connected to iTunes, the tags appear to remind you of the songs you would like to download. See HD Radio information later in this chapter.

**Note:** Your vehicle may not have all these sound settings.

#### 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 that 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.

When HD Radio is on and you tune to a station broadcasting HD Radio technology, you may notice the following indicators on your screen:



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The HD logo either blinks when acquiring a digital station, and then stays solid when digital audio is playing, or is grey when acquiring a digital station, and then changes to orange when digital audio is playing. When this logo is available, you may also see Title and Artist fields on-screen.

The multicast indicator appears in FM mode (only) if the current station is broadcasting multiple digital broadcasts. The highlighted numbers 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. Other multicast stations (HD2 through HD7) are only available digitally.

**TAG** allows you to save a song to download later when you are on an acquired HD Radio station and the feature is on.

#### To turn the feature on and use it, select AM or FM and the select:

Message	Action and Description
Options	
TAG Button	
On	When you hear a song you want to tag, select:
TAG	The system automatically saves the song's information and transfers it to your portable music player (if supported) when you connect it to the system. The system automatically transfers the tag to your player (if already connected) and a pop-up confirms the transfer. When you access iTunes with your portable music player, the tags appear to you as a reminder. The system allows you to tag up to approximately 100 songs. For a list of devices that support tagging, see www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.ca

#### When HD Radio broadcasts are active, you can access the following functions:

Message	Action and Description
Scan	Allows you to hear a brief sampling of all available stations. This feature still works when HD Radio reception is on, although it does not scan for HD2-HD7 channels. You may see the HD logo appear if the station has a digital broadcast.
Presets	Allows you to save an active channel as a memory preset. Touch and hold a memory preset slot until the sound returns. There is a brief mute while the radio saves the station. Sound returns when finished. When switching to an HD2 or HD3 memory preset, the sound mutes before the digital audio plays, because the system has to reacquire the digital signal.

**Note:** 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

Potential reception issues		
Reception area	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.	
	If you are listening to HD1, the system switches back to the analog broadcast until the digital broadcast is available again. However, if you are listening to any of the possible HD2-HD7 multicast channels, the station mutes and stays muted unless it is able to connect to the digital signal again.	
Station blending	When the system first receives a station (aside from HD2-HD7 multicast stations), it first plays the station in the analog version. Once the 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. Blending is the shift from analog to digital sound or digital back to analog sound.	

In order to provide the best possible experience, use the contact form to report any station issues found while listening to a station broadcasting with HD Radio technology. Independent entities own and operate each station. These stations are responsible for ensuring all audio streams and data fields are accurate.

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Potential station issues		
Issues	Cause	Action
Echo, stutter, skip or repeat in audio. Increase or decrease in audio volume.	This is poor time alignment by the radio broadcaster.	No action required. This is a broadcast issue.
Sound fading or blending in and out.	The radio is shifting between analog and digital audio.	No action required. The reception issue may clear up as you continue to drive.
There is an audio mute delay when selecting HD2 or HD3, multicast preset or <b>Direct Tune</b>	The digital multicast is not available until the HD Radio broadcast is decoded. Once decoded, the audio is available.	No action required. 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.	No action required. 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 http://www.ibiquity.com/ automotive/ report_radio_station_experi- ences
There is no text information shown for currently selected frequency.	Data service issue by the radio broadcaster.	Fill out the station issue form at http://www.ibiquity.com/ automotive/ report_radio_station_experi- ences
HD2-HD7 stations not found when you press <b>Scan</b>	This selection disables HD2-HD7 channel search.	No action required. This is normal behavior.

HD Radio Technology manufactured under license from iBiquity Digital Corp. U.S. and foreign patents. HD Radio and the HD and HD Radio logos are proprietary trademarks of iBiquity Digital Corp. Ford Motor Company and iBiquity Digital Corp. are not responsible for the content sent using HD Radio technology. Content may be

changed, added or deleted at any time at the station owner's discretion.

#### **Radio Voice Commands**



#### Press the voice button and when prompted say:

Voice command	Action and Description	
Radio		
Then you can say a command similar to the following:		
-M Say a frequency or preset.		
Off		
Help		

# SIRIUS® Satellite Radio (If Activated)



### 

Menu Item	Action and Description
SIRIUS	
You can then selec	t any of the following:
Presets	Save a channel by pressing and holding one of the memory preset areas. There is a brief mute while the radio saves the channel. Sound returns when finished.
Alerts	Save the current song, artist, or team as a favorite. If you are listening to music, you can save the song or artist, so the system can alert you when they are playing on a satellite radio channel. If you are listening to a sporting event, you can save your favorite teams so the system can alert you when they are playing on a satellite radio channel. You can also edit alerts or turn alerts on or off.

Menu Item	Action and Description	
	When an alert appears on the screen, you can choose to tune to the channel, cancel the alert or turn off alerts.	
Replay	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. Changing stations erases the previous audio. While in replay mode:  Press and release the seek buttons to hear the previous or next song.  Press and hold the seek buttons to reverse or fast forward in the current track.  Press play or pause to play or pause the audio.  Press the button again to return to live audio.	
Scan	Touch this button to hear a brief sampling of channels.	
Browse	Touch this button to view a list of all available stations. Scroll to see more categories. Touch the station you want to listen to.	

**Note:** SIRIUS does not support the Alert feature on all channels. Ford Motor Company shall not be responsible for Alert feature variation.

# **Browsing Controls**

Message	Action and Description	
Skip	Touch this button if you want to skip this channel.	
Lock	Touch this button if you do not want anyone to listen to this channel.	
Title	Touch this button to see song titles playing on other stations.	
Artist	Touch this button to see artists playing on other stations.	
Channel	Touch this button to see a list of all the channel names.	

### **Options**

Touch this button to view and adjust various media settings.

Message	Message
Sound Settings	Touch this button to adjust settings for:
	Bass
	Midrange
	Treble
	Set Balance and Fade
	DSP
	Occupancy Mode
	Speed Compensated Volume
Set Category for Seek/Scan	This allows you to select a category of music you would like to search for. You can then choose to either seek or scan for the stations playing that category.
Parental Lockout	This 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.
Artist / Title / Team Alerts	This feature allows you turn alerts on and off.
Electronic Serial Number (ESN)	SIRIUS requires this number when communicating with you about your account.
Direct Tune	Touch this button to manually enter the desired satellite channel number. Touch <b>Enter</b> when you are done

Note: Your vehicle may not have all these sound settings.

#### **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 that begins on the date of sale or lease of your vehicle. See an authorized dealer for availability.

For more information on extended subscription terms (a service fee is required), the online media player and a list of SIRIUS satellite radio channels, and other features, please visit www.siriusxm.com in the United States, www.sirius.ca in Canada, or call SIRIUS at 1-888-539-7474.

**Note:** This receiver includes the eCos real-time operating system. eCos is published under the eCos License.

# Satellite Radio Electronic Serial Number (ESN)

You need your ESN to activate, modify or track your satellite radio account. The ESN is on the System Information Screen (SR ESN:XXXXXXXXXXXXXXX).

# To access your ESN, touch the bottom left corner of the touchscreen, then select:

	Message
SIRIUS	
Options	

#### SIRIUS Satellite Radio Reception Factors and Troubleshooting

	Potential reception issues
Antenna obstructions	For optimal reception performance, keep the antenna clear of snow and ice build-up and keep luggage and other materials as far away from the antenna as possible.
Terrain	Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.
Station overload	When you pass a ground-based broadcast-repeating tower, a stronger signal may overtake a weaker one and the audio system may mute.
Satellite radio signal interfer- ence	Your display may show ACQUIRING to indicate the interference and the audio system may mute.

Troubleshooting tips		
Message	Cause	Action
Acquiring	Radio requires more than two seconds to produce audio for the selected channel.	No action required. This message should disappear shortly.
Satellite antenna fault SIRIUS system failure	There is an 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 an authorized dealer for service.
Invalid Channel	The channel is no longer available.	Tune to another channel or choose another preset.
Unsubscribed Channel	Your subscription does not include this channel.	Contact SIRIUS at 1-888-539-7474 to subscribe to the channel, or tune to another channel.
No Signal	The signal is lost from the SIRIUS satellite or SIRIUS tower to your vehicle antenna.	The signal is blocked. When you move into an open area, the signal should return.
Updating	Update of channel programming in progress.	No action required. The process may take up to three minutes.
Questions? Call	Your satellite service is no	Contact SIRIUS at 1-888-539-
1-888-539-7474	longer available.	7474 to resolve subscription issues.
None found	All the channels in the selected	Use the channel guide to turn
Check Channel Guide	category are either skipped or locked.	off the Lock or Skip function on that station.
Subscription Updated	SIRIUS has updated the channels available for your vehicle.	No action required.

# SIRIUS Satellite Radio Voice Commands



If you are listening to SIRIUS satellite radio, press the voice button on the steering wheel

controls. You will hear a prompt, you can then say any of the commands in the following table.

# If you are not listening to SIRIUS satellite radio, press the voice button and, after the tones press the voice button and when prompted say:

Voice command
Sirius
You can then say any of the following or a similar command:
SAT 1

#### Voice command

Sports Games

Tune

Help

You can also say the name of any Sirius station, such as "The Highway" or "Deep Tracks". to listen to that station.

#### CD



# To access, press the lower left corner on the touchscreen, then select:

	Menu Item
CD	

### Insert your CD then select:

Menu Item	Action and Description
Repeat	Touch this button to repeat the currently playing track, all tracks on the disc or switch the feature off if already on.
Shuffle	Touch this button to play the tracks or entire albums in random order, or switch the feature off if already on.
Scan	Touch this button to hear a brief sampling of all available tracks.
More Info	Touch this button to see disc information.
Browse	Touch this button to look through all available CD tracks.

### To adjust the Sound Settings, select:

Menu Item
Options
Sound Settings
Then any of the following:
Bass
Midrange
Treble
Set Balance and Fade
Occupancy Mode
EQ Mode
Speed Compensated Volume

**Note:** Your vehicle may not have all these sound settings.

#### **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 following commands.

### If you are not listening to a CD, press the voice button and, after the tone, say:

	Voice command
CD Player	

# When listening to a CD you can say many commands. Following are a few examples of what you can say.

<sup>\*</sup>This applies to WMA or MP3 files only.

#### SD Card Slot and USB Port

The SD card slot and USB port are located in the Media Hub. See **Media Hub** (page 340).

#### SD Card

**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.

**Note:** The navigation system also uses this card slot. See **Navigation** (page 444).



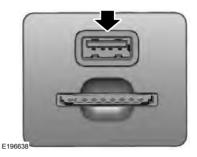
To access and play music from your device, press the lower left corner of the touchscreen.



E142620

SD logo is a trademark of SD-3C, LLC.

#### **USB Port**



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 drives or thumb drives, and charge devices if they support this feature.

#### **Playing Music from Your Device**

**Note:** The system is capable of indexing up to 30,000 songs.



#### Insert your device and select:

Message	Action and Description
USB	Once the system recognizes your USB or SD card you can then
SD Card	select from the following options:
Repeat	This feature replays the currently playing song or album.
Shuffle	Touch this button to play music on the selected album or folder in random order.
Similar Music	This feature allows you to choose music similar to what is currently playing.
More Info	Touch this button to see disc information, for example current track, artist name, album and genre.
Options	Touch this button to view and adjust various media settings.

#### Sound

# You can adjust the settings for:

Message	Action and Description
Sound Settings	Bass
	Midrange
	Treble
	Set Balance and Fade
	DSP
	EQ Mode
	Speed Compensated Volume
Media Player Settings	Allows you to select more settings, which is under Media Player. See <b>Settings</b> (page 395).
Device Information	Displays software and firmware information about the currently connected media device.
Update Media Index	Indexes your device when you connect it for the first time and each time the content changes (for example adding or removing tracks) to make sure you have the latest voice commands available for all media on the device.

Note: Your vehicle may not have all these sound settings.

#### **Browse**

This feature allows you to view the contents of the device. It also allows you to search by categories, for example genre, artist or album.

If you want to view song information, for example Title, Artist, File, Folder, Album, and Genre, touch the on-screen album art.

#### You can also select:

Message	Action and Description
, ,	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.

#### **USB and SD Card Voice Commands**



### Press the voice button and when prompted say:

	Voice command
SD Card	
USB	
Then command	ds such as the following:
Browse	
Next Track	
Pause	
Play	Say the name of what you would like to listen to such as a band, song, album or playlist.
Play Artist	•
Play Song	•
Similar Music	
Help	

# Supported Media Players, Formats and Metadata Information

SYNC is capable of hosting nearly any digital media player, including iPod, Zune™, plays from device players, and most USB drives. Supported audio formats include MP3, WMA, WAV and AAC.

It is also able to organize your indexed media from your playing device by metadata tags. Metadata tags, which are descriptive software identifiers embedded in the media files, provide information about the file.

If your indexed media files contain no information embedded in these metadata tags, SYNC may classify the empty metadata tags as unknown.

#### **Bluetooth Audio**



The system allows you to stream audio over your vehicle's speakers from your connected,

Bluetooth-enabled cell phone.

<sup>\*</sup>\_\_\_ is a dynamic listing, meaning that it could be the name of anything, such as a group, artist or song. For example you could say "Play artist The Beatles" or "Play song Penny Lane".

# To access, press the lower left corner on the touchscreen, then select:

	Message
BT Stereo	

#### **Bluetooth Audio Voice Commands**



The voice system allows you to control your media with a simple voice command. For example to

change songs, press the voice button and follow the system prompts.

#### **PHONE**



Item	Message
Α	Phone
В	Quick Dial
С	Phonebook
D	History
Е	Messaging
F	Settings

Hands-free calling is one of the main features of SYNC. Once you pair your cell phone, you can access many options using the touchscreen or voice commands. While the system supports a variety of features, many are dependent on your cell phone's functionality.

At a minimum, most cell phones with Bluetooth wireless technology support the following functions:

- Answering an incoming call.
- · Ending a call.
- Using privacy mode.
- Dialing a number.
- Redialing.

- · Call waiting notification.
- Caller ID.

Other features, such as text messaging using Bluetooth and automatic phonebook download, are cell phone-dependent features. To check your cell phone's compatibility, see your cell phone's user manual and visit www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.ca.

# Pairing Your Cell Phone for the First Time

#### WARNING

 $\triangle$ 

Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that

Injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

The first thing you must do to use the phone features of SYNC is to pair your Bluetooth-enabled cell phone with SYNC. This allows you to use your cell phone in a hands-free manner.

**Note:** This is a speed-dependent feature. It is unavailable when your vehicle is traveling at speeds over 3 mph (5 km/h).

#### Touch the upper left corner of the touchscreen:

Message	Action and Description
Add phone	
Find SYNC	Follow the on-screen instructions. Make sure that Bluetooth is set to <b>On</b> and that your cell phone is in the correct mode. See your cell phone's manual if necessary. Select <b>SYNC</b> and a six-digit PIN appears on your device. If you are prompted to enter a PIN on your device, it does not support Secure Simple Pairing. To pair, enter the PIN displayed on the touchscreen. Skip the next step. When prompted on your cell phone's display, confirm that the PIN provided by SYNC matches the PIN displayed on your cell phone. The display indicates when the pairing is successful.

Message	Action and Description
	SYNC may prompt you with more cell phone options. For more information on your cell phone's capability, see your cell phone's manual and visit the website.

# **Pairing Subsequent Cell Phones**

**Note:** This is a speed-dependent feature. It is unavailable when your vehicle is traveling at speeds over 3 mph (5 km/h).

Make sure that Bluetooth is set to **On** and that your cell phone is in the correct mode. See your device's manual if necessary.

#### To pair a subsequent cell phone, select:

Menu Item	Action and Description
Phone	
Settings	
Bluetooth Devices	
Add Device	
Find SYNC	Follow the on-screen instructions. Make sure that Bluetooth is set to <b>On</b> and that your cell phone is in the correct mode. See your cell phone's manual if necessary. Select <b>SYNC</b> and a six-digit PIN appears on your device. If you are prompted to enter a PIN on your device, it does not support Secure Simple Pairing. To pair, enter the PIN displayed on the touchscreen. Skip the next step. When prompted on your cell phone's display, confirm that the PIN provided by SYNC matches the PIN displayed on your cell phone. The display indicates when the pairing is successful. SYNC may prompt you with more cell phone options. For more information on your cell phone's capability, see your cell phone's manual and visit the website.

# **Making Calls**



# Press the voice button and say a command similar to the following:

	Voice command
Call	
Dial	

You can say the name of a person from your phone book to call or a say a number to dial. For example "Call John" or "Dial 867-5309".



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 is available.



#### To accept the call, select:

	Message	
Accept		

**Note:** You can also accept the call by pressing the phone button on the steering wheel.



#### To reject the call, select:

	Message
Reject	

**Note:** You can also reject the call by pressing the phone button on the steering wheel.

Ignore the call by doing nothing. SYNC logs it as a missed call.

### **Phone Menu Options**

Press the top left corner on the touchscreen to select from the following options:

Menu Item	Action and Description	
Phone	Touch this button to access the on-screen numerical pad to enter a number and place a call. During an active call, you calso choose any of these options:	
	Mute Call	
	Hold Call	
	Privacy	
	Join Calls	
	End	
Quick Dial	Select to call stored contacts.	

Menu Item	Actio	on and Description
Phonebook	Touch this button to access and call any contacts in your previously downloaded phonebook. The system places the entries in alphabetical categories summarized at the top of the screen	
	To turn on contact pictur feature, select:	re settings, if your device supports this
	Phone	
	Settings	
	Manage Phonebook	
	Display Photos from Phonebook	
	Certain smartphones may support transferring street addresses when listed with phonebook contact information. If your cell phone supports this feature, you can select and use these addresses as destinations and save them as favorites.	
Call History	Note: This is a cell phone-dependent feature. If your cell phone does not support downloading call history using Bluetooth, SYNC keeps track of calls made with the SYNC system. After you connect your Bluetooth-enabled cell phone to SYNC, you can access any previously dialed, received or missed calls. You can also choose to save these to:	
	Favorites	Quick Dial
Messaging	Send text messages using the touchscreen. See <b>Text Messaging</b> later in this section.	
Settings	Touch this button to access various phone settings, for example turning Bluetooth on and off, managing your phonebook and more. See <b>Phone Settings</b> later in this section	

# **Text Messaging**

**Note:** Downloading and sending text messages using Bluetooth are cell phone-dependent features.

**Note:** Certain features in text messaging are speed-dependent and not available when your vehicle is traveling at speeds over 3 mph (5 km/h).

**Note:** SYNC does not download read text messages from your cell phone.

You can send and receive text messages using Bluetooth, read them aloud and translate text messaging acronyms, for example LOL.

# Touch the top left corner of the display, then select:

Message	
Phone	
Messaging	
Then any of the following:	
Listen (speaker icon)	
Dial	

Message
Send Text
View
Delete

#### **Composing a Text Message**

**Note:** This is a speed-dependent feature. It is unavailable when your vehicle is traveling at speeds over 3 mph (5 km/h).

**Note:** Downloading and sending text messages using Bluetooth are cell phone-dependent features.

### To compose and send a text message, select:

Message	Action and Description
Phone	
Messaging	
Send Text	Enter a cell phone number or choose from your phonebook.
Edit Text	Allows you to customize the pre-defined message or create a message on your own.
Send	Sends the message as it is.

You can then preview the message, verify the recipient as well as update the message list.

### **Text Message Options**

Message
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.

Message
I'm ahead of schedule, so I'll be there early.
l'm outside.
I'll call you when I get there.
OK
Yes
No
Thanks

Message
Stuck in traffic.
Call me later.
LOL

### **Receiving a Text Message**

**Note:** If you select View and your vehicle is traveling over 3 mph (5 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 cell phone. You can select:

Message	Action and Description
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**

### To enter the phone settings menu select:

Message	Action and Description
Phone	
Settings	
Then any of the following:	
Bluetooth Devices	Connect, disconnect, add or delete a device, as well as save it as a favorite.
Bluetooth	To turn Bluetooth off or on.
Do Not Disturb	If you want all calls to go directly to your voicemail and not ring in the vehicle. When this feature is on, text message notifications do not ring inside the cabin either.
911 Assist	Turn the 911 Assist feature on and off. See <b>Information</b> (page 432).
Phone Ringer	Select the ring tone you want to hear when you receive a call. Choose from possible system ring tones, your currently paired cell phone's ring tone, a beep, text-to-speech or a silent notification.
Text Message Notification	Select a text message notification, if supported by your cell phone. Choose from possible system alert tones, text-to-speech or silent.

Message	Action and Description
Internet Data Connection	If your cell phone is compatible, use this screen to adjust your internet data connection. Select to make your connection profile with the personal area network or to turn off your connection. You can also choose to adjust your settings or have the system always connect, never connect when roaming or query on connect. Press ? for more information.
Manage Phonebook	To access features such as automatic phonebook download, re-download your phonebook, add contacts from your cell phone as well as delete or upload your phonebook.
Roaming Warning	To have the system alert you when your cell phone is in roaming mode.

### **Phone Voice Commands**



# Press the voice button and when prompted say any of the following or a similar command:

Voice command
Call Voicemail
Listen to Message
Reply to Message
Pair Phone
Help

### INFORMATION



Item	Message
А	SYNC Services
В	Travel Link
С	Alerts
D	Calendar
Е	Apps
F	Where Am I?



If your vehicle is equipped with Navigation, press the

**Information** button to access these features. If your vehicle is not equipped with Navigation, press the corner of the touchscreen with the green tab.

# SYNC Services (If Equipped, United States Only)

**Note:** SYNC Services varies by trim level and model year and may require a subscription. Traffic alerts and turn-by-turn directions available in select markets. Message and data rates may apply. Ford Motor Company reserves the right to change or discontinue this product service at any time without prior notification or incurring any future obligation.

**Note:** SYNC Services requires activation before use. Visit 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. See **Phone** (page 424).

**Note:** This feature does not function properly if you have enabled caller ID blocking on your cellular phone. Make sure your cellular 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 provided are only 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 your 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. 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. If you do not want Ford or its service providers to collect your vehicle travel information or other information identified in the Terms and Conditions, do not subscribe 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.

### **Connecting to SYNC Services**

You can connect to SYNC Services using voice commands or by selecting a menu item on the touchscreen.

### To use voice commands, press the voice button and say:

Voice Command	Action and Description
Services	This initiates an outgoing call to SYNC Services using your paired and connected Bluetooth-enabled cellular phone. Once you connect to the service, follow the voice prompts to request the desired service, for example traffic or directions.
Once connected to SYNC Services, you can also say the following:	
What Can I Say	Receive a list of available services from which to choose.
Services	To return to the Services main menu.
Help	Receive system help.

If your vehicle is equipped with Navigation, press the **I (Information)** button. If your vehicle is not equipped with Navigation, press the green tab on your touchscreen.

#### To use the touchscreen select:

Menu Item
Connect to Services

This command initiates an outgoing call to SYNC Services using your paired and connected Bluetooth-enabled cellular phone. Once you connect to the service, follow the voice prompts to request the desired service.

### **Receiving Turn-by-Turn Directions**

### Press the voice button and say:

Voice Command	Action and Description
Directions	To receive directions to a location. Once you select your destination, the system uploads your current vehicle location, calculates a route based on current traffic conditions and sends it back to your vehicle. After the route download is complete, the phone call automatically ends. You then receive audible and visual driving instructions as you travel toward your destination.
Business Search	To find a business or type of business. Once you select your destination, the system uploads your current vehicle location, calculates a route based on current traffic conditions and sends it back to your vehicle. After the route download is complete, the phone call automatically ends. You then receive audible and visual driving instructions as you travel toward your destination.
Search near me	To find the closest business or type of business to your location, within business search.
Operator	Provides you with further assistance within Directions and Business Search. The system may prompt you to speak with an operator when it has difficulty matching your voice request. The live operator can assist you by searching for businesses by name or by

Voice Command	Action and Description
	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.
Yes [During an active route]	If you miss a turn, SYNC automatically asks if you want the route updated. Say yes when prompted and the system sends a new route to your vehicle.

### **Disconnecting from SYNC Services**

To use the steering wheel controls, press and hold the hang-up phone button on the steering wheel.

# To use voice commands, press the voice button and say:

Voice Command	
Good-bye	

### **SYNC Services Quick Tips**

Tips	
Personalizing	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, for example Detroit Lions, or a news category. You can learn more about personalization by logging onto www.SYNCMyRide.com.
Push to interrupt	Press the voice button at any time (while connected to SYNC Services) to interrupt a voice prompt or an audio clip (such as a sports report) and say your voice command.
Portable	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 SYNC Services and continue enjoying your personalized services.

#### **SYNC Services Voice Commands**



If your vehicle is equipped with Navigation, SYNC Services downloads your requested

destination to the navigation system. The navigation system then calculates the route and provides driving instructions. See **Navigation** (page 444).

If your vehicle is not equipped with Navigation, when a route has been downloaded (non-navigation systems), you can press the voice button on the steering wheel controls and say any of the following commands to receive directions:

#### **Services**

Voice command
Cancel Route
Route Status
Route summary
Update Route
Help

### Sirius Travel Link (If Equipped)

#### WARNING



Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that

you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any handheld device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

**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 for more information.

**Note:** Visit 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.

When you subscribe to Sirius Travel Link, it can help you locate the best gas prices, find movie listings, get current traffic alerts, view the current weather map, get accurate ski conditions and see scores to current sports games.

Menu Item	Actio	on and Description
Traffic on Route	Touch these buttons to identify traffic incidents on your route, nearby your vehicle's current location or near any of your favorite places, if programmed.	
Traffic Nearby		
Fuel Prices	Touch this button to view fuel prices at stations close to your vehicle's location or on an active navigation route.	
Movie Listings	Touch this button to view nearby movie theaters and their show times, if available.	
Weather	Touch this button to view the nearby weather, current weather, or the five day forecast for the chosen area.	
	Мар	Select to see the weather map, which can show storms, radar information, charts and winds.
	Area	Select to choose from a listing of weather locations.
Sports Info	Touch this button to 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.	
Ski Conditions	Touch this button to view ski conditions for a specific area.	

#### **Sirius Travel Link Voice Commands**



# Press the voice button on the steering wheel controls. When prompted, say any of the following or a similar command:

Voice command
Show Traffic
Show Weather
Help

### **Alerts**



If your vehicle is equipped with Navigation, touch the I (Information) button to access

these features. If your vehicle is not equipped with Navigation, touch the corner of the touchscreen with the green tab.

# Press Alerts, then choose from any of the following services:

Message	Action and Description	
View	The complete message	
Delete	The message	
Delete All	Messages	

This screen displays any system messages (such as an SD card fault).

**Note:** The system alerts you to any messages by turning the information icon vellow. After you read or delete the messages, the icon returns to white.

#### Calendar



If your vehicle is equipped with Navigation, touch the I (Information) button to access

these features. If your vehicle is not equipped with Navigation, touch the corner of the touchscreen with the green tab.

Press Calendar. You can view the current calendar by day, week or month.

### 911 Assist

#### **WARNINGS**

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

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.



Always place your phone in a secure location in your vehicle so it does not become a projectile or damaged in

a crash. Failure to do so may cause serious injury to someone or damage the phone. which could prevent 911 Assist from working properly.

**Note:** The SYNC 911 Assist feature must be set on prior to the incident.

**Note:** Before setting this feature on, make sure that you read the 911 Assist Privacy Notice later in this section for important information.

**Note:** If any user turns 911 Assist on or off. that setting applies for all paired phones. If 911 Assist is turned off, either a voice message plays or a display message (or icon) comes on (or both) when your 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, excluding knee airbags and rear inflatable safety belts where fitted 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 the 911 Assist feature visit:

#### Website

visit www.SYNCMvRide.com www.SYNCMyRide.ca www.svncmaroute.ca

See Supplementary Restraints System (page 38). Important information regarding airbag deployment is in this chapter.

See Roadside Emergencies (page 226). Important information regarding the fuel pump shut-off is in this chapter.

### Setting 911 Assist On



If your vehicle is equipped with Navigation, touch the I (Information) button to access these features. If your vehicle is not equipped with Navigation, touch the corner of the touchscreen with the green tab. Then select:

Message
Apps
911 Assist
On



# You can also access 911 Assist by pressing:

Message
Settings
Phone
911 Assist
Or you can also select:
Help
911 Assist

To make sure that 911 Assist works properly:

- SYNC must be powered and working properly at the time of the incident and throughout feature activation and use.
- The 911 Assist feature must be set on prior to the incident.
- You must pair and connect a Bluetooth-enabled and compatible phone to SYNC.

- A connected Bluetooth-enabled phone must have the ability to make and maintain an outgoing call at the time of the incident.
- A connected Bluetooth-enabled phone must have adequate network coverage, battery power and signal strength.
- The vehicle must have battery power and be located in the United States, 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 trigger 911 Assist); however, SYNC tries to contact emergency services if 911 Assist triggers. If a connected phone sustains damage 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 (approximately 10 seconds) to cancel the call. If you fail to cancel the call, SYNC attempts to dial 911.
- SYNC says the following, or a similar message: "SYNC will attempt to call 911, to cancel the call, press Cancel on your screen or press and hold the phone button on your steering wheel."

If you do not cancel the call, and SYNC makes a successful call, a pre-recorded message plays for the 911 operator, and then the occupant(s) in your vehicle 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 sustains damage in a crash.
- The vehicle's battery or the SYNC system has no power.
- The phones(s) previously paired or connected to the system are thrown from the vehicle

### 911 Assist Privacy Notice

When you turn on 911 Assist, it may disclose to emergency services that your vehicle has been in a crash involving the deployment of an airbag or activation of the fuel pump shut-off. Certain versions or updates to 911 Assist may also be capable of electronically or verbally disclosing to 911 operators your vehicle location or other details about your vehicle or crash to assist 911 operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not turn the feature on.

# Vehicle Health Report (If Equipped, US 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 electronically monitored by your vehicle and will not monitor or report the status of any other system, (such as 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 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 cellular phone. Before running a report, review the 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. After registering, you can request a Vehicle Health Report (inside your vehicle). Return to your account at www.SYNCMyRide.com to view your report. You can also choose for SYNC to remind you automatically 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 a diagnostic report card. The Vehicle Health Report contains valuable information, for example:

- Vehicle diagnostic information.
- Scheduled maintenance.
- Open recalls and Field Service Actions.
- Items noted during vehicle inspections by your authorized dealer that still need servicing.

#### **Making a Report**



# If you want to run a report by using the touchscreen, select:

Message
Apps
Vehicle Health Report



You can also run a vehicle health report by voice command.

# Press the voice button and when prompted say:

Voice command
Vehicle Health Report

### **Vehicle Health Report Privacy Notice**

When you create 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 more vehicle information. Ford may use your 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. See www.SYNCMyRide.com (Vehicle Health Report Terms and Conditions, and Privacy Statement) for more information.

#### Where Am I?

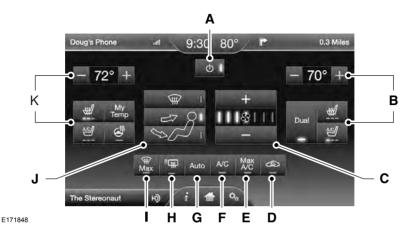
# For information about your current location, select:

Message	Action and Description
Where Am I?	View your vehicle's current location, if your vehicle is equipped with navigation. If your vehicle is not equipped with navigation, nothing displays.

#### **CLIMATE**

Touch the lower right corner on the touchscreen to access your climate control features. Depending on your vehicle line and option package, your climate screen may look different from this screen.

**Note:** You can switch temperature units between Fahrenheit and Celsius. See **Settings** (page 395).



A **Power:** Touch the button to switch the system on and off. Switching off the climate control system prevents outside air from entering the vehicle.

### B Passenger settings:

Touch the + or - to increase or decrease the air temperature on the passenger side of the vehicle.

Touch the heated seat icon to switch the heated seat off and on (if equipped).

Touch the climate-controlled seat icon to switch the climate-controlled seat off and on (if equipped).

Touch **Dual** to switch separate passenger side temperature controls off and on. When you switch off **Dual**, the passenger side temperature changes to match the driver side temperature.

**Note:** The passenger side temperature and the **Dual** indicator automatically turn on when the passenger is adjusting their temperature control.

C **Fan speed:** Touch **+** or **-** to increase or decrease the volume of air circulated in your vehicle.

**Note:** When the system is controlling the fan speed automatically, all the fan speed indicators turn off.

D **Recirculated air:** Touch the button to switch between outside air and recirculated air. When you select recirculated air, the air currently in the passenger compartment recirculates. This may reduce the time needed to cool the interior (when used with **A/C**) and may reduce unwanted odors from entering your vehicle.

**Note:** Recirculated air may turn off automatically (or be prevented from turning on) in all airflow modes except **Max A/C** to reduce risk of fogging. Recirculated air may also turn on and off automatically in **Panel** or **Panel and Floor** airflow modes during hot weather in order to improve cooling efficiency.

- E **Max A/C:** Touch the button to maximize cooling. Recirculated air flows through the instrument panel vents, air conditioning automatically turns on, and the fan automatically adjusts to the highest speed.
- F **A/C:** Touch the button to switch air conditioning compressor on or off. Use air conditioning with recirculated air to improve cooling performance and efficiency.
  - **Note:** In certain conditions (such as when using Max Defrost), the air conditioning compressor may continue to operate even after you switch off the air conditioning with the **A/C** button.
- G **Auto:** Touch the button to switch on automatic operation. Select the desired temperature using the temperature control. The system adjusts fan speed, air distribution, air conditioning operation, and selects outside air or recirculated air to heat or cool the vehicle in order to maintain the desired temperature. You can also use the **Auto** button to switch off dual zone operation by touching and holding the button for more than two seconds.
- H **Heated rear window:** Turns the heated rear window on and off. See **Heated Windows and Mirrors** (page 128).
- I **Max Defrost:** Touch the button to maximize defrosting. Outside air flows through the windshield vents, fan automatically adjusts to the highest speed and the temperature dial returns to the full heat position. You can use this setting to defog or clear a thin covering of ice from the windshield. The heated rear window also automatically turns on when you select Max Defrost.
- J **Air distribution control:** Touch these buttons to switch airflow from the windshield, instrument panel, or footwell vents on or off. The system can distribute air through any combination of these vents.

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

### **K** Driver settings:

Touch the + or - to increase or decrease the air temperature on the driver side of the vehicle.

Touch the heated seat icon to switch the heated seat off and on (if equipped).

Touch the climate-controlled seat icon to switch the climate-controlled seat off and on (if equipped).

Touch **MyTemp** to select your preset temperature setpoint. Touch and hold **MyTemp** to save a new preset temperature setpoint.

Touch the heated steering wheel icon to switch the heated steering wheel on and off (if equipped).

**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**



Press the voice button on the steering wheel controls. When prompted, say any of the

following or a similar command:

	Voice commands
Climate On	
Climate Off	
Set temperature	Adjust the temperature to between 15.0 - 30.0°C or 59 - 86°F.

### **NAVIGATION**

**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 an 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.

#### **Destination Mode**

# To set a destination, press the green corner of your touchscreen, then press:

Menu Item
Dest.
Choose any of the following:
My Home
Favorites
Previous Destinations

Menu Item
Point of Interest
Emergency
Street Address
Intersection
City Center
Мар
Edit Route
Cancel Route

To set your destination, enter the necessary information into the highlighted text fields (in any order).

### For an address destination entry, press:

Menu Item	Action and Description
Go	Pressing this button makes the address location appear on the map.

# To choose a previous destination, press:

Menu Item	Action and Description
Previous Destinations	The last 20 destinations you have selected appear.

### Once you have chosen your destination press:

Menu Item	Action and Description		
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. You can then choose your route from three different options.		
	Fastest Route Uses the fastest moving roads possible.		
	Shortest Route Uses the shortest distance possible Eco Route Uses the most fuel-efficient route.		

### To begin navigation press:

Menu Item	Action and Description
Start Route	You can cancel the route or have the system demo the route for you.  During route guidance, you can press the talking bubble icon that appears in the upper right navigation corner (green bar) if you want the system to repeat route guidance information. When the system repeats the last guidance instruction, it updates the distance to the next guidance instruction, since it detects when the vehicle is moving.

**Note:** If your vehicle is on a recognized road and you do not press the **Start Route** button, the system defaults to the Fastest Route option and begins guidance.

### Point of Interest (POI) Categories

Main Categories
Food/Drink & Dining
Travel & Transportation
Financial
Emergency
Community
Health & Medicine
Automotive
Shopping
Entertainment & Arts
Recreation & Sports
Government
Domestic Services

Subcategories
Restaurant
Golf
Parking
Home & Garden
Personal Care Services
Auto Dealership
Govt Office
Public Transit
Education

To expand these listings, press the + in front of the listing.

The system also allows you to sort alphabetically, by distance or by cityseekr listings (if available).

### cityseekr

**Note:** cityseekr point of interest (POI) information is limited to approximately 912 cities (881 in the United States, 20 in Canada and 11 in Mexico).



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cityseekr, when available, is a service that provides more information about certain points of interest such as restaurants, hotels and attractions.

When you have selected a point of interest, the location and information appear, such as address and phone number. If cityseekr lists the point of interest, more information is available, such as a brief description, check-in and checkout times or restaurant hours.

For a longer review, a list of services and facilities, the average room, meal price or the website press:

# Menu Item More Information

This screen displays the point of interest 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 more information for hotels, cityseekr also tells you if the hotel has certain services and facilities using icons, such as:

- Restaurant
- Business center
- Handicap facilities
- Laundry

- Refrigerator
- · 24 hour room service
- Fitness center
- Internet access
- Pool
- Wi-Fl

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 and checkout times, hotel service icons and website address.

# Setting Your Navigation Preferences



Select settings for the system to take into account when planning your route.

### To access the settings options, press

	Menu Item
Settings	
Navigation	

You can then select any of the following options.

Menu Item	Second Level Messages, Actions and Descriptions		
Map Preferences			
Then select any of the following:			
Breadcrumbs	Display your vehicle's previously traveled route with white dots. You can switch this feature:		
	On	Off	
Turn List Format	Have the system display your turn list		

Menu Item	Second Level Messages, Actions and Descriptions		
	Top to Bottom Bottom to Top		
Parking POI Notification	When parking point of interest notification is on, the 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 when other points of interest display. Set the automatic parking point of interest notification. You can switch this feature:		
	On Off		

Menu Item	Second Level Messages, Actions and Descriptions		
Route Preferences			
Then select any	of the following	g:	
Preferred Route	Choose to have the system display your chosen route type.		
	Shortest Route Fastest Route Ecological		Ecological
Always use Preferred Route	Bypass route selection in destination programming. The system only calculates one route based on preferred route setting. When activated, the system uses your selected route type to calculate only one route to the desired destination.		
Eco Time Penalty	Select a level of cost for the calculated Eco Route. The higher the setting, the longer the time allotment is for the route.		
Avoid	When activated, you can to choose to have the system avoid highways, toll roads, ferries, and car trains when planning your route.		
Use HOV Lanes	Have the system use high-occupancy vehicle lanes, if available, when planning your route.		

Menu Item Second Level Messages, Actions and Descriptions			
Navigation Preferences			
Then select any of the following:			
Guidance Prompts	nce Prompts Select the type of prompts the system uses.		

Menu Item	Second Level Messages, Actions and Descriptions		
	Tones Only Voice and Tones		
Auto - Fill State/Province	Have the system automatically fill in this information based on what you have already entered into the system. You can switch this feature:		
On Off		Off	

Menu Item	Second Level Messages, Actions and Descriptions			
Traffic Preferences	Traffic Preferences			
Then select any of the	following:			
Avoid Traffic Problems	You can choose how you want the system to handle traffic problems along your route.			
	Automatic	Have the system reroute you to avoid traffic incidents that develop and impact the current route. The system does not provide a traffic alert notification		
	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 making the route deviation.		
Traffic alert notification	Activate traffic alert notifications on or off.			
You are also able to switch on and off the 11 traffic map icons.	These icons will alert you to traffic and driving conditions including accidents, closures and weather conditions.			

Menu Item	Second Level Messages, Actions and Descriptions
Avoid Areas	Choose areas which you want the system to avoid when calculating a route for you
Then select any of the	following:
Add	Once you make a selection, the system tries to avoid the area(s) if possible for all routes. Select this button to program an entry, then choose a destination entry method. You can edit the name or location of a destination or remove it from your selections.
Delete	To remove an area from your selection, choose the listing on the screen. The screen will change, then press delete and confirm the deletion.

### **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 that 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.



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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 miles (4 kilometers). The system remembers this setting for larger map scales, but shows the map in North up only. If the scale returns below this level, the system restores Heading up.



**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 touching the map twice, and then dragging your finger along the shaded bar with arrows at the bottom of the map.

### You can also select the following options:

Menu Items	Description
View	Switches between full map, street list and exit view in route guidance.
Menu	Displays a pop-up box that allows direct access to navigation settings.



Press the speaker button on the map to mute route guidance. When the light on the button

illuminates, the feature is on. The speaker button appears on the map only when route guidance is active.



Re-center the map by pressing this icon whenever you scroll the map away from your vehicle's

current location.

#### **Auto Zoom**

Press the green bar to access map mode. then select the + or - zoom button to bring up the zoom level and Auto buttons on the touchscreen. When you press **Auto**. Auto Zoom turns on and **Auto** displays in the bottom left corner of the screen in the map scale. The map zoom level then

synchronizes with vehicle speed. The slower your vehicle is traveling, the farther the map zooms in; the faster your vehicle is traveling, the farther the map zooms out. To switch off the feature, just press the + or - button again.

In 3D mode, rotate the map view by swiping your finger across the shaded bar with the arrows

The FTA box under the zoom buttons appears when a route is active and displays the distance and time to your destination. If the button is pressed, a pop up appears with the destination listed (and waypoint if applicable) along with mileage and time to destination. You may also select to have either the estimated time to reach your destination or your estimated arrival time.

### Map Icons



Vehicle mark shows the current location of your vehicle. It stays in the center of the map display. except when in scroll mode.



Scroll cursor allows you to scroll the map; the fixed icon is 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) indicates 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. You can select from any of the 22 icons available. You can use each icon more than once.



**Home** indicates the location on the map currently stored as the home position. You can only save one address from the Address

Book as your Home entry. You cannot change this icon.



POI (Point Of Interest) icons indicate locations of any point of interest categories you choose to

display on the map. You can choose to display three point of interest categories on the map at one time.



Starting point indicates the starting point of a planned route.



list.

**Wavpoint** 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 wavpoint in the route



**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 display

under normal operation in an area with poor GPS access.

### **Ouick-touch Buttons**

When in map mode, touch anywhere on the map display to access the following options:

Menu Item		Action and Description		
Set as Dest	your destination. Y	Touch this button to 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 touch this button.		
Set as Waypoint	Touch this button	Touch this button to set the current location as a waypoint.		
Save to Favorites	Touch this button	Touch this button to save the current location to your favorites.		
POlicons	can select up to th	Touch this button to select icons to display on the map. You can select up to three icons to display on the map at the same time. You can switch these features:		
	On	Off		
View / Edit Route	When on an active	When on an active route, select any of the following options:		
	View Route	View Route		
	Edit Destination/V	Edit Destination/Waypoints		
	Edit Turn List	Edit Turn List		
	Detour			

Menu Item	Action and Description
	Edit Route Preferences
	Edit Traffic Preferences
	Cancel Route

HERE is the digital map provider for the navigation application. If you find map data errors, you may report them directly to HERE by going to

www.here.com/mapcreator. HERE 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 1-866-462-8837 (in Mexico, call 01-800-557-5539) or going to www.navigation.com/sync. 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 or a similar command:

Voice command		
Destination		
Zoom Out		
Zoom In		
Where Am I		
Help		

# The following commands can only be used when a navigation route is active:

Voice command
Detour
Cancel Route
Show Route
Repeat Instruction
Turn List

#### **One-shot Destination Street Address**

# To set a destination with voice commands, you can say:

	-
Voice Command	Action and Description
Find an 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".

# MYFORD TOUCH™ TROUBLESHOOTING

Your SYNC system is easy to use. However, should questions arise, see the tables below.

Use the website at any time to check your phone's compatibility, register your account and set preferences as well as access a customer representative via an online chat (during certain hours). For more information visit:

# www.SYNCMyRide.com www.SYNCMyRide.ca www.syncmaroute.ca

Phone issues		
Issue	Possible cause(s)	Possible solution(s)
There is excessive back- ground noise during a phone call.	The audio control settings on your phone may be affecting SYNC performance.	Review your phone's manual about audio adjustments.
During a call, I can hear the other person but they cannot hear me.	This may be a possible phone malfunction.	Try turning off the device, resetting the device, removing the device's battery, then trying again.
SYNC is not able to download my phonebook.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again. Try pushing your phonebook contacts to SYNC. See <b>Phone</b> (page 424). Use the SYNCmyphone feature available on the website.
The system says that the phonebook has downloaded but the phonebook in SYNC is empty or missing contacts.	This may be a limitation on your phone's capability.	Try pushing your phonebook contacts to SYNC. See <b>Phone</b> (page 424). If the missing contacts are stored on your SIM card, try moving them to the device memory. Remove any pictures or special ring tones associated with the missing contact.

Phone issues		
Issue	Possible cause(s)	Possible solution(s)
		Depending upon your phone, you may have to grant SYNC permission to access your phonebook contacts. Make sure to confirm when prompted by your phone during the phonebook download.
I am having trouble connecting my phone to SYNC.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again. Try deleting your device from SYNC, deleting SYNC from your device and trying again. Check the security and auto accept and prompt always settings relative to the SYNC Bluetooth connection on your phone. Update your device's firmware. Turn off the Auto phonebook download setting. You can also preform the MyFord Touch reset procedure.
Text messaging is not working on SYNC.	This is a phone-dependent feature. This may be a possible phone malfunction.	Go to the website to review your phone's compatibility. Try turning off the device, resetting the device or removing the device's battery, then trying again.

USB and media issues			
Issue	Possible cause(s)	Possible solution(s)	
I am having trouble connecting my device.	This may be a possible device malfunction.	Try turning off the device, resetting the device, removing the device's battery, then trying again. Make sure you are using the manufacturer's cable. Make sure you insert the USB cable correctly into the device and the USB port. Make sure that the device does not have an autoinstall program or active security settings.	
SYNC does not recognize my device when I turn on the car.	This is a device limitation.	Make sure you are not leaving the device in your vehicle during very hot or cold temperatures.	
Bluetooth audio does not stream.	This is a phone-dependent feature. The device is not connected.	Review the device compatibility chart on the SYNC website to confirm your phone supports the Bluetooth audio streaming function.  Make sure you correctly connect the device to SYNC, and that you have pressed play on your device.  You can also preform the MyFord Touch reset procedure.	
SYNC does not recognize music that is on my device.	Your music files may not contain the correct artist, song title, album or genre information. The file may be corrupted. The song may have copyright protection, which does not allow it to play.	Make sure that all song details are populated. Some devices require you to change the USB settings from mass storage to MTP class.	

Vehicle Health Report and Services (Traffic, Directions and Information) issues		
Issue	Possible cause(s)	Possible solution(s)
I received a text that I did not activate Vehicle Health Report.	You did not activate your account on the website. You may have the wrong VIN (vehicle identification number) listed.	This is a free feature, but you must first register online to use it. Make sure that your VIN is correctly listed in your account.
I am unable to retrieve the report on the website, or I receive a system error.	The preferred dealer information did not load correctly.	When you register your account, you must choose a preferred dealer. If it already lists a dealer, try selecting another dealer and logging out. Log back in, change it back to your preferred dealer, and retrieve the report.
I am unable to submit a report.	This could be due to your phone's compatibility. Bad signal strength. You did not register your phone correctly on the website.	Update your cellular number in your account on the website. Make sure you have full signal strength and that your Bluetooth volume level has been turned up. Make sure the currently connected phone is registered on your SYNCMyRide account. Try deleting your phone and performing a clean pairing.
I heard a commercial when I tried to use Traffic, Direc- tions and Information.	You did not activate this phone for this service. Your phone has ID blocker active.	This is a free feature, but you must first register online to use it. Turn off ID blocker on your phone as the system recognizes you by your phone number. Make sure the currently connected phone is the same one that is registered on your SYNCMyRide account.

Voice command issues			
Issue	Possible cause(s)	Possible solution(s)	
SYNC does not understand what I am saying.	You may be using the wrong voice commands. You may be speaking too soon or at the wrong time.	Review the phone voice commands and the media voice commands at the beginning of their respective sections.  After pressing the voice icon, wait until the system prompts you to begin saying a command. Any command spoken before this does not register with the system.	
SYNC does not understand the name of a song or artist.	You may be using the wrong voice commands. You may be saying the name differently than the way you saved it. The system may not be reading the name the same way you are saying it.	Review the media voice commands at the beginning of the media section. Say the song or artist exactly as listed. If you say "Play Artist Prince", the system does not play music by Prince and the Revolution or Prince and the New Power Generation. Make sure you are saying the complete title, such as "California remix featuring Jennifer Nettles". If the song titles are in all CAPS, you have to spell them. LOLA requires you to say "L-O-L-A". Do not use special characters in the title. The system does not recognize them.	
SYNC does not understand or is calling the wrong contact when I want to make a call.	You may be using the wrong voice commands. You may be saying the name differently than the way you saved it. The system may not be reading the name the same way you are saying it.	Review the Phone voice commands at the beginning of the phone section.  Make sure you are saying the contacts exactly as they are listed. For example, if you save a contact as Joe Wilson, say "Call Joe Wilson".	

Voice command issues		
Issue	Possible cause(s)	Possible solution(s)
	Contacts in your phonebook may be very short and similar, or they may contain special characters. Your phonebook contacts may be in CAPS.	Using the SYNC phone menu, open the phonebook and scroll to the name SYNC is having trouble understanding. SYNC will read the name to you, giving you some idea of the pronunciation SYNC is expecting. The system works better if you list full names, such as "Joe Wilson" rather than "Joe". Do not use special characters, such as 123 or ICE, as the system does not recognize them. If a contact is in CAPS, you have to spell it. JAKE requires you to say "Call J-A-K-E".

### **Touchscreen System Reset**

The touchscreen system has a system reset feature that can be performed if the function of a SYNC feature is lost. This reset is intended to restore functionality and will not erase any information previously stored in the system (such as paired devices, phonebook, call history, text messages, or user settings). To perform a System Reset, press and hold the Seek Up (>>) button while pressing and holding the Radio Power button. After approximately 5 seconds the screen will go black. Allow a 1-2 minutes for the system reset to complete. You may then resume using the SYNC system.

### Accessories

For a complete listing of the accessories that are available for your vehicle, please contact your authorized dealer or visit our online store at:

#### Web Address

www.Accessories.Ford.com

#### You can also visit:

#### Web Address

www.Ford.ca

Ford Accessories are available for your vehicle through your local Ford or Ford of Canada authorized dealer. Ford Motor Company will repair or replace any properly authorized dealer-installed Ford accessory found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessories.

Ford Motor Company will warrant your vehicle's accessories through the warranty that provides the greatest benefit:

- 24 months, unlimited mileage.
- The remainder of your new vehicle limited warranty.

Contact your authorized dealer for details and a copy of the warranty.

### **Exterior style**

- Bumper protectors.
- Rear spoiler.
- Side window deflectors.
- Splash guards.
- Wheels.

### Interior style

- All-weather floor mats.
- Door sill plates.

- Electrochromatic compass/temperature interior mirrors.
- Premium carpeted floor mats.
  - Rear seat entertainment\*.

### Lifestyle

- · Ash cup or smoker's packages.
- Car covers\*.
- Cargo area protectors.
- Cargo net.
- Cargo organizers.
- · Interior light kit.
- Roof racks and carriers\*.

#### Peace of mind

- Bumper-mounted parking sensor\*.
- Keyless entry keypad.
- Locking fuel plug for capless fuel system.
- Remote start.
- Vehicle security systems.
- Wheel locks.

\*The accessory manufacturer designs, develops and therefore warrants Ford Licensed Accessories, and does not design or test these accessories to Ford Motor Company engineering requirements. Contact an authorized Ford dealer for the accessory manufacturer's limited warranty details and request a copy of the Ford Licensed Accessories product limited warranty from the accessory manufacturer.

### **Accessories**

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Ask an authorized dealer for specific weight information.
- The Federal Communications
   Commission (FCC) and Canadian
   Radio Telecommunications
   Commission (CRTC) regulate the use
   of mobile communications systems
   that are equipped with radio
   transmitters, for example, two-way
   radios, telephones and theft alarms.
   Any such equipment installed in your
   vehicle should comply with Federal
   Communications Commission (FCC)
   and Canadian Radio
   Telecommunications Commission
   (CRTC) regulations and should be
   installed only by an authorized dealer.
- Mobile communications systems may harm the operation of your vehicle, particularly if their manufacturer did not design them specifically for automotive use.
- If you or an authorized Ford dealer add any non-Ford electrical or electronic accessories or components to your vehicle, you may adversely affect battery performance and durability. In addition, you may also adversely affect the performance of other electrical systems in the vehicle.

# **Extended Service Plan (ESP)**

PROTECT YOURSELF FROM THE RISING COST OF VEHICLE REPAIRS WITH A FORD EXTENDED SERVICE PLAN.

### **SERVICE PLANS (U.S. Only)**

More than 32 million Ford owners have discovered the powerful protection of Ford Extended Service Plan. It is the extended service plan backed by Ford Motor Company, and provides peace of mind protection beyond the New Vehicle Limited Warranty coverage.

### Ford ESP Can Quickly Pay for Itself

One service bill – the cost of parts and labor – can easily exceed the price of your Ford Extended Service Plan. With Ford ESP you minimize your risk for unexpected repair bills and rising repair costs.

# Up to 1,000+ Covered Vehicle Components

There are four core Extended Service Plans with different levels of coverage. Ask your authorized dealer for details.

- PremiumCARE Our most comprehensive coverage. With over 1,000 covered components, this plan is so complete that we generally only discuss what's not covered.
- 2. ExtraCARE Covers 113 components, and includes many high-tech items.
- 3. BaseCARE Covers 84 components.
- PowertrainCARE Covers 29 critical components.

Ford Extended Service Plan is honored by all authorized Ford dealers in the U.S., Canada and Mexico. It is the extended service plan authorized and backed by Ford Motor Company.

That means you get:

- Reliable, quality service at any Ford or Lincoln dealership
- Repairs performed by factory trained technicians, using genuine parts

#### Rental Car Reimbursement

#### 1st day Rental Benefit

You take advantage of replacement transportation if your vehicle is at your authorized dealer for same day covered repairs.

#### Extended Rental Benefits

If your vehicle is kept overnight for covered repairs, you are eligible for rental car coverage, including bumper to bumper warranty repairs, and Field Service Actions.

#### **Roadside Assistance**

Exclusive 24/7 roadside assistance, including:

- Towing, flat-tire change and battery jump starts
- Out of fuel and lock-out assistance.
- Travel expense reimbursement for lodging, meals and rental car.
- Destination assistance for taxi, shuttle, rental car coverage and emergency transportation.

### Transferable Coverage

If you sell your vehicle before your Ford Extended Service Plan coverage expires, you can transfer any remaining coverage to the new owner. Whenever you sell your vehicle, prospective buyers may have a higher degree of confidence that vehicle was properly maintained with Ford ESP, thereby improving resale value.

### **Extended Service Plan (ESP)**

# Avoid the Rising Cost of Properly Maintaining Your Vehicle!

Ford Extended Service Plan also offers a Premium Maintenance Plan that covers all scheduled maintenance, and selected wear items. The coverage is prepaid, so you never have to worry about affording your vehicle's maintenance. It covers regular checkups, routine inspections, preventive care and replacement of select items that require periodic attention for normal wear:

- Windshield wiper blades.
- Spark plugs.
- The clutch disc.
- Brake pads and linings.
- Shock absorbers.
- Struts
- Engine Belts.
- Engine coolant hoses, clamps and o-rings.
- Diesel exhaust fluid replenishment.

### Interest Free Finance Options Available

Take advantage of our interest free installment payment plan. Just a 10% down payment will provide you with an affordable, no interest, no fee payment program allowing you all the security and benefits Ford ESP has to offer while paying over time. You are pre-approved with no credit checks, no hassles! To learn more, call our Ford ESP specialists at 800-367-3377.

Ford ESP P.O. Box 321067 Detroit, MI 48232

### SERVICE PLANS (CANADA ONLY)

You can get more protection for your vehicle by purchasing a Ford Extended Service Plan. Ford Extended Service Plan is the only service contract backed by Ford Motor Company of Canada, Limited. Depending on the plan you purchase, Ford Extended Service Plan provides benefits such as:

- · Rental reimbursement.
- Coverage for certain maintenance and wear items.
- Protection against repair costs after your New Vehicle Limited Warranty Coverage expires.
- Roadside Assistance benefits.

There are several Ford Extended Service Plans available in various time, distance and deductible combinations. Each plan is tailored to fit your own driving needs, including reimbursement for towing and rental. When you purchase Ford Extended Service Plan, you receive added peace-of-mind protection throughout Canada, the United States and Mexico, provided by a network of participating authorized Ford Motor Company dealers.

**Note:** Repairs performed outside of Canada, the United States and Mexico are not eligible for Ford Extended Service Plan coverage.

This information is subject to change. For more information, visit your local Ford of Canada dealer or www.ford.ca to find the Ford Extended Service Plan that is right for you.

### **Scheduled Maintenance**

# 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 help to increase the value of your vehicle when you sell or trade it. Keep all receipts for completed maintenance with your vehicle.

We have established regular maintenance intervals for your vehicle based upon rigorous testing. It is important that you have your vehicle serviced at the proper times. These intervals serve two purposes; one is to maintain the reliability of your vehicle and the second is to keep your cost of owning your vehicle down.

It is your responsibility to have all scheduled maintenance performed and to make sure that the materials used meet the specifications identified in this owner's manual. See **Capacities and Specifications** (page 313).

Failure to perform scheduled maintenance invalidates warranty coverage on parts affected by the lack of maintenance.

# Why Maintain Your Vehicle at Your Dealership?

### **Factory-Trained Technicians**

Service technicians participate in extensive factory-sponsored certification training to help them become experts on the operation of your vehicle. Ask your dealership about the training and certification their technicians have received.

# Genuine Ford and Motorcraft® Replacement Parts

Dealerships stock Ford, Motorcraft and Ford-authorized branded re-manufactured replacement parts. These parts meet or exceed our specifications. Parts installed at your dealership carry a nationwide 24-month or unlimited mile (kilometer) parts and labor limited warranty.

If you do not use Ford authorized parts they may not meet our specifications and depending on the part, it could affect emissions compliance.

#### Convenience

Many dealerships have extended evening and Saturday hours to make your service visit more convenient and they offer one stop shopping. They can perform any services that are required on your vehicle, from general maintenance to collision repairs.

**Note:** Not all dealers have extended hours or body shops. Please contact your dealer for details.

### **Protecting Your Investment**

Maintenance is an investment that pays dividends in the form of improved reliability, durability and resale value. To maintain the proper performance of your vehicle and its emission control systems, make sure you have scheduled maintenance performed at the designated intervals.

Your vehicle is equipped with the Intelligent Oil-Life Monitor system, which displays a message in the information display at the proper oil change interval. This interval may be up to one year or 10000 miles (16000 kilometers).

### **Scheduled Maintenance**

When the oil change message appears in the information display, it is time for an oil change. Make sure you perform the oil change within two weeks or 500 miles (800 kilometers) of the message appearing. Make sure you reset the Intelligent Oil-Life Monitor after each oil change. See **Information Messages** (page 105).

If your information display resets prematurely 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 is why it is 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.

We strongly recommend the use of only genuine Ford, Motorcraft or Ford-authorized re-manufactured replacement parts engineered for your vehicle.

#### **Additives and Chemicals**

This owner's manual and the Ford Workshop Manual list the recommended additives and chemicals for your vehicle. We do not recommend using chemicals or additives not approved by us as part of your vehicle's normal maintenance. Please consult your warranty information.

### Oils, Fluids and Flushing

In many cases, fluid discoloration is a normal operating characteristic and, by itself, does not necessarily indicate a concern or that the fluid needs to be changed. However, a qualified expert, such as the factory-trained technicians at your dealership, should inspect discolored fluids that also show signs of overheating or foreign material contamination immediately.

Make sure to change your vehicle's oils and fluids at the specified intervals or in conjunction with a repair. Flushing is a viable way to change fluid for many vehicle sub-systems during scheduled maintenance. It is critical that systems are flushed only with new fluid that is the same as that required to fill and operate the system or using a Ford-approved flushing chemical.

#### **Owner Checks and Services**

Make sure you perform the following basic maintenance checks and inspections every month or at six-month intervals.

#### **Check every month**

Engine oil level.

Function of all interior and exterior lights.

Tires (including spare) for wear and proper pressure.

Windshield washer fluid level.

#### Check every six months

Battery connections. Clean if necessary.

Body and door drain holes for obstructions. Clean if necessary.

Cooling system fluid level and coolant strength.

Door weatherstrips for wear. Lubricate if necessary.

Hinges, latches and outside locks for proper operation. Lubricate if necessary.

Parking brake for proper operation.

Safety belts and seat latches for wear and function.

Safety warning lamps (brake, ABS, airbag and safety belt) for operation.

Washer spray and wiper operation. Clean or replace blades as necessary.

## **Multi-Point Inspection**

In order to keep your vehicle running right, it is important to have the systems on your vehicle checked regularly. This can help identify potential issues and prevent major problems. We recommend having the following multi-point inspection performed at every scheduled maintenance interval to help make sure your vehicle keeps running great.

Multi-Point inspection	
Accessory drive belt(s)	Hazard warning system operation
Battery performance	Horn operation
Engine air filter	Radiator, cooler, heater and air conditioning 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 is a comprehensive way to perform a thorough inspection of your vehicle. Your checklist gives you immediate feedback on the overall condition of your vehicle.

# NORMAL SCHEDULED MAINTENANCE

## **Intelligent Oil-Life Monitor**

Your vehicle is equipped with an Intelligent Oil-Life Monitor that determines when you should change the engine oil based on how your vehicle is used. By using several important factors in its calculations, the monitor helps reduce the cost of owning your vehicle and reduces environmental waste at the same time.

This means you do not have to remember to change the oil on a mileage-based schedule. Your vehicle lets you know when an oil change is due by displaying a message in the information display.

The following table provides examples of vehicle use and its impact on oil change intervals. It is a guideline only. Actual oil change intervals depend on several factors and generally decrease with severity of use.

<sup>\*</sup>If your vehicle is equipped with a temporary mobility kit, check the tire sealant expiration Use By date on the canister. Replace as needed.

When to expect the message prompting you to change your oil		
Interval	Vehicle use and example	
	Normal	
7500-10000 miles (12000-16000 km)	Normal commuting with highway driving No, or moderate, load or towing Flat to moderately hilly roads No extended idling	
	Severe	
5000-7499 miles (8000-11999 km)	Moderate to heavy load or towing Mountainous or off-road conditions Extended idling Extended hot or cold operation	
3000-4999 miles (4800-7999 km)	Extreme	
	Maximum load or towing Extreme hot or cold operation	

## **Normal Maintenance Intervals**

At every oil change interval as indicated by the information display
Change engine oil and filter.**
Rotate the tires.
Perform a multi-point inspection (recommended).
Inspect the automatic transmission fluid level. Consult your dealer for requirements.
Inspect the brake pads, rotors, hoses and parking brake.
Inspect the engine cooling system strength and hoses.
Inspect the exhaust system and heat shields.
Inspect the rear axle and U-joints.
Inspect the half-shaft boots.
Inspect the steering linkage, ball joints, suspension, tie-rod ends, driveshaft and U-joints.

#### At every oil change interval as indicated by the information display

Inspect the tires, tire wear and measure the tread depth.

Inspect the wheels and related components for abnormal noise, wear, looseness or drag.

<sup>\*\*</sup> Reset the Intelligent Oil-Life Monitor after engine oil and filter changes. See **Engine Oil Check** (page 251).

Other maintenance items		
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	Replace spark plugs.	
(160000 km)	Inspect accessory drive belt(s). <sup>3</sup>	
Every 150000 miles (240000 km)	Change automatic transmission fluid.	
	Replace accessory drive belt(s). <sup>4</sup>	

<sup>&</sup>lt;sup>1</sup> Perform these maintenance items within 3000 miles (4800 kilometers) of the last engine oil and filter change. Do not exceed the designated distance for the interval.

<sup>\*</sup>Do not exceed one year or 10000 miles (16000 kilometers) between service intervals.

 $<sup>^{2}</sup>$  Initial replacement at six years or 100000 miles (160000 kilometers), then every three years or 50000 miles (80000 kilometers).

<sup>&</sup>lt;sup>3</sup> After initial inspection, inspect every other oil change until replaced.

<sup>&</sup>lt;sup>4</sup> If not replaced within the last 100000 miles (160000 kilometers).

# SPECIAL OPERATING CONDITIONS SCHEDULED MAINTENANCE

If you operate your vehicle **primarily** in any of the following conditions, you need to perform extra maintenance as indicated. If you operate your vehicle **occasionally** under any of these conditions, it is not necessary to perform the extra maintenance. For specific recommendations, see your dealership service advisor or technician.

Perform the services shown in the following tables when specified or within 3000 miles (4800 kilometers) of the **OIL CHANGE REQUIRED** message appearing in the information display.

- Example 1: The OIL CHANGE REQUIRED message comes on at 28751 miles (46270 kilometers). Perform the 30000-mile (48000-kilometer) automatic transmission fluid replacement.
- Example 2: The OIL CHANGE REQUIRED message has not come on, but the odometer reads 30000 miles (48000 kilometers) (for example, the Intelligent Oil-Life Monitor was reset at 25000 miles [40000 kilometers]). Perform the engine air filter replacement.

Towing a trailer or using a car-top carrier		
As required	Change engine oil and filter as indicated by the information display and perform services listed in the Normal Scheduled Maintenance chart.	
Inspect frequently, service as required	Inspect and lubricate U-joints.	
Every 30000 miles (48000 km)	Change automatic transmission fluid.	
Every 60000 miles (96000 km)	Replace spark plugs.	

Extensive idling or low-speed driving for long distances, as in heavy commercial use (such as delivery, taxi, patrol car or livery)		
As required	Change engine oil and filter as indicated by the informati display and perform services listed in the Normal Scheuled Maintenance chart.	
Inspect frequently, service	Replace cabin air filter.	
as required	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	Replace cabin air filter.	
as required	Replace engine air filter.	
Every 5000 miles (8000 km)	Inspect the wheels and related components for abnormal noise, wear, looseness or drag.	
	Rotate tires, inspect tires for wear and measure tread depth.	
Every 5000 miles (8000 km) or six months	Change engine oil and filter.*	
Titriy of six months	Perform multi-point inspection.	
Every 30000 miles (48000 km)	Change automatic transmission fluid.	

<sup>\*</sup>Reset your Intelligent Oil-Life Monitor after engine oil and filter changes. See **Engine Oil Check** (page 251).

Exclusive use of E85 (flex fuel vehicles only)		
Every oil change	If ran exclusively on E85, fill the fuel tank full with regular unleaded fuel.	

#### **Exceptions**

There are several exceptions to the Normal Schedule:

#### **Axle Maintenance**

Change the axle fluid anytime an axle is submerged in water.

#### California Fuel Filter Replacement

If you register your vehicle in California, the California Air Resources Board has determined that the failure to perform this maintenance item does not nullify the emission warranty or limit recall liability before the completion of your vehicle's useful life. Ford Motor Company, however, urges you to have all recommended maintenance services performed at the specified intervals and to record all vehicle service.

#### **Hot Climate Oil Change Intervals**

Vehicles operating in the Middle East, North Africa, Sub-Saharan Africa or locations with similar climates using an American Petroleum Institute (API) Certified for Gasoline Engines (Certification mark) oil of SM or SN quality, the normal oil change interval is 3000 miles (5000 kilometers).

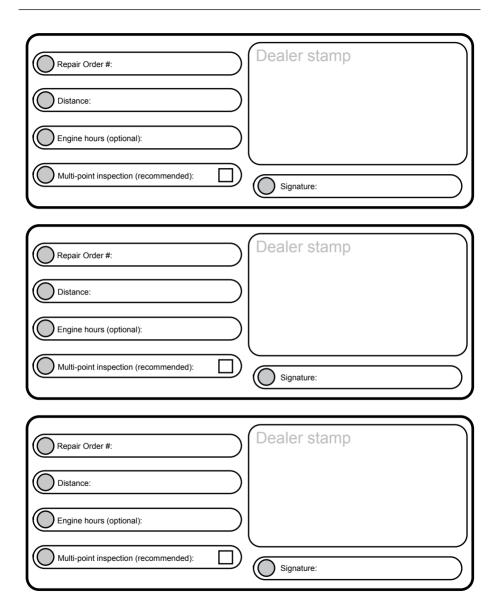
If the available API SM or SN oils are not available, then the oil change interval is 1800 miles (3000 kilometers).

# Engine Air Filter and Cabin Air Filter Replacement

The life of the engine air filter and cabin air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter and cabin air filter.

#### SCHEDULED MAINTENANCE RECORD

Repair Order #:	Dealer stamp
Distance:	
Engine hours (optional):	
Multi-point inspection (recommended):	Signature:



Repair Order #:	Dealer stamp
Distance:	
Engine hours (optional):	
Multi-point inspection (recommended):	Signature:
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Repair Order #:	Dealer stamp
Distance:	
Engine hours (optional):	
Multi-point inspection (recommended):	Signature:

# END USER LICENSE AGREEMENT

# SYNC End User License Agreement (EULA)

- You have acquired a device ("DEVICE") that includes software licensed by Ford Motor Company and its affiliates ("FORD MOTOR COMPANY") from an affiliate of Microsoft Corporation ("MS"). Those installed software products of MS origin, as well as associated media, printed materials, and "online" or electronic documentation ("MS SOFTWARE") are protected by international intellectual property laws and treaties. The MS SOFTWARE is licensed, not sold. All rights reserved.
- The MS SOFTWARE may interface with and/or communicate with, or may be later upgraded to interface with and/or communicate with additional software and/or systems provided by FORD MOTOR COMPANY. The additional software and systems of FORD MOTOR COMPANY origin, as well as associated media, printed materials, and "online" or electronic documentation ("FORD SOFTWARE") are protected by international intellectual property laws and treaties. The FORD SOFTWARE is licensed, not sold. All rights reserved.
- The MS SOFTWARE and/or FORD SOFTWARE may interface with and/or communicate with, or may be later upgraded to interface with and/or communicate with additional software and/or systems provided by third party software and service suppliers. The additional software and services of third party origin, as well as associated media, printed materials, and "online" or electronic documentation ("THIRD PARTY SOFTWARE") are protected by international intellectual property laws and treaties. The THIRD PARTY SOFTWARE is licensed, not sold. All rights reserved.
- The MS SOFTWARE, FORD SOFTWARE and THIRD PARTY SOFTWARE hereinafter collectively and individually will be referred to as "SOFTWARE".

IF YOU DO NOT AGREE TO THIS END USER LICENSE AGREEMENT ("EULA") DO NOT USE THE DEVICE OR COPY THE SOFTWARE. ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DEVICE, WILL CONSTITUTE YOUR AGREEMENT TO THIS EULA (OR RATIFICATION OF ANY PREVIOUS CONSENT).

# **GRANT OF SOFTWARE LICENSE:** This EULA grants you the following license:

 You may use the SOFTWARE as installed on the DEVICE and as otherwise interfacing with systems and/or services provide by or through FORD MOTOR COMPANY or its third party software and service providers.

## Description of Other Rights and Limitations

- Speech Recognition: If the SOFTWARE includes speech recognition component(s), you should understand that speech recognition is an inherently statistical process and that recognition errors are inherent in the process. Neither FORD MOTOR COMPANY nor its suppliers shall be liable for any damages arising out of errors in the speech recognition process.
- Limitations on Reverse Engineering, Decompilation and Disassembly: You may not reverse engineer, decompile, or disassemble nor permit others to reverse engineer, decompile or disassemble the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation.
- Limitations on Distributing,
  Copying, Modifying and Creating
  Derivative Works: You may not
  distribute, copy, make modifications
  to or create derivative works based on
  the SOFTWARE, except and only to the
  extent that such activity is expressly
  permitted by applicable law
  notwithstanding this limitation.
- Single EULA: The end user documentation for the DEVICE and related systems and services may contain multiple EULAs, such as multiple translations and/or multiple media versions (e.g., in the user documentation and in the software). Even if you receive multiple EULAs, you are licensed to use only one (1) copy of the SOFTWARE.

- permanently transfer: You may permanently transfer your rights under this EULA only as part of a sale or transfer of the DEVICE, provided you retain no copies, you transfer all of the SOFTWARE (including all component parts, the media and printed materials, any upgrades, and, if applicable, the Certificate(s) of Authenticity), and the recipient agrees to the terms of this EULA. If the SOFTWARE is an upgrade, any transfer must include all prior versions of the SOFTWARE.
- Termination: Without prejudice to any other rights, FORD MOTOR COMPANY or MS may terminate this EULA if you fail to comply with the terms and conditions of this EULA.
  - Security Updates/Digital Rights Management: Content owners use the WMDRM technology included in vour DEVICE to protect their intellectual property, included copyrighted content. Portions of the SOFTWARE on your DEVICE use WMDRM software to access WMDRM-protected content. If the WMDRM software fails to protect the content, content owners may ask Microsoft to revoke the SOFTWARE's ability to use WMDRM to play or copy protected content. This action does not affect unprotected content. When vour DEVICE downloads licenses for protected content, you agree that Microsoft may include a revocation list with the licenses. Content owners may require you to upgrade the SOFTWARE on your DEVICE to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

- Consent to Use of Data: You agree that MS. Microsoft Corporation, FORD MOTOR COMPANY, third party software and systems suppliers, their affiliates and/or their designated agent may collect and use technical information gathered in any manner as part of product support services related to the SOFTWARF or related services. MS. Microsoft Corporation, FORD MOTOR COMPANY, third party software and services suppliers, their affiliates and/or their designated agent may use this information solely to improve their products or to provide customized services or technologies to vou, MS, Microsoft Corporation, FORD MOTOR COMPANY, third party software and systems suppliers, their affiliates and/or their designated agent may disclose this information to others. but not in a form that personally identifies you.
- Internet-Based Services **Components:** The SOFTWARE may contain components that enable and facilitate the use of certain. Internet-based services. You acknowledge and agree that MS. Microsoft Corporation, FORD MOTOR COMPANY, third party software and service suppliers, their affiliates and/or their designated agent may automatically check the version of the SOFTWARE and/or its components that you are utilizing and may provide upgrades or supplements to the SOFTWARE that may be automatically downloaded to your DEVICE.
- Additional Software/Services: The SOFTWARE may permit FORD MOTOR COMPANY, third party software and service suppliers, MS, Microsoft Corporation, their affiliates and/or their designated agent to provide or make available to you SOFTWARE updates,

supplements, add-on components, or Internet-based services components of the SOFTWARE after the date you obtain your initial copy of the SOFTWARE ("Supplemental Components").

If FORD MOTOR COMPANY or third party software and services suppliers provide or make available to you Supplemental Components and no other EULA terms are provided along with the Supplemental Components, then the terms of this EULA shall apply.

If MS, Microsoft Corporation, their affiliates and/or their designated agent make available Supplemental Components, and no other EULA terms are provided, then the terms of this EULA shall apply, except that the MS, Microsoft Corporation or affiliate entity providing the Supplemental Component(s) shall be the licensor of the Supplemental Component(s).

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- Links to Third Party Sites: The MS SOFTWARE may provide you with the ability to link to third party sites through the use of the SOFTWARE. The third party sites are not under the control of MS. Microsoft Corporation, their affiliates and/or their designated agent. Neither MS nor Microsoft Corporation nor their affiliates nor their designated agent are responsible for (i) the contents of any third party sites. any links contained in third party sites, or any changes or updates to third party sites, or (ii) webcasting or any other form of transmission received from any third party sites. If the SOFTWARE provides links to third party sites, those links are provided to you only as a convenience, and the inclusion of any link does not imply an endorsement of the third party site by MS. Microsoft Corporation, their affiliates and/or their designated agent.
- Obligation to Drive Responsibly:
   You recognize your obligation to drive
   responsibly and keep attention on the
   road. You will read and abide with the
   DEVICE operating instructions
   particularly as they pertain to safety
   and assumes any risk associated with
   the use of the DEVICE.

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#### **End User Notice**

#### Microsoft® Windows® Mobile for Automotive Important Safety Information

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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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You agree to indemnify and hold Telenav harmless against all claims resulting from any dangerous or otherwise inappropriate use of the Telenav Software in any moving vehicle, including as a result of your failure to comply with the directions above.

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You agree: (a) when registering the Telenav Software, to provide Telenav with true, accurate, current, and complete information about yourself, and (b) to inform Telenav promptly of any changes to such information, and to keep it true, accurate, current and complete.

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You agree that any dispute, claim or controversy arising out of or relating to this Agreement or the Telenay Software shall be settled by independent arbitration. involving a neutral arbitrator and administered by the American Arbitration Association in the County of Santa Clara. California. The arbitrator shall apply the Commercial Arbitration Rules of the American Arbitration Association, and the judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction. Note that there is no judge or jury in an arbitration proceeding and the decision of the arbitrator shall be binding upon both parties. You expressly agree to waive your right to a jury trial.

This Agreement and performance hereunder will be governed by and construed in accordance with the laws of the State of California, without giving effect to its conflict of laws provisions. To the extent judicial action is necessary in connection with the binding arbitration, both Telenav and you agree to submit to the exclusive jurisdiction of the courts of the County of Santa Clara, California. The United Nations Convention on Contracts for the International Sale of Goods shall not apply.

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Telenav's or your failure to require performance of any provision shall not affect that party's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

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The headings in this Agreement are for convenience of reference only, will not be deemed to be a part of this Agreement, and will not be referred to in connection with the construction or interpretation of this Agreement. As used in this Agreement, the words "include" and "including," and variations thereof, will not be deemed to be terms of limitation, but rather will be deemed to be followed by the words "without limitation."

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#### Vehicle with SYNC only United States and Mexico

FCC ID: KMHSG1G1 IC: 1422A-SG1G1

#### Mexico

Model: KMHSG1P1 NOM-121-SCT1-2009

The operation of this equipment is subject to the following two conditions: (1) This equipment or device may not cause harmful interference, and (2) this equipment or device must accept any interference, including interference that may cause undesired operation.

# Vehicle with SYNC with Touchscreen/My Touch

FCC ID: KMHSYNCG2

IC: 1422A-SYNCG2

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.

#### **WARNING**

Δ

Changes or modifications not expressively approved by the party responsible for compliance could

void the user's authority to operate the equipment. The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **TYPE APPROVALS**

# RF Certification Logos for Tire Pressure Monitoring Sensor(s)

Schrader AG2SZ4 Numero de Registro

#### Argentina

TRA
REGISTERED NO:ER0I30238/14
DEALER NO:DA0047074/10

Abu Dhabi, Dubai



E197509



E202555

Brazil

#### **Appendices**

Herby, Schrader Electronics UK Ltd., declares that this TPMS is in compliance with the essential requirements and other provisions of directive 1999/5/EC. The declaration of conformity may be consulted at emcteam@schrader.co.uk

#### European Union EU

Kingdom of Jordon Type approval for tyre pressure sensor.
Model: AG2SZ4

Manufacturer: Schrader Electronics Type Approval Number: TRC/LPD/2014/ 56

#### Jordon

RAQP/33A/0514/S/(14-0847)

#### Malaysia



1024

F197811

Moldova

AGREE PAR L'ANRT MAROC Numéro d'agrément: MR9098 ANRT 2014 Date d'agrément: 14/03/2014

Morocco



E198001

**Philippines** 



E197844

Serbia

Complies with IDA Standards DA 00461

#### Singapore



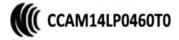
TA-2014/064

Approved

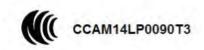
E198002

South Africa

#### **Appendices**



E203899



E203679

Taiwan



Schrader Electronics цім стверджуе, що

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системи контролю тиску в шині

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регламенту радіообладнання і

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E198009

Ukraine

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