# Table of Contents

**Introduction**

- About This Manual ........................................... 7
- Symbols Glossary ............................................. 7
- Data Recording .................................................. 9
- California Proposition 65 ..................................... 11
- Perchlorate ......................................................... 11
- Ford Credit .......................................................... 11
- Replacement Parts
  - Recommendation ........................................... 11
- Special Notices .................................................. 12
- Mobile Communications
  - Equipment ..................................................... 12
- Export Unique Options ....................................... 13

**Child Safety**

- General Information ....................................... 14
- Child Seat Positioning .................................... 15
- Booster Seats ................................................... 17
- Installing Child Seats ..................................... 19
- Child Safety Locks .......................................... 28

**Safety Belts**

- Principle of Operation .................................. 29
- Fastening the Safety Belts ............................ 30
- Safety Belt Height Adjustment ...................... 33
- Safety Belt Warning Lamp and Indicator Chime .... 33
- Safety Belt Minder ........................................... 34
- Child Restraint and Safety Belt Maintenance .... 36

**Personal Safety System™**

- Personal Safety System™ ................................ 37

**Supplementary Restraints System**

- Principle of Operation .................................. 38
- Driver and Passenger Airbags ....................... 39
- Front Passenger Sensing System ................. 40
- Side Airbags .................................................. 44

**Keys and Remote Controls**

- General Information on Radio Frequencies .......... 48
- Remote Control .................................................. 48
- Replacing a Lost Key or Remote Control ............ 51

**MyKey™**

- Principle of Operation .................................. 52
- Creating a MyKey ............................................. 52
- Clearing All MyKeys ....................................... 54
- Checking MyKey System Status ...................... 54
- Using MyKey With Remote Start Systems .......... 54
- MyKey Troubleshooting .................................... 55

**Locks**

- Locking and Unlocking ................................... 56
- Keyless Entry .................................................... 57

**Security**

- Passive Anti-Theft System ............................ 60
- Anti-Theft Alarm ............................................. 61

**Power Running Boards**

- Using Power Running Boards ......................... 62

**Steering Wheel**

- Adjusting the Steering Wheel ....................... 64
- Audio Control .................................................. 65
- Voice Control .................................................... 66
- Cruise Control ................................................... 66
- Information Display Control ......................... 66

**Pedals**

- Adjusting the Pedals ..................................... 67
# Table of Contents

## Wipers and Washers
- Windshield Wipers........................................68
- Autowipers...................................................68
- Windshield Washers........................................69

## Lighting
- Lighting Control..............................................70
- Autolamps........................................................70
- Instrument Lighting Dimmer..............................71
- Daytime Running Lamps.....................................71
- Front Fog Lamps...............................................71
- Direction Indicators.........................................72
- Interior Lamps..................................................72

## Windows and Mirrors
- Power Windows..............................................74
- Exterior Mirrors..............................................75
- Interior Mirror................................................77
- Sun Visors......................................................78
- Moonroof........................................................78

## Instrument Cluster
- Gauges.............................................................80
- Warning Lamps and Indicators............................81
- Audible Warnings and Indicators........................84

## Information Displays
- General Information........................................86
- Information Messages......................................97

## Climate Control
- Manual Climate Control....................................105
- Automatic Climate Control................................108
- Hints on Controlling the Interior Climate.............109
- Heated Windows and Mirrors.............................110
- Remote Start..................................................110

## Seats
- Sitting in the Correct Position..........................112
- Head Restraints..............................................112
- Manual Seats..................................................114
- Power Seats....................................................115
- Memory Function.............................................116
- Rear Seats......................................................117
- Heated Seats..................................................118
- Ventilated Seats..............................................119
- Front Seat Armrest.........................................120
- Rear Seat Armrest..........................................121

## Universal Garage Door Opener
- Universal Garage Door Opener..........................122

## Auxiliary Power Points
- Auxiliary Power Points.....................................130

## Storage Compartments
- Center Console..............................................132
- Overhead Console...........................................132

## Starting and Stopping the Engine
- General Information........................................133
- Ignition Switch...............................................133
- Starting a Gasoline Engine..............................133
- Engine Block Heater.......................................135

## Fuel and Refueling
- Safety Precautions..........................................137
- Fuel Quality....................................................138
- Running Out of Fuel........................................139
- Refueling......................................................140
- Fuel Consumption...........................................141
- Emission Control System.................................142
# Table of Contents

**Transmission**  
Automatic Transmission ................................................. 145  

**Four-Wheel Drive**  
Using Four-Wheel Drive ..................................................... 151  

**Rear Axle**  
Limited Slip Differential .................................................... 159  
Electronic Locking Differential ............................................. 159  

**Brakes**  
General Information .......................................................... 161  
Hints on Driving With Anti-Lock Brakes ................................. 161  
Parking Brake ......................................................................... 162  
Hill Start Assist ...................................................................... 162  

**Traction Control**  
Principle of Operation ............................................................ 164  
Using Traction Control ........................................................... 164  

**Stability Control**  
Principle of Operation ............................................................ 165  
Using Stability Control ........................................................... 166  

**Terrain Response**  
Principle of Operation ............................................................ 168  
Using Hill Descent Control ..................................................... 168  

**Parking Aids**  
Parking Aid ........................................................................... 170  
Rear View Camera ................................................................... 171  

**Cruise Control**  
Principle of Operation ............................................................ 174  
Using Cruise Control ............................................................. 174  

**Driving Aids**  
Steering ............................................................................... 175  

**Load Carrying**  
Load Limit ............................................................................. 177  
Tailgate ................................................................................... 184  

**Towing**  
Towing a Trailer .................................................................. 189  
Trailer Sway Control ............................................................. 190  
Recommended Towing Weights ............................................. 190  
Essential Towing Checks ....................................................... 199  
Transporting the Vehicle ....................................................... 205  
Towing the Vehicle on Four Wheels ....................................... 206  

**Driving Hints**  
Breaking-In ........................................................................... 208  
Economical Driving ............................................................... 208  
Driving Through Water .......................................................... 209  
Floor Mats .............................................................................. 209  
Snowplowing .......................................................................... 210  

**Roadside Emergencies**  
Roadside Assistance ............................................................... 213  
Hazard Warning Flashers ....................................................... 214  
Fuel Shutoff ........................................................................... 214  
Jump-Starting the Vehicle ....................................................... 214  
Post-Crash Alert System ......................................................... 216  

**Customer Assistance**  
Getting the Services You Need ............................................... 217  
In California (U.S. Only) .......................................................... 218  
The Better Business Bureau (BBB) Auto Line Program (U.S. Only) .......................................................... 219  
Utilizing the Mediation/Arbitration Program (Canada Only) .......................................................... 219  
Getting Assistance Outside the U.S. and Canada .......................... 220  
Ordering Additional Owner’s Literature .................................. 221  
Reporting Safety Defects (U.S. Only) ........................................ 221  
Reporting Safety Defects (Canada Only) ................................. 222
Table of Contents

Fuses
Changing a Fuse.................................223
Fuse Specification Chart...................224

Maintenance
General Information.........................233
Opening and Closing the Hood...........233
Under Hood Overview - 3.5L
  Ecoboost™........................................234
Under Hood Overview - 3.7L.............235
Under Hood Overview - 5.0L...............236
Under Hood Overview - 6.2L............237
Engine Oil Dipstick...........................238
Engine Oil Check................................238
Transfer Case Fluid Check..................239
Engine Coolant Check.........................240
Automatic Transmission Fluid
  Check..............................................243
Brake Fluid Check..............................244
Washer Fluid Check............................244
Power Steering Fluid Check..............244
Fuel Filter..........................................245
Changing the 12V Battery...................245
Changing the Engine Air Filter - 3.5L
  Ecoboost™ ......................................247
Changing the Engine Air Filter - 3.7L/
  5.0L/6.2L........................................248
Checking the Wiper Blades...............250
Changing the Wiper Blades..............250
Adjusting the Headlamps.................250
Removing a Headlamp.......................252
Changing a Bulb.................................253
Bulb Specification Chart....................255

Vehicle Care
General Information.........................257
Cleaning Products............................257
Repairing Minor Paint Damage ...........257
Cleaning the Alloy Wheels...............257
Cleaning the Exterior......................258
Waxing..............................................259
Cleaning the Engine.........................259
Cleaning the Windows and Wiper Blades.................................259
Cleaning the Interior.........................260
Cleaning the Instrument Panel and Instrument Cluster Lens............260
Cleaning Leather Seats....................261
Vehicle Storage................................262

Wheels and Tires
General Information.........................265
Tire Care..........................................267
Using Snow Chains.........................282
Tire Pressure Monitoring System........282
Changing a Road Wheel.....................288
Technical Specifications...................293

Capacities and Specifications
Engine Specifications.......................295
Motorcraft Parts..............................297
Vehicle Identification Number............297
Vehicle Certification Label...............298
Transmission Code Designation...........299
Technical Specifications...................300

Accessories
Accessories......................................305

Ford Extended Service Plan (ESP)
Ford Extended Service Plan (ESP)......307

Audio System
General Information.........................310
Audio unit - Vehicles With: AM/FM.......311
Audio unit - Vehicles With: AM/FM/CD/SYNC/Satellite Radio........312
# Table of Contents

Audio unit - Vehicles With:  
AM/FM/CD/SYNC/Satellite Radio ............................................................. 315
Audio unit - Vehicles With: Sony  
AM/FM/CD ................................................................. 317
Digital Audio ................................................................. 318
Satellite Radio ................................................................. 321
Auxiliary Input Jack ................................................................. 323
USB Port ................................................................. 324
Media Hub ................................................................. 324

**SYNC™**

General Information ................................................................. 325
Using Voice Recognition ................................................................. 327
Using SYNC™ With Your Phone ................................................................. 329
SYNC™ Applications and Services ................................................................. 340
Using SYNC™ With Your Media Player ................................................................. 347
SYNC™ Troubleshooting ................................................................. 355

**MyFord Touch™**

General Information ................................................................. 361
Settings ................................................................. 368
Entertainment ................................................................. 378
Phone ................................................................. 395
Information ................................................................. 401
Climate ................................................................. 410
Navigation ................................................................. 412

**Appendices**

End User License Agreement ................................................................. 421

**Scheduled Maintenance**

General Maintenance Information ................................................................. 436
Normal Scheduled Maintenance ................................................................. 439
Special Operating Conditions Scheduled Maintenance ................................................................. 444
Scheduled Maintenance Record ................................................................. 449
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 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: 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 your vehicle.

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

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

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

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.

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.

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
Introduction
Introduction

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 325).

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 325).

Additionally, when you connect to Traffic, Directions and Information (if equipped, U.S. only), the service uses GPS technology and advanced vehicle sensors to collect the vehicle’s current location, travel direction, and speed (“vehicle travel information”), only to help provide you with the directions, traffic reports, or business searches that you request. If you do not want Ford or its vendors to receive this information, do not activate the service. Ford Motor Company and the
vendors it uses to provide you with this information do not store your vehicle travel information. For more information, see Traffic, Directions and Information, Terms and Conditions. See SYNC™ (page 325).

CALIFORNIA PROPOSITION 65

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

PERCHLORATE

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:

<table>
<thead>
<tr>
<th>Web Address</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.dtsc.ca.gov/hazardouswaste/perchlorate">www.dtsc.ca.gov/hazardouswaste/perchlorate</a></td>
</tr>
</tbody>
</table>

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 help manage your account.

Phone: 1-800-727-7000
For more information regarding Ford Credit, as well as 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**

- Failure to follow the specific warnings and instructions could result in personal injury. See **Supplementary Restraints System** (page 38).

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

**Notice to owners of pickup trucks and utility type vehicles**

---

**WARNING**

- Utility vehicles have a significantly higher rollover rate than other types of vehicles.

---

Before you drive your vehicle, please read this Owner’s Manual carefully. Your vehicle is not a passenger car. As with other vehicles of this type, failure to operate your vehicle correctly may result in loss of vehicle control, vehicle rollover, personal injury or death.

**Using your vehicle with a snowplow**

See **Snowplowing** (page 210).

**Using your vehicle as an ambulance**

Do not use this vehicle as an ambulance. Your vehicle is not equipped with the Ford Ambulance Preparation Package.

**MOBILE COMMUNICATIONS EQUIPMENT**

Using mobile communications equipment is becoming increasingly important in the conduct of business and personal affairs. However, you must not compromise your own or others’ safety when using such equipment. Mobile communications can enhance personal safety and security when appropriately used, particularly in emergency situations. Safety must be paramount when using mobile communications equipment to avoid negating these benefits. Mobile communication equipment includes, but is not limited to, cellular phones, pagers, portable email devices, text messaging devices and portable two-way radios.
**WARNING**

Driving while distracted can result in loss of vehicle control, 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.
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 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.
### Recommendations for Safety Restraints for Children

<table>
<thead>
<tr>
<th>Child</th>
<th>Child size, height, weight, or age</th>
<th>Recommended restraint type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infants or toddlers</td>
<td>Children weighing 40 lb (18 kg) or less (generally age four or younger).</td>
<td>Use a child safety seat (sometimes called an infant carrier, convertible seat, or toddler seat).</td>
</tr>
<tr>
<td>Small children</td>
<td>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).</td>
<td>Use a belt-positioning booster seat.</td>
</tr>
<tr>
<td>Larger children</td>
<td>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 your child restraint manufacturer).</td>
<td>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.</td>
</tr>
</tbody>
</table>

- 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).

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

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.

<table>
<thead>
<tr>
<th>Restraint Type</th>
<th>Combined child and seat weight</th>
<th>Use any attachment method as indicated below by X</th>
<th>LATCH (lower anchors and top tether anchor)</th>
<th>LATCH (lower anchors only)</th>
<th>Safety belt and top tether anchor</th>
<th>Safety belt and LATCH (lower anchors and top tether anchor)</th>
<th>Safety belt only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear facing child seat</td>
<td>Up to 65 lb (29 kg)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear facing child seat</td>
<td>Over 65 lb (29 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Forward facing child seat</td>
<td>Up to 65 lb (29 kg)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward facing child seat</td>
<td>Over 65 lb (29 kg)</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 Head Restraints (page 112).

**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.

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:

- 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.

- 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.

**INSTALLING CHILD SEATS**

**Child Seats**

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 younger).

**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 vehicle seat upon which the 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. This vehicle does not require the use of a locking clip.

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

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

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

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

3. While holding the shoulder and lap belt portions together, route the tongue through the child seat according to the child seat manufacturer's instructions. Be sure the belt webbing is not twisted.

4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.
5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until all of the belt is pulled out.

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

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

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

8. Remove remaining slack from the belt. Force the seat down with extra weight, 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 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.
**Child Safety**

**Using Lap and Shoulder Belts (Front Center Seating Position)**

**WARNINGS**

- Airbags can kill or injure a child in a child seat. If you must use a forward-facing child seat in the front seat, move the vehicle seat upon which the seat is installed all the way back.
- Rear facing child seats should never be placed in front of an active airbag.
- Always use both lap and shoulder safety belt in the center seating position.

The belt webbing below the tongue is the lap portion of the combination lap and shoulder belt, and the belt webbing above the tongue is the shoulder belt portion of the combination lap and shoulder belt.

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

2. Slide the tongue up the webbing.

3. While holding both shoulder and lap portions next to the tongue, route the tongue and webbing through the child seat according to the child seat manufacturer's instructions. Be sure that the belt webbing is not twisted.
4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.

5. While pushing down with your knee on the child seat pull up on the shoulder belt portion to tighten the lap belt portion of the combination lap and shoulder belt.

6. Allow the safety belt to retract and remove any slack in the belt to securely tighten the child safety seat in the vehicle.

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

8. Before placing the child in the seat, forcibly move the seat forward and back to make sure the seat is securely held in place. To check this, grab the seat at the belt path and attempt to move it side to side and forward and back. There should be no more than 1 inch (2.5 centimeters) of movement for proper installation.

9. Check from time to time to be sure that there is no slack in the lap and shoulder belt. The shoulder belt must be snug to keep the lap belt tight during a crash.

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 Child Passenger Safety Technician.

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

**WARNINGS**

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

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 or LATCH lower anchors, rendering those features potentially unusable. To avoid risk of injury, occupants should only use seating positions where they are able to be properly restrained.
The LATCH system is composed of three vehicle anchor points: two lower anchors located where the vehicle seat back and seat cushion meet (called the seat bight) and one top tether anchor located behind that seating position.

LATCH compatible child safety seats have two rigid or webbing mounted attachments that connect to the two lower anchors at the LATCH equipped seating positions in your vehicle. This type of attachment method eliminates the need to use safety belts to attach the child seat, however the safety belt can still be used to attach the child seat if the lower anchors are not used. For forward-facing child seats, the top tether strap must also be attached to the proper top tether anchor, if a top tether strap has been provided with your child seat.

Your vehicle is equipped with LATCH lower anchors for child seat installation at the following seating positions (LATCH is not available on F150 Regular Cab):

**SuperCab and SuperCrew**

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

Follow the instructions later in this chapter 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 280 millimeters (11 inches) 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 25.7 inches (652 millimeters) apart. The standardized spacing for LATCH lower anchors is 11 inches (280 millimeters) center to center. 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 the 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 the vehicle.

The passenger seats of your vehicle may be equipped with built-in tether strap anchors located behind the seats as described below.

The tether anchors in your vehicle may be loops of webbing above the seatback or an anchor bracket behind the seat on the rear edge of the seat cushion.

The rear seat in the SuperCab and SuperCrew has three straps along the top of the seat back that function as both routing loops for the tether straps and anchor loops.

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

**Regular Cab**

![Diagram of Regular Cab Tether Anchor Positions]

E166696
Attach the tether strap only to the appropriate tether anchor as shown. The tether strap may not work properly if attached somewhere other than the correct tether anchor.

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

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.

**Front Seat Tether Strap Attachment (Regular Cab)**

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

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

2. Locate the correct anchor for the selected seating position. You may need to pull the seat back forward to access the tether anchors. Make sure the seat is locked in the upright position before installing the child seat.

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

**Regular Cab passenger and center seats (located on back panel)**

If the tether strap is clipped incorrectly, the child safety seat may not be retained properly in the event of a crash.
4. Tighten the child safety seat tether strap according to the manufacturer's instructions.

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

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

**Rear Seat Tether Strap Attachment (SuperCab and SuperCrew)**

There are three loops of webbing just above the back of the rear seat (along the bottom edge of the rear window). Use these loops as both routing loops and anchor loops for up to three child safety seat tether straps.

For example, the center loop can be used as a routing loop for a child safety seat in the center rear seat and as an anchoring loop for child seats installed in the outboard rear seats.

Many tether straps cannot be tightened if the tether strap is hooked to the loop directly behind the child seat. To provide a tight tether strap:

1. Route the tether strap under the head restraint and through the loop directly behind the child seat.

2. Route the tether strap behind the head restraint supports to a loop behind an adjacent seating position, and hook the strap hook onto the loop. If using the driver's side, pass the strap behind the shoulder belt mounting for the center
seat. Always put the tether strap through the routing loop. The head restraint support post will hold the child seat tightly, but the head restraint post is not strong enough to hold the child seat during a crash.

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

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

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

**CHILD SAFETY LOCKS**

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

**Left-Hand Side**
Turn counterclockwise to lock and clockwise to unlock.

**Right-Hand Side**
Turn clockwise to lock and counterclockwise to unlock.

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

PRINCIPLE OF OPERATION

WARNINGS

Always drive and ride with your seat back 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 the vehicle is moving. The passenger cannot protect the child from injury in a crash, which may result in serious injury or death.

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

The safety belt system consists of:

- lap and shoulder safety belts.
- shoulder safety belt with automatic locking mode, (except driver safety belt).
- height adjuster at the front outboard seating positions.
- safety belt pretensioner at the front outboard seating positions.
- belt tension sensor at the front outboard passenger seating position.
- safety belt warning light and chime.

29
• 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, side crashes and rollovers, the safety belt pretensioners may be activated alone or, if the crash is of sufficient severity, together with the front airbags.

**FASTENING THE SAFETY BELTS**

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

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

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

**Using the Safety Belt with Cinch Tongue (Front Center Seat)**

The cinch tongue will slide up and down the belt webbing when the belt is stowed or while putting safety belts on. When you buckle the lap and shoulder safety belt, the cinch tongue will allow you to shorten the lap portion, but pinches the webbing to keep the lap portion from getting longer. The cinch tongue is designed to slip during a crash, so always wear the shoulder belt properly and do not allow any slack in either the lap or shoulder portions.

Before you can reach and latch a lap and shoulder belt having a cinch tongue into the buckle, you may have to lengthen the lap belt portion of it.
**Safety Belts**

1. To lengthen the lap belt, pull some webbing out of the shoulder belt retractor.
2. While holding the webbing below the tongue, grasp the tip (metal portion) of the tongue so that it is parallel to the webbing and slide the tongue upward.
3. Provide enough lap belt length so that the tongue can reach the buckle.

**Fastening the Cinch Tongue**

**WARNING**

The lap belt should fit snugly and as low as possible around the hips, not across the waist.

1. Pull the lap and shoulder belt from the retractor so that the shoulder belt portion of the safety belt crosses your shoulder and chest.
2. Be sure the belt is not twisted. If the belt is twisted, remove the twist.
3. Insert the belt tongue into the proper buckle for your seating position until you hear a snap and feel it latch.
4. Make sure you securely fasten the tongue to the buckle by pulling on the tongue.

While you are fastened in the safety belt, the lap and shoulder belt with a cinch tongue adjusts to your movement. However, if you brake hard, turn hard, or if your vehicle receives an impact of 5 mph (8 km/h) or more, the safety belt will become locked and help reduce your forward movement.

**Restraint of Pregnant Women**

**WARNING**

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

Pregnant women should always wear their safety belt. Position the lap belt portion of a combination lap and shoulder belt low across the hips below the belly and worn as tight as comfort will allow. Position the shoulder belt 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.
WARNINGS

The belt and retractor 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 first type of locking mode, and the front outboard passenger and rear seat safety belts have both types of locking modes described as follows:

Vehicle Sensitive Mode

This is the normal retractor mode, which allows free shoulder belt length adjustment to your movements and locking in response to vehicle movement. For example, if the driver brakes suddenly, 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

Use this mode any time you install a child safety seat in a front outboard passenger seating position in a Regular Cab, SuperCab, SuperCrew or any rear seating position of a SuperCab or SuperCrew. The optional front seat’s center safety belt has a cinch mechanism. Children 12 years old and under should be properly restrained in a rear seat whenever possible. See Child Safety (page 14).

How to Use the Automatic Locking Mode

1. Buckle the combination lap and shoulder belt.
2. Grasp the shoulder portion and pull downward until you pull the entire belt 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.
Safety Belt Extension Assembly

**WARNING**

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

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

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

**SAFETY BELT HEIGHT ADJUSTMENT**

**WARNING**

Position the safety belt height 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.
2. 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

<table>
<thead>
<tr>
<th>If...</th>
<th>Then...</th>
</tr>
</thead>
<tbody>
<tr>
<td>The driver’s safety belt is not buckled before the ignition switch is turned to the on position...</td>
<td>The safety belt warning light illuminates 1-2 minutes and the warning chime sounds 4-8 seconds.</td>
</tr>
<tr>
<td>The driver’s safety belt is buckled while the indicator light is illuminated and the warning chime is sounding...</td>
<td>The safety belt warning light and warning chime turn off.</td>
</tr>
<tr>
<td>The driver’s safety belt is buckled before the ignition switch is turned to the on position...</td>
<td>The safety belt warning light and indicator chime remain off.</td>
</tr>
</tbody>
</table>

SAFETY BELT MINDER

Belt-Minder®

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

The system uses information from the front passenger sensing system to determine if a front seat passenger is present and therefore potentially in need of a warning. To avoid activating the Belt-Minder feature for objects placed in the front passenger seat, warnings will only be given to front seat occupants as determined by the front passenger sensing system.

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

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

### Deactivating and Activating the Belt-Minder Feature

**WARNING**

While the system allows you to deactivate it, this system is designed to improve your chances of being safely belted and surviving an accident. We recommend you leave the system activated for yourself and others who may use the vehicle. To reduce the risk of injury, do not deactivate or activate the system while driving the vehicle.

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

**Note:** If you are using MyKey, you cannot disable the Belt-Minder. Also, if the Belt-Minder has been previously disabled, it will be re-enabled during the use of MyKey. See MyKey™ (page 52).

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).
- The ignition is off.
- The driver's and front passenger's safety belt is unbuckled.

1. Turn the ignition on. Do not start the engine.
2. Wait until the safety belt warning light turns off (about one minute). Step 3 must be completed within 30 seconds after the safety belt warning light turns off.
3. Buckle, then unbuckle the safety belt three times at a moderate speed, ending with the safety belt in the unbuckled state. After Step 3, the safety belt warning light will turn on.

4. While the safety belt warning light is on, buckle then unbuckle the safety belt. After Step 4, the safety belt warning light will flash for confirmation.
   - This will disable the feature if it is currently enabled.
   - This will enable the feature if it is currently disabled.

**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 257).
The Personal Safety System provides an improved overall level of frontal crash protection to front seat occupants and is designed to help further reduce the risk of airbag-related injuries. The system is able to analyze different occupant conditions and crash severity before activating the appropriate safety devices to help better protect a range of occupants in a variety of frontal crash situations.

Your vehicle's Personal Safety System consists of:

- Driver and passenger dual-stage airbag supplemental restraints.
- Front outboard safety belts with pretensioners, energy management retractors (first row only), and safety belt usage sensors.
- Driver's seat position sensor.
- Front passenger sensing system.
- Passenger airbag off 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 sensor(s), safety belt pretensioners, front safety belt usage sensors, driver seat position sensor, front passenger sensing system, and indicator lights.

How Does the Personal Safety System Work?

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

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 avoid 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 eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of airbag deployment. Thus, it is extremely important that occupants be properly restrained as far away from the airbag module as possible while maintaining vehicle control.

Routine maintenance of the airbags is not required.
Supplementary Restraints System

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

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 47).

**Proper Driver and Front Passenger Seating Adjustment**

**WARNING**

The National Highway Traffic Safety Administration 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. Properly seated occupants sit upright, lean against the seat back, and center themselves on the seat cushion, with their feet comfortably extended on the floor. Sitting improperly can increase the chance of injury in a crash event. For example, if an occupant slouches, lies down, turns sideways, sits forward, leans forward or sideways, or puts one or both feet up, the chance of injury during a crash is greatly increased.

**Children and Airbags**

**WARNING**

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

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

If two adults and a child occupy a Regular Cab, properly restrain the child in the center front unless doing so would interfere with driving your vehicle. This provides lap and shoulder belt protection for all occupants, and airbag protection for the adults. A child or infant properly restrained in the center front seat should not incur risk of serious injury from the airbags.

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.

WARNINGS

- 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. 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 the seatback if a child is in the front passenger seat. Do not place objects underneath the front passenger seat or between the seat and the center console. Check the passenger airbag status 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.

- The front passenger airbag is not designed to offer protection to an occupant in the center seating position.

- An out of position front center occupant could affect the decision of the front passenger sensing system.

The system works with sensors that are part of the passenger seat and safety belt to detect the presence of a properly seated occupant and determine if the front passenger’s frontal airbag should be enabled or not.
Supplementary Restraints System

High-series vehicles (if equipped)

The front passenger sensing system uses a passenger airbag status indicator which will illuminate indicating that the front passenger frontal airbag is either ON (enabled) or OFF (disabled). The indicator lamp is located by the radio.

The front passenger sensing system is designed to disable (will not inflate) the front passenger frontal airbag when the front passenger seat is unoccupied, or a rear facing infant seat, a forward-facing child restraint, or a booster seat is detected. 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 passenger airbag status indicator will illuminate the OFF lamp and stay lit to remind you that the front passenger frontal airbag is disabled.
- If the child restraint has been installed and the passenger airbag status indicator illuminates the ON lamp, then turn your vehicle off, remove the child restraint from your vehicle and reinstall the restraint following the child restraint manufacturer's instructions.

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

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

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

- Turn your 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 your vehicle and have the person remain in this position for about two minutes. This will allow the system to detect that person and enable the passenger's frontal airbag.
- If the passenger airbag status indicator OFF lamp remains lit even after this, you should advise the person to ride in the rear seat.
Passenger airbag

<table>
<thead>
<tr>
<th>Occupant</th>
<th>Passenger airbag status indicator</th>
<th>Passenger airbag</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty</td>
<td>OFF: Lit</td>
<td>Disabled</td>
</tr>
<tr>
<td></td>
<td>ON: Unlit</td>
<td></td>
</tr>
<tr>
<td>Child</td>
<td>OFF: Lit</td>
<td>Disabled</td>
</tr>
<tr>
<td></td>
<td>ON: Unlit</td>
<td></td>
</tr>
<tr>
<td>Adult</td>
<td>OFF: Unlit</td>
<td>Enabled</td>
</tr>
<tr>
<td></td>
<td>ON: Lit</td>
<td></td>
</tr>
</tbody>
</table>

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

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 state of the passenger airbag status indicator lamp is incorrect, check for the following:

- Objects lodged underneath the seat
- Objects between the seat cushion and the center console
- 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 previous list.

Make sure the front passenger sensing system is operating properly. See **Crash Sensors and Airbag Indicator** (page 47).

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

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

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

- Pull your vehicle over.
- Turn your vehicle off.
Driver or adult passengers should check for any objects lodged underneath the front passenger seat or cargo interfering with the seat.

- Remove the obstruction(s) (if found).
- Restart your vehicle.
- Wait at least two minutes and verify that the airbag readiness light in the instrument cluster is no longer illuminated.
- If the airbag readiness light in the instrument cluster remains illuminated, this may or may not be a problem due to the front passenger sensing system.

Do not attempt to repair or service the system. Take your vehicle immediately to an authorized dealer.

If it is necessary to modify an advanced front airbag system to accommodate a person with disabilities, contact the Ford Customer Relationship Center.

Low-series vehicles (if equipped)

The front passenger sensing system uses a pass 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 by the radio.

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

The front passenger sensing system is designed to disable (will not inflate) the front passenger’s frontal airbag when the front passenger seat is unoccupied, or a rear facing infant seat, a forward-facing child restraint, or a booster seat is detected. 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, turn your vehicle off, remove the child restraint from your vehicle and reinstall the restraint following the child restraint manufacturer’s instructions.

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

- When the front passenger sensing system enables the front passenger frontal airbag (may inflate), the indicator will be unlit and stay unlit.
Supplementary Restraints System

If a person of adult size is sitting in the front passenger seat, but the pass airbag off indicator lamp is lit, it is possible that the person is not sitting properly in the seat. If this happens:

- Turn your 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.

<table>
<thead>
<tr>
<th>Occupant</th>
<th>Passenger airbag off indicator lamp</th>
<th>Passenger airbag</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Unlit</td>
<td>Disabled</td>
</tr>
<tr>
<td>Child</td>
<td>Lit</td>
<td>Disabled</td>
</tr>
<tr>
<td>Adult</td>
<td>Unlit</td>
<td>Enabled</td>
</tr>
</tbody>
</table>

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

After all occupants have adjusted their seats and put on safety belts, it 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.

Make sure the front passenger sensing system is operating properly. See Crash Sensors and Airbag Indicator (page 47).

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 217).

**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.
Supplementary Restraints System

**WARNINGS**

- **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 soon as possible.**

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 un-repaired 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 your 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 47).

**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.

**SAFETY CANOPY™**

**WARNINGS**

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

- **Do not lean your head on the door.** The curtain airbag could injure you as it deploys from the headliner.
Supplementary Restraints System

WARNINGS

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

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

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

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

The system consists of the following:

- Safety canopy 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 trim.
- A flexible headliner which opens above the side doors to allow air curtain deployment
- The crash sensors and monitoring system have a readiness indicator. See Crash Sensors and Airbag Indicator (page 47).

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

The design and development of the Safety Canopy included recommended testing procedures that were developed by a group of automotive safety experts known as the Side Airbag Technical Working Group. These recommended testing procedures help reduce the risk of injuries related to the deployment of side airbags (including the Safety Canopy).
Your vehicle has a collection of crash and occupant sensors which provide information to the restraints control module which deploys (activates) the front safety belt pretensioners, driver airbag, passenger airbag, seat mounted side airbags, and the Safety Canopy®. Based on the type of crash (frontal impact, side impact or rollover), the restraints control module will deploy the appropriate safety devices.

The restraints control module also monitors the readiness of the above safety devices plus the crash and occupant sensors. The readiness of the safety system is indicated by a warning indicator light in the instrument cluster or by a backup tone if the warning light is not working. See Instrument Cluster (page 80). 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 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 design of the safety belt pretensioners is to activate in frontal, near-frontal and side crashes, and in rollovers.
- The design of the side airbags is to inflate in certain side impact crashes. Side airbags may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation.
- The design of the Safety Canopy is to inflate in certain side impact crashes or rollover events. The Safety Canopy may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation, or a certain likelihood of rollover.

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 expressly 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.

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.

Note: Your vehicle’s keys came with a security label that provides important vehicle key cut information. Keep the label in a safe place for future reference.

Replacing the Battery

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

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

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

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

**Integrated Keyhead Transmitter**

1. Twist a thin coin in the slot of the transmitter near the key ring to remove the battery cover.
2. Carefully peel up the rubber gasket from the transmitter. It may come off with the battery cover.
3. Remove the old battery.
4. Insert the new battery. Refer to the instructions inside the transmitter for the correct orientation of the battery. Press the battery down to make sure it is fully in the housing.
5. Reinstall the rubber gasket.
6. Snap the battery cover back onto the transmitter.

**Memory Feature (if Equipped)**

You can use the remote control to recall memory settings for the driver seat, power mirrors, steering column and power foot pedals.

Press the unlock button on the remote control to recall the memory positions. If you enable the easy-entry and exit feature, the seat will move to the easy-entry position. The seat will move to the driver memory position when you put the key in the ignition.

**Programming to the Transmitter**

1. With the ignition on, move the memory features to the desired positions using the associated controls.

2. Press and hold memory button 1 on the side of the driver seat. A tone will sound after about two seconds. Continue to hold until you hear a second tone.
3. Press the lock button on the remote control within three seconds. A single tone sounds.

Repeat this procedure with button 2 and a second remote control if desired.

**Deactivating from the Transmitter**

1. Press and hold the desired memory button for five seconds. A tone will sound after about two seconds. Continue to hold until you hear a second tone.
2. Press the unlock button on the remote control within three seconds.

Repeat this procedure for each additional transmitter if desired.

**Car Finder**

Press the button twice within three seconds. The horn will sound and the turn signals will 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 turn the ignition on to deactivate it.

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.

Vehicles with automatic climate control can be set to operate when you remote start the vehicle. See Climate Control (page 105). A manual climate control system will run at the setting it was set to when you switch 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 any of the following occur:

- The ignition is on
- The alarm system triggers
- You disable the feature
- The hood is open
- The transmission is not in P
- The vehicle battery voltage is too low
- The service engine soon indicator is on

Remote Starting the Vehicle

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

The label on your transmitter details the starting procedure.

To remote start your vehicle:

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

The horn will sound 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. You can switch it on or off in the information display. See General Information (page 86).

**Note:** If you remote start your vehicle with an integrated keyhead transmitter, you must switch the ignition on before driving your vehicle. If you remote start your vehicle with an intelligent access transmitter, you must press the 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.
Keys and Remote Controls

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 the duration is set to last 10 minutes, the duration will extend by another 10 minutes. 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 20 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 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 General Information (page 86).

**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 60).

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

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

- create a MyKey
- program configurable MyKey settings
- clear all MyKey features.

When you have programmed a MyKey, you can access the following information using the information display:

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

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

Non-configurable Settings

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

- Belt-Minder. You cannot disable this feature. The audio system will mute when the front seat occupants’ safety belts are not fastened.
- Early low fuel. The low fuel warning is activated earlier, giving the MyKey user more time to refuel.
- Driver assist features, if equipped on your vehicle, are forced on: parking aid, blind spot information system (BLIS) with cross traffic alert, lane departure warning and forward collision warning system.
- Satellite radio adult content restrictions.

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.
- Vehicle speed minders of 45, 55 or 65 mph (75, 90 or 105 km/h). 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 turn off Advance Trac (if your vehicle is equipped with this feature).

CREATING A MYKEY

Use the information display to create a MyKey. There are two types of information displays, and their controls and messaging vary. To determine which type of display you have, you will need to reference another chapter. See General Information (page 86).

If You Have a Type 1 Information Display:
1. Insert the key you want to program into the ignition.

2. Switch the ignition on.

3. Access the main menu on the information display controls. Press SETUP using the information display buttons until PRESS RESET TO CREATE MYKEY is displayed.

4. Press and release the RESET button. You will see HOLD RESET TO CONFIRM MYKEY in the display.

5. Press and hold the RESET button for two seconds until you see the message MARK THIS AS RESTRICTED in the display. Wait until you see KEY RESTRICTED AT NEXT START in the display.

If You Have a Type 2 Information Display:

1. Insert the key you want to program into the ignition.

2. Switch the ignition on.

3. Access the main menu on the information display controls, and select SETTINGS, then MYKEY by pressing OK or the > button.

4. Press OK or the > button to select CREATE A MYKEY.

5. When prompted, hold the OK button until you see KEY RESTRICTED AT NEXT START in the display. 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). Refer to Programming/Changing Configurable Settings.

### Programming/Changing Configurable Settings

Use the information display to program or change your configurable MyKey settings. There are two types of information displays, and their controls and messaging vary. To determine which type of display you have, you will need to reference another chapter. See General Information (page 86).

If You Have a Type 1 Information Display:

1. Switch the ignition on using an admin key.

2. Access the main menu on the information display controls, and press SETUP until RESET FOR MYKEY SETTINGS displays.

3. Press and release the RESET button to display MyKey setup menus.

4. Press the SETUP button to enter your choice. Once you make a selection, the next configurable setting will be displayed.

5. Repeat Steps 3 and 4 until you are done changing the configurable settings.

If You Have a Type 2 Information Display:

1. Switch the ignition on using an admin key.

2. Access the main menu on the information display controls, and select SETTINGS, then MYKEY by pressing OK or the > button.

3. Use the arrow buttons to get to a configurable feature.

4. Press OK or > to make a selection.
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 engine off, however, you will need an admin key to change or clear your MyKey settings.

CLEARING ALL MYKEYS

You can clear all MyKeys within the same key cycle as you created the MyKey. If you switch your ignition off, however, you will need to use an admin key to clear your MyKeys.

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

To clear all MyKeys of all MyKey settings, use the information display. There are two types of information displays, and their controls and messaging vary. To determine which type of display you have, you will need to reference another chapter. See General Information (page 86).

If You Have a Type 1 Information Display:
1. Press SETUP until PRESS RESET TO CLEAR MYKEY displays.
2. Press and release the RESET button. The display will show HOLD RESET TO CONFIRM CLEAR.
3. Press and hold the RESET button for two seconds until ALL MYKEYS CLEARED displays.

If You Have a Type 2 Information Display:
1. Access the main menu and select SETTINGS, then MYKEY.
2. Scroll to CLEAR ALL and press the OK button.

3. Hold the OK button until ALL MYKEYS CLEARED displays.

CHECKING MYKEY SYSTEM STATUS

You can find information about your programmed MyKeys by using the information display.

MYKEY DISTANCE

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 MyKey. 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.

NUMBER OF MYKEY(S)

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.

NUMBER OF ADMIN KEY(S)

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.

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

<table>
<thead>
<tr>
<th>Condition</th>
<th>Potential causes</th>
</tr>
</thead>
</table>
| I cannot create a MyKey.                                                  | · The key used to start the vehicle does not have admin privileges.  
· The key used to start the vehicle is the only admin key. There always has to be at least one admin key.  
· SecuriLock passive anti-theft system is disabled or in unlimited mode. |
| I cannot program the configurable settings.                               | · The key in the ignition does not have admin privileges.  
· There are no keys programmed to the vehicle. See [Creating a MyKey](#) (page 52). |
| I cannot clear the MyKeys.                                                | · The key used to start the vehicle does not have admin privileges.  
· No MyKeys are created. See [Creating a MyKey](#) (page 52). |
| I lost the only admin key.                                                | · Purchase a new key from your authorized dealer. |
| I lost a key.                                                             | · Program a spare key. See [Passive Anti-Theft System](#) (page 60). |
| MyKey distances do not accumulate.                                       | · The MyKey user is not using the MyKey.  
· An admin key holder cleared the MyKeys and created new MyKeys.  
· The key system has been reset. |
LOCATING AND UNLOCKING

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

Power Door Locks (If Equipped)

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

Remote Control (If Equipped)

You can use the remote control at any time your vehicle is not running.

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 four seconds to disable or enable two-stage unlocking. Disabling two-stage unlocking allows all vehicle doors to unlock with one press of the button. The turn signals will flash twice to indicate a change to the unlocking mode. The unlocking mode applies to the remote control and keyless entry keypad.

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 are closed.

Mislock

If any door 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.

Smart Unlocks (If Equipped)

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

When you open the driver door and lock your vehicle with the power door lock control, all the doors will lock then unlock if your key is still in the ignition.

Your can still lock your vehicle with the key in the ignition by:

• using the manual lock on the door
• locking the driver door with a key
• using the keyless entry keypad
• using the lock button on the remote control

Autolock and Autounlock (If Equipped)

The autolock feature will lock all the doors when:

• all doors are closed, and
• the ignition is on, and
• 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 will unlock all the doors when:

- autolock has locked the doors
- you stop the vehicle and switch the ignition off or to accessory mode, and
- you open the driver door within 10 minutes.

**Note:** The doors will not autounlock if you have electronically locked them before opening the driver door.

**Enabling or Disabling**

You can enable or disable these features in the information display or your authorized dealer can do it for you. See General Information (page 86).

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

**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 dome lamp will not turn on if the control is set to the off position.

The lights will not turn off if:

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

**Battery Saver**

The battery saver turns off the interior lamps 30 minutes after you switch the ignition off if a door is open and the dome lamp switch is on. It turns off the interior lamps after 10 minutes if the dome lamp switch is off.

**KEYLESS ENTRY (IF EQUIPPED)**

**SECURICODE™ KEYLESS ENTRY KEYPAD**

The keypad is located near the driver window.

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

You can use the keypad to lock or unlock the doors without using a key.

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.
2. Press 1·2 on the keypad within five seconds.
3. 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, 7·8 or 9·0 to save personal code 3.

You may also program a personal entry code through the MyFord Touch system.

**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.

**Note:** Personal entry codes 3, 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.
3. Press and hold 1·2 for two seconds. You must do this within five seconds of completing Step 2.

All personal codes will erase 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 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 disable the two-stage unlocking mode. See **Locking and Unlocking** (page 56).

**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.

**Displaying the Factory Set Code**

**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:

1. 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.
PASSIVE ANTI-THEFT SYSTEM (IF EQUIPPED)

**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 the engine. Prevent these objects from touching the coded key while starting the engine. Switch the ignition off, move all objects on the key chain away from the coded key and restart the engine if a problem occurs.

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

SecuriLock™

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

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

**Automatic Arming**

The system arms immediately after you switch the ignition off.

**Automatic Disarming**

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

Replacement Keys

**Note:** Your vehicle may have two integrated keyhead transmitters.

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

If your programmed transmitters or standard SecuriLock coded keys 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 an authorized dealer to purchase additional spare or replacement keys.

**Programming a Spare Key**

**Note:** You can program a maximum of eight coded keys to your vehicle. Only four of these 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 engine immobilizer keycode and the remote entry portion of the remote control to your vehicle.

Only use integrated keyhead transmitters or standard SecuriLock keys.

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.
Security

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.
4. After three seconds but within 10 seconds of switching the ignition off, insert the second previously coded key into the ignition.
5. 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.
7. 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 until you hear the door locks cycle.
9. Remove the newly programmed coded key from the ignition.

The key will start the engine if programming is successful. You can operate the remote entry system if the new key is an integrated keyhead transmitter.

If programming was not successful, wait 20 seconds and repeat Steps 1 through 8. If you are still unsuccessful, take your vehicle to an authorized dealer.

**ANTI-THEFT ALARM (IF EQUIPPED)**

The system warns you of an unauthorized entry to your vehicle. It triggers if any door or the hood opens without using the key, remote control or keyless entry keypad.

The direction indicators flash and the horn sounds if the system triggers 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 the ignition. Electronically lock the vehicle to arm the alarm.

The direction indicators flash once after you lock the vehicle. This indicates the alarm is in the pre-armed mode. It will fully arm in 20 seconds.

**Disarming the Alarm**

Disarm the alarm by any of the following actions:

- Press the power door unlock button within the 20-second pre-armed mode.
- Unlock the doors with the remote control or keyless entry keypad.
- Switch the ignition on or start the vehicle.
- Use a key in the driver door to unlock the vehicle, then switch the ignition 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.
Power Running Boards (If Equipped)

USING POWER RUNNING BOARDS

WARNINGS

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

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

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

Note: The running boards may operate more slowly in cool temperatures.

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

Automatic Power Deploy

The running boards automatically extend down and out when you open the door. This can help you enter and exit your vehicle.

Automatic Power Stow

When you close the doors, the running boards return to the stowed position after a two-second delay.

Manual Power Deploy

You can manually operate the running boards in the information display. See General Information (page 86).

Set the running boards in the deployed position (OUT) to access the roof.

The running boards return to the stowed position and enter automatic mode when the vehicle speed exceeds 5 mph (8 km/h).

Enabling and Disabling

You can enable and disable the power running board feature in the information display. See General Information (page 86).
Power Running Boards (If Equipped)

- When disabled (OFF), the running boards move to the stowed position regardless of the door position.
- When enabled (AUTO), the running boards move back to the correct positions based on the door position.

**Bounce-back**

The running board will reverse direction and move to the end of travel if it encounters an object while moving.
ADJUSTING THE STEERING WHEEL

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

Note: Make sure that you are sitting in the correct position. See Sitting in the Correct Position (page 112).

1. Unlock the steering column.
   Note: The telescopic adjustment is an optional feature.

2. Adjust the steering wheel to the desired position.

3. Lock the steering column.

Power Tilt and Telescope Steering Column (If Equipped)

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

Note: Make sure that you are sitting in the correct position. See Sitting in the Correct Position (page 112).
Steering Wheel

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

To adjust:
• tilt: press the top or bottom of the control
• telescope: press the front or rear of the control.

Memory Feature
You can save and recall the steering column position with the memory function. See Memory Function (page 116).

Pressing the adjustment control during memory recall cancels the operation. The column responds to the adjustment control.

Easy Entry and Exit Feature
The column moves to the full up and in position when you switch the ignition off. It returns to the previous setting when you switch the ignition on. You can enable or disable this feature in the information display.

AUDIO CONTROL (IF EQUIPPED)
You can operate the following functions with the control:

Type 1

A  Volume up
B  Seek up or next
C  Media
D  Seek down or previous
E  Volume down

Type 2

A  Volume up
B  Seek up or next
C  Media
Steering Wheel

D Seek down or previous
E Volume down

Media
Press repeatedly to scroll through available audio modes.

Seek, Next or Previous
Press the seek button to:
• tune the radio to the next or previous stored preset
• play the next or 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.

VOICE CONTROL (IF EQUIPPED)

A Voice recognition
B Phone mode
C Confirm selection

See SYNC™ (page 325). See MyFord Touch™ (page 361).

CRUISE CONTROL (IF EQUIPPED)

E166638
See Cruise Control (page 174).

INFORMATION DISPLAY CONTROL

Type 1

E166639

Type 2

E166640
See Information Displays (page 86).

66
**Pedals**

**ADJUSTING THE PEDALS (IF EQUIPPED)**

**Note:** Never use the controls while your feet are on the accelerator and brake pedals and the vehicle is moving.

You can find the control on the left side of the steering column. Press and hold the appropriate side of the control to move the pedals.

![Pedal Adjustment Illustration]

A. Farther  
B. Closer

You can save and recall the pedal positions with the memory feature. See **Memory Function** (page 116).

**Note:** Adjust the pedals only when your vehicle is in **P** (Park).
Wipers and Washers

WINDSHIELD WIPERS

**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:** 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.

![Wiper Control](image1)

Rotate the end of the control:
- Away from you to increase the wiper speed.
- Toward you to decrease the wiper speed.

Speed dependent wipers (if equipped)

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

AUTOWIPERS (if equipped)

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

**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.
- Change the wiper speed to normal or high-speed wipe as necessary.
- Switch the autowipers off.

The autowipers feature uses a rain sensor, located 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. You can switch this feature on or off in the information display. See Information Displays (page 86).

![Autowipers Control](image2)
Use the rotary control to adjust the sensitivity of the rain sensor. With low sensitivity, the wipers will operate when the sensor detects a large amount of moisture on the windshield. With high sensitivity, the wipers will operate when the sensor detects a small amount of moisture on the windshield.

Keep the outside of the windshield clean because the rain sensor is very sensitive. If the area around the interior mirror is dirty, then the wipers may turn on, for example, if dirt, mist or insects hit the windshield.

**WINDSHIELD WASHERS**

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

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

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

A wipe will occur a few seconds after washing to clear any remaining washer fluid. You can switch this feature on or off in the information display. See *Information Displays* (page 86).
LIGHTING CONTROL

- Rotate the headlamp control clockwise to the first position to turn on the parking lamps, instrument panel lamps, license plate lamps and tail lamps.
- Rotate clockwise to the second position to also turn on the headlamps.

High Beams

Push the lever toward the instrument panel to switch the high beams on.
Push the lever toward the instrument panel again or pull the lever towards you to switch the high beams off.

Headlamp Flasher

Pull the lever toward you to flash the headlamps and release the lever to switch the headlamps off.

AUTOLAMPS (IF EQUIPPED)

The autolamp system provides light sensitive automatic on-off control of the exterior lights normally controlled by the headlamp control.
The autolamp system also keeps the lights on for a predetermined amount of time after the ignition switch is turned to off.
Using the message center, you can select a delay from 0–180 seconds.
Lighting

- To turn autolamps on, rotate the control to the fourth position.
- To turn autolamps off, rotate the control to the first, second, or third position.

INSTRUMENT LIGHTING DIMMER

Use the instrument lighting dimmer control to adjust the brightness of the instrument panel and all applicable lit components in your vehicle.

- Tap the left or right of the control to the first detent to brighten or dim all interior lit components incrementally.
- Press and hold the left or right of the control to the first detent until the desired lighting level is reached.
- Press and hold the right of the control to the second detent to switch the interior lights on.
- Press and hold the left of the control to the second detent to switch the interior lights off.

DAYTIME RUNNING LAMPS (IF EQUIPPED)

WARNING

Always remember to switch your headlamps on in low light situations or during inclement weather. The system does not activate the tail lamps and may not provide adequate lighting during these conditions. Failure to activate your headlamps under these conditions may result in a collision.

The system turns the headlamps on with a reduced intensity output (halogen headlamps) or turns the front turn lamps on (HID headlamps) in daylight conditions. To switch the system on:
1. Ignition switch is in the on position.
2. Switch the lighting control to the off, autolamp or parking lamp position.

FRONT FOG LAMPS (IF EQUIPPED)

The headlamp control also operates the fog lamps. The fog lamps can be turned on only when the headlamp control is in the parking lamp (second) position, headlamps on (third) position, or autolamp (fourth) position, and the high beams are not turned on.
Pull headlamp control towards you to turn fog lamps on. The fog lamp indicator light will illuminate.

**DIRECTION INDICATORS**

The turn signal lever does not mechanically lock in the upward or downward position when activated. The turn signal control activation and cancellation is electronic.

- To operate the left turn signal, push the lever down until it stops and release.
- To operate the right turn signal, push the lever up until it stops and release.
- To manually cancel turn signal operation, push the lever again in either direction.

**Lane Change**

To indicate a left or right lane change:

- Push the lever up/down to the first stop position and release. The turn signals will flash three times and stop.
- Push the lever up/down to the first stop position and hold. The turn signals will flash for as long as the lever is held in this position.

**INTERIOR LAMPS**

**Front Row Map Lamps (if equipped)**

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

- Any door is opened.
- You press and hold the instrument panel dimmer switch to the right past the second detent.
- Any of the remote entry controls are pressed and the ignition is in the off position.

**Rear Dome Lamp (If Equipped)**

The rear dome lamp can be turned on or off by sliding the control.
Lighting

- **ON**: The dome light will stay on.
- **DOOR** or middle position: The dome light will only come on if a door is opened.
- **OFF**: The lamp will not come on at all.

**Rear Dome, Courtesy Lamps (If Equipped)**

The dome lamp lights when:
- Any door is opened.
- You press the instrument panel dimmer switch until the courtesy lamp turns on.
- You press any of the remote entry controls and the ignition is off.

**Note:** You can only turn the reading portion and the two outer lights on and off at the lamp.

**Rear Courtesy, Reading, Cargo Lamps (If Equipped)**

You can press the dimmer switch until the rear lamps come on, or when any door is opened. The lamps can be turned on or off by sliding the control.

- When the control is in the middle position, the lamp will come on when a door is opened or the unlock button is pressed on the remote keyless entry.
- If the control is moved to the left position, the lamp will stay on.
- If the control is moved to the right position, the lamp will not come on at all.
Windows and Mirrors

POWER WINDOWS (IF EQUIPPED)

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 Up or Down (If Equipped)

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

Note: The window may disable for up to five minutes if you cycle it up and down repeatedly. This helps prevent damage to the motor. Normal operation will resume once the motor cools.

Restoring the One-Touch Up Function

You may lose the one-touch function if the vehicle battery is low.

Note: Perform one-touch up re-calibration with the door closed. Calibrating with the door open will cause the window to continuously bounce back.

To reset the function after the battery recharges:

1. Pull the switch all the way up.
2. Hold the switch until the glass stops and continue to hold for two seconds.
3. Press the switch down and operate the window to the full down position.
   One-touch up will now be functional.

Bounce-Back (If Equipped)

The window will stop automatically while closing. It will reverse 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 two seconds of the window reaching the bounce-back position. The window will travel up with no bounce-back protection. The window will stop if you release the switch before the window closes fully.
Windows and Mirrors

**Window Lock (If Equipped)**

A  Unlock  
B  Lock  

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

**Power Sliding Back Window (If Equipped)**

**WARNINGS**

![Warning symbol]
When operating the power sliding back window, you must make sure all rear seat occupants and cargo are not in the proximity of the back window.

![Warning symbol]
Do not leave children unattended in your vehicle and do not let them play with the power sliding back window. They may seriously injure themselves.

The control is on the overhead console.

Press and hold the control to open the window. Pull and hold the control to close the window.

**Accessory Delay (If Equipped)**

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

**EXTERIOR MIRRORS**

**Power Exterior Mirrors**

**WARNING**

Do not adjust the mirrors when your vehicle is moving.

To adjust your mirrors:
1. Select the mirror you want to adjust.
2. Move the control in the direction you want to tilt the mirror.
3. Return the control to the center position to lock the mirrors in place.
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.

Power-Folding Mirrors (If Equipped)

Note: Moving the mirrors 10 or more times within one minute, or repeated folding and unfolding of the mirrors while holding the control down during full travel, may disable the system to protect the motors from overheating. Wait approximately three minutes with the vehicle running, and up to 10 minutes with the vehicle off, for the system to reset and for function to return to normal.

Pull the control back to fold the mirrors in or out.

Loose Mirror

You can manually fold a power-folding mirror by pulling it toward the door window glass. This may cause the mirror to appear loose and it will need to be re-synchronized. Pull and hold the control to fold the mirrors in until the movement stops. You will hear a click that indicates re-synchronization. If you do not hear a click, use the control to fold the mirrors all the way out, then in again. Once you hear the click, the mirrors will operate normally until you fold them manually again.

Heated Exterior Mirrors (If Equipped)

See Heated Windows and Mirrors (page 110).

Memory Mirrors (If Equipped)

You can save and recall the mirror positions through the memory function. See Memory Function (page 116).

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 rear-facing portion of the appropriate mirror housing will blink when you switch on the turn signal.

Clearance Lamps (If Equipped)

The lower, outer part of the mirror housings light when you switch the headlamps or parking lamps on.

Telescoping Mirrors (If Equipped)

This feature lets you extend the mirror about 3 inches (75 millimeters). It is useful when towing a trailer. You can manually pull out or push in the mirrors to the desired position.
PowerScope™ Power Telescoping Mirrors (If Equipped)

This feature lets you position both mirrors at the same time. The switch is on the door trim panel.

Press and hold the switch to move the mirrors.
When you fully extend the mirrors, you will hear the motors running as long as you hold the switch.

Integrated Blind Spot Mirror (If Equipped)

**WARNING**

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

Blind spot mirrors have an integrated convex mirror built into the upper outboard corner of the exterior mirrors. They can assist you by increasing visibility along the side of your vehicle. The blind spot mirror is only on the driver exterior mirror.

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

**Interior Mirror**

**WARNING**

Do not adjust the mirror when your vehicle is moving.
Windows and Mirrors

**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**

**Slide-on-rod (If Equipped)**

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

**Illuminated Vanity Mirror (If Equipped)**

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.

You can manually open or close the sliding shade when the moonroof is closed. Pull the shade toward the front of your 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, press the control a second time.
Opening and Closing the Moonroof

Press and release the SLIDE control to open the moonroof. The moonroof 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. Press and release the control again to fully open the moonroof.

Pull and release the SLIDE control to close the moonroof.

**Bounce-Back**

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

Pull and hold the SLIDE control within two seconds of a bounce-back event to override this function. While bounce-back is active, the closing force increases for each of the next three times that you close the moonroof.

**Venting the Moonroof**

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

GAUGES

A  Engine oil pressure gauge
B  Engine coolant temperature gauge
C  Fuel gauge
D  Transmission fluid temperature gauge
E  Speedometer
F  Information display  See General Information (page 86).
G  Tachometer
**Engine Oil Pressure Gauge**

Indicates engine oil pressure. The needle should stay in the normal operating range (between L and H). If the needle falls below the normal range, stop the vehicle, turn off the engine and check the engine oil level. Add oil if needed. If the oil level is correct, have your vehicle checked by your authorized dealer.

**Engine Coolant Temperature Gauge**

**WARNING**

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

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.

**Fuel Gauge**

Switch the ignition on. The fuel gauge will indicate approximately how much fuel is left in the fuel tank. The fuel gauge may vary slightly when your vehicle is moving or on a gradient. The arrow adjacent to the fuel pump symbol indicates on which side of the vehicle the fuel filler door is located.

**Transmission Fluid Temperature Gauge**

Indicates transmission fluid temperature. At normal operating temperature, the level indicator will be in the normal range. If the transmission fluid temperature exceeds the normal range, stop the vehicle as soon as safely possible and verify the airflow is not restricted such as snow or debris blocking airflow through the grill. Also, higher than normal operating temperature can be caused by special operation conditions (i.e. snowplowing, towing or off-road use). Refer to Special operating conditions in the scheduled maintenance information for instructions. Operating the transmission for extended periods of time with the gauge in the higher than normal area may cause internal transmission damage. Altering the severity of the driving conditions is recommended to lower the transmission temperature into the normal range. If the gauge continues to show high temperatures, see your authorized dealer.

**Information Display**

**Odometer**

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

**Trip Computer**

See General Information (page 86).

**Vehicle Settings and Personalization**

See General Information (page 86).

**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.
Instrument Cluster

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.

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.

Brake System

Illuminates 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 your authorized dealer immediately. Driving extended distances with the parking brake engaged can cause brake failure and the risk of personal injury.

Check 4X4 (If Equipped)

Illuminates with the message CHECK 4X4 when a four-wheel drive fault is present. See Using Four-Wheel Drive (page 151).

Cruise Control (If Equipped)

Illuminates when you switch this feature on. See Using Cruise Control (page 174).

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.

Door Ajar

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

Electronic Locking Differential

Illuminates when using the electronic locking differential.

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 238).
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.

**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.

**High Beam**

Illuminates when you switch the high beam headlamps on. It will flash when you use the headlamp flasher.

**Hill Descent (If Equipped)**

Illuminates when hill descent is switched on.

**Low Fuel Level**

Illuminates when the fuel level is low or the fuel tank is nearly empty. Refuel as soon as possible.

**Low Tire Pressure Warning**

Illuminates 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.

**Powertrain Malfunction/Reduced Power/Electronic Throttle Control**

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 (OBD-II) system has detected a malfunction of the vehicle emissions control system. Refer to On-Board Diagnostics (OBD-II) in the Fuel and Refueling chapter for more information about having your vehicle serviced. See Emission Control System (page 142).

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.

**Note:** Under engine misfire conditions, excessive exhaust temperatures could damage the catalytic converter or other vehicle components.

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 142).

**Traction and Stability Control**

Illuminates 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 166).

**Traction and Stability Control Off**

Illuminates 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 166).

**Transmission Tow/Haul (If Equipped)**

Illuminates when the tow/haul feature has been activated. If the light flashes steadily, have the system serviced immediately, damage to the transmission could occur. See Automatic Transmission (page 145).

**AUDIBLE WARNINGS AND INDICATORS**

**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.

**Key in Ignition Warning Chime**

Sounds when you open the driver's door and you have left the key in the ignition with it in the off or accessory position.
Parking Brake On Warning Chime

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

WARNING

Driving while distracted can result in loss of vehicle control, 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.

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)

Press the INFO button to scroll through trip, fuel usage, trailer gain and MyKey® information.

Press the SETUP button to scroll through various vehicle feature settings.

Press the RESET button to choose settings, reset information and confirm messages.

Info

Press the INFO button repeatedly to cycle through the following features:

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

<table>
<thead>
<tr>
<th>INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIP A or B</td>
</tr>
<tr>
<td>MYKEY MILES (km) (if programmed)</td>
</tr>
<tr>
<td>MILES (km) TO E</td>
</tr>
<tr>
<td>AVG MPG (L/100km)</td>
</tr>
<tr>
<td>MPG (L/km)</td>
</tr>
<tr>
<td>TIMER</td>
</tr>
<tr>
<td>TBC GAIN (if equipped)</td>
</tr>
<tr>
<td>Blank</td>
</tr>
</tbody>
</table>

**TRIP A or B**
Registers the distance of individual journeys. Press and release the INFO button until TRIP A or B appears in the display (this represents the trip mode). Press and hold the RESET button to reset.

**MYKEY MILES (km)**
For more information, See Principle of Operation (page 52).

**MILES (km) TO E**
This displays an estimate of approximately how far you can drive with the fuel remaining in your tank under normal driving conditions. Remember to turn the ignition off when refueling to allow this feature to correctly detect the added fuel.
Distance to empty is calculated using a running average fuel economy, which is based on your recent driving history of 500 miles (800 km).
This value is not the same as the average fuel economy display. The running average fuel economy is re-initialized to a factory default value if the battery is disconnected.

**AVG MPG (L/100km)**
Average fuel economy displays your average fuel economy in miles/gallon or liters/100 km.

**MPG (L/km)**
Displays the instantaneous fuel economy as a bar graph. Your vehicle must be moving to calculate instantaneous fuel economy. Instantaneous fuel economy cannot be reset.

**TIMER**
Displays the trip elapsed drive time. Press and release RESET to pause the timer. Press and hold RESET to reset the timer.

**TBC GAIN**
Displays the level of trailer brake gain or if the trailer is not connected.

**System check and vehicle feature customization**
Press the SETUP button repeatedly to cycle the information display through the following features:
### Information Displays

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

**Note:** When returning to the SETUP menu and a non-English language has been selected, HOLD RESET FOR ENGLISH will be displayed to change back to English. Press and hold the RESET button to change back to English.

<table>
<thead>
<tr>
<th>SETUP</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RESET FOR SYSTEM CHECK</td>
<td>press the RESET button</td>
<td>XXX% OIL LIFE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DOOR STATUS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BRAKE SYSTEM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FUEL LEVEL LOW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TBC GAIN = XX.X or NO TRAILER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TBC GAIN = XX.X or OUTPUT = / / / / / /</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MYKEY DISTANCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MYKEY(S) PROGRAMMED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ADMIN KEYS PROGRAMMED</td>
</tr>
<tr>
<td>OIL LIFE XXX%</td>
<td>HOLD RESET=NEW</td>
<td>English or Metric</td>
</tr>
<tr>
<td>UNITS</td>
<td>press the RESET button</td>
<td>0 to 180 seconds</td>
</tr>
<tr>
<td>AUTOLAMP (SEC)</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>AUTOLOCK</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>AUTOUNLOCK</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>COURTESY WIPE</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>EASY ENTRY EXIT</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>REAR PARK AID</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>TRAILER SWAY</td>
<td></td>
<td>ON or OFF</td>
</tr>
<tr>
<td>CREATE MYKEY, MYKEY SETUP or CLEAR MYKEY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESET FOR REMOTE START</td>
<td>press the RESET button</td>
<td>ON or OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5, 10, 15 minutes</td>
</tr>
</tbody>
</table>


Press Reset for System Check

The information display will begin to cycle through the vehicle systems and provide a status of the item if needed.

**Note:** Some systems show a message only if a condition is present

**OIL LIFE XXX%**

Displays the remaining oil life. An oil change is required whenever indicated by the information display and according to the recommended maintenance schedule. USE ONLY RECOMMENDED ENGINE OILS.

To reset the oil monitoring system to 100% after each oil change, perform the following:

1. Press and release the SETUP button to display OIL LIFE XXX% HOLD RESET = NEW.
2. Press and hold the RESET button for two seconds and release to reset the oil life to 100%.

**Note:** To change oil life 100% value (if equipped with this feature) to another value, proceed to Step 3.

3. Once OIL LIFE SET TO XXX% is displayed, release and press the RESET button to change the Oil Life Start Value. Each release and press will reduce the value by 10%.

**UNITS**

Displays the current units English or Metric

**AUTOLAMP (SEC)**

This feature keeps your headlights on for up to three minutes after the ignition is switched off.

**AUTOLOCK**

This feature automatically locks all vehicle doors when the vehicle is shifted into any gear, putting the vehicle in motion.

**AUTOUNLOCK**

This feature automatically unlocks all vehicle doors when the driver’s door is opened within 10 minutes of the ignition being turned off.

**COURTESY WIPE**

This feature allows for an extra swipe of the wipers after a wipe/wash cycle.

**EASY ENTRY EXIT**

This feature automatically moves the driver’s seat rearward and adjusts the steering wheel for easy exit/entry from the vehicle.

**REAR PARK AID (if equipped):**

This feature sounds a warning tone to warn the driver of obstacles near the rear bumper, and functions only when R (Reverse) gear is selected.

**TRAILER SWAY (if equipped)**

This feature uses the electronic stability control to mitigate trailer sway.
CREATE MYKEY, MYKEY SETUP or CLEAR MYKEY
For more information, See Creating a MyKey (page 52).

RESET FOR REMOTE START (if equipped)

LANGUAGE = ENGLISH, SPANISH or FRENCH
Allows you to choose which language the message center will display in.
Waiting four seconds or pressing the RESET button cycles the message center through each of the language choices.
Press the RESET button to set the language choice.

Information Display Controls (Type 2) (If Equipped)

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

Main menu
You can access the menus using the information display control.

- Gauge Mode
- Trip A / B
- Fuel Economy
- Truck Apps (If Equipped)
- Settings
- Information

Gauge Mode
Use the arrow buttons to choose between the following gauge options.
## Information Displays

### Gauge Mode

<table>
<thead>
<tr>
<th>Gauge Detail</th>
<th>Trans Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compass</td>
<td>The compass orientation can be changed between fixed north or rotating north. To change the modes, press OK when the compass display is shown. Use the right arrow to choose the mode. Press and hold OK to set the mode.</td>
</tr>
<tr>
<td>2–speed Auto 4X4</td>
<td>Displays power distribution between the front and rear wheels. More power to either front or rear wheels will be displayed by more area filled in.</td>
</tr>
<tr>
<td>Blank</td>
<td></td>
</tr>
</tbody>
</table>

### Trip A / B

- Use the arrow buttons to choose between the following trip options.

| Trip A / B                     |  
|-------------------------------|---------------------|
| Trip time                    | Registers the time of individual journeys. |
| Trip distance                | Registers the mileage of individual journeys. |
| Gal used                      |                     |
| Avg mpg (L/100km)             |                     |
| Odometer (displays in lower line and may display in other menus) |                     |

Press OK to pause the Trip A or B screen, press again to un-pause.
Press and hold OK to reset the currently displayed trip information.
**Information Displays**

**Gal used**
Shows the amount of fuel used for a given trip.

**Avg MPG**
Shows the average distance traveled per unit of fuel used for a given trip.

<table>
<thead>
<tr>
<th>Fuel Economy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Econ.</td>
</tr>
<tr>
<td>Instant MPG (L/100km)</td>
</tr>
<tr>
<td>mi (km) to E</td>
</tr>
<tr>
<td>AVG MPG (L/100km)</td>
</tr>
<tr>
<td>Options</td>
</tr>
<tr>
<td>5, 10, 30 Minutes or Last 5 Resets</td>
</tr>
</tbody>
</table>

Hold OK to Reset, this resets the currently displayed fuel economy information.

**Instant MPG**
Shows your instantaneous fuel usage.

**mi to E**
Shows the approximate distance your vehicle can travel before running out of fuel.

**Average MPG**
Shows the average fuel usage based on time. Press and hold OK to reset this value.

**Fuel Hist.**
Shows fuel usage as a bar graph based on time. The graph is updated each minute with the fuel economy that was achieved during the prior 5, 10, 30 minutes of driving.

**Truck Apps**
In this mode, off-road information depicted with graphics and trailer towing application options are available.

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

<table>
<thead>
<tr>
<th>Truck Apps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off Road</td>
</tr>
<tr>
<td>AdvanceTrac® mode, hill descent control, off-road mode, off-road camera: Displays which modes are active. (SVT Raptor)</td>
</tr>
<tr>
<td>Pitch and bank angle (in degrees)</td>
</tr>
<tr>
<td>Steering angle (in degrees)</td>
</tr>
<tr>
<td>Differential lock/unlock</td>
</tr>
<tr>
<td>Torque flow</td>
</tr>
<tr>
<td>Press OK for Info</td>
</tr>
<tr>
<td>4X4 System</td>
</tr>
</tbody>
</table>

F150 (TF6)
## Information Displays

### Truck Apps

<table>
<thead>
<tr>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdvanceTrac®</td>
</tr>
<tr>
<td>2–speed Auto 4X4</td>
</tr>
<tr>
<td>ELD (Electronic Locking Differential)</td>
</tr>
<tr>
<td>Hill Descent Control</td>
</tr>
</tbody>
</table>

### Truck Apps (cont’d)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off Road (cont’d)</td>
<td>Press OK for Info</td>
</tr>
<tr>
<td>Off-Road Mode</td>
<td>Off-Road Camera (SVT Raptor) Press OK to Enable / Disable</td>
</tr>
<tr>
<td>Trailer Disconnect</td>
<td>Trail Name or Default Trailer</td>
</tr>
<tr>
<td>Accumulated trailer distance</td>
<td></td>
</tr>
<tr>
<td>Trailer gain and output</td>
<td></td>
</tr>
<tr>
<td>Press OK for options</td>
<td>Change Active Trailer</td>
</tr>
<tr>
<td></td>
<td>Connection Checklist (if equipped)</td>
</tr>
<tr>
<td></td>
<td>Conventional, Fifth Wheel or Gooseneck.</td>
</tr>
<tr>
<td></td>
<td>Delete Trailer</td>
</tr>
<tr>
<td></td>
<td>Information Screen</td>
</tr>
<tr>
<td></td>
<td>Tow Haul mode or Trailer Brake Controller</td>
</tr>
<tr>
<td></td>
<td>Rename Trailer</td>
</tr>
<tr>
<td></td>
<td>Reset Trailer Mileage / Kilometers (if equipped)</td>
</tr>
</tbody>
</table>

### Pitch and bank angle (in degrees)

Displays the pitch angle (front to rear) and bank angle (side to side) of the road surface.

### Steering angle (in degrees)

Displays the steering angle of the front wheels after the vehicle has been driven for a period of time.

### Differential lock/unlock

Displays the state (locked or unlocked) of the electronic locking differential.

### Torque flow

Displays the torque flow to the front and rear driveline and operating mode of the transfer case: 4X2, 4X4 High, 4X4 Low, 4X4 Auto.
**Trailer disconnected**
Disregard this status if your vehicle is not equipped with a factory installed trailer brake controller. This message may appear when an aftermarket TBC is used even when the trailer is connected.

**Change Active Trailer**
When this is highlighted, press the right arrow key to change the currently selected trailer. Use the up and down arrows to select a trailer and press the OK button to choose the highlighted trailer.

**Adding a new trailer**
Use the up/down arrows to highlight New Trailer and press the right arrow key to enter the New Trailer input screen. Use the up/down arrow keys to choose alpha, numeric and symbol characters and then press the right arrow to move the character space over. Continue adding characters as needed. Press the left arrow to go back and change a previously selected character. When finished with the new trailer name, press OK to accept the new trailer name.

**Connection Checklist**
Use the up/down arrows to highlight one of these choices and press OK to display the connection checklist. Follow the on-screen instructions to go through the connections list.

**Delete Trailer**
Use the up/down arrows to highlight the trailer you want to delete and press OK to delete. Follow the on-screen prompts to exit or confirm delete.

**Rename Trailer**
Use the up/down buttons to highlight a trailer and press OK to select it. Use the up/down arrow buttons to change the characters as needed. When done, press OK to accept the change.

**Reset Trailer Mileage / Kilometers**
Use the up/down buttons to select a trailer, then press and hold OK to reset the trailer mileage (kilometers).

**Settings**
Use the arrow buttons to configure different driver setting choices.

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

<table>
<thead>
<tr>
<th>Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Assist</td>
<td>Rear Park Aid</td>
</tr>
<tr>
<td></td>
<td>On or Off</td>
</tr>
<tr>
<td>Rear Video Camera</td>
<td>Camera Delay</td>
</tr>
<tr>
<td></td>
<td>On or Off</td>
</tr>
<tr>
<td></td>
<td>Visual Park Aid</td>
</tr>
<tr>
<td></td>
<td>On or Off</td>
</tr>
<tr>
<td></td>
<td>Guidelines</td>
</tr>
<tr>
<td></td>
<td>Fixed or Off</td>
</tr>
<tr>
<td></td>
<td>Zoom Levels</td>
</tr>
<tr>
<td></td>
<td>On or Off</td>
</tr>
<tr>
<td>Trailer Brake Mode</td>
<td>Electric or Elect. Over Hydraulic</td>
</tr>
<tr>
<td>Trailer Sway Control</td>
<td>On or Off</td>
</tr>
</tbody>
</table>

94

F150 (TF6)
# Information Displays

## Settings

<table>
<thead>
<tr>
<th>Settings</th>
<th>Vehicle</th>
<th>Autolamp Delay</th>
<th>Off or XXX seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Settings (cont’d)</td>
<td>Autolamp Delay</td>
<td>Normal history used</td>
<td>One Stage or Two Stage</td>
</tr>
<tr>
<td>DTE Calculation</td>
<td>Normal history used</td>
<td>Towing history used</td>
<td></td>
</tr>
<tr>
<td>Easy Entry/Exit</td>
<td>On or Off</td>
<td>Autolock</td>
<td>On or Off</td>
</tr>
<tr>
<td>Locks</td>
<td>Autounlock</td>
<td>On or Off</td>
<td></td>
</tr>
<tr>
<td>Unlocking</td>
<td>One Stage or Two Stage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Menu Control</td>
<td>Standard or Memory On</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil Life Reset</td>
<td>Set to XXX% (Hold OK to Reset)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pwr Running Boards</td>
<td>Auto, Off or Out</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Settings (cont’d)

<table>
<thead>
<tr>
<th>Settings (cont’d)</th>
<th>Vehicle (cont’d)</th>
<th>Remote Start</th>
<th>Climate Control</th>
<th>Front Defrost</th>
<th>Rear Defrost</th>
<th>Driver Seat</th>
<th>Passenger Seat</th>
<th>Heater-A/C</th>
<th>Auto/Off</th>
<th>Auto or Last Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>5, 10, 15 minutes or Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quiet Start</td>
<td>On or Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wiper Control</td>
<td>Courtesy Wipe</td>
<td>On or Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rain Sensing Wipers</td>
<td>On or Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Information Displays

#### Settings (cont’d)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MyKey</strong></td>
<td>Create MyKey Hold OK to create MyKey</td>
</tr>
<tr>
<td><strong>AdvanceTrac</strong></td>
<td>Always On or Selectable</td>
</tr>
<tr>
<td><strong>MAX Speed</strong></td>
<td>80 MPH (130 km/h) or Off</td>
</tr>
<tr>
<td><strong>Speed Warning</strong></td>
<td>45, 55 or 65 MPH (75, 90 or 105 km/h), Off</td>
</tr>
<tr>
<td><strong>Volume Limiter</strong></td>
<td>On or Off</td>
</tr>
<tr>
<td><strong>Clear MyKey</strong></td>
<td>Hold OK to Clear MyKey</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>English, Español, Français (Hold OK to Set)</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>Distance Miles &amp; Gallons</td>
</tr>
<tr>
<td></td>
<td>L/100km</td>
</tr>
<tr>
<td></td>
<td>km/L</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>Celsius (°C)</td>
</tr>
<tr>
<td></td>
<td>Fahrenheit (°F)</td>
</tr>
</tbody>
</table>

#### Information

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

<table>
<thead>
<tr>
<th>Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MyKey</strong></td>
<td>MyKeys (Number of MyKeys programmed)</td>
</tr>
<tr>
<td></td>
<td>Admin Keys (Number of admin keys)</td>
</tr>
<tr>
<td></td>
<td>MyKey Miles (km) (Distance traveled using a programmed MyKey)</td>
</tr>
<tr>
<td><strong>System Check</strong></td>
<td>Some items will only display during a system check if a problem has been detected. If an issue exists on one of the monitored systems, the number of warnings that need immediate attention will display in red and the number of informational warnings will display in amber. Use the up/down arrow buttons to scroll through the list; press the right arrow button to display specific information on the highlighted warning</td>
</tr>
</tbody>
</table>
Transmission indicator display (if equipped)

The transmission gear indicator displays in the right side of the information display when using the SelectShift Automatic™ transmission feature. These displays will not be shown in all screen modes. For example: when programming certain vehicle features or in certain information menus.

INFORMATION MESSAGES

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

Press the RESET button for Type 1 displays or the OK button for Type 2 displays 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.

AdvanceTrac® and Traction Control

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERVICE ADVANCECETRAC</td>
<td>Displays when the system detects a condition that requires service. Contact your authorized dealer as soon as possible.</td>
</tr>
<tr>
<td>ADVANCECETRAC OFF</td>
<td>Displayed when the AdvanceTrac® system has been disabled by the driver.</td>
</tr>
<tr>
<td>ADVANCECETRAC ON</td>
<td>Displayed when the AdvanceTrac® system has been enabled by the driver.</td>
</tr>
<tr>
<td>ADVANCECETRAC SPORT MODE</td>
<td>Displayed when the AdvanceTrac® sport mode has been enabled by the driver. (SVT Raptor)</td>
</tr>
<tr>
<td>TRACTION CONTROL OFF</td>
<td>Displayed when the traction control has been disabled by the driver. See Using Traction Control (page 164).</td>
</tr>
<tr>
<td>TRACTION CONTROL ON</td>
<td>Displayed when the traction control has been enabled by the driver. See Using Traction Control (page 164).</td>
</tr>
</tbody>
</table>

Airbag

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOVE OBJECTS NEAR PASSENGER SEAT</td>
<td>Displays when the system detects a malfunction due to a blocked sensor.</td>
</tr>
</tbody>
</table>
## Information Displays

### Alarm and Security

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO STOP ALARM START VEHICLE</td>
<td>Displays when the alarm has been triggered due to unauthorized entry. See <strong>Anti-Theft Alarm</strong> (page 61).</td>
</tr>
<tr>
<td>SECURITY SYSTEM FAULT</td>
<td>Displays when the security system has detected a fault. See your authorized dealer for service.</td>
</tr>
</tbody>
</table>

### Battery and Charging System

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURN POWER OFF TO SAVE BATTERY</td>
<td>Displayed when the battery management system determines that the battery is at a low state of charge or, the ignition has been in accessory position or on position with the engine off for approximately 45 minutes. Turn the ignition off as soon as possible to protect the battery. This message will clear once the vehicle has been started and the battery state of charge has recovered. Turning off unnecessary electrical loads while driving will allow faster battery state-of-charge recovery. See <strong>Changing the 12V Battery</strong> (page 245).</td>
</tr>
<tr>
<td>LOW BATTERY FEATURES TEMPORARILY TURNED OFF</td>
<td>Displayed when the battery management system detects an extended low-voltage condition. Various vehicle features will be disabled 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.</td>
</tr>
</tbody>
</table>

### Doors and Locks

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>X DOOR AJAR</td>
<td>Displays when the door(s) listed is not completely closed.</td>
</tr>
</tbody>
</table>
# Information Displays

## Drivetrain

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCKING DIFFERENTIAL ENGAGED/DISENGAGED</td>
<td>Displayed when the electronic locking differential (ELD) is enabled or disabled.</td>
</tr>
<tr>
<td>TO ENGAGE LOCKING DIFFERENTIAL SLOW TO XX MPH/KM/H</td>
<td>Displays when the electronic locking differential requests a certain speed requirement to engage.</td>
</tr>
<tr>
<td>TO ENGAGE LOCKING DIFFERENTIAL RELEASE ACCELERATOR PEDAL</td>
<td>Displays when the electronic locking differential request the accelerator to be released in order to engage.</td>
</tr>
<tr>
<td>CHECK LOCKING DIFFERENTIAL</td>
<td>Displayed when an electronic locking differential (ELD) system fault is present. See <strong>Using Four-Wheel Drive</strong> (page 151).</td>
</tr>
<tr>
<td>SHIFT TO PARK</td>
<td>Displays as a reminder to shift into park.</td>
</tr>
<tr>
<td>NEUTRAL TOW ENABLED LEAVE TRANSMISSION IN NEUTRAL</td>
<td>Displayed when the transfer case is in the neutral position. This message indicates that the vehicle is safe to be towed with all four wheels on the ground.</td>
</tr>
<tr>
<td>NEUTRAL TOW DISABLED</td>
<td>Displayed when the transfer case is NOT in the neutral position. This message indicates that the vehicle is NOT safe to be towed with all four wheels on the ground.</td>
</tr>
</tbody>
</table>

## Engine

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER REDUCED TO LOWER ENGINE TEMP</td>
<td>Displays when the engine temperature gauge needle moves to H. See <strong>Engine Coolant Check</strong> (page 240).</td>
</tr>
</tbody>
</table>

## Fuel

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUEL LEVEL LOW</td>
<td>Displays as an early reminder of a low fuel condition.</td>
</tr>
<tr>
<td>CHECK FUEL FILL INLET</td>
<td>Displays when the fuel fill inlet may not be properly closed.</td>
</tr>
</tbody>
</table>
# Information Displays

## Key

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>COULD NOT PROGRAM INTEGRATED KEY</td>
<td>Displays when an attempt is made to program a fifth integrated key. See <a href="#">Replacing a Lost Key or Remote Control</a> (page 51).</td>
</tr>
<tr>
<td>TO DRIVE: TURN KEY TO ON</td>
<td>Displays when the factory equipped remote start is activated.</td>
</tr>
</tbody>
</table>

## Maintenance

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE OIL CHANGE SOON</td>
<td>Displays when the engine oil life is nearing its end. See <a href="#">Engine Oil Check</a> (page 238).</td>
</tr>
<tr>
<td>OIL CHANGE REQUIRED</td>
<td>Displayed when the oil life left reaches 0%. See <a href="#">Engine Oil Check</a> (page 238).</td>
</tr>
<tr>
<td>BRAKE FLUID LEVEL LOW</td>
<td>Indicates the brake fluid level is low and the brake system should be inspected immediately. See <a href="#">Brake Fluid Check</a> (page 244).</td>
</tr>
<tr>
<td>CHECK BRAKE SYSTEM</td>
<td>Displays when the brake system needs servicing. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.</td>
</tr>
<tr>
<td>SERVICE POWER STEERING</td>
<td>The power steering system has detected a condition that requires service. See your authorized dealer</td>
</tr>
<tr>
<td>SERVICE POWER STEERING NOW</td>
<td>The power steering system has detected a condition within the power steering system that requires service immediately. See your authorized dealer.</td>
</tr>
<tr>
<td>POWER STEERING ASSIST FAULT</td>
<td>The power steering system has disabled power steering assist due to a system error. See your authorized dealer.</td>
</tr>
</tbody>
</table>
## Information Displays

### MyKey®

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>MYKEY ACTIVE DRIVE SAFELY</td>
<td>Displays when MyKey is active.</td>
</tr>
<tr>
<td>ADVANCETRAC ALWAYS ON - MYKEY SETTING</td>
<td>Displays when a MyKey is in use and the ESC cannot be deactivated.</td>
</tr>
<tr>
<td>VEHICLE NEAR TOP SPEED</td>
<td>Displays when a MyKey is in use and the MyKey speed limit is on and the vehicle speed is approaching 80 mph (130 km/h).</td>
</tr>
<tr>
<td>VEHICLE AT TOP SPEED - MYKEY SETTING</td>
<td>Displays when a MyKey is in use and the MyKey speed limit is on and the vehicle speed is 80 mph (130 km/h).</td>
</tr>
<tr>
<td>SPEED LIMITED TO 80 MPH</td>
<td>Displays when starting the vehicle and MyKey is in use and the MyKey speed limit is on.</td>
</tr>
<tr>
<td>SPEED LIMITED TO 130 KM/H</td>
<td>Displays when starting the vehicle and MyKey is in use and the MyKey speed limit is on.</td>
</tr>
<tr>
<td>CHECK SPEED DRIVE SAFELY</td>
<td>Displayed when a MyKey is in use and the optional setting is on and the vehicle exceeds a preselected speed.</td>
</tr>
<tr>
<td>BUCKLE UP TO UNMUTE AUDIO</td>
<td>Displayed when a MyKey is in use and Belt-Minder® is activated.</td>
</tr>
<tr>
<td>MYKEY COULD NOT PROGRAM</td>
<td>Displayed when an attempt is made to program a spare key using two existing MyKeys.</td>
</tr>
</tbody>
</table>

### Park Aid

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHECK REAR PARK AID</td>
<td>Displays when the transmission is in R (Reverse) and the park aid is disabled.</td>
</tr>
<tr>
<td>REAR PARK AID OFF</td>
<td>Displays when the rear park aid is disabled by the driver.</td>
</tr>
<tr>
<td>REAR PARK AID ON</td>
<td>Displays when the rear park aid is enabled.</td>
</tr>
</tbody>
</table>
### Information Displays

#### Park Brake

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARK BRAKE ENGAGED</td>
<td>Displays when the parking brake is set and the vehicle is in motion.</td>
</tr>
</tbody>
</table>

#### Off Road

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR OFF ROAD SLOW TO 5 MPH</td>
<td>Displayed when the vehicle speed requirement for off-road mode entry has not been met.</td>
</tr>
<tr>
<td>OFF ROAD MODE ENABLED</td>
<td>Displayed when off-road mode becomes active.</td>
</tr>
<tr>
<td>EXITING OFF ROAD MODE</td>
<td>Displayed when off-road mode becomes inactive.</td>
</tr>
<tr>
<td>HILL DESCENT CONTROL ACTIVE</td>
<td>Displayed when hill descent control mode becomes active.</td>
</tr>
<tr>
<td>HILL DESCENT CONTROL OFF</td>
<td>Displays when hill descent control mode becomes inactive.</td>
</tr>
<tr>
<td>FOR HILL DESCENT REDUCE SPEED</td>
<td>Displays when the vehicle speed requirement for off-road mode entry has not been met.</td>
</tr>
<tr>
<td>FOR HILL DESCENT SELECT GEAR</td>
<td>Displays when the driver is able to select a transmission gear for hill descent mode.</td>
</tr>
<tr>
<td>HILL DESCENT - DRIVER RESUME CONTROL</td>
<td>Displays when hill descent control mode is deactivated and the driver must resume control.</td>
</tr>
<tr>
<td>HILL DESCENT CONTROL FAULT</td>
<td>Displays when a hill descent system fault is present.</td>
</tr>
<tr>
<td>HILL DESCENT CONTROL OFF SYSTEM COOLING</td>
<td>Displays when the hill descent system is cooling due to overuse.</td>
</tr>
<tr>
<td>HILL DESCENT CONTROL READY</td>
<td>Displays when the hill descent control switch is turned on.</td>
</tr>
<tr>
<td>CAMERA MALFUNCTION</td>
<td>Displayed when the front camera is not operating properly.</td>
</tr>
</tbody>
</table>
Information Displays

Tire Pressure Monitoring System

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW TIRE PRESSURE</td>
<td>Displays when one or more tires on your vehicle have low tire pressure. See Tire Pressure Monitoring System (page 282).</td>
</tr>
<tr>
<td>TIRE PRESSURE MONITOR Fault</td>
<td>Displays when the tire pressure monitoring system is malfunctioning. If the warning stays on or continues to come on, contact your authorized dealer. See Tire Pressure Monitoring System (page 282).</td>
</tr>
<tr>
<td>TIRE PRESSURE SENSOR Fault</td>
<td>Displayed when a tire pressure sensor is malfunctioning, or your spare tire is in use. For more information on how the system operates under these conditions, see See Tire Pressure Monitoring System (page 282). If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.</td>
</tr>
</tbody>
</table>

Trailer

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAILER BRAKE GAIN: XX.X [OUTPUT]</td>
<td>Displays the current gain setting for the trailer brake.</td>
</tr>
<tr>
<td>TRAILER BRAKE GAIN: XX.X NO TRAILER</td>
<td>Displays the current gain setting for the trailer brake when a trailer is not connected.</td>
</tr>
<tr>
<td>TRAILER BRAKE MODULE FAULT</td>
<td>Displayed and accompanied by a single chime, in response to faults sensed by the TBC. See Trailer Sway Control (page 190).</td>
</tr>
<tr>
<td>TRAILER CONNECTED</td>
<td>Displays when a correct trailer connection (a trailer with electric trailer brakes) is sensed during a given ignition cycle.</td>
</tr>
</tbody>
</table>
### Information Displays

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAILER DISCONNECTED</td>
<td>Displays when a trailer connection becomes disconnected, either intentionally or unintentionally, and has been sensed during a given ignition cycle. Disregard this status if your vehicle is not equipped with a factory installed trailer brake controller. This message may appear when an aftermarket TBC is used even when the trailer is connected.</td>
</tr>
<tr>
<td>TRAILER SWAY REDUCE SPEED</td>
<td>Displays when the trailer sway control has detected trailer sway.</td>
</tr>
<tr>
<td>WIRING FAULT ON TRAILER</td>
<td>Displays if there are certain faults in the vehicle wiring and trailer wiring/brake system. See [Towing a Trailer](page 189).</td>
</tr>
</tbody>
</table>

### 4WD

<table>
<thead>
<tr>
<th>Message</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHECK 4X4</td>
<td>Displays when a 4X4 system fault is present. See [Using Four-Wheel Drive](page 151).</td>
</tr>
<tr>
<td>4X4 SHIFT IN PROGRESS</td>
<td>Displays when the 4X4 system is making a shift.</td>
</tr>
<tr>
<td>FOR 4X4 LOW APPLY BRAKE</td>
<td>Displays when trying to select 4X4 LOW.</td>
</tr>
<tr>
<td>FOR 4X4 LOW SHIFT TO N</td>
<td>Displays when 4X4 LOW is selected and the vehicle is stopped.</td>
</tr>
<tr>
<td>FOR 4X4 LOW SLOW TO 3 MPH</td>
<td>Displays when 4X4 LOW is selected while the vehicle is moving.</td>
</tr>
<tr>
<td>TO EXIT 4X4 LOW APPLY BRAKE</td>
<td>Displays when 2WD is selected from 4X4 LOW mode.</td>
</tr>
<tr>
<td>TO EXIT 4X4 LOW SHIFT TO N</td>
<td>Displays when 2WD is selected while the vehicle has been stopped in 4X4 LOW.</td>
</tr>
<tr>
<td>TO EXIT 4X4 LOW SLOW TO 3 MPH</td>
<td>Displays when 2WD is selected while the vehicle is operating in 4X4 LOW.</td>
</tr>
<tr>
<td>SHIFT DELAYED PULL FORWARD</td>
<td>May display when shifting to or from 4X4 LOW.</td>
</tr>
</tbody>
</table>
A **Defrost:** Distributes air through the windshield defroster vents and demister vents. You can also use this setting to defog and clear the windshield of a thin covering of ice.

B **Rear defrost and heated mirrors:** Turns the heated mirrors off and on as well as the heated rear window, if your vehicle has that feature. See **Heated Windows and Mirrors** (page 110).

C **Air distribution control:** Press to set the air distribution to a position. **Floor and defrost** distributes air through the windshield defroster vents, demister vents and floor vents. **Panel** distributes air through the instrument panel vents. **Panel and floor** distributes air through the instrument panel vents, floor vents, and demister vents. **Floor** distributes air through the floor vents.

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

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

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

G **Temperature control:** Controls the temperature of the air circulated in your vehicle. Turn to select the desired temperature.
Climate Control

**Fan speed control:** Controls the volume of air circulated in your vehicle. Turn to select the desired fan speed or switch off. If you switch the fan off, the windshield may fog up.

**Power:** Press to turn the system off and on. When the system is off, outside air cannot enter the vehicle.

**Manual Climate Control**

**A** Fan speed control: Controls the volume of air circulated in your vehicle. Turn to select the desired fan speed.

**B** Rear defrost and heated mirrors: Turns the heated mirrors off and on as well as the heated rear window, if your vehicle has that feature. See Heated Windows and Mirrors (page 110).

**C** Defrost: Distributes air through the windshield defroster vents and demister vents. You can also use this setting to defog and clear the windshield of a thin covering of ice.

**D** Air distribution control: Press to set the air distribution to a position. Floor and defrost distributes air through the windshield defroster vents, demister vents and floor vents. Panel distributes air through the instrument panel vents. Panel and floor distributes air through the instrument panel vents, floor vents, and demister vents. Floor distributes air through the floor vents.
**Climate Control**

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

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

G  **Recirculated air:** Press to switch between outside air and recirculated air. When the air currently in the passenger compartment is recirculating, the LED on the button illuminates. Using recirculated air can reduce the time needed to cool the interior and reduce unwanted odors from entering your vehicle. Even when you do not select this button, air may still recirculate in some instances in order to reduce vehicle warm-up time in cold conditions or to cool down time in hot conditions. **Note:** Recirculated air engages automatically when you select MAX A/C, or turn on manually in any airflow mode except defrost. **Note:** You may notice changes in sound between recirculated mode and other airflow modes. **Note:** For better cooling in hot conditions, recirculated air automatically engages when the air distribution control is in panel or panel and floor modes and the air conditioning is on. You can switch to fresh air by pressing the recirculated air button again.

H  **Temperature control:** Controls the temperature of the air circulated in your vehicle. Turn to select the desired temperature.

I  **Power:** Press to turn the system off and on. When the system is off, outside air cannot enter the vehicle.
**Power and Driver temperature control:** Press to turn the climate control system off and on. When the system is off, outside air cannot enter the vehicle. Turn to increase or decrease the air temperature for the driver side of the vehicle. This control also adjusts the passenger side temperature when dual zone operation is disengaged.

**Rear defrost:** Turns the heated windows and mirrors off and on. See Heated Windows and Mirrors (page 110).

**Defrost:** Distributes air through the windshield defroster vents and demister vents. You can also use this setting to defog and clear the windshield of a thin covering of ice.

**Air distribution control:** Press to set the air distribution to a position. Floor and defrost distributes air through the windshield defroster vents, demister vents and floor vents. Panel distributes air through the instrument panel vents. Panel and floor distributes air through the instrument panel vents, floor vents, and demister vents. Floor distributes air through the floor vents.

**A/C:** Press to turn air conditioning off and on. Air conditioning cools the vehicle using outside air. To improve air conditioning when starting your vehicle, drive with the windows slightly open for two to three minutes. Use air conditioning with recirculated air to improve cooling performance and efficiency. **Note:** Air conditioning turns on automatically in MAX A/C, defrost and floor and defrost modes.
Climate Control

F **MAX A/C:** Distributes recirculated air through the instrument panel vents to cool the vehicle. This position is more economical and efficient than normal air conditioning. When in MAX A/C mode, pressing **MAX A/C** returns you to your previous settings.

G **Recirculated air:** Press to switch between outside air and recirculated air. When the air currently in the passenger compartment is recirculating, the LED on the button illuminates. Using recirculated air can reduce the time needed to cool the interior and reduce unwanted odors from entering your vehicle. Even when you do not select this button, air may still recirculate in some instances in order to reduce vehicle warm-up time in cold conditions or to cool down time in hot conditions. **Note:** Recirculated air engages automatically when you select **MAX A/C**, or turn on manually in any airflow mode except defrost. **Note:** You may notice changes in sound between recirculated mode and other airflow modes. **Note:** For better cooling in hot conditions, recirculated air automatically engages when the air distribution control is in panel or panel and floor modes and the air conditioning is on. You can switch to fresh air by pressing the recirculated air button again.

H **PASS TEMP:** Press to switch between single and dual zone. Turn to increase or decrease the air temperature on the passenger side of the vehicle.

I **Fan speed control +:** Press to increase the volume of air circulated in your vehicle.

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

K **Fan speed control -:** Press to decrease the volume of air circulated in your vehicle.

**HINTS ON CONTROLLING THE INTERIOR CLIMATE**

**Note:** To reduce fogging of the windshield during humid weather, adjust the air distribution control to the windshield air vents position. Increase the temperature and fan speed to improve clearing, if required.

**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:** You may feel a small amount of air from the floor air vents regardless of the air distribution setting.
During extreme high ambient temperatures when idling stationary for extended periods in gear, it is recommended to run the A/C in the MAX A/C mode, adjust the blower fan speed to the lowest setting and put the vehicle’s transmission into position P to continue to receive cool air from your A/C system.

For maximum cooling performance in AUTO (automatic climate system) or panel mode, press MAX A/C.

For maximum cooling performance in panel and floor mode:
1. Adjust the temperature control to the coolest setting.
2. Select A/C and recirculated air to provide colder airflow.
3. Set the fan to the highest speed initially, and then adjust to maintain comfort.

To aid in side window defogging and demisting in cold or humid weather:
1. Select the floor and panel mode.
2. Press A/C.
3. Adjust the temperature control to maintain comfort.
4. Set the fan speed to the highest setting.
5. Direct the outer instrument panel vents toward the side windows.
6. To increase airflow to the outer instrument panel vents, close the vents located in the middle of the instrument panel.

HEATED WINDOWS AND MIRRORS

Heated Rear Window (If Equipped)

Note: The engine must be running to use this feature.

Note: If your vehicle is equipped with a sliding rear window, the feature does not operate when you open the window.

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

Do not use razor blades or other sharp objects to clean the inside of the rear window or to remove decals from the inside of the rear window. This may cause damage to the heated grid lines. Your warranty does not cover this damage.

Heated Exterior Mirror (If Equipped)

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

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

The heated mirrors remove ice, mist and fog when you switch on the heated rear window.

REMOTE START (IF EQUIPPED)

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

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

• heated seats
• cooled seats
Climate Control

- heated steering wheel
- heated mirrors
- heated rear window.

You can adjust the settings using the information display controls. See Information Displays (page 86).

Automatic Settings

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

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

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

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

Last Settings

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

Heated and Cooled Devices

The climate control system controls other heated and cooled devices inside the vehicle. These devices (if available and selected to AUTO in the information displays) may switch on during remote start. Heated devices typically switch on during cold weather, and cooled devices during hot weather.
SITTING IN THE CORRECT POSITION

WARNINGS

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

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

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

We recommend that you follow these guidelines:

• Sit in an upright position with the base of your spine as far back as possible.
• Do not recline the seat back 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 inches (25 centimeters) between your breastbone and the air bag 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

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.

The head restraint is a safety device. Whenever possible it should be installed and properly adjusted when the seat is occupied. An improperly adjusted head restraint may not adequately protect an occupant during an impact from the rear.
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 Head Restraint

Rear Seat Outboard Head Restraints

The head restraints consist of:

- A An energy absorbing head restraint.
- B Two steel stems.
- C Guide sleeve adjust and release button.
- D Guide sleeve unlock and remove button.
- E Fold button (rear seat outboard only).

Adjusting the Head Restraint

Raising the Head Restraint

Pull the head restraint up.

Lowering the Head Restraint

1. Press and hold button C.
2. Push the head restraint down.

Removing the Head Restraint

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

Note: For rear seat outboard seats, you can fold the head restraint forward for easier removal.
Seats

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

Folding the Head Restraint
**Note:** The rear seat outboard head restraints may fold forward for improved visibility.
1. Press and hold button E.
2. Pull it back up to reset.

Front Seat Center Head Restraint
Your vehicle may be equipped with a front row center head restraint that is non-adjustable. This head restraint consists of:

![Diagram of head restraint](image.png)

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

Removing the Head Restraint
1. Pull up the head restraint until it reaches the highest adjustment position.
2. Press and hold buttons C.
3. Pull up the head restraint.

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

Tilting Head Restraints (If Equipped)
The front head restraints may have a tilting feature for extra comfort. To tilt the head restraint, do the following:

1. Adjust the seatback to an upright driving 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, pivot it forward again to release it to the rearward, un-tilted position.

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

**MANUAL SEATS**

**WARNING**
Do not adjust the driver’s seat or seatback when your vehicle is moving.
Moving the Seat Backward and Forward

Recline Adjustment

Manual Lumbar (If Equipped)

POWER SEATS (IF EQUIPPED)

WARNINGS

⚠️ Do not adjust the driver’s seat or seatback when your vehicle is moving. Adjusting your seatback while the vehicle is in motion may cause loss of control of the vehicle.

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

The control is located on the outboard side of the seat. Move the switch in the direction of the arrow to raise or lower the seat cushion or to move the seat forward, backward, up or down.

Power Recline (If Equipped)

Move the switch to recline the seatback forward or rearward.

The lumbar support control is located on the outboard side of the seat. Turn the control to adjust your support.
Power Lumbar (If Equipped)

The control is located on the outboard side of the seat. Press the forward or rearward side of the control for more or less support.

MEMORY FUNCTION (IF EQUIPPED)

**WARNINGS**

Before activating the seat memory, make sure that the area immediately surrounding the seat is clear of 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's seat, power mirrors, optional adjustable pedals and optional steering column.

The memory control is located on the outboard side of the driver's seat.

Saving a Pre-Set Position

1. Switch the ignition on.
2. Move the memory features to the desired positions using the associated controls.
3. Press and hold button 1 for about two seconds until you hear a single chime.

To program position 2, repeat the previous procedure using button 2.

**Note:** You can save a memory pre-set at any time.

Recalling a Pre-Set Position:

Press and release the pre-set memory button desired. The seat, mirrors, pedals and steering column will move to the position stored for that pre-set.

**Note:** If the easy entry and exit feature is enabled, any memory recall while the ignition is off will move the seat and steering column to the easy entry position.

You can recall a programmed memory position:

- When the ignition is off.
- Or only if the transmission is in park (P), neutral (N), or if the ignition is on.

You can program a remote entry transmitter to recall a memory setting. See **Keys and Remote Controls** (page 48).
You can also program a personal keyless entry code to recall a memory setting. See **Locks** (page 56).

**Easy Entry and Exit Feature (If Equipped)**

If you enable the easy entry and exit feature, it automatically moves the driver’s seat rearward 2 inches (5 centimeters) when the transmission selector lever is in position P and you remove the key from the ignition.

If the seat is located less than 2 inches (5 centimeters) from the rear of the seat track, the seat travel will be less than 2 inches (5 centimeters) rearward.

The driver’s seat will return to the previous position when you put the key in the ignition.

You can enable or disable this feature through the information display. See **Information Displays** (page 86).

**REAR SEATS**

**Folding Up the Rear Seats (SuperCab)**

The rear seat has a split 60/40 cushion. You can flip each seat cushion up into a vertical storage position.

1. Pull the control to release the seat cushion.
2. Rotate the seat cushion up until it locks into the vertical storage position.

**Returning the Seat to the Seating Position**

**WARNING**

Make sure that cargo or any objects are not trapped underneath the seat cushion before returning the seat cushion to its original position, and that the seat cushion locks into place. Failure to do so may prevent the seat from operating properly in the event of a crash, which could increase the risk of serious injury.

1. Pull the control on the side of the seat to release the seat cushion from the storage position.
2. Push the seat cushion down until it locks into the horizontal position.

**Folding up the Rear Seat Cushion (Super Crew)**

The rear seat has a split 60/40 cushion. You can flip each seat cushion up into a vertical storage position.

1. Pull the control on the side of the seat to release the seat cushion from the storage position.
2. Push the seat cushion down until it locks into the horizontal position.

**Folding up the Rear Seat Cushion**

The rear seat has a split 60/40 cushion. You can flip each seat cushion up into a vertical storage position.

1. Pull the control to release the seat cushion.
2. Rotate the seat cushion up until it locks into the vertical storage position.
Returning the Seat to the Seating Position

WARNING

Make sure that cargo or any objects are not trapped underneath the seat cushion before returning the seat cushion to its original position, and that the seat cushion locks into place. Failure to do so may prevent the seat from operating properly in the event of a crash, which could increase the risk of serious injury.

1. Pull the control on the bottom of the seat cushion to release the seat cushion from the storage position.
2. Push the seat cushion down until it locks into the horizontal position.

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.

To operate the heated seats, press the heated seat symbol to cycle through the various heat settings and off. Warmer settings are indicated by more indicator lights.
**Rear Heated Seats (If Equipped)**

**WARNING**

![Warning Icon]

People 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.

The rear seat heat controls are located on the rear door armrest.

To operate the heated seats:

- Press this symbol for maximum heat.
- Press again to turn off.

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

**VENTILATED SEATS (IF EQUIPPED)**

To operate the ventilated seats, press the ventilated 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 ventilated seats are on, the feature will turn itself off. You will need to reactivate it.
Heated and Ventilated Seats Air Filter Replacement (If Equipped)

The heated and ventilated seat system includes air filters. You must replace them periodically.

The filter is located under each front seat. Access the filter from the second row foot-well area. Move the front seats all the way to the full front and full up positions to ease access.

To remove a filter:
1. Turn the vehicle off.
2. Push up on the outside rigid edge of the filter until the tabs are released, then remove the filter.

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

FRONT SEAT ARMREST (IF EQUIPPED)

Press the release control to move the armrest up or down.
Pull out the optional drawer at the bottom of the center seat to access the cup holders.

Lift the latch to open the lid and gain access to the optional storage compartment under the center seat cushion.
Pull the strap located on the center seatback to access the armrest and cupholders.

The cupholders are located inside the rear seat armrest. To open the cupholders:

1. Push in gently on the center of the plastic panel on the front edge of the armrest. The cupholders will partially open.
2. Pull the cupholder fully open before using.
The appearance of your vehicle’s universal garage door opener varies according to your option package. Before programming, make sure you identify which transmitter you have by comparing it to the graphics below:

**WARNINGS**

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

**Note:** Before you begin the programming process, park your vehicle in front of the garage door opener motor or other device you want to program.

**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:** Programming the system to a community gate will require a unique set of instructions depending on the gate system model. Contact the help line at 1-866-572-2728 for further information.

**Note:** If you accidentally enter the program mode by pressing and releasing the outer two buttons or all three buttons simultaneously, do not press any button until the module times out after a few seconds and resets to normal mode. When the module has timed out, all three LED lamps will flash rapidly for a few seconds then turn off. Any settings should remain as previously set.

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

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### CAR2U® Home Automation System (If Equipped)

**Car2U Home Automation System**

**E164776**

**Note:** Programming these two types of universal garage door openers are different, and they have different instructions. Identify your package and refer to the instructions listed in this chapter.

**HomeLink**

**E142657**

**Note:** Programming the system to a community gate will require a unique set of instructions depending on the gate system model. Contact the help line at 1-866-572-2728 for further information.

**Note:** If you accidentally enter the program mode by pressing and releasing the outer two buttons or all three buttons simultaneously, do not press any button until the module times out after a few seconds and resets to normal mode. When the module has timed out, all three LED lamps will flash rapidly for a few seconds then turn off. Any settings should remain as previously set.

The universal garage door opener replaces the common hand-held garage door opener with a three-button transmitter, 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. This functionality allows you to program garage door openers as well as security devices and home lighting systems.

You can find additional system information online at www.learcar2U.com or by calling the toll-free help line on 1-866-572-2728.

**Rolling Code Programming**

*Note:* If you do not follow the time-sensitive instructions, the device will time out and you will have to repeat the complete procedure.

*Note:* It may be helpful to have another person assist you in programming the transmitter.

1. Switch the ignition on.
2. Press and hold the outer two buttons for 1–2 seconds, then release.

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

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

*Note:* You will have 10–30 seconds to complete the following steps.

4. Return to your car.
5. Press and hold the function button you would like to use to control the garage door. You may need to hold the button from 5–20 seconds, during which time the selected button LED lamp will flash slowly.

6. When the garage door moves, release the button **within one second**. The LED lamp will flash rapidly until programming is complete.

7. Press and release the button again. The garage door should move, confirming that programming is successful. If your garage door does not operate, repeat the previous steps.

The LED lamp above the selected button will illuminate to confirm that the system is responding to the button command.
To program another rolling code device, repeat Steps 1 through 6, substituting a different function button in Step 5.

**Fixed Code Programming**

**Note:** It may be helpful to have another person assist you in programming the transmitter.

To program units with fixed code DIP switches, you will need the garage door hand-held transmitter, paper and a pen or pencil.

1. Switch the ignition on.
2. Open the battery cover and note all the switch settings from left to right.

- When the switch is in the up, on, or + position, mark down “left button”.
- When the switch is in the middle, neutral, or 0 position, mark down “middle button”.
- When the switch is in the down, off, or – position, mark down “right button”.

3. Press all three function buttons simultaneously for a few seconds and then release. The LED lamps will flash slowly.

**Note:** You must complete the following step within 2.5 minutes.

4. Enter the corresponding DIP switch settings from left to right into the system by pressing and releasing the buttons corresponding to the settings you noted.

5. Simultaneously press and release all three function buttons. The LED lamps will illuminate.

6. Press and hold the function button you would like to use to control the garage door.

**Note:** You may need to hold the button from 5–55 seconds before observing movement of the garage door.

7. When the garage door moves, release the button within one second. After you release the button, the LED lamp will flash slowly.

8. The LED lamp will begin to flash rapidly until programming is complete. If your garage door does not operate, repeat the previous steps. Otherwise, call the toll-free help line at 1-866-572-2728.

The LED lamp above the selected button will illuminate to confirm that the system is responding to the button command.

**Erasing the Function Button Codes**

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

1. Press and hold the outer two function buttons simultaneously for approximately 20 seconds until the LED lamps above the buttons flash rapidly.
Universal Garage Door Opener (If Equipped)

2. When the LED lamps flash, release the buttons. You have erased all of the button codes.

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.

HomeLink Wireless Control System (If Equipped)

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 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 you have programmed them, you must first erase the current settings. See Erasing the Button Codes later in this section.

The universal garage door opener replaces the common hand-held garage door opener with a three-button transmitter, 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. This functionality allows you to program garage door openers as well as entry gate operators, security systems, entry door locks and home or office lighting.

You can find additional system information 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.

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 that you want to program.
3. 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, you can release both buttons. The rapid flashing indicates successful training.
4. 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 two seconds and then turns to a constant light, you have not programmed the HomeLink button yet. Do the following:

Press and hold the HomeLink button while you press and release the hand-held transmitter button every two 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

1. 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.
Universal Garage Door Opener (If Equipped)

3. Press and hold the function button you want to program for two 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.

1. Press and hold the outer two function buttons simultaneously for approximately 20 seconds until the indicator lights above the buttons flash rapidly.

2. When the indicator lights flash, release the buttons. You have erased the codes for all buttons.

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.

Programming to a Genie Intellicode 2 Garage Door Opener

Note: You must program the Genie Intellicode 2 transmitter to operate it with the garage door opener.

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

1. 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.

2. Press the same button twice to confirm the change to programming mode. If done properly the indicator light will appear red.

3. Hold the transmitter within 1–3 inches (2–8 centimeters) of the button on the visor you want to program.

For questions or comments, contact HomeLink at www.homelink.com or 1-800-355-3515.
Universal Garage Door Opener (If Equipped)

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 you will need to press the Genie transmitter 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 you have programmed HomeLink successfully, you must change the Genie transmitter out of program mode. To do this:

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

1. Press and hold the program button on the garage door opener motor until both blue indicator lights turn on.
2. Release the program button. Only the smaller round indicator light should be on.
3. 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 previously programmed button on the Genie Intellicode 2 hand-held transmitter. 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 two seconds. Repeat this step up to three 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 10–20 seconds. When this happens, release both buttons. You have now erased the programming, and the indicator light should blink slowly to indicate the device is in train mode when you press any of the three HomeLink buttons.
Universal Garage Door Opener (If Equipped)

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.
12 Volt DC Power Point

**WARNING**

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

**Note:** If used when the engine is not running, the battery will discharge. There may be insufficient power to restart your engine.

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

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

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

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

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

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

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

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

**Locations**

Power points may be found:

- in the front of the center console
- inside the center console storage bin
- on the rear of the center console.

110 Volt AC Power Points (If Equipped)

**WARNING**

Do not keep electrical devices plugged in the power points when the devices are not in use. Do not use any extension cord with the 110 volt AC power points, since it will defeat the safety protection design. Do not use a single power point to power multiple devices. It may cause the power point to exceed the 150 watt load limit and overload, resulting in fire or serious injury.

**Note:** Keep the engine running to use the power points.

Some vehicles may come equipped with more than one power point. One may be located on the rear of the center console. The second one (if equipped) may be located on the instrument panel. You can use your power points for powering electrical devices that require up to 150 watts.
When the indicator light, located on the power point, is:
- on — the power point is ready to supply power.
- off — the power point power supply is off; ignition is not on.
- flashing — the power point is in fault mode.

The power point temporarily turns off power if the 150 watt limit is exceeded. It can also switch to a fault mode when it is overloaded, overheated, or shorted. Unplug your device and switch the ignition off, and then switch the ignition back on for overloading and shorting conditions. Let the system cool off, and then turn the ignition off, and then switch the ignition back on for an overheating condition.

The power points are not designed for electric devices such as:
- cathode ray tube type televisions
- motor loads, for example vacuum cleaners, electric saws and other electric power tools, or compressor-driven refrigerators
- measuring devices which process precise data, for example medical equipment or measuring equipment
- other appliances requiring an extremely stable power supply, for example microcomputer-controlled electric blankets or touch sensor lamps.
Storage Compartments

**CENTER CONSOLE (IF EQUIPPED)**

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:

- Locking storage compartment with hanging file folder supports
- Utility compartment with coin holder slots, cardholder and pen holder (on underside of lid)
- Storage for laptop computer
- 12-volt power point inside the storage compartment and one on the rear of the console
- Front and rear cupholders
- Rear-passenger air registers.

**OVERHEAD CONSOLE (IF EQUIPPED)**

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

A (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.

B (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.

C (on) - All electrical circuits are operational and the warning lamps and indicators illuminate.

D (start) - Cranks the engine.

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.
Starting and Stopping the Engine

Before starting the engine 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 position P.
• Turn the ignition key to the on position.

**Note:** Do not touch the accelerator pedal.

1. Fully press the brake pedal.
2. Turn the key to the start position 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.

**Failure to Start**

If you cannot start the engine after three attempts, wait 10 seconds and follow this procedure:

1. Fully press the brake pedal.
2. Fully press the accelerator pedal and hold it there.
3. Start the engine.

**Stopping the Engine When Your Vehicle is Stationary**

1. Move the transmission selector lever to position P.
2. Turn the key to the off position.
3. Apply the parking brake.

**Stopping the Engine When Your Vehicle 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, warning lamps and indicators may also be off.

1. Move the transmission selector lever to position N and use the brakes to bring your vehicle to a safe stop.
2. When your vehicle has stopped, move the transmission selector lever to position P and turn the key to the off position.
3. Apply the parking brake.

**Cold Weather Starting (Flexible Fuel Vehicles Only)**

The starting characteristics of all grades of E85 ethanol make it unsuitable for use when ambient temperatures fall below 0°F (-18°C). Consult your fuel distributor for the availability of winter grade ethanol. As the outside temperature approaches freezing, ethanol fuel distributors should supply winter grade ethanol (same as with unleaded gasoline). If summer grade ethanol is used in cold weather conditions, 0°F to 32°F (-18°C to 0°C), you may experience increased cranking times, rough idle or hesitation until the engine has warmed up.

You may experience a decrease in peak performance when the engine is cold when operating on E85 ethanol.
Starting and Stopping the Engine

Do not crank the engine for more than 10 seconds at a time as starter damage may occur. If the engine fails to start, turn the key to off and wait 30 seconds before trying again.

Do not use starting fluid such as ether in the air intake system. Such fluid could cause immediate explosive damage to the engine and possible personal injury.

If you should experience cold weather starting problems on E85 ethanol, and neither an alternative brand of E85 ethanol nor an engine block heater is available, the addition of unleaded gasoline to your tank improves cold starting performance. Your vehicle is designed to operate on E85 ethanol alone, unleaded gasoline alone, or any mixture of the two.

If the Engine Fails to Start Using the Preceding Instructions (Flexible Fuel Vehicles Only)

1. Press and hold down the accelerator one-third to one-half the way to the floor, then crank the engine.
2. When the engine starts, release the key, then gradually release the accelerator pedal as the engine speeds up. If the engine still fails to start, repeat Step 1.

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 you 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 the leave the engine idling for long periods of time, we recommend that you do one of the following:

- Open the windows at least 1 inch (2.5 centimeters)
- Set your climate control to outside air.

ENGINE BLOCK HEATER (IF 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 weather conditions.
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 system is unplugged and
properly stowed before driving your
vehicle. Make sure the protective cover
seals the prongs of the block heater
cord plug when not in use.
- Make sure the heater system is
checked for proper operation before
winter.

Using the Engine Block Heater

Make sure the receptacle terminals are
clean and dry prior to use. Clean them with
a dry cloth if necessary.

The heater uses 0.4 to 1.0 kilowatt-hours
of energy per hour of use. The system does
not have a thermostat. It achieves
maximum temperature after
approximately three hours of operation.
Using the heater longer than three hours
does not improve system performance and
unnecessarily uses electricity.
SAFETY PRECAUTIONS

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, 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 you misuse or mishandle them.

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.

The flow of fuel through a fuel pump nozzle can produce static electricity, which can cause a fire if you pump fuel into an ungrounded fuel container.

Observe the following guidelines when handling automotive fuel:

- Extinguish all smoking materials and any open flames before refueling your vehicle.
- 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 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 you splash fuel in your 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 you splash fuel on your skin, clothing or both, promptly remove contaminated clothing and wash your 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 you splash fuel on your skin, promptly wash your skin thoroughly with soap and water. Consult a physician immediately if you experience an adverse reaction.
FUEL QUALITY

Use of any fuel other than those recommended may cause powertrain damage and a loss of vehicle performance; repairs may not be covered under warranty.

Choosing the Right Fuel Without a Flex Fuel Vehicle (If Equipped)

Use only UNLEADED gasoline or UNLEADED gasoline blended with a maximum of 15% ethanol in your gasoline vehicle. If your vehicle is a Flex Fuel Vehicle (FFV), it will have a yellow bezel placed over the fuel fill inlet.

Do not use:

- Fuel containing more than 15% ethanol or E-85 fuel.
- Fuel with methanol.
- Fuels containing metallic based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT)
- Leaded fuel (The use of leaded fuel is prohibited by law).

Note: Use of any fuel other than recommended fuel can cause powertrain damage, impair the emission control system or cause loss of vehicle performance. Any damage to vehicle that is caused by use of fuel not recommended will not be covered under warranty.

Choosing the Right Fuel With a Flex Fuel Vehicle (If Equipped)

Use only UNLEADED gasoline or UNLEADED gasoline blended with a maximum of 85% ethanol (E-85) in your Flex Fuel Vehicle (FFV). If your vehicle is flex fuel capable, it will have a yellow bezel placed over the fuel fill inlet.

Do not use:

- Fuels containing more than 85% ethanol or E-100 fuel.
- Fuel with methanol.
- Fuels containing metallic based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT)
- Leaded fuel (The use of leaded fuel is prohibited by law).

Note: Use of any fuel other than recommended fuel can cause powertrain damage, impair the emission control system or cause loss of vehicle performance. Any damage to vehicle that is caused by use of fuel not recommended will not be covered under warranty.

Octane Recommendations

Do not be concerned if your engine sometimes knocks lightly. However, if it knocks heavily under most driving conditions while you are using fuel with the recommended octane rating, see your authorized dealer to prevent any engine damage.
**3.7L V6, 5.0L V8 and 6.2L V8 Engines**

Regular unleaded gasoline with a pump \((R+M)/2\) octane rating of 87 is recommended. Some stations offer fuels posted as Regular with an octane rating below 87, particularly in high altitude areas. Fuels with octane levels below 87 are not recommended.

**3.5L V6 EcoBoost Engine**

Regular unleaded gasoline with a pump \((R+M)/2\) octane rating of 87 is recommended. Some stations offer fuels posted as Regular with an octane rating below 87, particularly in high altitude areas. Fuels with octane levels below 87 are not recommended.

Premium fuel will provide improved performance and is recommended for severe duty usage such as trailer tow.

**RUNNING OUT OF FUEL**

Avoid running out of fuel. This situation may have an adverse effect on powertrain components.

If you have run out of fuel:

- You may need to cycle the ignition from **Off** to **On** several times after refueling to allow the fuel system to pump the fuel from the fuel tank to the engine. On restarting, cranking time will take a few seconds longer than normal.
- Normally, adding 1 gallon (3.8 liters) of fuel is enough to restart the engine. If the vehicle is out of fuel and on a steep grade, more than 1 gallon (3.8 liters) may be required.
- The service engine soon indicator may come on. For more information on the service engine soon indicator, see **Warning Lamps and Indicators** (page 81).
- For information on calculating DTE (Distance to empty), see **Instrument Cluster** (page 80).

**Refilling With a Portable Fuel Container**

**WARNINGS**

Do not insert the nozzle of portable fuel containers or aftermarket funnels into the Easy Fuel “no cap” fuel system. This could damage the fuel system and its seal, and may cause fuel to run onto the ground instead of filling the tank, which could result in serious personal injury.

Do not try to pry open or push open the Easy Fuel “no cap” fuel system with foreign objects. This could damage the fuel system and its seal and cause injury to you or others.

**Note:** When filling the vehicle’s fuel tank from a portable fuel container, use the funnel included with the vehicle.

With the Easy Fuel “no cap” fuel system, use the following directions when filling from a portable fuel container:
1. Locate the white plastic funnel.
   - In SuperCab and SuperCrew vehicles, it is located under the second row driver side seat near the spare tire toolbox.
   - On regular cab vehicles, the funnel is located behind the driver seat. Slowly insert the portable fuel container into the fuel filler opening.

2. Fill the vehicle with fuel from the portable fuel container.

3. When done, clean the funnel or properly dispose of it. You can purchase extra funnels from your authorized dealer if you choose to dispose of the funnel. Do not use aftermarket funnels; they will not work with the Easy Fuel system and can damage it. The included funnel has been specially designed to work safely with your vehicle.

**REFUELING**

<table>
<thead>
<tr>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel vapor burns violently and a fuel fire can cause severe injuries.</td>
</tr>
<tr>
<td>Read and follow all the instructions on the pump island.</td>
</tr>
<tr>
<td>Turn off your engine when you are refueling.</td>
</tr>
<tr>
<td>Do not smoke if you are near fuel or refueling your vehicle.</td>
</tr>
<tr>
<td>Keep sparks, flames and smoking materials away from fuel.</td>
</tr>
<tr>
<td>Stay outside your vehicle and do not leave the fuel pump unattended when refueling your vehicle. This is against the law in some places.</td>
</tr>
<tr>
<td>Keep children away from the fuel pump; never let children pump fuel.</td>
</tr>
</tbody>
</table>

**WARNINGS**

Do not use personal electronic devices while refueling.

Use the following guidelines to avoid electrostatic charge build-up when filling an ungrounded fuel container:

- Place approved fuel container on the ground.
- Do not fill a fuel container while it is in the vehicle (including the cargo area).
- Keep the fuel pump nozzle in contact with the fuel container while filling.
- Do not use a device that would hold the fuel pump handle in the fill position.

**Easy Fuel™ 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 **P** (Park) and turn the ignition off.
2. Open the fuel filler door.
3. Slowly insert the fuel filler nozzle fully into the fuel system, and leave the nozzle fully inserted to open both doors until you are done pumping. Hold handle higher during insertion for easier access.

4. After you are done pumping fuel, slowly remove the fuel filler nozzle—allow about 5 to 10 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.

**Note:** A fuel spillage concern may occur if overfilling the fuel tank. Do not overfill the tank. The fill pipe is equipped with a drain hole. Excess fuel due to overfill may drain through the drain hole and drip onto the ground."

If the fuel fill inlet was not properly closed, 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 **P** (Park) and turn the ignition off.
3. Open the fuel filler door and remove any visible debris from the fuel fill opening.

4. Insert either the fuel fill nozzle or the fuel fill funnel provided with the vehicle several times to 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 4 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**

Empty reserve is the amount of fuel remaining in the tank after the fuel gauge indicates empty. The amount of usable fuel in the empty reserve varies and should not be relied upon to increase driving range.

- The usable capacity of the fuel tank is the amount of fuel that can be added into the tank after the gauge indicates empty.
- The advertised capacity is the total fuel tank size. See **Capacities and Specifications** (page 295). It is the combined usable capacity plus the empty reserve.
- Due to the empty reserve, you may not be able to refuel the full amount of the advertised capacity of the fuel tank even when the fuel gauge reads empty.

**Filling the Tank**

For consistent results when filling the fuel tank:
Fuel and Refueling

- 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 3 to 5 tank fill ups, fill the fuel tank and record the current odometer reading.
4. Subtract your initial odometer reading from the current odometer reading.
5. Calculate fuel economy 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 1 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.

Conditions

- Heavily loading a vehicle or towing a trailer may reduce fuel economy at any speed.
- Carrying unnecessary weight may reduce fuel economy (approximately 1 mpg [0.4 km/L] is lost for every 400 pounds [180 kilograms] of weight carried).
- Adding certain accessories to your vehicle (for example bug deflectors, rollbars/light bars, running boards, ski racks) may reduce fuel economy.
- Using fuel blended with alcohol may lower fuel economy.
- Fuel economy may decrease with lower temperatures during the first 8–10 miles (12–16 kilometers) of driving.
- Driving on flat terrain offers improved fuel economy as compared to driving on hilly terrain.
- Transmissions give their best fuel economy when operated in the top cruise gear and with steady pressure on the gas pedal.
- Close windows for high speed driving.

EMISSION CONTROL SYSTEM

WARNINGS

- 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 smell exhaust fumes.
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.
- 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 parts 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 the 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 is equipped with an on-board diagnostics system (OBD-II) that monitors the engine’s emission control system. This system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists your authorized dealer in properly servicing your vehicle.

When the service engine soon indicator illuminates, the OBD-II system has detected a malfunction. Temporary malfunctions may cause the service engine soon indicator to illuminate.

Examples of temporary malfunctions are:

- the vehicle has run out of fuel—the engine may misfire or run poorly
- poor fuel quality or water in the fuel—the engine may misfire or run poorly
- the fuel fill inlet may not have been properly closed See Refueling (page 140).
- 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/highway driving. No additional vehicle service is required.

If the service engine soon indicator remains on, have your vehicle serviced at the first available opportunity. Although some malfunctions detected by the OBD-II may not have symptoms that are apparent, continued driving with the service engine soon indicator on can result in increased emissions, lower fuel economy, reduced engine and transmission smoothness, and lead to more costly repairs.

**Readiness for Inspection/Maintenance (I/M) Testing**

Some state/provincial and local governments may have Inspection/Maintenance (I/M) programs to inspect the emission control equipment on your vehicle. Failure to pass this inspection could prevent you from getting a vehicle registration.

If the service engine soon indicator is on or the bulb does not work, you may need to have the vehicle serviced. See On-Board Diagnostics (OBD-II).

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, your 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 the vehicle is ready for I/M testing.

The OBD-II system monitors 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 may need to perform the following driving cycle consisting of mixed city and highway driving:

Drive on an expressway or highway for a steady 15 minutes, followed by 20 minutes of stop-and-go driving with at least four 30-second idle periods.

Allow the vehicle to sit for at least eight hours without starting the engine. Then, start the engine and complete the above driving cycle. The engine must warm up to its normal operating temperature. Once started, do not turn off the engine until the above driving cycle is complete. If the vehicle is still not ready for I/M testing, you will have to repeat the above driving cycle.
AUTOMATIC TRANSMISSION

WARNINGs

Always set the parking brake fully and make sure the gearshift is latched in P (Park). Turn the ignition to the off position and remove the key whenever you leave your vehicle.

Do not use the tow/haul feature when driving in icy or slippery conditions as the increased engine braking can cause the rear wheels to slide and the vehicle to swing around with the possible loss of vehicle control.

Understanding the Shift Positions of a 6-Speed Automatic Transmission (If Equipped)

Putting your vehicle in or out of 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 P (Park).

P (Park)

This position locks the transmission and prevents the rear wheels from turning.

R (Reverse)

With the gearshift lever in R (Reverse), the vehicle will move backward. Always come to a complete stop before shifting into and out of R (Reverse).

N (Neutral)

With the gearshift lever in N (Neutral), the vehicle can be started and is free to roll. Hold the brake pedal down while in this position.

D (Overdrive) with Tow/Haul off

D (Overdrive) with tow/haul off is the normal driving position for the best fuel economy. The overdrive function allows automatic upshifts and downshifts through gears one through six.

D (Overdrive) with Tow/Haul on

Column-shift transmission:

Floor-shift transmission:
The tow/haul feature improves transmission operation when towing a trailer or a heavy load. All transmission gear ranges are available when using tow/haul.

To activate tow/haul, press the button on the gearshift lever. The TOW HAUL indicator light will illuminate in the instrument cluster.

Tow/haul delays upshifts to reduce frequency of transmission shifting. Tow/haul also provides engine braking in all forward gears when the transmission is in the D (Overdrive) position; this engine braking will slow the vehicle and assist the driver in controlling the vehicle when descending a grade. Depending on driving conditions and load conditions, the transmission may downshift, slow the vehicle and control the vehicle speed when descending a grade. The amount of downshift braking provided will vary based upon the amount the brake pedal is pressed.

To deactivate the tow/haul feature and return to normal driving mode, press the button on the end of the gearshift lever. The TOW HAUL light will no longer be illuminated.

Tow/haul will also deactivate when the vehicle is powered down.

**WARNING**

Do not use the tow/haul feature when driving in icy or slippery conditions as the increased engine braking can cause the rear wheels to slide and the vehicle to swing around with the possible loss of vehicle control.

**M (Manual) without Overdrive**

With the gearshift lever in M (Manual), the driver can change gears up or down as desired. This is called SelectShift Automatic™ transmission (SST) mode. By moving the gearshift lever from drive position D (Overdrive) to M (Manual) you now have control of selecting the gear you desire using buttons on the shift lever.

To return to normal D (Overdrive) position, move the shift lever back from M to D. The transmission will operate in gears one through six.

**2 (Second)**

Use 2 (Second) to start-up on slippery roads or to provide additional engine braking on downgrades.

**1 (First)**

- Provides maximum engine braking
- Allows upshifts by moving gearshift lever
- The transmission will not downshift into 1 (First) at high speeds; it will downshift to a lower gear and then shift into 1 (First) when the vehicle reaches slower speeds.

**Forced downshifts**

- Allowed in D (Overdrive) with the tow/haul feature on or off
- Press the accelerator to the floor
- Allows transmission to select an appropriate gear
Understanding your SelectShift Automatic® 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. The SelectShift Automatic transmission feature has two modes: PRS and M mode.

By moving the gearshift lever from the D (Drive) position to the M (Manual) position you may now manually select the gear you desire. Only the current gear will be displayed.

Column-shift transmission:

Use the buttons on the gearshift lever to manually select gears. Press the + button to upshift or the – button to downshift.

When manual control is no longer desired, return the transmission to the D (Drive) position.

Recommended shift speeds

Upshift according to the following chart:

<table>
<thead>
<tr>
<th>Shift from:</th>
<th>Upshift to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 2</td>
<td>15 mph (24 km/h)</td>
</tr>
<tr>
<td>2 – 3</td>
<td>25 mph (40 km/h)</td>
</tr>
<tr>
<td>3 – 4</td>
<td>40 mph (64 km/h)</td>
</tr>
<tr>
<td>4 – 5</td>
<td>45 mph (72 km/h)</td>
</tr>
<tr>
<td>5 – 6</td>
<td>50 mph (80 km/h)</td>
</tr>
</tbody>
</table>
Transmission

In order to prevent the engine from running at too low an RPM, which may cause it to stall, SelectShift will still automatically make some downshifts if it has determined that you have not downshifted in time. Although SelectShift will make some downshifts for you, it will still allow you to downshift at any time as long as the SelectShift determines that the engine will not be damaged from over-revving.

SelectShift will not automatically upshift, even if the engine is approaching the RPM limit. It must be shifted manually by pressing the + button.

Note: Engine damage may occur if excessive engine revving is held without shifting.

PRS (Progressive Range Selection)

With the gearshift lever in D (Drive), press the – button to active PRS. The available and selected gears will be indicated on the instrument cluster.

All available gears will be displayed with the current gear indicated. Press the – button again to lock out gears beginning with the highest gear. Example: press the – button twice to lock out 6th and 5th gears. Only the available gears will be displayed and the transmission will automatically shift between the available gears. Press the + button to unlock gears to allow the transmission to shift to higher gears. The transmission will shift automatically within the gear range you select.

Automatic Transmission Adaptive Learning

This feature is designed to increase durability and provide consistent shift feel over the life of the vehicle. A new vehicle or transmission may have firm shifts, soft shifts or both. This operation is considered normal and will not affect function or durability of the transmission. Over time, the adaptive learning process will fully update transmission operation. Additionally, whenever the battery is disconnected or a new battery installed, the strategy must be relearned.

Brake-Shift Interlock

WARNINGS

Do not drive your vehicle until you verify that the brake lamps are working.

When doing this procedure, you will be taking the vehicle out of park which means the 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 the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer.

Your vehicle is equipped with a brake-shift interlock feature that prevents the gearshift lever from being moved from P (Park) when the ignition is in the on position and the brake pedal is not pressed.

If you cannot move the gearshift lever out of P (Park) 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 the vehicle’s brake lamps are not operating properly. See Fuse Specification Chart (page 224).

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 P (Park):
Transmission

Column-shifter

1. Apply the parking brake. Turn the ignition key to the off position, then remove the key.
2. Move the steering column to the full down and full rearward position (toward the driver's seat).
3. Remove the gearshift lever boot.
4. Place fingers into hole where the gearshift lever boot was removed from and pull top half of shroud up and forward to separate it from the lower half of the shroud. There is a hinge at the forward edge of the top shroud. Roll the top half of the shroud upward on the hinge point to clear the hazard flasher button, then pull straight rearward toward the driver's seat to remove.
5. Remove the top half of the shroud.
6. Remove the three fasteners under the column that secure the lower shroud half to the column.
7. Pull the lock lever into the full unlocked position and remove the lower shroud cover by pulling the lever handle through the slot in the cover.
8. Apply the brake and move the gearshift lever into N (Neutral).
9. Start the vehicle.
Perform Steps 4 through 8 in reverse order, making sure to engage the hinge pivots between the upper and lower halves of the shroud. Keep slight pressure in the forward direction as the halves are rotated together.

Floor-shifter

1. Apply the parking brake. Turn the ignition key to the off position, then remove the key.
2. Starting at the rear of the trim panel, using a screwdriver (or similar tool) carefully pry up the trim panel from rear attachments and disconnect it from the console to expose the inside of the gearshift.
3. Locate the brake shift interlock lever on the passenger side of the shifter assembly.

4. Apply the brake pedal. Using a screwdriver (or similar tool), press and hold the brake shift interlock lever while pulling the gearshift lever out of the P (Park) position and into the N (Neutral) position.

5. Install the trim panel.

6. Apply brake pedal, start the vehicle, and release the parking brake. See your authorized dealer as soon as possible if this procedure is used.

**If Your Vehicle Gets Stuck In Mud or Snow**

**Note:** Do not rock the vehicle if the engine is not at normal operating temperature or damage to the transmission may occur.

**Note:** Do not rock the vehicle for more than a minute or damage to the transmission and tires may occur, or the engine may overheat.

If your vehicle gets stuck in mud or snow, it may be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.
**USING FOUR-WHEEL DRIVE**

**WARNING**
For important information regarding safe operation of this type of vehicle, see General Information in the Wheels and Tires chapter.

**Note:** Do not use 4X4 mode on dry, hard surfaced roads. Doing so will produce excessive noise, increase tire wear and may damage drive components. 4X4 mode is only intended for consistently slippery or loose surfaces.

**Note:** If 4X4 low is selected while the vehicle is moving above 3 mph (5 km/h), the 4WD system will not perform a shift. This is normal and should be no reason for concern. Refer to Shifting to or from 4L (4X4 Low) for proper operation.

**4WD Indicator Lights**

**Note:** When a 4X4 system fault is present, the system will typically remain in whichever 4X4 mode was selected prior to the fault condition occurring. It will not default to 4X2 in all circumstances. When this warning is displayed, have your vehicle serviced by an authorized dealer.

**4X2**
Momentarily illuminates when 2H is selected.

**4X4 Auto**
Continuously illuminates when 4A is selected (2-Speed Automatic 4WD vehicles only)

**4X4 HIGH**
Continuously illuminates when 4H is selected.

**4X4 LOW**
Continuously illuminates when 4L is selected.

**CHECK 4X4**
Displays when a 4X4 fault is present.

**Using the Electronic Shift on the Fly 4WD system (If Equipped)**

**2H (4X2)**
For general on-road driving. Sends power to the rear wheels only and should be used for street and highway driving. Provides optimal smoothness and fuel economy at high speeds.

**4H (4X4 HIGH)**
Used for extra traction such as in snow or icy roads or in off road situations. This mode is not intended for use on dry pavement.

**Note:** Do not use 4H (4X4 HIGH) on dry, hard surfaced roads. Doing so can produce excessive noise and increased tire wear. 4H (4X4 HIGH) is only intended for consistently slippery or loose surfaces.
**Four-Wheel Drive (If Equipped)**

**4L (4X4 LOW)**

Uses extra gearing to provide maximum power to all four wheels at reduced speeds. Intended only for off-road applications such as deep sand, steep grades, or pulling heavy objects. 4L (4x4 low) will not engage while the vehicle is moving above 3 mph (5 km/h); this is normal and should be no reason for concern. Refer to Shifting to or from 4L (4x4 low) for proper operation.

**Note:** Do not use 4L (4X4 LOW) on dry, hard surfaced roads. Doing so can produce excessive noise and increased tire wear. 4L (4X4 LOW) is only intended for consistently slippery or loose surfaces. Use of 4L (4X4 LOW) on these surfaces may produce some noise (such as occasional clunks), but will not damage drive components.

**Note:** The AdvanceTrac system has the ability to take over control of the transfer case clutch and disable it during driving maneuvers when necessary.

**Shifting between system modes**

**Note:** Momentarily releasing the accelerator pedal while performing a shift will improve engagement/disengagement times.

**Note:** Do not perform this operation if the rear wheels are slipping.

**Note:** Some noise may be heard as the system shifts or engages; this is normal.

**Note:** 4X4 high mode is not intended for use on dry pavement.

You can move the control from 2H or 4H at a stop or while driving. The information display may display a message indicating a 4X4 shift is in progress. Once the shift is complete the message center will then display the system mode selected.

**Shifting to or from 4L (4X4 low)**

**Note:** Some noise may be heard as the system shifts or engages; this is normal.

**Note:** 4x4 low mode is not intended for use on dry pavement.

1. Bring the vehicle to a speed of 3 mph (5 km/h) or less.
2. Place the transmission in N (Neutral).
3. Move the 4WD control to the desired position.

The information display will display a message indicating a 4X4 shift is in progress. The information display will then display the system mode selected. If any of the above shift conditions are not met, the shift will not occur and the information display will display information guiding the driver through the proper shifting procedures.

If SHIFT DELAYED PULL FORWARD displays in the information display, a transfer case gear tooth blockage is present. To alleviate this condition, place the transmission in a forward gear, move your vehicle forward approximately 5 feet (1.5 meters), and shift the transmission back to N neutral to allow the transfer case to complete the range shift.

**Using the 2-Speed Automatic 4WD System (If Equipped)**

This system includes an electronically controlled transfer case with a high capacity clutch. The system is interactive with the road, continually monitoring and adjusting torque delivery to the front and rear wheels to optimize traction.

**Note:** The AdvanceTrac system has the ability to take over control of the transfer case clutch and disable it during driving maneuvers when necessary.
4H (4X4 HIGH)

Used for extra traction such as in snow or icy roads or in off road situations. This mode is not intended for use on dry pavement.

Note: Do not use 4H (4X4 HIGH) on dry, hard surfaced roads. Doing so can produce excessive noise and increased tire wear. 4H (4X4 HIGH) is only intended for consistently slippery or loose surfaces.

4L (4X4 LOW)

Uses extra gearing to provide maximum power to all four wheels at reduced speeds. Intended only for off-road applications such as deep sand, steep grades, or pulling heavy objects. 4L (4x4 low) will not engage while the vehicle is moving above 3 mph (5 km/h); this is normal and should be no reason for concern. Refer to Shifting to or from 4L (4x4 low) for proper operation.

Shifting between system modes

Note: Momentarily releasing the accelerator pedal while performing a shift will improve engagement/disengagement times.

Note: Do not perform this operation if the rear wheels are slipping.

Note: Some noise may be heard as the system shifts or engages; this is normal.

Note: 4x4 high mode is not intended for use on dry pavement.

You can move the control from 2H to 4A or 4H at a stop or while driving. The information display may display a message indicating a 4X4 shift is in progress. Once the shift is complete the message center will then display the system mode selected.

Shifting to or from 4L (4X4 low)

Note: Some noise may be heard as the system shifts or engages; this is normal.

Note: 4x4 low mode is not intended for use on dry pavement.

1. Bring the vehicle to a speed of 3 mph (5 km/h) or less.
2. Place the transmission in N (Neutral).
3. Move the 4WD control to the desired position.
The information display will display a message indicating a 4X4 shift is in progress. The information display will then display the system mode selected. If any of the above shift conditions are not met, the shift will not occur and the information display will display information guiding the driver through the proper shifting procedures.

If **SHIFT DELAYED PULL FORWARD** displays in the information display, a transfer case gear tooth blockage is present. To alleviate this condition, place the transmission in a forward gear, move your vehicle forward approximately 5 feet (1.5 meters), and shift the transmission back to **N** neutral to allow the transfer case to complete the range shift.

**How Your Vehicle Differs From Other Vehicles**

**WARNING**

Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are not designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

Truck and utility vehicles can differ from some other vehicles. Your vehicle may be higher to allow it to travel over rough terrain without getting hung up or damaging underbody components.

The differences that make your vehicle so versatile also make it handle differently than an ordinary passenger car.

Maintain steering wheel control at all times, especially in rough terrain. Since sudden changes in terrain can result in abrupt steering wheel motion, make sure you grip the steering wheel from the outside. Do not grip the spokes.

Drive cautiously to avoid vehicle damage from concealed objects such as rocks and stumps.

You should either know the terrain or examine maps of the area before driving. Map out your route before driving in the area. To maintain steering and braking control of your vehicle, you must have all four wheels on the ground and they must be rolling, not sliding or spinning.

**Driving Off-Road With Truck and Utility Vehicles**

**Note:** On some models, the initial shift from two-wheel drive to four-wheel drive while the vehicle is moving can cause some momentary clunk and ratcheting sounds. This is the front drivetrain coming up to speed and the automatic locking hubs engaging and is not cause for concern.

**Note:** Your vehicle may be equipped with a front air dam that can become damaged (due to reduced ground clearance) when taking your vehicle off-road. This air dam can be taken off by removing two bolts.

Four-wheel drive vehicles are specially equipped for driving on sand, snow, mud and rough terrain and have operating characteristics that are somewhat different from conventional vehicles, both on and off the road.
Power is supplied to all four wheels through a transfer case. On Four-wheel drive vehicles, the transfer case allows you to select 4WD when necessary. Information on transfer case operation and shifting procedures can be found in this chapter. Information on transfer case maintenance can be found in the Maintenance chapter. You should become thoroughly familiar with this information before you operate your vehicle.

Four-wheel drive (when you select a 4WD mode) 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.

Basic Operating Principles

- Drive slower in strong crosswinds which can affect the normal steering characteristics of your vehicle.
- When driving your vehicle on surfaces made slippery by loose sand, water, gravel, snow or ice proceed with care.
- Do not use Four-wheel drive on dry, hard surfaced roads. Doing so will produce excessive noise, increase tire wear and may damage drive components. Four-wheel drive modes are only intended for consistently slippery or loose surfaces.

If Your Vehicle leaves the Road

If your vehicle leaves the road, reduce your vehicle speed and avoid severe braking. When your vehicle speed has been reduced ease your vehicle back onto the road. Do not turn the steering wheel sharply while returning your vehicle to the road.

It may be safer to stay on the shoulder of the road and slow down gradually before returning to the road. You may lose control if you do not slow down or if you turn the steering wheel too sharply or abruptly.

It may be less risky to strike small objects, such as freeway reflectors, with minor damage to your vehicle rather than attempt a sudden return to the road which could cause your vehicle to slide sideways out of control or roll over. Remember, your safety and the safety of others should be your primary concern.

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 can result in loss of vehicle control. Apply smooth pressure to the accelerator pedal or brake pedal when changes in vehicle speed are required. Avoid abrupt steering, acceleration and braking. This could result in an increased risk of vehicle roll over, loss of vehicle control and personal injury. Use all available road surface to bring your 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 your vehicle goes from one type of surface to another (i.e. from concrete to gravel) there will be a change in the way your vehicle responds to a maneuver (i.e. steering, acceleration or braking).

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 excessive wheel slip.

When driving at slow speeds in deep sand under high outside temperatures, use a low gear when possible. Low gear operation will maximize the engine and transmission cooling capability.
Four-Wheel Drive (If Equipped)

Avoid driving at excessive speeds, this causes vehicle momentum to work against you and your vehicle could 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

Mud

Be cautious of sudden changes in vehicle speed or direction when you are driving in mud. Even four-wheel drive vehicles can lose traction in slick mud. If your vehicle does slide, steer in the direction of the slide until you regain control of your vehicle.

After driving through mud, clean off residue stuck to rotating driveshafts and tires. Excess mud stuck on tires and rotating driveshafts can cause an imbalance that could damage drive components.

Water

If you must drive through high water, drive slowly. Traction or brake capability may be limited.

When driving through water, determine the depth and avoid water higher than the bottom of the hubs. If the ignition system gets wet, your vehicle may stall.

Once through water, always try the brakes. Wet brakes do not stop your vehicle as effectively as dry brakes. Drying can be improved by applying light pressure to the brake pedal while moving slowly.

Note: Driving through deep water may damage the transmission. If the front or rear axle is submerged in water, the axle lubricant and power transfer unit lubricant should be checked and changed if necessary.

Driving on Hilly or Sloping Terrain

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.

Note: Avoid turning on steep slopes or hills. A danger lies in losing traction, slipping sideways and possible vehicle roll over. Whenever driving on a hill, determine beforehand the route you 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.

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 your vehicle stalls, do not try to turn around because this could cause vehicle roll over. It is better to reverse back 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. Disengage overdrive or move the transmission selector lever 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 your vehicle.

If your vehicle has anti-lock brakes, 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 your vehicle slides while cornering, steer in the direction of the slide until you regain control of your vehicle.

**Note:** Excessive tire slippage can cause transmission damage.

Four-wheel drive vehicles have advantages over two-wheel drive 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. Although a four-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in snow and ice, it will not stop any faster as 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. Do not pump the brake pedal. See Hints on Driving With Anti-Lock Brakes (page 161).

**If Your Vehicle Gets Stuck In Mud or Snow**

**WARNING**

Do not spin the wheels at over 35 mph (56 km/h). The tires may fail and injure a passenger or bystander.

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.

**Note:** Excessive tire slippage can cause transmission damage.

Four-wheel drive vehicles have advantages over two-wheel drive 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.

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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. Do not pump the brake pedal. See Hints on Driving With Anti-Lock Brakes (page 161).

**Parking**

**WARNINGS**

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.
**WARNINGS**

Always set the parking brake fully and make sure the gearshift is latched in P (Park). Turn the ignition to the off position and remove the key whenever you leave your vehicle.

On some Four-wheel drive vehicles, when the transfer case is in the N (Neutral) position, the engine and transmission are disconnected from the rest of the driveline. Therefore, the vehicle is free to roll even if the automatic transmission is in P (Park) or the manual transmission is in gear. Do not leave the vehicle unattended with the transfer case in the N (Neutral) position. Always set the parking brake fully and turn off the ignition when leaving the vehicle.

**Maintenance and Modifications**

The suspension and steering systems on your vehicle have been designed and tested to provide predictable performance whether loaded or empty. For this reason, we strongly recommend that you do not make modifications such as adding or removing parts (i.e. lift kits or stabilizer bars) or by using replacement parts not equivalent to the original factory equipment.

We recommend that you use caution when your vehicle has either a high load or device (i.e. ladder or luggage racks). Any modifications to your vehicle that raise the center of gravity may cause your vehicle to roll over when there is a loss of vehicle control.

Failure to maintain your vehicle correctly may void the warranty, increase your repair cost, reduce vehicle performance and operational capabilities and adversely affect you and your passenger’s safety. We recommend you frequently inspect your vehicle’s chassis components when your vehicle is subject to off road usage.
LIMITED SLIP DIFFERENTIAL
(IF EQUIPPED)

This axle provides added traction on slippery surfaces, particularly when one wheel is on a poor traction surface. Under normal conditions, the limited-slip axle functions like a standard rear axle. The axle may exhibit a slight noise or vibration during tight turns with low vehicle speed. This is normal behavior and indicates the axle is working.

ELECTRONIC LOCKING DIFFERENTIAL (IF EQUIPPED)

Note: The electronic locking differential is for off-road use only and is not for use on dry pavement. Using the electronic locking differential on dry pavement will result in increased tire wear, noise and vibration.

The electronic locking differential is a device housed in the rear axle that allows both rear wheels to turn at the same speed. The electronic locking differential can provide additional traction should your vehicle become stuck. You can activate the differential electronically and shift it on the fly within the differential operating speed range. The differential is for use in mud, rocks, sand, or any off-road condition where you need maximum traction. It is not for use on dry pavement.

The following conditions will affect the electronic locking differential:

- The electronic locking differential will not engage if your vehicle speed is above 20 mph (32 km/h) in 4x2, 4x4 Auto, or 4x4 High modes
- The electronic locking differential will not engage if your vehicle speed is above or 56 mph (90 km/h) in 4x4 Low
- The electronic locking differential will not engage if you press your accelerator pedal beyond 50% during an engagement attempt
- In 4x2, 4x4 Auto, and 4x4 High modes, the electronic locking differential will automatically disengage at speeds above 25 mph (41 km/h) and will automatically reengage at speeds below 20 mph (32 km/h)
- In 4L (4x4 low), the electronic locking differential will automatically disengage at speeds above 62 mph (100 km/h) and will automatically reengage at speeds below 56 mph (90 km/h)
- The AdvanceTrac system has the ability to take over control of the electronic locking differential and disable it during driving maneuvers when necessary

When you switch the system on, if you do not meet the required conditions for electronic locking differential activation, the instrument cluster will display the appropriate information guiding you through the proper activation process.

Activating the Electronic Locking Differential (If Equipped)

Note: Do not use electronic locking differential on dry, hard surfaced roads. Doing so will produce excessive noise, vibration and increase tire wear.

Note: If the electronic locking differential has difficulty disengaging, release the accelerator pedal and turn the steering wheel in the opposite direction while rolling.
Rear Axle

For 4WD vehicles

Pull the 4WD control knob toward you.

For 2WD vehicles

Turn the control to ON.

Once the indicator light illuminates in the information display, both rear wheel axle shafts will be locked together providing added traction.

If the indicator does not come on, or the indicator turns off while driving, one of the following has occurred:

- The vehicle speed is too high.
- The left and right rear wheel speed difference is too high during an engagement attempt.
- The system has malfunctioned and is accompanied by CHECK LOCKING DIFFERENTIAL in the information display. See your authorized Ford dealer for assistance.
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 your 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 Alloy Wheels (page 257).

See Warning Lamps and Indicators (page 81).

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 selector lever to position 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 system is disabled, normal braking is still effective. 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 system. 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.
PARKING BRAKE

**WARNING**

Always set the parking brake fully and make sure the transmission selector lever is placed in position P. Failure to set the parking brake and engage park could result in vehicle roll-away, property damage or bodily injury. Turn the ignition to the lock position and remove the key whenever you leave your vehicle.

Apply the parking brake whenever your vehicle is parked. Press the pedal downward to set the parking brake. The brake warning lamp in the instrument cluster will illuminate and remains illuminated until the parking brake is released.

To release, pull the brake release lever located at the lower left side of the instrument panel.

If you are parking your vehicle on a grade or with a trailer, press and hold the brake pedal down, then set the parking brake. There may be a little vehicle movement as the parking brake sets to hold the vehicle's weight. This is normal and should be no reason for concern. If needed, press and hold the service brake pedal down, then try reapplying the parking brake. Chock the wheels if required. If the parking brake cannot hold the weight of the vehicle, the parking brake may need to be serviced or the vehicle may be overloaded.

HILL START ASSIST

**WARNINGS**

The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake and put the transmission in park (P).

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 will remain stationary on the slope for two to three seconds after you release the brake pedal. This allows you time to move your foot from the brake to the accelerator pedal. The brakes are released 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).

The system will activate automatically on any slope that will cause significant vehicle rollback.

**Using Hill Start Assist**

1. Press the brake pedal to bring your vehicle to a complete standstill. Keep the brake pedal pressed.
2. If the sensors detect that your vehicle is on a slope, the system will activate automatically.
3. When you remove your foot from the brake pedal, your vehicle will remain on the slope without rolling away for about two or three seconds. This hold time will automatically be extended if you are in the process of driving off.
4. Drive off in the normal manner. The brakes will release automatically.
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), you can turn the traction control off. This may be beneficial as this allows the wheels to spin with full engine power.

System Indicator Lights and Messages

WARNING

If a failure has been detected within the traction control system, the stability control light will illuminate steadily. Verify that the traction control system was not manually disabled using the stability control button. If the stability control light still illuminates steadily, have the system serviced by an authorized dealer immediately. Operating your vehicle with traction control disabled could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

The stability control light temporarily illuminates on engine start-up and flashes when a driving condition activates the stability system.

The stability control off light temporarily illuminates on engine start-up and stays on when you turn the traction control system off or if a problem occurs in the stability system.

Turn the traction control system off by pressing the stability control button located on the center of the instrument panel.
**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 your 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 you to lose control of your vehicle increasing the risk of personal injury or property damage. Activation of the AdvanceTrac system is an indication that at least some of the tires have exceeded their ability to grip the road; this could reduce the operator's ability to control the vehicle potentially resulting in a loss of vehicle control, vehicle rollover, personal injury and death. If your AdvanceTrac system activates, SLOW DOWN.

The AdvanceTrac with Roll Stability 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 and roll stability control helps avoid a vehicle rollover. The traction control system helps avoid drive wheel spin and loss of traction. See **Using Traction Control** (page 164).
**Stability Control**

**USING STABILITY CONTROL**

**AdvanceTrac™ with Roll Stability Control™ (RSC™)**

The system automatically activates when you start your engine. You can turn off the electronic stability control and roll stability control portions of the system off below 35 mph (56 km/h). When the transmission is in position R, they are disabled. You can turn off the traction control portion of the system independently. See **Using Traction Control** (page 164).

<table>
<thead>
<tr>
<th>Button functions</th>
<th>Stability control OFF light</th>
<th>Roll stability control</th>
<th>Electronic stability control</th>
<th>Traction control system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default at start-up</td>
<td>Illuminated during bulb check</td>
<td>Enabled</td>
<td>Enabled</td>
<td>Enabled</td>
</tr>
<tr>
<td>Button pressed momentarily</td>
<td>Illuminated solid</td>
<td>Enabled</td>
<td>Enabled&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Disabled&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Button pressed and held for more than 5 seconds at vehicle speed under 35 mph (56 km/h)</td>
<td>Flashes then illuminated solid&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>Vehicle speed exceeds 35 mph (56 km/h) after button is pressed and held for more than 5 seconds</td>
<td>Illuminated solid</td>
<td>Enabled</td>
<td>Enabled&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Disabled&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
</tbody>
</table>
## Stability Control

<table>
<thead>
<tr>
<th>AdvanceTrac with RSC Features</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Button pressed again after deactivation</td>
<td>Not illuminated</td>
<td>Enabled</td>
<td>Enabled</td>
<td>Enabled</td>
</tr>
<tr>
<td>Transfer case switched to 4WD Low Locked&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Illuminated</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>1</sup>Traction control system could be enabled but with higher entry thresholds compared to full system. Electronic stability control entry thresholds are higher compared to the full system.

<sup>2</sup>Lamp light starts blinking for four seconds after entering the press and hold state.

<sup>3</sup>Control switch is not pressed. Stability control light turned on when 4WD Low Locked transfer case mode selected.

<sup>4</sup>Engine traction control and two-wheel spin brake traction control functions are disabled. Single wheel spin traction control is always enabled.
PRINCIPLE OF OPERATION

WARNINGS

Hill descent control cannot control descent in all surface conditions and circumstances, such as ice or extremely steep grades. Hill descent control is a driver assist system and cannot substitute for good judgment by the driver. Failure to do so may result in loss of vehicle control, crash or serious injury.

Hill descent control does not provide hill hold at zero miles per hour (0 kilometers per hour). When stopped, the parking brake must be applied or the vehicle must be placed in P (Park) or it may roll away.

Hill descent control allows the driver to set and maintain vehicle speed while descending steep grades in various surface conditions.

Hill descent control can maintain vehicle speeds on downhill grades between 2 mph (3 km/h) and 12 mph (20 km/h). Above 20 mph (32 km/h), the system remains armed, but descent speed cannot be set or maintained.

Hill descent control requires a cooling down interval after a period of sustained use. The amount of time that the feature can remain active before cooling varies with conditions. The system will provide a warning in the message center and a chime will sound when the system is about to disengage for cooling. At this time, manually apply the brakes as needed to maintain descent speed.

USING HILL DESCENT CONTROL

Press and release the hill descent button located on the instrument panel. A light in the cluster will illuminate and a chime will sound when this feature is activated.

To increase descent speed, press the accelerator pedal until the desired speed is reached. To decrease descent speed, press the brake pedal until the desired speed is reached.

Whether accelerating or decelerating, once the desired descent speed is reached, remove your feet from the pedals and the chosen vehicle speed will be maintained.

Note: Noise from the ABS pump motor may be observed during hill descent control operation. This is a normal characteristic of the ABS and should be no reason for concern.

Hill descent modes

- At speeds below 20 mph (32 km/h): When the Hill Descent Control switch is pressed and Hill Descent Control is active, the Hill Descent Control telltale will flash.
- At speeds below 20 mph (32 km/h): When the Hill Descent Control switch is pressed and conditions are not correct for hill descent activation, the Hill Descent Control system will be enabled, the Hill Descent Control telltale will be solid and a message will display in the information display.
At speeds above 20 mph (32 km/h):
When the Hill Descent Control switch is pressed, the Hill Descent Control system will be enabled, the telltale in the cluster will not be illuminated and a message will be displayed in the information display.

Refer to the Information Displays for additional Hill Descent Control messages. See Information Messages (page 97).
PARKING AID (IF EQUIPPED)

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 in reverse on a flat surface at parking speeds. Traffic control systems, inclement weather, air brakes, and external motors and fans may also affect the function of the sensing system; this may include reduced performance or a false activation.

To help avoid personal injury, always use caution when in R (Reverse) 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 the vehicle. The system may 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: If your vehicle is equipped with MyKey™, it is possible to prevent turning the sensing system off. See MyKey™ (page 52).

Note: If your vehicle is equipped with a fully integrated electronic trailer brake controller (TBC) and a trailer with electric trailer brakes is connected to your vehicle, the RSS will be disabled. When the vehicle is shifted into reverse, the information display will remain in the Rear Park Aid Off selection. For more information on the TBC, See Trailer Sway Control (page 190).

The sensing system warns the driver of obstacles within a certain range of the bumper area. The system turns on automatically whenever the ignition is switched on.

When receiving a detection warning, the radio volume is reduced to a predetermined level. After the warning goes away, the radio volume returns to the previous level.

Rear Sensing System

The rear sensors are only active when the transmission is in R (Reverse). As the vehicle moves closer to the obstacle, the rate of the audible warning increases. When the obstacle is fewer than 12 inches (30 centimeters) away, the warning sounds continuously. If a stationary or receding object is detected farther than 12 inches (30 centimeters) from the side of the vehicle, the tone sounds for only three seconds. Once the system detects an object approaching, the warning sounds again.
The system detects certain objects while the transmission is in R (Reverse):

- and moving toward a stationary object at a speed of 3 mph (5 km/h) or less
- but not moving, and a moving object is approaching the rear of the vehicle at a speed of 3 mph (5 km/h) or less

The system can be switched off through the information display. If a fault is present in the system, a warning message appears in the information display and does not allow the driver to switch the faulted system on.

**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.

The rear view camera system provides a video image of the area behind your vehicle.

During operation, lines appear in the display that represent your vehicle’s path and proximity to objects behind your vehicle.

The camera is located on the tailgate.

**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).
The system uses two types of guides to help you see what is behind your vehicle:

- **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 image comes on while the transmission is not in Reverse (R), have the system inspected by your authorized dealer.

**Note:** When towing, the camera only sees what you are towing behind your vehicle. This might not provide adequate coverage as it usually provides in normal operation and you might not see some objects. In some vehicles, the guidelines may disappear once you engage the trailer tow connector.

The camera may not operate correctly under the following conditions:

- Nighttime or dark areas if the 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 camera is misaligned due to damage to the rear of your vehicle.

To access any of the rear view camera system settings, make the following selections in the touch screen when the transmission is not in Reverse (R):

- **Menu > Vehicle > Camera Settings**

After changing a system setting, the touch screen shows a preview of the selected features.

### Guidelines and the Centerline

**Note:** Fixed guidelines are only available when the transmission is in R (Reverse).

The fixed guidelines fade in and out depending on the steering wheel position. The active guidelines are not shown 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 yellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of the vehicle.

### Enhanced Park Aids

**Note:** Enhanced park aids is only available when the transmission is 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 red, yellow and green highlights which appear on top of the video image when an object is detected by the reverse sensing system. The alert highlights the closest object detected. The reverse sensing alert can be disabled and if visual park aid alert is enabled, highlighted areas are still displayed.

Selectable settings for this feature are ON and OFF.

**Rear Camera Delay**

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 reaches 6 mph (10 km/h) or 10 seconds elapses. This occurs when the rear camera delay feature is on.

Selectable settings for this feature are ON and OFF. The default setting for the rear camera delay is OFF.
PRINCIPLE OF OPERATION

Cruise control lets you maintain a set speed without keeping your foot on the accelerator pedal.

USING CRUISE CONTROL

WARNINGs

Do not use cruise control in heavy traffic, on winding roads 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. Change down a gear to assist the system in maintaining the set speed. Failure to do so could result in loss of vehicle control, serious injury or death.

Note: Cruise control will disengage if the vehicle speed decreases more than 10 mph (16 km/h) below your set speed while driving uphill.

Setting a Speed

1. Accelerate to the desired speed.
2. Press and release SET+.
3. Take your foot off the accelerator pedal.

The indicator will change colors in the instrument cluster.

Changing the Set Speed

Note: If you accelerate by pressing the accelerator pedal, the set speed will not change. When you release the accelerator pedal, you will return to the speed that you previously 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 1 mph (2 km/h) increments.
• Press the accelerator or brake pedal until you reach the desired speed. Press and release SET+.

Canceling the Set Speed

Press CNCL or tap the brake pedal. You will not erase the set speed.

Resuming the Set Speed

Press and release RSM.

Switching Cruise Control Off

Note: You will erase the set speed if you switch the system off.

Press and release OFF or switch the ignition off.

The cruise controls are located on the steering wheel.

Switching Cruise Control On

Press and release ON.

The indicator will appear in the instrument cluster.
STEERING

Electric Power Steering (3.7L, 5.0L and 3.5L EcoBoost™ engines) (If Equipped)

WARNINGS

The electric power steering system has diagnostic checks that continuously monitor the system to ensure proper operation. When a system error is detected a steering message will appear in the information display.

The electric power steering system has diagnostic checks that continuously monitor the system to ensure proper operation of the electronic system. When an electronic error is detected, a message will be displayed in the information display. If this happens, stop the vehicle in a safe place, and turn off the engine. After at least 10 seconds, reset the system by restarting the engine, and watch the information display for a steering message. If a steering message returns, or returns while driving, take the vehicle to your dealer to have it checked.

Obtain immediate service if a system error is detected. You may not notice any difference in the feel of your steering, but a serious condition may exist. Failure to do so may result in loss of steering control.

Your vehicle is equipped with an electric power-assisted steering system. There is no fluid reservoir to check or fill.

If your vehicle loses electrical power while you are driving (or if the ignition is turned off), you can steer the vehicle manually, but it takes more effort. Extreme continuous steering may increase the effort it takes for you to steer. This occurs to prevent internal overheating and permanent damage to your steering system. If this should occur, you will neither lose the ability to steer the vehicle manually nor will it cause permanent damage. Typical steering and driving maneuvers will allow the system to cool and steering assist will return to normal.

Hydraulic Steering (6.2L engine) (If Equipped)

To help prevent damage to the power steering system, never hold the steering wheel at its furthest turning points (until it stops) for more than a few seconds when the engine is running. If the power steering system breaks down (or if the engine is turned off), you can steer the vehicle manually, but it takes more effort.

- Never hold the steering wheel at its furthest turning points (until it stops) for more than three to five seconds when the engine is running.
- Do not operate the vehicle with a low power steering pump fluid level (below the MIN mark on the reservoir).
- Some noise is normal during operation. If excessive, check for low power steering pump fluid level before seeking service by your dealer.
- Heavy or uneven efforts may be caused by low power steering fluid. Check for low power steering pump fluid level before seeking service by your dealer.
- Do not fill the power steering pump reservoir above the MAX mark on the reservoir, as this may result in leaks from the reservoir.

If the power steering system breaks down (or if the engine is turned off), you can steer the vehicle manually, but it takes more effort.
Steering Tips

If the steering wanders or pulls, check for:
- an improperly inflated tire
- uneven tire wear
- loose or worn suspension components
- loose or worn steering components
- improper vehicle alignment

A high crown in the road or high crosswinds may also make the steering seem to wander or pull.
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 a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle Curb Weight - is the weight of your new vehicle when you picked it up from your authorized dealer plus any aftermarket equipment.

PAYLOAD = + +

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:

TIRE AND LOADING INFORMATION

<table>
<thead>
<tr>
<th>SEATING CAPACITY</th>
<th>TOTAL 5</th>
<th>FRONT 2</th>
<th>REAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>The combined weight of occupants and cargo should never exceed: XXX kg or XXX lbs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIRE</td>
<td>SIZE</td>
<td>COLD TIRE PRESSURE</td>
<td></td>
</tr>
<tr>
<td>FRONT</td>
<td>LT225/75R 16.5E</td>
<td>200 KPA, 29 PSI</td>
<td></td>
</tr>
<tr>
<td>REAR</td>
<td>LT225/75R 16.5E</td>
<td>200 KPA, 29 PSI</td>
<td></td>
</tr>
<tr>
<td>SPARE</td>
<td>T145/80D16, P225/60R17</td>
<td>420 KPA, 60 PSI, 200 KPA, 29 PSI</td>
<td></td>
</tr>
</tbody>
</table>

SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION
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.
Load Carrying

**Note:** For trailer towing information refer to the RV and Trailer Towing Guide available at an authorized dealer.

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:

```
MFD. BY FORD MOTOR CO.
DATE: XXXX
FRONT GAWR: XXXXX
REAR GAWR: XXXXLB
GVWR: XXXXXLB/XXXXXXKG
WITH XXXXXKG
TIRE: XXXXX
RACK: XXXX
PS: XXXX
P3: XXXX
PSI COLD
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.
VIN: XXXXXXXXXXXXXXX
TYPE: XXX

180
```
**WARNING**

Exceeding the Safety Compliance Certification Label vehicle weight rating limits could result in substandard vehicle handling or performance, engine, transmission and/or structural damage, serious damage to the vehicle, loss of control and personal injury.

**GCW (Gross Combined Weight)** - is the 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...
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:**

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lb." on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.

3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lb.

4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1,400 lb. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lb. 

\[
(1400 - 750 \times 5) = 650 \text{ lb.}
\]

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.

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

The following gives you a few examples on how to calculate the available amount of cargo and luggage load capacity:

*Suppose your vehicle has a 1,400-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: 1,400 - (5 \times 220) - (5 \times 30) = 1,400 - 1,100 - 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 \times 99 kilograms) - (5 \times 13.5 kilograms) = 635 - 495 - 67.5 = 72.5 kilograms.

*Suppose your vehicle has a 1,400-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: 1,400 - (2 \times 220) - (12 \times 100) = 1,400 - 440 - 1,200 = - 240 pounds. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be: 635 kilograms - (2 \times 99 kilograms) - (12 \times 45 kilograms) = 635 - 198 - 540 = - 24 kilograms.
be: 635 kilograms - (2 x 99 kilograms) - (12 x 45 kilograms) = 635 - 198 - 540 = -103 kilograms.
You will need to reduce the load weight by at least 240 pounds (104 kilograms). If you remove three 100-pound (45-kilogram) cement bags, then the load calculation would be: 1400 - (2 x 220) - (9 x 100) = 1400 - 440 - 900 = 60 pounds. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be: 635 kilograms - (2 x 99 kilograms) - (9 x 45 kilograms) = 635 - 198 - 405 = 32 kilograms.

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.

### Special Loading Instructions for Owners of Pick-up Trucks and Utility-type Vehicles

**WARNING**

Loaded vehicles may handle differently than unloaded vehicles. Extra precautions, such as slower speeds and increased stopping distance, should be taken when driving a heavily loaded vehicle.

Your vehicle can haul more cargo and people than most passenger cars. Depending upon the type and placement of the load, hauling cargo and people may raise the center of gravity of the vehicle.

**TAILGATE**

**Tailgate Lock (If Equipped)**

The tailgate lock can help prevent theft of the tailgate.

Insert the ignition key into the tailgate lock. Turn it to the right to lock the tailgate. Turn it to the left to unlock the tailgate.

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184
Tailgate Removal

WARNING

Always properly secure cargo to prevent shifting cargo or cargo falling from vehicle, which could result in compromised vehicle stability and serious personal injury to vehicle occupants or others.

You can remove the tailgate for more loading room.

Note: Skip to Step 4 if your vehicle does not have a rearview camera.

1. Locate and disconnect the rearview camera in-line connector. It is under the pickup box on the right-hand side of the vehicle near the spare tire.

2. There is a protective cap in the glove box. Install it on the in-line connector that remains under the pickup box.

3. Partially lower the tailgate. Carefully feed the tailgate harness up through the gap between the pickup box and the bumper and place it out of the way under the pickup box.

4. Lower the tailgate.

5. Use a screwdriver to gently pry the spring clip on each connector past the head of the support screw. Disconnect the cable.

6. Disconnect the other cable.

7. Lift the tailgate to a 45-degree angle from horizontal.

8. Lift the right side off its hinge.

9. Lift the tailgate to an 80-degree angle from horizontal.

10. Remove the tailgate from the left side hinge by sliding it to the right.

Reverse the steps to reinstall the tailgate.

Tailgate Step (If Equipped)

Use the step to make entering the truck bed easier.

To reduce the risk of falling:

• Only operate the step when your vehicle is on a level surface.
• Only operate the step in areas with sufficient lighting.
• Always open the step panel to widen the step.
• Always use the grab handle when climbing on the step.
• Do not use the step with bare feet.
• Make sure the step is clean before use.
• Keep the step load, you plus the load, below 350 pounds (159 kilograms).
Opening the Step

Note: Make sure to close and fully latch the step before moving your vehicle. Never drive with the step or grab handle open.

1. Lower the tailgate.
2. Pull the yellow lever on the grab handle to the unlock position.
3. Raise the handle upright until you feel it latch and see the lever in the lock position. You only need to use the lever when releasing the grab handle.
4. Rotate the center molding to unlatch the step. Pull it toward you to extend it.
5. Open the step panel to widen the step.

Closing the Step

1. Close the step panel then lift and fully close the step into the tailgate.
2. Move the yellow lever on the grab handle to the unlock position and lower the handle.

Box Side Step (If Equipped)

Use the step for easier access to the trunk bed.

Note: Do not drive with the step deployed.

Note: Do not exceed 500 pounds (227 kilograms) on the step. This includes you plus cargo.

Note: Do not use the steps to lift the vehicle. Only use proper jacking points.

Note: The steps may operate more slowly in cool temperatures.

Note: The step mechanism may trap debris such as mud, dirt, snow, ice and salt. This may prevent the step from deploying automatically when you press the button. If this happens, make sure that you press the button down and carefully pull out the step manually. Wash off the debris with a high-pressure car wash wand and stow the step.

Replace the slip resistance tape or grab handle molding if it appears worn or damaged.
**Deploying the Step**

Push down on the button with your foot. The step will automatically extend from the stowed position.

**Stowing the Step**

Push the step under the truck with your foot until it fully latches. Do not push on the button while stowing the step.

**Bed Extender (If Equipped)**

**Note:** Do not use the bed extender when driving off road.

**Note:** Make sure to engage the locking pins and knobs fully before driving your vehicle.

**Note:** Make sure to secure all cargo.

**Note:** Do not exceed 150 pounds (68 kilograms) on the tailgate when your vehicle is moving.

**Tailgate Mode**

1. Pull the locking pin toward the center of your vehicle.

2. Open the latches to release the panels.
3. Rotate the panels toward the tailgate. Repeat Steps 1-3 on the other side of your vehicle.

4. Connect the two panels. Rotate both knobs one-quarter turn clockwise to secure the panels.

5. Make sure to insert the latch rod into the tailgate hole. Make sure to engage both sides of the locking pins into their holes in the pick-up box.

Reverse the steps to store the bed extender.

**Grocery Mode**

Follow Steps 1-4 of the tailgate mode instructions by rotating the panels away from the tailgate. Close the tailgate.
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 the vehicle and could result in engine damage, transmission damage, structural damage, loss of vehicle control, vehicle rollover and personal injury.

Your vehicle may have electrical items, such as fuses or relays, related to towing. See the Fuses chapter.

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 another chapter of this manual. See Load Limit (page 177). You can also find the information in the RV & Trailer Towing Guide, available at an authorized dealer.
TRAILER SWAY CONTROL (IF EQUIPPED)

WARNING

Turning off trailer sway control increases the risk of loss of vehicle control, serious injury or death. Ford does not recommend disabling this feature except in situations where speed reduction may be detrimental (such as hill climbing), the driver has significant trailer towing experience, and can control trailer sway and maintain safe operation.

Note: This feature does not prevent trailer sway, but reduces it once it begins.

Note: This feature cannot stop all trailers from swaying.

Note: In some cases, if vehicle speed is too high, the system may activate multiple times, gradually reducing vehicle speed.

This feature applies your vehicle brakes at individual wheels and, if necessary, reduces engine power. If the trailer begins to sway, the stability control light flashes and the message TRAILER SWAY REDUCE SPEED appears in the information display. The first thing to do is slow your vehicle down, then pull safely to the side of the road and check for proper tongue load and trailer load distribution. See Load Carrying (page 177).

RECOMMENDED TOWING WEIGHTS

Note: Do not exceed a trailer weight of 5000 pounds (2268 kilograms) if your vehicle is not equipped with a Heavy Duty Trailer Towing Package.

Note: Make sure to take into consideration trailer frontal area. Vehicles not equipped with the Trailer Tow Package or the Heavy Duty Payload Package should not exceed 36 feet² lb (3.35 meters²) trailer frontal area. Vehicles equipped with the Trailer Tow Package or the Heavy Duty Tow Payload Package should not exceed 60 feet² lb (5.6 meters²) trailer frontal area.

Note: Exceeding this limitation may significantly reduce the performance of your towing vehicle. Selecting a trailer with a low aerodynamic drag and rounded front design helps optimize performance and fuel economy.

Note: For high altitude operation, reduce the gross combined weight by 2% per 1000 feet (300 meters) starting at the 1000 foot (300 meter) elevation point.

Note: Certain states require electric trailer brakes for trailers over a specified weight. Be sure to check state regulations for this specified weight. The maximum trailer weights listed may be limited to this specified weight, as your vehicle’s electrical system may not include the wiring connector needed to use electric trailer brakes.
Your vehicle may tow a class I, II, III or IV trailer provided the GCWR is less than or equal to the maximum trailer weight listed for your engine and rear axle ratio on the following charts.

<table>
<thead>
<tr>
<th>Driveline</th>
<th>Wheelbase (inches)</th>
<th>Engine</th>
<th>Axle ratio</th>
<th>Maximum GCWR</th>
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</thead>
<tbody>
<tr>
<td>Two-wheel drive</td>
<td>126</td>
<td>3.5L*</td>
<td>4.10</td>
<td>13300 lb (6033 kg)</td>
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<td>3.7L</td>
<td>3.55</td>
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<tr>
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<td>3.7L</td>
<td>3.73</td>
<td>11500 lb (5216 kg)</td>
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<td>14900 lb (6759 kg)</td>
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<td>3.55</td>
<td>15000 lb (6804 kg)</td>
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## Towing

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*Tremor Package.

**Heavy Duty Payload Package.
## Towing

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## Towing

### SuperCab

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¹SVT Raptor.

²MAX Trailer Tow Package.

³Heavy Duty Payload Package.

### SuperCrew

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<th>Engine</th>
<th>Axle ratio</th>
<th>Maximum GCWR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3.7L</td>
<td>3.73</td>
<td>11700 lb (5307 kg)</td>
</tr>
<tr>
<td>Two-wheel drive</td>
<td>145</td>
<td>5.0</td>
<td>3.31, 3.55</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.73</td>
<td>14900 lb (6759 kg)</td>
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<tr>
<td></td>
<td></td>
<td>6.2L</td>
<td>3.73</td>
<td>13500 lb (6123 kg)</td>
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<tr>
<td></td>
<td></td>
<td>6.2L</td>
<td>3.55</td>
<td>15600 lb (7076 kg)</td>
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<tr>
<td></td>
<td></td>
<td>6.2L²</td>
<td>3.73</td>
<td>17100 lb (7756 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5L</td>
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<td>3.55, 3.73</td>
<td>15500 lb (7031 kg)</td>
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<td></td>
<td></td>
<td>3.5L²</td>
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<td></td>
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<td>5.0L</td>
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<tr>
<td></td>
<td></td>
<td>6.2L³</td>
<td>4.10</td>
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## Towing

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<tr>
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<th>Engine</th>
<th>Axle ratio</th>
<th>Maximum GCWR</th>
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<tbody>
<tr>
<td><strong>Two-wheel drive</strong></td>
<td>157</td>
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<td>15600 lb (7076 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>3.5L</td>
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<td>14000 lb (6350 kg)</td>
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<td>3.5L²</td>
<td>3.73</td>
<td>17000 lb (7711 kg)</td>
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<td></td>
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</table>
### Towing

#### SuperCrew

<table>
<thead>
<tr>
<th>Driveline</th>
<th>Wheelbase (inches)</th>
<th>Engine</th>
<th>Axle ratio</th>
<th>Maximum GCWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5L²</td>
<td></td>
<td>3.73, 4.10</td>
<td>17100 lb (7756 kg)</td>
<td></td>
</tr>
<tr>
<td>3.5L⁴</td>
<td></td>
<td>3.73</td>
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<td></td>
</tr>
<tr>
<td>5.0L</td>
<td></td>
<td>3.55</td>
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<td></td>
</tr>
<tr>
<td>5.0L⁴</td>
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<td></td>
</tr>
<tr>
<td>6.2L</td>
<td></td>
<td>3.55</td>
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<td></td>
</tr>
<tr>
<td>6.2L²</td>
<td></td>
<td>3.73</td>
<td>17100 lb (7756 kg)</td>
<td></td>
</tr>
</tbody>
</table>

¹Limited.
²MAX Trailer Tow Package.
³SVT Raptor.
⁴Heavy Duty Payload Package.

### Calculating the Maximum Loaded Trailer Weight for Your Vehicle

1. Start with the gross combined weight rating for your vehicle model and axle ratio. See the previous charts.
2. Subtract all of the following that apply to your vehicle:
   - Vehicle curb weight
   - Hitch hardware weight, such as a draw bar, ball, locks or weight distributing hardware
   - Driver weight
   - Passenger(s) weight
   - Payload, cargo and luggage weight
   - Aftermarket equipment weight.
This equals the maximum loaded trailer weight for this combination.

**Note:** *The trailer tongue load is considered part of the payload for your vehicle. Reduce the total payload by the final trailer tongue weight.*

**Note:** Consult an authorized dealer to determine the maximum trailer weight allowed for your vehicle if you are not sure.

**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 you tow a trailer. See your scheduled maintenance information.
- If you use a rental trailer, follow the instructions the rental agency gives you.

See **Load limits** in the Load Carrying chapter for load specification terms found on the tire label and Safety Compliance label and instructions on calculating your vehicle's load.

Remember to account for the trailer tongue weight as part of your vehicle load when calculating the total vehicle weight.

**Trailer Towing Connector**

When attaching the trailer wiring connector to your vehicle, only use a proper fitting connector that works with the vehicle and trailer functions. Some seven-position connectors may have the SAE J2863 logo, which confirms that it is the proper wiring connector and works correctly with your vehicle.

<table>
<thead>
<tr>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Left turn signal and stop lamp</td>
</tr>
<tr>
<td>White</td>
<td>Ground (-)</td>
</tr>
<tr>
<td>Blue</td>
<td>Electric brakes</td>
</tr>
<tr>
<td>Green</td>
<td>Right turn signal and stop lamp</td>
</tr>
<tr>
<td>Orange</td>
<td>Battery (+)</td>
</tr>
<tr>
<td>Brown</td>
<td>Running lights</td>
</tr>
<tr>
<td>Grey</td>
<td>Reverse lights</td>
</tr>
</tbody>
</table>

**Hitches**

Do not use a hitch that either clamps onto the bumper or attaches to the axle. You must distribute the load in your trailer so that 10-15% of the total weight of the trailer is on the tongue.
Weight-distributing Hitches

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not adjust a weight-distributing hitch to any position where the rear bumper of the vehicle is higher than it was before attaching the trailer. Doing so will defeat the function of the weight-distributing hitch, which may cause unpredictable handling, and could result in serious personal injury.</td>
</tr>
</tbody>
</table>

When hooking-up a trailer using a weight-distributing hitch, always use the following procedure:

1. Park the loaded vehicle, without the trailer, on a level surface.
2. Measure the height to the top of your vehicle's front wheel opening on the fender. This is H1.
3. Attach the loaded trailer to your vehicle without the weight-distributing bars connected.
4. Measure the height to the top of your vehicle's front wheel opening on the fender a second time. This is H2.
5. Install and adjust the tension in the weight-distributing bars so that the height of your vehicle's front wheel opening on the fender is approximately halfway between H1 and H2.
6. Check that the trailer is level or slightly nose down toward your vehicle. If not, adjust the ball height accordingly and repeat Steps 2-6.

Once the trailer is level or slightly nose down toward the vehicle:
- Lock the bar tension adjuster in place.
- Check that the trailer tongue securely attaches and locks onto the hitch.
- Install safety chains, lighting, and trailer brake controls as required by law or the trailer manufacturer.

Safety Chains

**Note:** Do not attach safety chains to the bumper.

Always connect the safety chains to the frame or hook retainers of your vehicle hitch.

To connect the safety chains, cross the chains under the trailer tongue and allow enough slack for turning tight corners. Do not allow the chains to drag on the ground.

Trailer Brakes

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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.

Separate functioning brake systems are required for safe control of towed vehicles and trailers weighing more than 1500 pounds (680 kilograms) when loaded.
Integrated Trailer Brake Controller (If Equipped)

**WARNING**

The Ford trailer brake controller has been verified to be compatible with trailers having electric-actuated drum brakes (one to four axles) and electric-over-hydraulic brakes. It will not activate hydraulic surge-style trailer brakes. It is the responsibility of the customer to ensure that the trailer brakes are adjusted appropriately, functioning normally and all electric connections are properly made. Failure to do so may result in loss of vehicle control, crash or serious injury.

![Diagram of trailer brake controller](image)

When used properly, the trailer brake controller assists in smooth and effective trailer braking by powering the trailer's electric or electric-over-hydraulic brakes with a proportional output based on the towing vehicle's brake pressure.

The controller user interface consists of the following:

**A:** Manual control lever: Slide the control lever to the left to turn on the trailer's electric brakes independent of the tow vehicle's. See the following **Procedure for adjusting gain** section for instructions on proper use of this feature. If you use the manual control while the brake is also applied, the greater of the two inputs determines the power sent to the trailer brakes.

- **Stop lamps:** Using the manual control lever illuminates both the trailer brake lamps and your vehicle brake lamps except the center high-mount stop lamp, if you make the proper electrical connection to the trailer. Pressing your vehicle brake pedal also illuminates both trailer and vehicle brake lamps.

**B:** + and - (Gain adjustment buttons): Pressing these buttons adjusts the controller's power output to the trailer brakes in 0.5 increments. You can increase the gain setting to 10.0 (maximum trailer braking) or decrease it to 0 (no trailer braking). Pressing and holding a button raises or lowers the setting continuously. The gain setting displays in the message center as follows: **TBC GAIN = XX.X.**
The controller shows gain setting, output bar graph, and trailer connectivity status in the information display. They appear in the information display as follows:

- **TBC GAIN = XX.X NO TRAILER:** Shows the current gain setting during a given ignition cycle and when adjusting the gain. This also displays if you use the manual control lever or make gain adjustments with no trailer connected.

- **TBC GAIN = XX.X OUTPUT=/////**: Displays when you push your vehicle’s brake pedal, or upon use of the manual control. Bar indicators illuminate in the information display to indicate the amount of power going to the trailer brakes relative to the brake pedal or manual control input. One bar indicates the least amount of output; six bars indicate maximum output.

- **TRAILER CONNECTED:** Displays when the system senses a correct trailer wiring connection (a trailer with electric trailer brakes) during a given ignition cycle.

- **TRAILER DISCONNECTED:** Displays, accompanied by a single audible time, when the system senses a trailer connection and then a disconnection, either intentional or unintentional, during a given ignition cycle. It also displays if a truck or trailer-wiring fault occurs causing the trailer to appear disconnected. This message can also display if you use the manual control lever without a trailer connected.

### Procedure for Adjusting Gain

**Note:** Only perform this procedure in a traffic-free environment at speeds of approximately 20-25 mph (30-40 km/h).

The gain setting sets the trailer brake controller for the specific towing condition. You should change the setting as towing conditions change. Changes to towing conditions include trailer load, vehicle load, road conditions and weather.

The gain should be set to provide the maximum trailer braking assistance while making sure the trailer wheels do not lock when using the brakes. Locked trailer wheels may lead to trailer instability.

1. Make sure the trailer brakes are in good working condition, functioning normally and properly adjusted. See your trailer dealer if necessary.

2. Hook up the trailer and make the electrical connections according to the trailer manufacturer’s instructions.

3. When you plug in a trailer with electric or electric-over-hydraulic brakes, **TRAILER CONNECTED** appears in the information display.

4. Use the gain adjustment (+ and -) buttons to increase or decrease the gain setting to the desired starting point. A gain setting of 6.0 is a good starting point for heavier loads.

5. In a traffic-free environment, tow the trailer on a dry, level surface at a speed of 20-25 mph (30-40 km/h) and squeeze the manual control lever completely.

6. If the trailer wheels lock up, indicated by squealing tires, reduce the gain setting. If the trailer wheels turn freely, increase the gain setting. Repeat Steps 5 and 6 until the gain setting is at a point just below trailer wheel lock-up. If towing a heavier trailer, trailer wheel lock-up may not be attainable even with the maximum gain setting of 10.
Towing

Explanation of Information Display
Warning Messages

Note: An authorized dealer can diagnose the trailer brake controller to determine exactly which trailer fault has occurred. However, your Ford warranty does not cover this diagnosis if the fault is with the trailer.

TRAILER BRAKE MODULE FAULT: Displays in response to faults sensed by the trailer brake controller, accompanied by a single tone. If this message appears, contact an authorized dealer as soon as possible for diagnosis and repair. The controller may still function, but performance may be degraded.

WIRING FAULT ON TRAILER: Displays when there is a short circuit on the electric brake output wire. If the WIRING FAULT ON TRAILER message displays, accompanied by a single tone, with no trailer connected, the problem is with your vehicle wiring between the trailer brake controller and the 7-pin connector at the bumper. If the message only displays with a trailer connected, the problem is with the trailer wiring. Consult your trailer dealer for assistance. This can be a short to ground (such as a chaffed wire), short to voltage (such as a pulled pin on trailer emergency breakaway battery) or the trailer brakes may be drawing too much current.

Points to Remember

Note: Do not attempt removal of the trailer brake controller without consulting the Workshop Manual. Damage to the unit may result.

- Adjust gain setting before using the trailer brake controller for the first time.
- Adjust gain setting, using the procedure above, whenever road, weather and trailer or vehicle loading conditions change from when the gain was initially set.

- Only use the manual control lever for proper adjustment of the gain during trailer setup. Misuse, such as application during trailer sway, could cause instability of trailer or tow vehicle.
- Avoid towing in adverse weather conditions. The trailer brake controller does not provide anti-lock control of the trailer wheels. Trailer wheels can lock up on slippery surfaces, resulting in reduced stability of trailer and tow vehicle.
- The trailer brake controller is equipped with a feature that reduces output at vehicle speeds below 11 mph (18 km/h) so trailer and vehicle braking is not jerky or harsh. This feature is only available when applying the brakes using your vehicle’s brake pedal, not the controller.
- The controller interacts with the brake control system and powertrain control system of your vehicle to provide the best performance on different road conditions.
- Your vehicle’s brake system and the trailer brake system work independently of each other. Changing the gain setting on the controller does not affect the operation of your vehicle’s brakes whether you attach a trailer or not.
- When you switch the engine off, the controller output is disabled and the display and module shut down. The controller module and display turn on when you switch the ignition on.
- The trailer brake controller is only a factory-installed or dealer-installed item. Ford is not responsible for warranty or performance of the controller due to misuse or customer installation.
Towing

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.

Using a Step Bumper (If Equipped)

The rear bumper is equipped with an integral hitch and only requires a ball with a one-inch (25.4 millimeter) shank diameter. The bumper has a 5000-pound (2268 kilogram) trailer weight and a 500-pound (227 kilogram) tongue weight capacity.

If it is necessary to relocate the hitch ball position, you must install a frame-mounted trailer hitch.

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.
- If your vehicle is equipped with AdvanceTrac with RSC, this system may turn on during typical cornering maneuvers with a heavily loaded trailer. This is normal. Turning the corner at a slower speed while towing may reduce this tendency.
- If you are towing a trailer frequently in hot weather, hilly conditions, at the gross combined weight rating (or any combination of these factors), consider refilling your rear axle with synthetic gear lubricant (if the axle is not already filled with it). See **Capacities and Specifications** (page 295).
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.
- Set your vehicle parking brake.
- Place the automatic transmission in position P.
- Place wheel chocks in front and back of the trailer wheels. (Chocks not included with vehicle.)

Your vehicle may be equipped with a temporary or conventional spare tire. A "temporary" spare tire is different in size (diameter or width), tread-type (All-Season or All Terrain) or is from a different manufacturer than the road tires on your vehicle. Consult information on the tire label or Safety Compliance label for limitations when using.

**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 the trailer is removed 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.

Replace the rear axle lubricant anytime the rear axle has been submerged in water. Water may have contaminated the rear axle lubricant, which is not normally checked or changed unless a leak is suspected or other axle repair is required.

**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 two-wheel drive vehicle towed with the front wheels on the ground (without dollies) and the rear wheels off the ground.

We recommend towing a four-wheel drive vehicle with all wheels off the ground, such as using a wheel lift and dollies or flatbed equipment.

TOWING THE VEHICLE ON FOUR WHEELS

**Emergency Towing**

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 145).
- 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 your vehicle. See Climate Control (page 105).*

Follow these guidelines if you have a need for recreational towing, such as towing your vehicle behind a motorhome. We designed these guidelines to prevent damage to your transmission.

**Two-wheel Drive Vehicles**

You cannot tow a two-wheel drive vehicle with any wheels on the ground as vehicle or transmission damage may occur. You must tow your vehicle with all four wheels off the ground, such as when using a car-hauling trailer.

**Four-wheel Drive Vehicles**

You can only tow a four-wheel drive vehicle with all wheels on the ground by placing the transfer case in its neutral position and engaging the four-wheel-down towing feature. Perform the steps outlined in the following section after positioning your vehicle behind the tow vehicle and properly securing them together.

**Four-wheel-down Towing**

1. Turn the ignition to the on position. Do not start the engine.
2. Press and hold the brake pedal.
3. Rotate the four-wheel drive switch to **2H**.
4. Shift the transmission to position **N**.
5. Rotate the four-wheel drive switch from **2H** to **4L** and back to **2H** five times within seven seconds.
Note: If completed successfully, the information display shows **NEUTRAL TOW LEAVE IN N** or **NEUTRAL TOW ENABLED LEAVE TRANSMISSION IN NEUTRAL**. This indicates that your vehicle is safe to tow with all wheels on the ground.

**Note:** If you do not see the message in the display, you must perform the procedure again from the beginning.

**Note:** You may hear an audible noise as the transfer case shifts into its neutral position. This is normal.

6. Leave the transmission in position **N** and turn the ignition as far as it will go toward the off position (it will not turn fully off when the transmission is in position **N**. You must leave the key in the ignition while towing. To lock and unlock your vehicle, use the keyless entry keypad or extra set of keys.

7. Release the brake pedal.

**WARNINGS**

⚠️ Do not disconnect the battery during recreational towing. Doing so will prevent the transfer case from shifting properly and may cause the vehicle to roll even if the transmission is in **P** (Park).

⚠️ Shifting the transfer case to its neutral position for recreational towing may cause the vehicle to be able to roll even if the transmission is in **P** (Park). The driver or others could be injured. Make sure the foot brake is depressed and the vehicle is in a secure and safe position while the transfer case is being shifted to its neutral position.

⚠️ Failing to put the transfer case in its neutral position will damage vehicle components.

**Note:** You can check four-wheel-down towing status at any time by opening the driver’s door or turning the ignition to the accessory or on position and verifying the **NEUTRAL TOW ENABLED** message displays in the cluster.

To exit four-wheel-down towing and return the transfer case to its **2H** position:

1. With your vehicle still properly secured to the tow vehicle, press and hold the brake pedal.
2. Turn the ignition to the on position. Do not start the engine.
3. Shift the transmission out of **N** and into any gear.
4. Release the brake pedal.

**Note:** If completed successfully, the instrument cluster displays **4X2**, and **NEUTRAL TOW DISABLED**.

**Note:** If the indicator light and message do not display, you must perform the procedure again from the beginning.

**Note:** You may hear an audible noise as the transfer case shifts out of its neutral position. This is normal.

5. Apply the parking brake, and then disconnect the vehicle from the tow vehicle.

6. Release the parking brake, start the engine, and shift the transmission to position **D** to make sure the transfer case is out of position **N**.

7. If the transfer case does not successfully shift out of position **N**, set the parking brake until you can have your vehicle serviced.
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

Your fuel economy is affected by several things, such as how you drive, the conditions you drive under, and how you maintain your vehicle.

You may improve your fuel economy by keeping these things in mind:

- Accelerate and slow down in a smooth, moderate fashion.
- Drive at steady speeds without stopping.
- Anticipate stops; slowing down may eliminate the need to stop.
- Combine errands and minimize stop-and-go driving.
- Close the windows for high-speed driving.
- Drive at reasonable speeds (traveling at 55 mph [88 km/h] uses 15% less fuel than traveling at 65 mph [105 km/h]).
- Keep the tires properly inflated and use only the recommended size.
- Use the recommended engine oil.
- Perform all regularly scheduled maintenance.

Avoid these actions; they reduce your fuel economy:

- Sudden accelerations or hard accelerations.
- Revving the engine before turning it off.
- Idle for periods longer than one minute.
- Warm up your vehicle on cold mornings.
- Use the air conditioner or front defroster.
- Use the speed control in hilly terrain.
- Rest your foot on the brake pedal while driving.
- Drive a heavily loaded vehicle or tow a trailer.
- Carry unnecessary weight (approximately 1 mpg [0.4 km/L] is lost for every 400 lb [180 kilogram] of weight carried).
- Driving with the wheels out of alignment.

Conditions

- Heavily loading a vehicle or towing a trailer may reduce fuel economy at any speed.
- Adding certain accessories to your vehicle (for example bug deflectors, rollbars, light bars, running boards, ski racks or luggage racks) may reduce fuel economy.
- To maximize the fuel economy, drive with the tonneau cover installed (if equipped).
- Using fuel blended with alcohol may lower fuel economy.
- Fuel economy may decrease with lower temperatures during the first 8–10 miles (12–16 kilometers) of driving.
- Driving on flat terrain offers improved fuel economy as compared to driving on hilly terrain.
Driving Hints

- Transmissions give their best fuel economy when operated in the top cruise gear and with steady pressure on the gas pedal.
- Four-wheel-drive operation (if equipped) is less fuel efficient than two-wheel-drive operation.
- Close the windows for high-speed driving.

DRIVING THROUGH WATER

**Note:** Driving through deep water above the recommended levels can cause vehicle damage.

If driving through deep or standing water is unavoidable, proceed very slowly. Never drive through water that is higher than the bottom of the wheel rims (for cars) or the bottom of the hubs (for trucks).

When driving through water, traction or brake capability may be limited. Also, water may enter your engine’s air intake and severely damage your engine or your vehicle may stall.

Once through the water, always dry the brakes by moving your vehicle slowly while applying light pressure on the brake pedal. Wet brakes do not stop the vehicle as quickly as dry brakes.

FLOOR MATS

**WARNINGS**

Always use floor mats that are designed to fit the foot well of your vehicle, leaving the pedal area unobstructed, and which can be 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.

Incorrectly fitted floor mats can cause the accelerator pedal to become stuck in the open position. This can cause loss of vehicle control.

Always correctly install the floor mats to the retention posts so that they cannot slip out of position or obstruct pedal operation.

Do not place unsecured floor mats or any other covering in the foot well.

Do not place additional floor mats or any other covering on top of the original floor mats. This will reduce the pedal clearance and interfere with the pedal operation.

Do not allow objects to fall or become trapped under the pedals of your vehicle. This can cause loss of vehicle control.

Carry out regular inspections to make sure the floor mats are secure.
To install the floor mats, position the floor mat eyelet over the retention post and press down to lock in position. Remove in reverse order.

SNOWPLOWING

For F-150 snowplowing applications, Ford recommends the F150 4X4 Regular Cab, SuperCrew or SuperCab, equipped with the 6.2L engine for residential snowplowing only.

Do not use F-150 vehicles equipped with the 3.5L, 3.7L or 5.0L engines for snowplowing.

Installing the Snowplow

Weight limits and guidelines for selecting and installing the snowplow are in the Ford Truck Body Builders Layout Book, snowplow section, found at www.fleet.ford.com/truckbbas. A typical installation affects the following:

• Certification to government safety laws such as occupant protection and airbag deployment, braking, and lighting. Look for an Alterer’s Label on the vehicle from the snowplow installer certifying that the installation meets all applicable Federal Motor Vehicle Safety Standards (FMVSS).

• The Total Accessory Reserve Capacity (TARC) is on the lower right side of the vehicle’s Safety Compliance Certification Label. This applies to Ford-completed vehicles of 10,000.17 lb (4,536 kg) GVWR or less. This is the weight of permanently-attached auxiliary equipment, such as snowplow frame-mounting hardware, that can be added to the vehicle and satisfy Ford compliance certification to FMVSS. Exceeding this weight may require the auxiliary equipment installer additional safety certification responsibility. The Front Accessory Reserve Capacity (FARC) is for the customer convenience.

• Rear ballast weight behind the rear axle may be required to prevent exceeding the FGAWR, and provide front-to-rear weight balance for proper braking and steering.

• Front wheel toe may require re-adjustment to prevent premature uneven tire wear. Specifications are in the Ford Workshop Manual.

• Headlight aim may require adjustment.
Driving Hints

• The tire air pressures recommended for general driving are on the vehicle’s Safety Certification Label. The maximum cold inflation pressure for the tire and associated load rating are on the tire sidewall. Tire air pressure may require re-adjustment within these pressure limits to accommodate the additional weight of the snowplow installation.
• Federal and some local regulations require additional exterior lamps for snowplow-equipped vehicles. Consult your authorized dealer for additional information.

Operating the Vehicle with the Snowplow Attached

Note: Drive the vehicle at least 500 miles (800 kilometers) before using your vehicle for snow removal.

Ford recommends vehicle speed does not exceed 45 mph (72 km/h) when snowplowing.

The attached snowplow blade restricts airflow to the radiator, and may cause the engine to run at a higher temperature: Attention to engine temperature is especially important when outside temperatures are above freezing. Angle the blade to maximize airflow to the radiator and monitor engine temperature to determine whether a left or right angle provides the best performance.

Follow the severe duty schedule in your Scheduled Maintenance information for engine oil and transmission fluid change intervals.

Snowplowing with your Airbag Equipped Vehicle

WARNINGS

Do not attempt to service, repair, or modify the airbag supplemental restraint system (SRS) or its fuses. See your Ford or Lincoln Mercury dealer.

Additional equipment such as snowplow equipment may affect the performance of the airbag sensors increasing the risk of injury. Please refer to the Body Builders Layout Book for instructions about the appropriate installation of additional equipment.

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

Your vehicle is equipped with a driver and passenger airbag supplemental restraint system. The supplemental restraint system will activate in certain frontal and offset frontal collisions when the vehicle sustains sufficient longitudinal deceleration.

Careless or high speed driving while plowing snow which results in sufficient vehicle decelerations can deploy the airbag. Such driving also increases the risk of accidents.

Never remove or defeat the tripping mechanisms designed into the snow removal equipment by its manufacturer. Doing so may cause damage to the vehicle and the snow removal equipment as well as possible airbag deployment.

Engine temperature while plowing

Your engine may run at a higher temperature than normal because the attached snowplow blade will restrict airflow to the radiator:
Driving Hints

- If you are driving more than 15 miles (24 kilometers) at temperatures above freezing, angle the plow blade either full left or full right to provide maximum airflow to the radiator.
- If you are driving less than 15 miles (24 kilometers) at speeds up to 45 mph (72 km/h) in cold weather, you will not need to worry about blade position to provide maximum airflow.

Transmission operation while plowing

**WARNING**

Do not spin the wheels at over 35 mph (55 km/h). The tires may fail and injure a passenger or bystander.

- Shift transfer case to **4L** (4WD Low) when plowing in small areas at speeds below 5.0 mph (8 km/h).
- Shift transfer case to **4H** (4WD High) when plowing larger areas or light snow at higher speeds. Do not exceed 15 mph (24 km/h).
- Do not shift the transmission from a forward gear to **R** (Reverse) until the engine is at idle and the wheels have stopped.

Outside Air Temperature While Plowing

While plowing with your vehicle, the plow blade can block the sensor airflow and cause the outside air temperature reading to be inaccurate.

A Ford wiring kit is available to relocate the Outside Air Temperature sensor to the plow blade frame below the headlamp to provide accurate outside air temperature readings. See your authorized dealer for more information.
ROADSIDE ASSISTANCE

Vehicles Sold In The U.S.: Getting Roadside Assistance

To fully assist you should you have a vehicle concern, Ford Motor Company offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty. The service is available:

- 24 hours, seven days a week.
- for the coverage period listed on the Roadside Assistance Card included in your Owner’s Manual portfolio.

Roadside assistance will cover:

- a flat tire change with a good spare, if provided with the vehicle (except vehicles that have been supplied with a tire inflation kit).
- battery jump start.
- lock-out assistance (key replacement cost is the customer’s responsibility).
- fuel delivery — Independent Service Contractors, if not prohibited by state, local or municipal law, shall deliver up to 2.0 gallons (7.5 liters) of gasoline or 5.0 gallons (18.9 liters) of diesel fuel to a disabled vehicle. Fuel delivery service is limited to two no-charge occurrences within a 12-month period.
- winch out — available within 100 feet (30.5 meters) of a paved or county maintained road, no recoveries.
- towing — Ford and Lincoln eligible vehicles towed to an authorized dealer within 35 miles (56.3 kilometers) of the disablement location or to the nearest authorized dealer. If a member requests to be towed to an authorized dealer more than 35 miles (56.3 kilometers) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 miles (56.3 kilometers).

Trailers shall be covered up to $200 if the disabled eligible vehicle requires service at the nearest authorized dealer. If the trailer is disabled, but the towing vehicle is operational, the trailer does not qualify for any roadside services.

Vehicles Sold In The U.S.: Using Roadside Assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. This card is found in the owner’s information portfolio in the glove compartment.

U.S. Ford vehicle customers who require Roadside Assistance, call 1-800-241-3673.

If you need to arrange roadside assistance for yourself, Ford Motor Company will reimburse a reasonable amount for towing to the nearest dealership within 35 miles (56.3 kilometers). To obtain reimbursement information, U.S. Ford vehicle customers call 1-800-241-3673. Customers will be asked to submit their original receipts.

Vehicles Sold In Canada : Getting Roadside Assistance

Canadian customers who require roadside assistance, call 1-800-665-2006.

Vehicles Sold In Canada : Using Roadside Assistance

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 www.ford.ca.
HAZARD WARNING FLASHERS

**Note:** The hazard warning flashers will operate when the ignition is in any position or if the key is not in the ignition. If used when the engine is not running, the battery will lose charge. As a result, there may be insufficient power to restart your engine.

The hazard flasher control is located on the instrument panel by the radio. Use it when your vehicle is disabled and is creating a safety hazard for other motorists.

- Press the flasher control and all front and rear direction indicators flash.
- Press the flasher control again to turn them off.

FUEL SHUTOFF

**WARNING**

Failure to inspect and, if necessary, repair fuel leaks after a collision may increase the risk of fire and serious injury. Ford Motor Company recommends that the fuel system be inspected by an authorized dealer after any collision.

In the event of a moderate to severe collision, this vehicle is equipped with a fuel pump shut-off feature that stops the flow of fuel to the engine. Not every impact will cause a shut-off.

Should your vehicle shut off after a collision, you may restart your vehicle by doing the following:
1. Turn the ignition off.
2. Turn the ignition to crank.
3. Turn the ignition off.
4. Turn the ignition on again to re-enable the fuel pump.

JUMP-STARTING THE VEHICLE

**WARNINGS**

- The gases around the battery can explode if exposed to flames, sparks, or lit cigarettes. An explosion could result in injury or vehicle damage.
- Batteries contain sulfuric acid which can burn skin, eyes and clothing, if contacted.
- Use only an adequate-sized cable with insulated clamps.

Preparing Your Vehicle

**Note:** Do not attempt to push-start your automatic transmission vehicle. Automatic transmissions do not have push-start capability. Attempting to push-start a vehicle with an automatic transmission may cause transmission damage.

**Note:** Use only a 12-volt supply to start your vehicle.

**Note:** Do not disconnect the battery of the disabled vehicle as this could damage the vehicle’s electrical system.

Park the booster vehicle close to the hood of the disabled vehicle, making sure the two vehicles do not touch. Turn all accessories off.

Connecting the Jumper Cables

**WARNING**

- 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.
**Note:** In the illustration, the bottom vehicle represents the booster vehicle.

1. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.
2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.
3. Connect the negative (-) cable to the negative (-) terminal of the assisting battery.
4. Make the final connection of the negative (-) cable to an exposed metal part of the stalled vehicle's engine, or connect the negative (-) cable to a ground connection point if available.

**WARNING**

Do not connect the end of the second cable to the negative (-) terminal of the battery to be jumped. A spark may cause an explosion of the gases that surround the battery.

**Jump Starting**

1. Start the engine of the booster vehicle and rev the engine moderately, or press the accelerator gently to keep your engine speed between 2000 and 3000 rpms, as shown in your tachometer.
2. Start the engine of the disabled vehicle.
3. 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 jumper cable from the ground metal surface or connecting point, if available.

2. Remove the jumper cable on the negative (-) terminal of the booster vehicle's battery.

3. Remove the jumper cable from the positive (+) terminal of the booster vehicle's battery.

4. Remove the jumper cable from the positive (+) terminal of the disabled vehicle's battery.

After the disabled vehicle has been started and the jumper cables removed, allow it to idle for several minutes so the battery can recharge.

**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
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 0C8

Telephone
1-800-565-3673 (FORD)

Online
www.ford.ca

Additional Assistance

If you have questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

1. Contact your Sales Representative or Service Advisor at your selling/servicing authorized dealer.

2. If your inquiry or concern remains unresolved, contact the Sales Manager, Service Manager or Customer Relations Manager.

3. If you require assistance or clarification on Ford Motor Company policies, please contact the Ford Customer Relationship Center.
In order to help you serve you better, please have the following information available when contacting a Customer Relationship Center:

- Vehicle Identification Number.
- 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 18,000 miles (29,000 km), whichever occurs first:

1. Two or more repair attempts are made on the same non-conformity likely to cause death or serious bodily injury OR
2. Four or more repair attempts are made on the same nonconformity (a defect or condition that substantially impairs the use, value or safety of the vehicle) OR
3. The vehicle is out of service for repair of nonconformities for a total of more than 30 calendar days (not necessarily all at one time).

In the case of 1 or 2 above, the consumer must also notify the manufacturer of the need for the repair of the nonconformity at the following address:

Ford Motor Company
16800 Executive Plaza Drive
Mail Drop 3NE-B
Dearborn, MI 48126

You are required to submit your warranty dispute to BBB AUTO LINE before asserting in court any rights or remedies conferred by California Civil Code Section 1793.22(b). You are also required to use BBB AUTO LINE before exercising rights or seeking remedies created by the Federal Magnuson-Moss Warranty Act, 15 U.S.C. sec. 2301 et seq. If you choose to seek redress by pursuing rights and remedies not created by California Civil Code Section 1793.22(b) or the Magnuson-Moss Warranty Act, resort to BBB AUTO LINE is not required by those statutes.
THE BETTER BUSINESS BUREAU (BBB) AUTO LINE PROGRAM (U.S. ONLY)

Your satisfaction is important to Ford Motor Company and to your dealer. If a warranty concern has not been resolved using the three-step procedure outlined earlier in this chapter in the Getting the Services you need section, you may be eligible to participate in the BBB AUTO LINE program.

The BBB AUTO LINE program consists of two parts – mediation and arbitration. During mediation, a representative of the BBB will contact both you and Ford Motor Company to explore options for settlement of the claim. If an agreement is not reached during mediation or you do not want to participate in mediation, and if your claim is eligible, you may participate in the arbitration process. An arbitration hearing will be scheduled so that you can present your case in an informal setting before an impartial person. The arbitrator will consider the testimony provided and make a decision after the hearing.

Disputes submitted to the BBB AUTO LINE program are usually decided within forty days after you file your claim with the BBB. You are not bound by the decision, and may reject the decision and proceed to court where all findings of the BBB Auto Line dispute, and decision, are admissible in the court action. Should you choose to accept the BBB AUTO LINE decision, Ford is then bound by the decision, and must comply with the decision within 30 days of receipt of your acceptance letter.

BBB AUTO LINE Application: Using the information provided below, please call or write to request a program application. You will be asked for your name and address, general information about your new vehicle, information about your warranty concerns, and any steps you have already taken to try to resolve them. A Customer Claim Form will be mailed that will need to be completed, signed and returned to the BBB along with proof of ownership. Upon receipt, the BBB will review the claim for eligibility under the Program Summary Guidelines.

You can get more information by calling BBB AUTO LINE at 1-800-955-5100, or writing to:

BBB AUTO LINE
4200 Wilson Boulevard, Suite 800
Arlington, Virginia 22203-1833

BBB AUTO LINE applications can also be requested by calling the Ford Motor Company Customer Relationship Center at 1-800-392-3673.

Note: Ford Motor Company reserves the right to change eligibility limitations, modify procedures, or to discontinue this process at any time without notice and without obligation.

UTILIZING THE MEDIATION/ARBITRATION PROGRAM (CANADA ONLY)

For vehicles delivered to authorized Canadian dealers. In those cases where you continue to feel that the efforts by Ford of Canada and the authorized dealer to resolve a factory-related vehicle service concern have been unsatisfactory, Ford of Canada participates in an impartial third party mediation/arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The CAMVAP program is a straightforward and relatively speedy alternative to resolve a disagreement when all other efforts to produce a settlement have failed. This procedure is without cost to you and is designed to eliminate the need for lengthy and expensive legal proceedings.
In the CAMVAP program, impartial third-party arbitrators conduct hearings at mutually convenient times and places in an informal environment. These impartial arbitrators review the positions of the parties, make decisions and, when appropriate, render awards to resolve disputes. CAMVAP decisions are fast, fair, and final as the arbitrator’s award is binding on both you and Ford of Canada.

CAMVAP services are available in all Canadian territories and provinces. For more information, without charge or obligation, call your CAMVAP Provincial Administrator directly at 1-800-207-0685 or visit www.camvap.ca.

**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
FORD EXPORT OPERATIONS & GLOBAL INITIATIVES
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
FORD EXPORT OPERATIONS & GLOBAL INITIATIVES
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:
Customer Assistance

Ford Middle East
Customer Relationship Center
P.O. Box 21470
Dubai, United Arab Emirates
Telephone: +971 4 3326084
Toll-Free Number for the Kingdom of Saudi Arabia: 800 8971409
Local Telephone Number of Kuwait: 24810575
FAX: +971 4 3327299
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
Monday-Friday 8:00 a.m. - 6:00 p.m. EST

Helm, Incorporated can also be reached by their website:
www.helminc.com
(Items in this catalog may be purchased by credit card, check or money order.)

Obtaining a French Owner’s Manual

French Owner’s Manual can be obtained from your authorized dealer or by contacting Helm, Incorporated using the contact information listed previously in this section.

REPORTING SAFETY DEFECTS (U.S. ONLY)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Ford Motor Company.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ford Motor Company.
Customer Assistance

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.

<table>
<thead>
<tr>
<th>Transport Canada Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Website</td>
</tr>
<tr>
<td>Phone</td>
</tr>
</tbody>
</table>

F150 (TF6)
Fuses

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.

If electrical components in the vehicle are not working, a fuse may have blown. Blown fuses are identified by a broken wire within the fuse. Check the appropriate fuses before replacing any electrical components.

Standard Fuse Amperage Rating and Color

<table>
<thead>
<tr>
<th>Fuse rating</th>
<th>Mini fuses</th>
<th>Standard fuses</th>
<th>Maxi fuses</th>
<th>Cartridge maxi fuses</th>
<th>Fuse link cartridge</th>
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<td>-</td>
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</tr>
<tr>
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<td>Violet</td>
<td>-</td>
<td>-</td>
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<td>Orange</td>
<td>Green</td>
<td>Green</td>
</tr>
<tr>
<td>50A</td>
<td>-</td>
<td>-</td>
<td>Red</td>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td>60A</td>
<td>-</td>
<td>-</td>
<td>Blue</td>
<td>Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>70A</td>
<td>-</td>
<td>-</td>
<td>Tan</td>
<td>-</td>
<td>Brown</td>
</tr>
<tr>
<td>80A</td>
<td>-</td>
<td>-</td>
<td>Natural</td>
<td>Black</td>
<td>Black</td>
</tr>
</tbody>
</table>
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 you disconnect and reconnect the battery, you will need to reset some features. See **Changing the 12V Battery** (page 245).

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Relay</td>
<td>Powertrain control module (3.7L, 5.0L and 6.2L engines)</td>
</tr>
<tr>
<td>2</td>
<td>Relay</td>
<td>Starter</td>
</tr>
<tr>
<td>3</td>
<td>Relay</td>
<td>Blower motor</td>
</tr>
<tr>
<td>4</td>
<td>Relay</td>
<td>Rear window defroster</td>
</tr>
<tr>
<td>5</td>
<td>Relay</td>
<td>Electric fan (high speed)</td>
</tr>
<tr>
<td>6</td>
<td>Relay</td>
<td>Trailer tow park lamp</td>
</tr>
<tr>
<td>7</td>
<td>Relay</td>
<td>Run/start</td>
</tr>
</tbody>
</table>
# Fuses

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Relay</td>
<td>Fuel pump</td>
</tr>
<tr>
<td>9</td>
<td>Relay</td>
<td>Trailer tow battery charger</td>
</tr>
<tr>
<td>10</td>
<td>Relay</td>
<td>Powertrain control module (3.5L engine)</td>
</tr>
<tr>
<td>11</td>
<td>30A*</td>
<td>Power running board motors</td>
</tr>
<tr>
<td>12</td>
<td>40A*</td>
<td>Electric fan (3.7L, 5.0L)</td>
</tr>
<tr>
<td></td>
<td>50A*</td>
<td>Electric fan (3.5L, 6.2L with max trailer tow, SVT Raptor)</td>
</tr>
<tr>
<td>13</td>
<td>30A*</td>
<td>Starter relay power</td>
</tr>
<tr>
<td>14</td>
<td>30A*</td>
<td>Passenger power seat</td>
</tr>
<tr>
<td>15</td>
<td>40A*</td>
<td>Electric fan (3.7L, 5.0L)</td>
</tr>
<tr>
<td></td>
<td>50A*</td>
<td>Electric fan (3.5L, 6.2L with max trailer tow, SVT Raptor)</td>
</tr>
<tr>
<td>16</td>
<td>20A*</td>
<td>High-intensity discharge headlamp – passenger side</td>
</tr>
<tr>
<td>17</td>
<td>30A*</td>
<td>Trailer brake control</td>
</tr>
<tr>
<td>18</td>
<td>30A*</td>
<td>Auxiliary switch 1 (SVT Raptor)</td>
</tr>
<tr>
<td>19</td>
<td>30A*</td>
<td>Auxiliary switch 2 (SVT Raptor)</td>
</tr>
<tr>
<td>20</td>
<td>20A*</td>
<td>4x4 module (electronic shift)</td>
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<tr>
<td>21</td>
<td>30A*</td>
<td>Trailer tow battery charge relay power</td>
</tr>
<tr>
<td>22</td>
<td>20A*</td>
<td>Auxiliary power point (instrument panel)</td>
</tr>
<tr>
<td>23</td>
<td>Relay</td>
<td>Air conditioner clutch</td>
</tr>
<tr>
<td>24</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>25</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>26</td>
<td>10A**</td>
<td>Powertrain control module – keep alive power and relay coil, canister vent solenoid (3.7L, 5.0L and 6.2L engines)</td>
</tr>
<tr>
<td>27</td>
<td>20A**</td>
<td>Fuel pump relay power</td>
</tr>
<tr>
<td>28</td>
<td>10A**</td>
<td>Auxiliary switch 4 (SVT Raptor)</td>
</tr>
<tr>
<td>29</td>
<td>10A**</td>
<td>4x4 integrated wheel end solenoid</td>
</tr>
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## Fuses

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
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<tbody>
<tr>
<td>30</td>
<td>10A**</td>
<td>Air conditioner clutch relay power</td>
</tr>
<tr>
<td>31</td>
<td>15A**</td>
<td>Run/start relay power</td>
</tr>
<tr>
<td>32</td>
<td>40A*</td>
<td>Rear window defroster relay power, Heated mirror relay power</td>
</tr>
<tr>
<td>33</td>
<td>40A*</td>
<td>110-volt AC power point</td>
</tr>
<tr>
<td>34</td>
<td>40A*</td>
<td>Powertrain control module relay power (3.7L, 5.0L and 6.2L engines)</td>
</tr>
<tr>
<td></td>
<td>50A*</td>
<td>Powertrain control module relay power (3.5L engine)</td>
</tr>
<tr>
<td>35</td>
<td>20A*</td>
<td>High-intensity discharge headlamps – driver side</td>
</tr>
<tr>
<td>36</td>
<td>30A*</td>
<td>Roll stability control / Anti-lock brake system</td>
</tr>
<tr>
<td>37</td>
<td>Relay</td>
<td>Trailer tow left stop/turn</td>
</tr>
<tr>
<td>38</td>
<td>Relay</td>
<td>Trailer tow right stop/turn</td>
</tr>
<tr>
<td>39</td>
<td>Relay</td>
<td>Trailer tow back-up lamps</td>
</tr>
<tr>
<td>40</td>
<td>Relay</td>
<td>Electric fan</td>
</tr>
<tr>
<td>41</td>
<td>15A**</td>
<td>Front camera washer (SVT Raptor)</td>
</tr>
<tr>
<td>42</td>
<td>5A**</td>
<td>Run/start relay coil</td>
</tr>
<tr>
<td>43</td>
<td>15A**</td>
<td>Trailer tow back-up lamp relay power</td>
</tr>
<tr>
<td>44</td>
<td>15A**</td>
<td>Auxiliary switch 3 (SVT Raptor), Trailer tow power folding mirrors</td>
</tr>
<tr>
<td>45</td>
<td>10A**</td>
<td>Alternator sensor (3.5L, 3.7L and 5.0L engines)</td>
</tr>
<tr>
<td>46</td>
<td>10A**</td>
<td>Brake on/off switch</td>
</tr>
<tr>
<td>47</td>
<td>60A*</td>
<td>Roll stability control / Anti-lock brake system module</td>
</tr>
<tr>
<td>48</td>
<td>20A*</td>
<td>Moonroof</td>
</tr>
<tr>
<td>49</td>
<td>30A*</td>
<td>Wiper relay power</td>
</tr>
<tr>
<td>50</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>Fuse or relay number</td>
<td>Fuse amp rating</td>
<td>Protected components</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>51</td>
<td>40A*</td>
<td>Blower motor relay power</td>
</tr>
<tr>
<td>52</td>
<td>5A**</td>
<td>Run/start – Electronic power assist steering, Blower relay coil</td>
</tr>
<tr>
<td>53</td>
<td>5A**</td>
<td>Run/start – Powertrain control module</td>
</tr>
<tr>
<td>54</td>
<td>5A**</td>
<td>Run/start – 4x4 module, Back-up lamps, Roll stability control /Anti-lock brake system, Trailer tow battery charge relay coil, Rear window defroster relay coil, Front camera washer relay coil (SVT Raptor)</td>
</tr>
<tr>
<td>55</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>56</td>
<td>15A**</td>
<td>Heated mirrors</td>
</tr>
<tr>
<td>57</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>58</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>59</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>60</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>61</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>62</td>
<td>Relay</td>
<td>Wiper motor</td>
</tr>
<tr>
<td>63</td>
<td>25A*</td>
<td>Electric fan relay power</td>
</tr>
<tr>
<td>64</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>65</td>
<td>20A*</td>
<td>Auxiliary power point (instrument panel)</td>
</tr>
<tr>
<td>66</td>
<td>20A*</td>
<td>Auxiliary power point (inside center console)</td>
</tr>
<tr>
<td>67</td>
<td>20A*</td>
<td>Trailer tow park lamps relay power</td>
</tr>
<tr>
<td>68</td>
<td>25A*</td>
<td>4x4 module, 4x2 elocker module</td>
</tr>
<tr>
<td>69</td>
<td>30A*</td>
<td>Front heated or heated/cooled seats</td>
</tr>
<tr>
<td>70</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>71</td>
<td>20A*</td>
<td>Heated rear seats</td>
</tr>
<tr>
<td>72</td>
<td>20A*</td>
<td>Auxiliary power point (rear)</td>
</tr>
<tr>
<td>73</td>
<td>20A*</td>
<td>Trailer tow stop/turn lamps relay power</td>
</tr>
</tbody>
</table>
## Fuses

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>30A*</td>
<td>Driver power seat/memory module</td>
</tr>
<tr>
<td>75</td>
<td>15A**</td>
<td>Powertrain control module – voltage power 1 (3.7L, 5.0L, 6.2L engines)</td>
</tr>
<tr>
<td></td>
<td>25A**</td>
<td>Powertrain control module – voltage power 1 (3.5L engine)</td>
</tr>
<tr>
<td>76</td>
<td>20A**</td>
<td>Powertrain control module – Voltage power 2: General powertrain components (Mass air flow/Intake air temp sensor - 3.7L, 5.0L, 6.2L engines) (Canister vent solenoid - 3.5L engine)</td>
</tr>
<tr>
<td>77</td>
<td>10A**</td>
<td>Powertrain control module – Voltage power 3 (Emission related powertrain components, Electric fan relays coil)</td>
</tr>
<tr>
<td>78</td>
<td>15A**</td>
<td>Powertrain control module – Voltage power 4 – Ignition coils (3.5L, 3.7L, 5.0L engines)</td>
</tr>
<tr>
<td></td>
<td>20A**</td>
<td>Powertrain control module – Voltage power 4 – Ignition coils (6.2L engine)</td>
</tr>
<tr>
<td>79</td>
<td>5A**</td>
<td>Rain sensor</td>
</tr>
<tr>
<td>80</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>81</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>82</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>83</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>84</td>
<td>—</td>
<td>Not used</td>
</tr>
<tr>
<td>85</td>
<td>Relay</td>
<td>Electric fan (low speed)</td>
</tr>
</tbody>
</table>

*Cartridge fuses

**Mini fuses

### Passenger Compartment Fuse Panel

The fuse panel is in the right-hand side of the passenger footwell behind a trim panel.

To remove the trim panel, pull it toward you and swing it away from the side. To reinstall it, line up the tabs with the grooves on the panel, and then push it shut.

To remove the fuse panel cover, press in the tabs on both sides of the cover, and then pull it off.
To reinstall the fuse panel cover, place the top part of the cover on the fuse panel and push the bottom part until it latches. Gently pull on the cover to make sure it has latched properly.

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30A</td>
<td>Driver side front window</td>
</tr>
<tr>
<td>2</td>
<td>15A</td>
<td>SYNC, Display module (8 inch)</td>
</tr>
<tr>
<td>3</td>
<td>30A</td>
<td>Passenger side front window</td>
</tr>
<tr>
<td>4</td>
<td>10A</td>
<td>Interior lamps</td>
</tr>
<tr>
<td>5</td>
<td>20A</td>
<td>Memory module</td>
</tr>
<tr>
<td>6</td>
<td>5A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>7</td>
<td>7.5A</td>
<td>Power mirror switch, Memory seat module</td>
</tr>
<tr>
<td>8</td>
<td>10A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>9</td>
<td>10A</td>
<td>Radio display, GPS module, Electric finish panel module</td>
</tr>
<tr>
<td>Fuse or relay number</td>
<td>Fuse amp rating</td>
<td>Protected components</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>10</td>
<td>10A</td>
<td>Run/accessory relay</td>
</tr>
<tr>
<td>11</td>
<td>10A</td>
<td>Instrument cluster</td>
</tr>
<tr>
<td>12</td>
<td>15A</td>
<td>Interior lighting, Puddle lamps, Back-lighting, Cargo lamp</td>
</tr>
<tr>
<td>13</td>
<td>15A</td>
<td>Right turn signals/stop lamps</td>
</tr>
<tr>
<td>14</td>
<td>15A</td>
<td>Left turn signals/stop lamps</td>
</tr>
<tr>
<td>15</td>
<td>15A</td>
<td>Reverse lights, High-mounted stop lamp</td>
</tr>
<tr>
<td>16</td>
<td>10A</td>
<td>Right low-beam headlamp</td>
</tr>
<tr>
<td>17</td>
<td>10A</td>
<td>Left low-beam headlamp</td>
</tr>
<tr>
<td>18</td>
<td>10A</td>
<td>Brake-shift interlock, Keypad illumination, Powertrain control module wake-up, Passive anti-theft system</td>
</tr>
<tr>
<td>19</td>
<td>20A</td>
<td>Audio amplifier</td>
</tr>
<tr>
<td>20</td>
<td>20A</td>
<td>Power door locks</td>
</tr>
<tr>
<td>21</td>
<td>10A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>22</td>
<td>20A</td>
<td>Horn</td>
</tr>
<tr>
<td>23</td>
<td>15A</td>
<td>Steering wheel control module</td>
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<tr>
<td>24</td>
<td>15A</td>
<td>Datalink connector, Steering wheel control module</td>
</tr>
<tr>
<td>25</td>
<td>15A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>26</td>
<td>5A</td>
<td>Radio frequency module</td>
</tr>
<tr>
<td>27</td>
<td>20A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>28</td>
<td>15A</td>
<td>Ignition switch</td>
</tr>
<tr>
<td>29</td>
<td>20A</td>
<td>Radio</td>
</tr>
<tr>
<td>30</td>
<td>15A</td>
<td>Front parking lamps</td>
</tr>
<tr>
<td>31</td>
<td>5A</td>
<td>Brake on/off – Instrument panel, Engine</td>
</tr>
<tr>
<td>32</td>
<td>15A</td>
<td>Delay/accessory – moonroof, power windows, locks, Automatic dimming mirror/Compass, Trailer tow power telescope mirrors</td>
</tr>
</tbody>
</table>
### Fuses

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>10A</td>
<td>Rear heated seats</td>
</tr>
<tr>
<td>34</td>
<td>10A</td>
<td>Reverse sensing system, 4x4 switch, Rear video, Off-road indicator (SVT Raptor), Front video (SVT Raptor), Camera splice module (SVT Raptor)</td>
</tr>
<tr>
<td>35</td>
<td>5A</td>
<td>Hill descent switch (SVT Raptor)</td>
</tr>
<tr>
<td>36</td>
<td>10A</td>
<td>Restraint control module, Occupant classification system module</td>
</tr>
<tr>
<td>37</td>
<td>10A</td>
<td>Trailer brake control</td>
</tr>
<tr>
<td>38</td>
<td>10A</td>
<td>Delayed accessory – 110-volt power point, Radio</td>
</tr>
<tr>
<td>39</td>
<td>15A</td>
<td>High-beam headlamps</td>
</tr>
<tr>
<td>40</td>
<td>10A</td>
<td>Rear park lamps</td>
</tr>
<tr>
<td>41</td>
<td>7.5A</td>
<td>Passenger airbag deactivation indicator, Auxiliary switch (SVT Raptor)</td>
</tr>
<tr>
<td>42</td>
<td>5A</td>
<td>Overdrive cancel switch</td>
</tr>
<tr>
<td>43</td>
<td>10A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>44</td>
<td>10A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>45</td>
<td>5A</td>
<td>Not used (spare)</td>
</tr>
<tr>
<td>46</td>
<td>10A</td>
<td>Climate controls module</td>
</tr>
<tr>
<td>47</td>
<td>15A</td>
<td>Fog lamps, Exterior mirror turn signals</td>
</tr>
<tr>
<td>48</td>
<td>30A Circuit breaker</td>
<td>Power windows, Power sliding back window</td>
</tr>
<tr>
<td>49</td>
<td>Relay</td>
<td>Delayed accessory</td>
</tr>
</tbody>
</table>
Auxiliary relay box (SVT Raptor only)

The relay box is located in the left-hand corner of the engine compartment near the windshield.

<table>
<thead>
<tr>
<th>Fuse or relay number</th>
<th>Fuse amp rating</th>
<th>Protected components</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Relay</td>
<td>Auxiliary switch 1</td>
</tr>
<tr>
<td>2</td>
<td>Relay</td>
<td>Auxiliary switch 2</td>
</tr>
<tr>
<td>3</td>
<td>Relay</td>
<td>Auxiliary switch 3</td>
</tr>
<tr>
<td>4</td>
<td>Relay</td>
<td>Auxiliary switch 4</td>
</tr>
<tr>
<td>5</td>
<td>Relay</td>
<td>Front camera washer</td>
</tr>
<tr>
<td>6</td>
<td>—</td>
<td>Not used</td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of Ford authorized dealers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialized tools developed specifically for servicing your vehicle.

To help you service your vehicle, we provide scheduled maintenance information which makes tracking routine service easy. See Scheduled Maintenance (page 436).

If your vehicle requires professional service, your 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

1. Set the parking brake and shift to P (Park).
2. Turn off the engine and remove the key (if equipped).
3. Block the wheels.

Working with the Engine On

WARNING

To reduce the risk of vehicle damage and/or personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

1. Set the parking brake and shift to P (Park).
2. Block the wheels

OPENING AND CLOSING THE HOOD

1. Inside the vehicle, pull the hood release handle located under the left hand side of the instrument panel.
2. Go to the front of the vehicle and locate the secondary release lever. The release lever is located on the front bumper, under the grille.

3. Release the hood latch by pushing the yellow secondary release lever to your left, toward the center of the vehicle.

4. Lift the hood until the lift cylinders hold it open.

5. To close, lower the hood and make sure that the hood is closed properly and fully latched.

UNDER HOOD OVERVIEW - 3.5L ECOBOOST™

A. Windshield washer fluid reservoir
B. Battery
C. Engine oil filler cap
Maintenance

D. Engine oil dipstick
E. Brake fluid reservoir
F. Engine coolant reservoir
G. Air filter assembly
H. Power distribution box

UNDER HOOD OVERVIEW - 3.7L

A. Windshield washer fluid reservoir
B. Battery
C. Engine oil filler cap (out of view)
D. Engine oil dipstick
E. Brake fluid reservoir
F. Engine coolant reservoir

235
Maintenance

G. Air filter assembly
H. Power distribution box

UNDER HOOD OVERVIEW - 5.0L

A. Windshield washer fluid reservoir
B. Battery
C. Engine oil filler cap
D. Engine oil dipstick
E. Brake fluid reservoir
F. Engine coolant reservoir
G. Air filter assembly
H. Power distribution box
A. Windshield washer fluid reservoir
B. Engine oil dipstick
C. Brake fluid reservoir
D. Engine coolant reservoir
E. Air filter assembly
F. Power steering fluid reservoir
G. Power distribution box
H. Engine oil filler cap
I. Battery
ENGINE OIL DIPSTICK

A MIN
B MAX

6. Wipe the dipstick clean. Insert the dipstick fully, then remove it again.
   • If the oil level is between the lower and upper holes, the oil level is acceptable. DO NOT ADD OIL.
   • If the oil level is below the lower hole, add enough oil to raise the level within the lower and upper holes.
   • Oil levels above the upper hole may cause engine damage. Some oil must be removed from the engine by an authorized dealer.

7. Put the oil level dipstick back into the oil dipstick tube and ensure it is fully seated.

Adding Engine Oil

**Note:** Do not remove the filler cap when the engine is running.

**Note:** Do not remove the engine oil level dipstick 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.
Only use oils certified for gasoline engines by the American Petroleum Institute (API). An oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricants Specification Advisory Council (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

1. Check the engine oil level.
2. If the engine oil level is not within the normal range, add engine oil that meets Ford specifications. See Capacities and Specifications (page 295).
3. Remove the engine oil filler cap and use a funnel to pour the engine oil into the opening.
4. Recheck the engine oil level. Make sure the oil level is not above the normal operating range on the engine oil level dipstick.
5. Install the engine oil level dipstick and ensure it is fully seated.
6. Fully install the engine oil filler cap by turning the filler cap clockwise until three clicks are heard or until the cap is fully seated.

TRANSFER CASE FLUID CHECK

1. Clean the area around the filler plug.
2. Remove the filler plug.
3. Inspect the fluid level. The fluid level should be within 0.40 in (10mm) from the bottom of the hole.
4. Add fluid through the filler opening, fill to the bottom of the opening.

Use only fluid that meets Ford specifications. Refer to the See Capacities and Specifications (page 295).
ENGINE COOLANT CHECK

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 436).

Note: Make sure that the 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.

The coolant concentration should be maintained 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 Rotunda tool 300-ROB75240 available from your authorized dealer. Ford does not recommend the use of hydrometers or coolant test strips for measuring coolant concentrations.

Note: Automotive fluids are not interchangeable. Do not use engine coolant or 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 vehicle’s warranty does not cover this damage.

Note: During normal vehicle operation, the engine coolant may change color from orange to pink or light red. As long as the engine coolant is clear and uncontaminated, this color change does not indicate that the engine coolant has degraded, nor does it require that you drain the engine coolant, flush the system or replace the engine coolant.

WARNINGS

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.

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 vehicle’s warranty does not cover this damage.

Note: During normal vehicle operation, the engine coolant may change color from orange to pink or light red. As long as the engine coolant is clear and uncontaminated, this color change does not indicate that the engine coolant has degraded, nor does it require that you drain the engine coolant, flush the system or replace the engine coolant.

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 mix different colors or types of coolant in your vehicle. Make sure the correct coolant is used. Mixing of engine coolants may harm your engine’s cooling system. The use of an improper coolant may harm engine and cooling system components and may void the warranty. Use prediluted engine coolant meeting the Ford specification. See Capacities and Specifications (page 295).

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, you must have the cooling system drained, chemically cleaned with Motorcraft Premium Cooling System Flush, and refilled with engine coolant as soon as possible. Water alone (without engine coolant) can cause engine damage from corrosion, overheating or freezing.

Do not use alcohol, methanol, brine or any engine coolants mixed with alcohol or methanol antifreeze (coolant). Alcohol and other liquids can cause engine damage from overheating or freezing.

Do not add extra inhibitors or additives to the coolant. These can be harmful and compromise the corrosion protection of the engine coolant. Unscrew the cap slowly. Any pressure will escape as you unscrew the cap.

Add prediluted engine coolant meeting the Ford specification. See Capacities and Specifications (page 295).

Whenever you add coolant, check the coolant level in the coolant reservoir the next few times you drive the vehicle. If necessary, add enough prediluted engine coolant to bring the coolant level to the proper level.

Recycled Engine Coolant

Ford Motor Company does not recommend the use of recycled engine coolant since a Ford-approved recycling process is not yet available.

Used engine coolant should be disposed of in an appropriate manner. Follow your community’s regulations and standards for recycling and disposing of automotive fluids.

Severe Climates

If you drive in extremely cold climates:

- It may be necessary to have a Ford authorized dealer increase the coolant concentration above 50%.
- A coolant concentration of 60% will provide improved freeze point protection. Engine coolant concentrations above 60% will decrease the overheat protection characteristics of the engine coolant and may cause engine damage.

If you drive in extremely hot climates:

- It may be necessary to have a Ford authorized dealer decrease the coolant concentration to 40%.
- A coolant concentration of 40% will provide improved overheat protection. Engine coolant concentrations below 40% will decrease the corrosion/freeze protection characteristics of the engine coolant and may cause engine damage.

Vehicles driven year-round in non-extreme climates should use prediluted engine coolant for optimum cooling system and engine protection.
What You Should Know About Fail-Safe Cooling

If you deplete the engine coolant supply, this feature allows you to temporarily drive your vehicle before you incur incremental component damage. The “fail-safe” distance depends on ambient temperatures, vehicle load and terrain.

How Fail-Safe Cooling Works

If the engine begins to overheat, the engine coolant temperature gauge will move to the red (hot) area and:

- the coolant temperature warning light will illuminate
- the service engine soon indicator will illuminate.

If the engine reaches a preset over-temperature condition, the engine will automatically switch to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

When this occurs the vehicle will still operate. However:

- the engine power will be limited
- this will disable the air conditioning system.

Continued operation will increase the engine temperature and the engine will completely shut down, causing steering and braking effort to increase.

Once the engine temperature cools, the engine can be re-started. Take your vehicle to an authorized dealer as soon as possible to minimize engine damage.

When Fail-Safe Mode Is Activated

**WARNINGS**

- Fail-safe mode is for use during emergencies only. Operate the vehicle in fail-safe mode only as long as necessary to bring the vehicle to rest in a safe location and seek immediate repairs. When in fail-safe mode, the vehicle will have limited power, will not be able to maintain high-speed operation, and may completely shut down without warning, potentially losing engine power, power steering assist, and power brake assist, which may increase the possibility of a crash resulting in serious injury.

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

You have limited engine power when in the fail-safe mode, so drive the vehicle with caution. The vehicle will not be able to maintain high-speed operation and the engine will run rough. Remember that the engine is capable of completely shutting down automatically to prevent engine damage, therefore:

1. Pull off the road as soon as safely possible and turn off the engine.
2. Have your vehicle towed to an authorized dealer.
3. If this is not possible, wait a short period for the engine to cool.
4. Check the coolant level and replenish if low.
5. Re-start the engine and take your vehicle to an authorized dealer.

**Note:** Driving the vehicle without repairing the engine problem increases the chance of engine damage. Take your vehicle to an authorized dealer as soon as possible.
Engine Fluid Temperature Management (If Equipped)

**WARNING**

To reduce the risk of collision and injury, be prepared that the vehicle speed may reduce and the vehicle may not be able to accelerate with full power until the fluid temperatures reduce.

The design of your vehicle makes it possible to pull a trailer, but because of the added load, the vehicle’s engine may temporarily reach higher temperatures during severe operating conditions such as ascending a long or steep grade while pulling a trailer in hot ambient temperatures.

At this time, you may notice your engine coolant temperature gauge needle move toward the **H** and the **POWER REDUCED TO LOWER TEMP** message may appear in the information display.

You may notice a reduction in vehicle speed caused by reduced engine power. The design of your vehicle allows it to enter this mode if certain high-temperature and high-load conditions take place in order to manage the engine fluid temperatures. The amount of speed reduction will depend on the vehicle loading, towing, grade, ambient temperature and other factors. If this occurs, there is no need to pull off the road. You can continue to drive your vehicle while this message is active.

The air conditioning may also cycle on and off during severe operating conditions to protect overheating of the engine. When the engine coolant temperature decreases to a more normal operating temperature, the air conditioning will turn on once again. If you notice any of the following:

- the engine coolant temperature gauge moves fully into the red (hot) area
- the coolant temperature warning light illuminates
- the service engine soon indicator illuminates.

**WARNING**

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

1. Pull off the road as soon as safely possible and place the vehicle in **P** (Park).
2. Leave the engine running until the coolant temperature gauge needle moves away from the **H** range. After several minutes, if this does not happen, follow the remaining steps.
3. Turn the engine off and wait for it to cool before checking the coolant level.
4. If the coolant level is normal, you may restart your engine and continue on.
5. If the coolant is low, add coolant, restart the engine and take your vehicle to an authorized dealer. See Adding Engine Coolant in this chapter for more information. Refer to How Fail-Safe Cooling Works for additional information.

**AUTOMATIC TRANSMISSION FLUID CHECK**

**Note:** Transmission fluid should be checked by an authorized dealer. If required, fluid should be added by an authorized dealer.

The automatic transmission does not have a transmission fluid dipstick.
Refer to your scheduled maintenance information for scheduled intervals for fluid checks and changes. Your transmission does not consume fluid. However, the fluid level should be checked if the transmission is not working properly, (i.e., if the transmission slips or shifts slowly) or if you notice some sign of fluid leakage.

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.

**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 Capabilities and Specifications (page 295).

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.

**POWER STEERING FLUID CHECK**

**3.5L, 3.7L and 5.0L Engines**

Your vehicle is equipped with an electric power steering (EPS) system. There is no fluid reservoir to check or fill.

**6.2L Engines**

Check the power steering fluid. Refer to See Scheduled Maintenance (page 436).

1. Start the engine and let it run until it reaches normal operating temperature (the engine coolant temperature gauge indicator will be near the center of the normal area between H and C).
2. While the engine idles, turn the steering wheel left and right several times.
3. Turn the engine off.
4. Check the fluid level in the reservoir. It should be between the MIN and MAX lines. Do not add fluid if the level is in this range.
5. If the fluid is low, add fluid in small amounts, continuously checking the level until it reaches the range between the MIN and MAX lines. For the proper fluid type, see Capabilities and Specifications (page 295).
6. Put the cap back on the reservoir.
**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 that can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide proper ventilation.

- This vehicle may be equipped with more than one battery, removal of cable from only one battery does not disconnect your vehicle electrical system. Be sure to disconnect cables from all batteries when disconnecting power. Failure to do so may cause serious personal injury or property damage.

- 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 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.

**Note:** If your battery has a cover/shield, make sure it is reinstalled after the battery has been cleaned or replaced.

**Note:** Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

**Note:** Electrical or electronic accessories or components added to your vehicle by the dealer or the owner may adversely affect battery performance and durability.

Your vehicle is equipped with a Motorcraft maintenance-free battery which normally does not require additional water during its life of service.

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.

It is recommended that the negative battery cable terminal be disconnected from the battery if you plan to store your vehicle for an extended period of time.

Because your vehicle’s engine is electronically controlled by a computer, some control conditions are maintained by power from the battery. When the battery is disconnected or a new battery is installed, the engine must relearn its idle and fuel trim strategy for optimum driveability and performance. Flexible fuel vehicles (FFV) must also relearn the ethanol content of the fuel for optimum driveability and performance. To begin this process:

1. With your vehicle at a complete stop, set the parking brake.
2. Put the gearshift in **P** (Park), turn off all accessories.
3. Start the engine. Run the engine until it reaches normal operating temperature.
4. Allow the engine to idle for at least one minute.
5. Turn the air conditioning on and allow the engine to idle for at least one minute.
6. Release the parking brake. With your foot on the brake pedal and with the air conditioning on, put your vehicle in D (Drive) and allow the engine to idle for at least one minute.
   - If you do not allow the engine to relearn its idle trim, the idle quality of your vehicle may be adversely affected until the idle trim is eventually relearned.
7. Drive your vehicle to complete the relearning process
   - Your vehicle may need to be driven 10 miles (16 kilometers) or more to relearn the idle and fuel trim strategy along with the ethanol content for flexible fuel vehicles.
   - For flexible fuel vehicles, if you are operating on E85, you may experience poor starts or an inability to start the engine and driveability problems until the fuel trim and ethanol content have been relearned.

If the battery has been disconnected or a new battery has been installed, the clock and radio settings must be reset once the battery is reconnected.

**Always dispose of automotive batteries in a responsible manner. Follow your local authorized standards for disposal. Call your local authorized recycling center to find out more about recycling automotive batteries.**

**Battery Management System (If Equipped)**

The battery management system (BMS) monitors battery conditions and takes actions to extend battery life. If excessive battery drain is detected, the system may temporarily disable certain electrical features to protect the battery. Those electrical accessories affected include the rear defrost, heated/cooled seats, climate control fan, heated steering wheel, audio and navigation system. A message may be shown in the information displays to alert the driver that battery protection actions are active. These messages are only for notification that an action is taking place, and not intended to indicate an electrical problem or that the battery requires replacement.

**Electrical accessory installation**

To ensure proper operation of the Battery Management System, any electrical devices that are added to your vehicle should not have their ground connection made directly at the negative battery post. A connection at the negative battery post can cause inaccurate measurements of the battery condition and potential incorrect system operation.

**Note:** Electrical or electronic accessories added to your vehicle by the dealer or the owner, may adversely affect battery performance and durability, and may affect the performance of other electrical systems in your vehicle.

When a battery replacement is required, the battery should only be replaced with a Ford-recommended replacement battery that matches the electrical requirements of your vehicle. After battery replacement, or in some cases after charging the battery with the external charger, the Battery Management System requires eight hours...
of vehicle sleep time (key off with doors closed) to relearn the new battery state of charge. Prior to relearning the state of charge, the Battery Management System may disable electrical features (to protect the battery) earlier than normal.

**CHANGING THE ENGINE AIR FILTER - 3.5L ECOBOOST™**

**WARNING**

⚠️ To reduce the risk of vehicle damage and personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

*Note:* Failure to use the correct air filter element may result in severe engine damage. The customer warranty may be void for any damage to the engine if the correct air filter element is not used.

*Note:* 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.

When changing the air filter element, use only the air filter element listed. See **Capacities and Specifications** (page 295).

Change the air filter element at the proper interval. See **Scheduled Maintenance** (page 436).

1. Locate the sensor electrical connector on the air outlet tube (1). This connector will need to be unplugged.
2. Pull up to disconnect wiring harness (2).
3. Disconnect the sensor by pressing the retaining tab and pulling back on the lead.
4. Clean the area around the air tube to air cover connection to prevent debris from entering the system, and then loosen the bolt on the air tube clamp so the clamp is no longer snug to the air tube. It is not necessary to completely remove the clamp.
5. Pull the air tube off from the air cleaner housing.
6. Release the clamps that secure the cover to the air filter housing. Push the air filter cover toward the center of the vehicle and up slightly to release it.
7. Remove the air filter element from the air filter housing.
8. Install a new air filter element.
9. Replace the air filter housing cover and secure the clamps. Be careful not to crimp the filter element edges between the air filter housing and cover and ensure that the tabs on the edge are properly aligned into the slots.
10. Slip the air tube onto the air filter housing and tighten the air-tube clamp bolt snugly, but do not overtighten it.
11. Reconnect the sensor electrical connector to the outlet tube.
12. Push the wiring harness back in place.

**CHANGING THE ENGINE AIR FILTER - 3.7L/5.0L/6.2L**

**WARNING**

To reduce the risk of vehicle damage and personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

**Note:** Failure to use the correct air filter element may result in severe engine damage. The customer warranty may be void for any damage to the engine if the correct air filter element is not used.

**Note:** 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.

When changing the air filter element, use only the air filter element listed. See **Capacities and Specifications** (page 295).

1. Locate the mass air flow sensor electrical connector on the air outlet tube. Disconnect the Mass Air Flow (MAF) sensor electrical connector.
2. Reposition the locking clip on the connector (connector shown from below for clarity), squeeze the connector and pull it off of the air outlet tube.
3. Clean the area around the air tube to air cover connection to prevent debris from entering the system and then loosen the bolt on the air tube clamp so the clamp is no longer snug to the air tube. It is not necessary to completely remove the clamp.

4. Pull the air tube off from the air cleaner housing.

5. Release the three clamps that secure the cover to the air filter housing. Push the air filter cover toward the center of the vehicle and up slightly to release it.

6. Remove the air filter element from the air filter housing.

7. Install a new air filter element.

8. Replace the air filter housing cover and secure the clamps. Be careful not to crimp the filter element edges between the air filter housing and cover and ensure that the tabs on the edge are properly aligned into the slots.

9. Slip the air tube onto the air filter housing and tighten the air-tube clamp bolt snugly, but do not overtighten it.

10. Reconnect the mass air flow sensor electrical connector to the outlet tube. Make sure the locking tab on the connector is in the “locked” position (connector shown from below for clarity).
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

You can manually move the wiper arms 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. Release the wiper blade lock (A) and separate the wiper blade from the wiper arm.

3. Install in the reverse order.

Note: Make sure that the wiper blade locks into place. Lower the wiper arm and blade back on the windshield. The wiper arms will automatically return to their normal position when you turn the ignition on.

- Replace wiper blades at least once per year for optimum performance.
- You can improve poor wiper quality 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, have the alignment of your headlamps 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

1. 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 from the center of your headlamp (indicated by a 3.0 millimeter circle on the lens) to the ground and mark an 8 foot (2.4 meter) horizontal reference line on the vertical wall or screen at this height (a piece of masking tape works well).

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. Cover one of the headlamps so no light hits the wall.

4. For vehicles with halogen headlamps: on the wall or screen you will observe a light pattern with a distinct horizontal edge toward the right. If this edge is not at the horizontal reference line, you will need to adjust the beam so the edge is at the same height as the horizontal reference line.

5. Locate the vertical adjuster on each headlamp. Use a #2 Phillips screwdriver to turn the adjuster either counterclockwise or clockwise in order to adjust the vertical aim of the headlamp.
6. **For vehicles with HID headlamps:** there is a distinct cut-off (change from light to dark) in the left portion of the beam pattern. Position the top edge of this cut-off 2 inches (5 centimeters) below the horizontal reference line.

7. Locate the vertical adjuster on each headlamp. Use a Phillips #2 screwdriver to turn the adjuster either clockwise or counterclockwise to adjust the vertical aim of the headlamp. The horizontal edge of the brighter light should touch the horizontal reference line.

8. Repeat Steps 3 through 7 to adjust the other headlamp.

9. Close the hood and turn off the lamps.

**Horizontal Aim Adjustment**

Horizontal aim is not required for this vehicle and is not adjustable.

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**REMOVING A HEADLAMP**

**WARNING**

Handle a halogen headlamp bulb carefully and keep out of children's reach. Grasp the bulb only by its plastic base and do not touch the glass. The oil from your hand could cause the bulb to break the next time the headlamps are operated.

**Note:** If the bulb is accidentally touched, clean it with rubbing alcohol before installing it.

**Note:** This procedure is for replacing the headlamps, park lamps, turn lamps or side marker lamps.

**Replacing Halogen Headlamp Bulbs (If Equipped)**

1. Make sure the headlamp control is in the off position and open the hood.

2. Remove the pushpin that holds the air deflector or protective cover to the upper inboard corner of the lamp.
3. Loosen the three retaining bolts (two at the top of the lamp, one at the lower inboard corner).

4. Once the three retaining bolts are removed, slide the headlamp assembly forward, disconnecting the two snap attachments at the fender.

5. Disconnect the electrical connector from the bulb by pulling rearward.

6. Remove the bulb and socket by turning it counterclockwise, then pull it straight out.

7. For the park lamp, turn lamp or side marker lamp bulbs, disconnect the electrical connector from the bulb by pulling rearward, then remove the bulb by turning it counterclockwise and pulling it straight out.

8. Install the new bulb(s) in reverse order.

Replacing HID Headlamp Bulbs (If Equipped)

The low beam headlamps on your vehicle use a **high intensity discharge** source. These lamps operate at a high voltage. When you have a burned out bulb, you must have the bulb and starter capsule assembly replaced by an authorized dealer.

CHANGING A BULB

Lamp Assembly Condensation

Exterior lamps are vented to accommodate normal changes in pressure. Condensation can be a natural by-product of this design. When moist air enters the lamp assembly through the vents, there is a possibility that condensation can occur when the temperature is cold. When normal condensation occurs, a thin film of mist can form on the interior of the lens. The thin mist eventually clears and exits through the vents during normal operation. Clearing time may take as long as 48 hours under dry weather conditions.
Examples of acceptable condensation are:

- Presence of thin mist (no streaks, drip marks or droplets).
- Fine mist covers less than 50% of the lens.

Examples of unacceptable moisture (usually caused by a lamp water leak) are:

- Water puddle inside the lamp.
- Large water droplets, drip marks or streaks present on the interior of the lens.

Take your vehicle to a dealer for service if any of the above conditions of unacceptable moisture are present.

**Replacing Fog Lamp Bulbs (If Equipped)**

1. Make sure the headlamps are off.
2. Disconnect the electrical connector from the fog lamp bulb.
3. Turn the bulb counterclockwise and remove it from the fog lamp.
4. Install the new bulb in reverse order.

**Replacing Brake/Tail/Turn/Reverse Lamp Bulbs**

1. Make sure the headlamps are off.
2. Open the tailgate to access the tail lamp assemblies
3. Remove the two bolts from the tail lamp assembly. Then, carefully pull the lamp assembly from the tailgate pillar by releasing the two retaining tabs.
4. Disconnect the electrical connector from the bulb.
5. Rotate the bulb socket counterclockwise and remove it from the tail lamp assembly.
6. Install the new bulb in reverse order.

**Replacing Cargo Lamp and High-mount Brake Lamp Bulbs**

1. Make sure the headlamps are off.
2. Remove the two screws and move the lamp assembly away from the vehicle to expose the bulb sockets.
3. Disconnect the electrical connector from the bulb.
4. Remove the bulb socket by rotating it counterclockwise and pulling it out of the lamp assembly.
5. Pull the bulb straight out of the socket.
6. Install the new bulb in reverse order.

Replacing the License Plate Lamp Bulb

**Note:** The license plate bulbs are located behind the rear bumper.

1. Reach behind the rear bumper to locate the bulb.
2. Twist the bulb socket counterclockwise and carefully pull to remove it from the lamp assembly.
3. Pull the bulb straight out of the socket.
4. Install the new bulb in reverse order.

**Replacing exterior mounted mirror turn signal indicator lamp bulbs**

For bulb replacement, see your authorized dealer.

**BULB SPECIFICATION CHART**

Replacement bulbs are specified in the chart below. Headlamp bulbs must be marked with an authorized “D.O.T.” for North America and an “E” for Europe to ensure lamp performance, light brightness and pattern and safe visibility. The correct bulbs will not damage the lamp assembly or void the lamp assembly warranty and will provide quality bulb illumination time.
## Maintenance

<table>
<thead>
<tr>
<th>Function</th>
<th>Number of Bulbs</th>
<th>Trade name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headlamps, halogen, high beam/low beam (if equipped)</td>
<td>2</td>
<td>H13/9008</td>
</tr>
<tr>
<td>Headlamps, high intensity discharge (HID) (if equipped)</td>
<td>2</td>
<td>D3S</td>
</tr>
<tr>
<td>High-mount brake lamp</td>
<td>1</td>
<td>912</td>
</tr>
<tr>
<td>Front Park/Turn lamps</td>
<td>2</td>
<td>3157NAK LCP (natural amber)</td>
</tr>
<tr>
<td>Front side marker</td>
<td>2</td>
<td>168</td>
</tr>
<tr>
<td>Front row map lamps</td>
<td>2</td>
<td>W5W</td>
</tr>
<tr>
<td>Fog lamp</td>
<td>2</td>
<td>9140</td>
</tr>
<tr>
<td>Backup lamp</td>
<td>2</td>
<td>921</td>
</tr>
<tr>
<td>Rear dome/courtesy lamps</td>
<td>3</td>
<td>578</td>
</tr>
<tr>
<td>Rear/stop/turn/side marker</td>
<td>4</td>
<td>3057K LCP</td>
</tr>
<tr>
<td>License plate lamp</td>
<td>2</td>
<td>194</td>
</tr>
<tr>
<td>High mount cargo box lamps</td>
<td>2</td>
<td>912</td>
</tr>
<tr>
<td>Exterior mounted mirror turn signal indicator (if equipped)*</td>
<td>2</td>
<td>LED</td>
</tr>
<tr>
<td>Puddle lamp (if equipped)*</td>
<td>2</td>
<td>LED</td>
</tr>
</tbody>
</table>

To replace all instrument panel lights - see your authorized dealer

- See your authorized dealer to replace the bulb.
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-B1)
- Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54)
- Motorcraft Spot and Stain Remover (U.S. only) (ZC-14)
- Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23)
- Motorcraft Wheel and Tire Cleaner (ZC-37-A)

REPAIRING MINOR PAINT DAMAGE

Your authorized dealer has touch-up paint to match your vehicle’s color. Take your color code (printed on a sticker in the driver’s door jamb) to your authorized dealer to ensure you get the correct color.

- Remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout before repairing paint chips.
- Always read the instructions before using the products.

CLEANING THE ALLOY WHEELS (IF EQUIPPED)

**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:
Vehicle Care

- 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.

**CLEANING THE EXTERIOR**

Wash your vehicle regularly with cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash.

- Never use strong household detergents or soap, such as dish washing or laundry liquid. These products can discolor and spot painted surfaces.
- Never wash a vehicle that is “hot to the touch” or during exposure to strong, direct sunlight.
- Dry your vehicle with a chamois or soft terry cloth towel in order to eliminate water spotting.
- Immediately remove items such as gasoline, diesel fuel, bird droppings and insect deposits because they can cause damage to your vehicle’s paintwork and trim over time. Use Motorcraft Bug and Tar Remover.
- Remove any exterior accessories, such as antennas, before entering a car wash.

**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 cause damage to the film and cause the edge of the film to peel away from the vehicle surface.

**Exterior Chrome**

*Note:* Never use abrasive materials such as steel wool or plastic pads as they can scratch the chrome surface.

*Note:* Do not use chrome cleaner, metal cleaner or polish on wheels and wheel covers

- Wash your vehicle first, using cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash.
- Use Motorcraft Custom Bright Metal Cleaner. Apply the product as you would a wax to clean bumpers and other chrome parts; allow the cleaner to dry for a few minutes, then wipe off the haze with a clean, dry rag.
- Do not apply cleaning product to hot surfaces and do not leave cleaning product on chrome surfaces longer than the time recommended.
- Using other non-recommended cleaners can result in severe and permanent cosmetic damage.

**Underbody**

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

**Cleaning Plastic Exterior Parts**

Use only approved products to clean plastic parts

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"Note: Suntan lotions and insect repellents can damage any painted surface; if these substances come in contact with your vehicle, wash off as soon as possible."
For routine cleaning, use Motorcraft Detail Wash.

If tar or grease spots are present, use Motorcraft Bug and Tar Remover.

**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.

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.

**CLEANING THE ENGINE**

Engines are more efficient when they are clean because grease and dirt buildup keep the engine warmer than normal.
Vehicle Care

To clean the windshield and wiper blades:

- Clean the windshield with a non-abrasive glass cleaner.
- 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 fluid.

**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**

<table>
<thead>
<tr>
<th><strong>WARNINGS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not use cleaning solvents, bleach or dye on the vehicle’s safety belts, as these actions may weaken the belt webbing.</td>
</tr>
</tbody>
</table>

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th><strong>WARNING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.</td>
</tr>
</tbody>
</table>

Clean the instrument panel and cluster lens with a clean, damp, white cotton cloth, then use a clean and dry white cotton cloth to dry these areas.

- Avoid cleaners or polishes that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect you from undesirable windshield reflection.
- Be certain to wash or wipe your hands clean if you have been in contact with certain products such as insect repellent and suntan lotion in order to avoid possible damage to the interior painted surfaces.
Do not use household or glass cleaners as these may damage the finish of the instrument panel, interior trim and cluster lens.

Do not allow air fresheners and hand sanitizers to spill onto interior surfaces. If a spill occurs, wipe off immediately. Damage may not be covered by your warranty.

If a staining liquid like coffee or juice has been spilled on the instrument panel or on interior trim surfaces, clean as follows:

1. Wipe up spilled liquid using a clean, white, cotton cloth.
2. Wipe the surface with a damp, clean, white cotton cloth. For more thorough cleaning, use a mild soap and water solution. If the spot cannot be completely cleaned by this method, the area may be cleaned using a commercially available cleaning product designed for automotive interiors.
3. If necessary, apply more soap and water solution or cleaning product to a clean, white, cotton cloth and press the cloth onto the soiled area. Allow this to set at room temperature for 30 minutes.
4. Remove the soaked cloth and if it is not soiled badly, use this cloth to clean the area by using a rubbing motion for 60 seconds.
5. Following this, wipe area dry with a clean, white, cotton cloth.

CLEANING LEATHER SEATS (IF EQUIPPED)

WITHOUT THE KING RANCH EDITION

For routine cleaning, wipe the surface with a soft, damp cloth. For more thorough cleaning, wipe the surface with a mild soap and water solution. Dry the area with a soft cloth.

If you cannot completely clean the leather using a mild soap and water solution, you can try a commercially available leather cleaning product designed for automotive interiors.

**Note:** To check for compatibility, first test any cleaner or stain remover on an inconspicuous part of the leather.

You should:

- remove dust and loose dirt with a vacuum cleaner
- clean spills and stains as quickly as possible
- Check for compatibility, first test any cleaner or stain remover on an inconspicuous part of the leather.

Do not use the following products as these may damage the leather:

- oil/petroleum-based leather conditioners
- household cleaners
- alcohol solutions
- solvents or cleaners intended specifically for rubber, vinyl and plastics.
WITH THE KING RANCH EDITION

Your vehicle is equipped with seating covered in premium, top-grain leather which is extremely durable, but still requires special care and maintenance in order to preserve longevity and comfort. Regular cleaning and conditioning will maintain the appearance of the leather.

Cleaning

For dirt, use a vacuum cleaner then use a clean, damp cloth or soft brush.

For routine cleaning, wipe the surface with a soft, damp cloth. For more thorough cleaning, wipe the surface with a mild soap and water solution.

- Clean spills as quickly as possible.
- Test any cleaner or stain remover on an inconspicuous part of the leather as cleaners may darken the leather.
- Do not spill coffee, ketchup, mustard, orange juice or oil-based products on the leather as they may permanently stain the leather.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl or plastics.

Scratches

Natural Markings - Because the leather in the seat comes from genuine steer hides, there will be evidence of naturally occurring markings, such as small scars. These markings give character to the seating covers and considered to be proof of a genuine leather product.

In order to lessen the appearance of certain scratches and other wear marks, apply conditioner on the affected area following the same instructions as in the Conditioning section.

Conditioning

Bottles of King Ranch Leather Conditioner are available at the King Ranch Saddle Shop. Visit the website at www.krsaddleshop.com, or telephone (in the United States) 1–800–282–KING (5464). If you are unable to obtain King Ranch Leather Conditioner, use another premium leather conditioner.

- Clean the surfaces using the steps outlined in the Cleaning section.
- Make sure the leather is dry then apply a nickel-sized amount of conditioner to a clean, dry cloth.
- Rub the conditioner into the leather until it disappears. Allow the conditioner to dry, then repeat the process for the entire interior. If a film appears, wipe it off with a dry, clean cloth.

VEHICLE STORAGE

If you plan on storing your vehicle for an extended period of time (30 days or more), read the following maintenance recommendations to make sure your vehicle stays in good operating condition.

All motor vehicles and their components were engineered and tested for reliable, regular driving. Long term storage under various conditions may lead to component degradation or failure unless specific precautions are taken to preserve the components.

General

- Store all vehicles in a dry, ventilated place.
- Protect from sunlight, if possible.
- If vehicles are stored outside, they require regular maintenance to protect against rust and damage.
Body

- Wash your vehicle thoroughly to remove dirt, grease, oil, tar or mud from exterior surfaces, rear-wheel housing and underside of front fenders.
- Periodically wash your vehicle 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 your vehicle is washed.
- Lubricate all hood, door and trunk lid hinges, and latches with a light grade oil.
- Cover interior trim to prevent fading.
- Keep all rubber parts free from oil and solvents.

Engine

- The engine oil and filter should be changed prior to storage, as used engine oil contain contaminates that may cause engine damage.
- Start the engine every 15 days. Run at fast idle until it reaches normal operating temperature.
- With your foot on the brake, shift through all the gears while the engine is running.

Fuel system

- Fill the fuel tank with high-quality fuel until the first automatic shutoff of the fuel pump nozzle.

Cooling system

- Protect against freezing temperatures.
- When removing your vehicle from storage, check coolant fluid level. Confirm there are no cooling system leaks, and fluid is at the recommended level.

Battery

- Check and recharge as necessary. Keep connections clean.
- If storing your vehicle for more than 30 days without recharging the battery, it may be advisable to disconnect the battery cables to ensure battery charge is maintained for quick starting.

Note: If battery cables are disconnected, it will be necessary to reset memory features.

Brakes

- Make sure brakes and parking brake are fully released.

Tires

- Maintain recommended air pressure.

Miscellaneous

- Make sure all linkages, cables, levers and pins under your vehicle are covered with grease to prevent rust.
- Move vehicles at least 25 feet (8 meters) every 15 days to lubricate working parts and prevent corrosion.

Removing Vehicle From Storage

When your vehicle is ready to come out of storage, do the following:
- Wash your vehicle to remove any dirt or grease film build-up on window surfaces.
- Check windshield wipers for any deterioration.
Vehicle Care

- Check under the hood for any foreign material that may have collected during storage (mice/squirrel nests).
- Check the exhaust for any foreign material that may have collected during storage.
- Check tire pressures and set tire inflation per the Tire Label.
- Check brake pedal operation. Drive your vehicle 15 feet (4.5 meters) back and forth to remove rust build-up.
- Check fluid levels (including coolant, oil and gas) to make sure there are no leaks, and fluids are at recommended levels.
- If the battery was removed, clean the battery cable ends and inspect.

Contact your authorized dealer if you have any concerns or issues.
Wheels and Tires

GENERAL INFORMATION

Notice to Owners About High Performance Tires

Note: Your vehicle is equipped with high performance tires. When first driving the vehicle after it has been parked for a period of time, you may experience a temporary ride disturbance. This is a characteristic of the tires and should be no reason for concern. The condition should correct itself within 5-15 miles (8-25 kilometers) of driving. If the disturbance persists, have the tires serviced by an authorized dealer.

Notice to utility vehicle and truck owners

WARNINGS

Utility vehicles have a significantly higher rollover rate than other types of vehicles. To reduce the risk of serious injury or death from a rollover or other crash you must avoid sharp turns and abrupt maneuvers, drive at safe speeds for the conditions, keep tires properly inflated, never overload or improperly load your vehicle, and make sure every passenger is properly restrained.

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. All occupants must wear seat belts, and children and infants must use appropriate restraints to minimize the risk of injury or ejection.

Do not become overconfident in the ability of four-wheel drive vehicles. Although a four-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in low traction situations, it won’t stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

Utility vehicles and trucks handle differently than passenger cars in the various driving conditions that are encountered on streets, highways and off-road. Utility vehicles and trucks are not designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions.

Study your owner's manual and any supplements for specific information about equipment features, instructions for safe driving and additional precautions to reduce the risk of an accident or serious injury.

Four-wheel drive system (if equipped)

WARNING

Do not become overconfident in the ability of four-wheel drive vehicles. Although a four-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in low traction situations, it won’t stop any faster than two-wheel drive vehicles. Always drive at a safe speed.
A vehicle equipped with four-wheel drive (when selected) has the ability to use all four wheels to power itself. This increases traction which may enable you to safely drive over terrain and road conditions that a conventional two-wheel drive vehicle cannot.

On some four-wheel drive models, the initial shift from two-wheel drive to four-wheel drive while the vehicle is moving can cause a momentary clunk and ratcheting sound. These sounds are normal as the front drivetrain comes up to speed and are not cause for concern.

**How your vehicle differs from other vehicles**

Sport utility vehicles and trucks can differ from some other vehicles in a few noticeable ways. Your vehicle may be:

- Higher - to allow higher load carrying capacity and to allow it to travel over rough terrain without getting hung up or damaging underbody components.
- Shorter - to give it the capability to approach inclines and drive over the crest of a hill without getting hung up or damaging underbody components. All other things held equal, a shorter wheelbase may make your vehicle quicker to respond to steering inputs than a vehicle with a longer wheelbase.
- Narrower - to provide greater maneuverability in tight spaces, particularly in off-road use.
As a result of the above dimensional differences, Sport utility vehicles and trucks often will have a higher center of gravity and a greater difference in center of gravity between the loaded and unloaded condition. These differences that make your vehicle so versatile also make it handle differently than an ordinary passenger car.

TIRE CARE

Information About Uniform Tire Quality Grading

Tire Quality Grades apply to new pneumatic passenger car tires. They do not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, light truck or LT type tires, tires with nominal rim diameters of 10 to 12 inches or limited production tires as defined in Title 49 Code of Federal Regulations Part 575.104 (c)(2).

U.S. Department of Transportation Tire quality grades: The U.S. Department of Transportation requires Ford Motor Company to give you the following information about tire grades exactly as the government has written it.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (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.
Wheels and Tires

**Traction AA A B C**

**WARNING**

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning or peak traction characteristics.

The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire’s ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

**Temperature A B C**

**WARNING**

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

The temperature grades are A (the highest), B and C, representing the tire’s resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 139. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

**Glossary of Tire Terminology**

*Tire label:* A label showing the original equipment tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.

*Tire Identification Number (TIN):* A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.

*Inflation pressure:* A measure of the amount of air in a tire.

*Standard load:* A class of P-metric or Metric tires designed to carry a maximum load at 35 psi [37 psi (2.5 bar) for Metric tires]. Increasing the inflation pressure beyond this pressure will not increase the tire’s load carrying capability.
**Wheels and Tires**

*Extra load:* A class of P-metric or Metric tires designed to carry a heavier maximum load at 41 psi [43 psi (2.9 bar) for Metric tires]. Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.

*kPa:* Kilopascal, a metric unit of air pressure.

*PSI:* Pounds per square inch, a standard unit of air pressure.

*Cold 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.
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.
Wheels and Tires

Note: You may not find this information on all tires because it is not required by federal law.

<table>
<thead>
<tr>
<th>Letter rating</th>
<th>mph (km/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>81 mph (130 km/h)</td>
</tr>
<tr>
<td>N</td>
<td>87 mph (140 km/h)</td>
</tr>
<tr>
<td>Q</td>
<td>99 mph (159 km/h)</td>
</tr>
<tr>
<td>R</td>
<td>106 mph (171 km/h)</td>
</tr>
<tr>
<td>S</td>
<td>112 mph (180 km/h)</td>
</tr>
<tr>
<td>T</td>
<td>118 mph (190 km/h)</td>
</tr>
<tr>
<td>U</td>
<td>124 mph (200 km/h)</td>
</tr>
<tr>
<td>H</td>
<td>130 mph (210 km/h)</td>
</tr>
<tr>
<td>V</td>
<td>149 mph (240 km/h)</td>
</tr>
<tr>
<td>W</td>
<td>168 mph (270 km/h)</td>
</tr>
<tr>
<td>Y</td>
<td>186 mph (299 km/h)</td>
</tr>
</tbody>
</table>

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: 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. (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.

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 1½ times as well on the government course as a tire graded 100.

*Traction:* The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

*Temperature:* The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

**M. Maximum 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 located on the B-pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load or radial tubeless.

**Additional Information Contained on the Tire Sidewall for LT Type Tires**

**Note:** *Tire Quality Grades do not apply to this type of tire.*

LT type tires have some additional information beyond those of P type tires. These differences are described below.
Wheels and Tires

A. **LT:** Indicates a tire, designated by the Tire and Rim Association, that is intended for service on light trucks.

B. **Load Range and Load Inflation Limits:** Indicates the tire's load-carrying capabilities and its inflation limits.

C. **Maximum Load Dual lb (kg) at psi (kPa) cold:** Indicates the maximum load and tire pressure when the tire is used as a dual; defined as four tires on the rear axle (a total of six or more tires on the vehicle).

D. **Maximum Load Single lb (kg) at psi (kPa) cold:** Indicates the maximum load and tire pressure when the tire is used as a single; defined as two tires (total) on the rear axle.

**Information on T Type Tires**

T145/80D16 is an example of a tire size.

**Note:** The temporary tire size for your vehicle may be different from this example. Tire Quality Grades do not apply to this type of tire.

T type tires have some additional information beyond those of P type tires. These differences are described below:

A. **T:** Indicates a type of tire, designated by the Tire and Rim Association, that is intended for temporary service on cars, sport utility vehicles, minivans and light trucks.

B. **145:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.
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. See **Load Carrying** (page 177).

**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 or...
Wheels and Tires

Tire 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-pilar 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.

**Note:** Do not reduce tire pressure to change the ride characteristics of the vehicle. If you do not maintain the inflation pressure at the levels specified by Ford, your vehicle may experience a condition known as shimmy. Shimmy is a severe vibration and oscillation in the steering wheel after the vehicle travels over a bump or dip in the road that does not dampen out by itself. Shimmy may result from significant under-inflation of the tires, improper tires (load range, size, or type), or vehicle modifications such as lift-kits. In the event that your vehicle experiences shimmy, you should slowly reduce speed by either lifting off the accelerator pedal or lightly applying the brakes. The shimmy will cease as the vehicle speed decreases.

**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 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 Safety Compliance Certification Label or Tire Label.

6. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.

7. Check the sidewalls to make sure there are no gouges, cuts or bulges.

Inspecting Your Tires and Wheel Valve Stems

Periodically inspect the tire treads for uneven or excessive wear and remove objects such as stones, nails or glass that may be wedged in the tread grooves. Check the tire and valve stems for holes, cracks, or cuts that may permit air leakage and repair or replace the tire and replace the valve stem. Inspect the tire sidewalls for cracking, cuts, bruises and other signs of damage or excessive wear. If internal damage to the tire is suspected, have the tire demounted and inspected in case
Wheels and Tires

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**

![Tire Wear Image]

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.

When the tread is worn down to one sixteenth of an inch (2 millimeters), 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).
Age

**WARNING**

Tires degrade over time depending on many factors such as weather, storage conditions, and conditions of use (load, speed, inflation pressure) the tires experience throughout their lives.

In general, tires should be replaced after six years regardless of tread wear. However, heat caused by hot climates or frequent high loading conditions can accelerate the aging process and may require tires to be replaced more frequently.

You should replace your spare tire when you replace the road tires or after six years due to aging even if it has not been used.

**U.S. DOT Tire Identification Number**

Both United States and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

This begins with the letters DOT and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

**Tire Replacement Requirements**

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.

**WARNING**

Only use replacement tires and wheels that are the same size, load index, speed rating and type (such as P-metric versus LT-metric or all-season versus all-terrain) as those originally provided by Ford. The recommended tire and wheel size may be found on either the Safety Compliance Certification Label or the Tire Label. If this information is not found on these labels then you should contact your authorized dealer as soon as possible. Use of any tire or wheel
Wheels and Tires

WARNINGS

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.

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 (3.6 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 (3.6 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.

The two front tires or two rear tires should generally be replaced as a pair.

The tire pressure sensors mounted in the wheels 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.

279
Wheels and Tires

If the tire pressure monitoring system indicator is flashing, the system is malfunctioning. Your replacement tire might be incompatible with your tire pressure monitoring system, or some component of the system 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 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**

**WARNING**

If the tire label shows different tire pressures for the front and rear tires and the vehicle is equipped with a tire pressure monitoring system, then the settings for the system sensors need to be updated. Always perform the system reset procedure after tire rotation. If the system is not reset, it may not provide a low tire pressure warning when necessary. See the tire pressure monitoring system reset procedure in this chapter.

**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.

Rear-wheel drive vehicles and four-wheel drive vehicles (front tires at left of diagram)

![Tire Rotation Diagram](E142548)

Sometimes irregular tire wear can be corrected by rotating the tires.
Wheels and Tires

USING SNOW CHAINS

**WARNING**

Snow tires must be the same size, load index, speed rating as those originally provided by Ford. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. Additionally, the use of non-recommended tires and wheels could cause steering, suspension, axle, transfer case or power transfer unit failure.

**Note:** The suspension insulation and bumpers will help prevent vehicle damage. Do not remove these components from your vehicle when using snow tires and chains.

**Note:** Do not place chains on the following tire sizes: P265/60R18, P275/65R18, LT275/65R18, LT315/70R17, P275/55R20, and P275/45R22.

The tires on your vehicle 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 chains:

- If possible, avoid fully loading your vehicle
- Use only SAE Class S chains.
- Install chains securely, verifying that the chains do not touch any wiring, brake lines or fuel lines.
- Drive cautiously. If you hear the chains rub or bang against your vehicle, stop and retighten the chains. If this does not work, remove the chains to prevent damage to your vehicle.
- Remove the tire chains when they are no longer needed. Do not use tire chains 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:
## Wheels and Tires

<table>
<thead>
<tr>
<th>Low tire pressure warning light</th>
<th>Possible cause</th>
<th>Customer action required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid warning light</td>
<td>Tire(s) under-inflated</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Spare tire in use</td>
<td>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 <strong>When your temporary spare tire is installed</strong> in this section.</td>
</tr>
<tr>
<td></td>
<td>Tire pressure monitoring system malfunction</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Tire rotation without sensor training</td>
<td>On vehicles with different front and rear tire pressures, the system must be retrained following every tire rotation. See <strong>Tire Care</strong> (page 267).</td>
</tr>
<tr>
<td>Flashing warning light</td>
<td>Spare tire in use</td>
<td>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 <strong>When your temporary spare tire is installed</strong> in this section.</td>
</tr>
<tr>
<td></td>
<td>Tire pressure monitoring system malfunction</td>
<td>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.</td>
</tr>
</tbody>
</table>
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.

Tire Pressure Monitoring System Reset Procedure

**WARNING**

To determine the required pressure(s) for your vehicle, see the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or Tire Label located on the B-Pillar or the edge of the driver's door.

**Note:** You need to perform the tire pressure monitoring system reset procedure after each tire rotation on vehicles that require different recommended tire pressures in the front tires as compared to the rear tires.

**Overview**

To provide the vehicle's load carrying capability, some vehicles require different recommended tire pressures in the front tires as compared to the rear tires. The tire pressure monitoring system equipped on these vehicles is designed to illuminate the low tire pressure warning light at two different pressures; one for the front tires and one for the rear tires.

Since tires need to be rotated to provide consistent performance and maximum tire life, the tire pressure monitoring system needs to know when the tires are rotated to determine which set of tires are on the front and which are on the rear. With this information, the system can detect and properly warn of low tire pressures.

System reset tips:
To reduce the chances of interference from another vehicle, perform the system reset procedure at least three feet (one meter) away from another Ford Motor Company vehicle undergoing the system reset procedure at the same time.

Do not wait more than two minutes between resetting each tire sensor or the system will time-out and the entire procedure will have to be repeated on all four wheels.

A double horn will sound indicating the need to repeat the procedure.

Performing the System Reset Procedure

Read the entire procedure before attempting.

1. Drive the vehicle above 20 mph (32 km/h) for at least two minutes, then park in a safe location where you can easily get to all four tires and have access to an air pump.

2. Place the ignition in the off position and keep the key in the ignition.

3. Cycle the ignition to the on position with the engine off.

4. Turn the hazard flashers on then off three times. You must accomplish this within 10 seconds. If the reset mode has been entered successfully, the horn will sound once, the system indicator will flash and a message is shown in the information display. If this does not occur, please try again starting at Step 2. If after repeated attempts to enter the reset mode, the horn does not sound, the system indicator does not flash and no message is shown in the information display, seek service from your authorized dealer.

5. Train the tire pressure monitoring system sensors in the tires using the following system reset sequence starting with the left front tire in the following clockwise order: Left front (driver's side front tire), Right front (passenger's side front tire), Right rear (passenger's side rear tire), Left rear (driver's side rear tire)

6. Remove the valve cap from the valve stem on the left front tire. Decrease the air pressure until the horn sounds.

Note: The single horn chirp confirms that the sensor identification code has been learned by the module for this position. If a double horn is heard, the reset procedure was unsuccessful, and you must repeat it.

7. Remove the valve cap from the valve stem on the right front tire. Decrease the air pressure until the horn sounds.

8. Remove the valve cap from the valve stem on the right rear tire. Decrease the air pressure until the horn sounds.

9. Remove the valve cap from the valve stem on the left rear tire. Decrease the air pressure until the horn sounds. Training is complete after the horn sounds for the last tire trained (driver's side rear tire), the system indicator stops flashing, and a message is shown in the information display.

10. Turn the ignition off. If two short horn beeps are heard, the reset procedure was unsuccessful and you must repeat it. If after repeating the procedure and two short beeps are heard when the ignition is turned to off, seek assistance from your authorized dealer.
11. Set all four tires to the recommended air pressure as indicated 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.

**CHANGING A ROAD WHEEL**

**WARNINGS**

⚠️ The use of tire sealants may damage your tire pressure monitoring system and should not be used. However, if you must use a sealant, the tire pressure monitoring system sensor and valve stem on the wheel must be replaced by an authorized dealer.

If the tire pressure monitor sensor becomes damaged, it will no longer function. See Tire Pressure Monitoring System (page 282).

**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 this 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 system sensors. See Tire Pressure Monitoring System (page 282). Replace the spare tire with a road tire as soon as possible. During repairing or replacing of the flat tire, have the authorized dealer inspect the 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 USE ONLY

When driving with one of the dissimilar spare tires listed above, do not:

- Exceed 50 mph (80 km/h)
- Load the vehicle beyond maximum vehicle load rating listed on the Safety Compliance Label.
- Tow a trailer.
- Use snow chains on the end of the vehicle with the dissimilar spare tire.
- Use more than one dissimilar spare tire at a time.
Wheels and Tires

- 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

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.

Location of the Spare Tire and Tools

The spare tire is located under the vehicle, just forward of the rear bumper. The jack, jack handle and lug wrench are located in the following locations:

<table>
<thead>
<tr>
<th>Body style</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Cab</td>
<td>Attached to a floor bracket behind or under the driver's seat (for easier access, move the driver seat forward)</td>
</tr>
<tr>
<td>SuperCab</td>
<td>Attached to a floor bracket under the rear seat on the driver's side</td>
</tr>
<tr>
<td>SuperCrew</td>
<td>In a plastic box in the floor under the rear seat</td>
</tr>
</tbody>
</table>
**Tire Change Procedure**

**WARNINGS**

- **WARNING:** When one of the front wheels is off the ground, the transmission alone will not prevent the vehicle from moving or slipping off the jack, even if the transmission selector lever is in position **P**.

- **WARNING:** To help prevent the vehicle from moving when you change a tire, be sure to place the transmission selector lever in position **P**, set the parking brake and block (in both directions) the wheel that is diagonally opposite (other side and end of the vehicle) to the tire being changed.

- **WARNING:** Never get underneath a vehicle that is supported only by a jack. If the vehicle slips off the jack, you or someone else could be seriously injured.

- **WARNING:** Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to avoid the danger of being hit when operating the jack or changing the wheel.

- **WARNING:** Always use the jack provided as original equipment with your vehicle. If using a jack other than the one provided as original equipment with your vehicle, make sure the jack capacity is adequate for the vehicle weight, including any vehicle cargo or modifications.

- **WARNING:** Disable the power running boards before jacking, lifting, or placing any object under the vehicle. Never place your hand between the power running board and the vehicle as extended power running boards will retract when the doors are closed. Failure to follow these instructions may result in personal injury.

**Note:** *Passengers should not remain in the vehicle when the vehicle is being jacked.*

Park on a level surface, activate the hazard flashers and set the parking brake. Then, place the transmission selector lever in position **P** and turn the engine off.

**To remove the jack on Regular Cab and SuperCab models:**

Remove the wing nut and turn the jack screw counterclockwise to release pressure before removing the jack from the bracket.

**To remove the jack on SuperCrew models:**

1. Lift both rear seat cushions.
2. Remove the insert containing the Easy Fuel funnel from the driver’s side.
3. Remove the two small wing nuts on the passenger side.
4. Slide the plastic box toward the driver’s side and remove.

See the instruction sheet (located with the jack) for detailed tire change instructions.

**Removing the spare tire**

1. Use the ignition key to remove the lock cylinder from the access hole of the bumper to allow access to the guide tube. Assemble the jack handle as shown in the illustration.
2. Fully insert the jack handle through the bumper hole and into the guide tube through the access hole in the rear bumper.

3. Turn the handle counterclockwise until the tire is lowered to the ground, the tire can be slid rearward and the cable is slightly slack.

4. Slide the retainer through the center of the wheel.

5. Block the diagonally opposite wheel. Obtain the spare tire and jack from their storage locations. **Note:** The F-150 SVT Raptor also includes a chock, saddle extension and wing bolt. Use the tip of the lug wrench to remove any wheel trim that is blocking the lug nuts.

6. Loosen each wheel lug nut one-half turn counterclockwise, but do not remove them until the wheel is raised off the ground. **Note:** For the F-150 SVT Raptor, install the saddle extension on the jack as shown in the jack usage and storage instructions.

---

**Jacking the vehicle**

**Front**

**Note:** Use the frame rail as the jacking location point, not the control arm. **Note:** For the F-150 SVT Raptor, you must always use the jack saddle extension.
Wheels and Tires

Rear

Note: Jack at the specified locations to avoid damage to the vehicle.

1. Position the jack according to the guides and turn the jack handle clockwise until the wheel is completely off the ground.

2. Remove the lug nuts with the lug wrench.

3. 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.

4. Lower the wheel by turning the jack handle counterclockwise.

5. Remove the jack and fully tighten the lug nuts in the order shown. See Technical Specifications (page 293).

6. Stow the flat tire.

7. Stow the jack and lug wrench. Make sure the jack is fastened so it does not rattle when you drive.

8. Unblock the wheels.

Stowing the flat or spare tire

Note: Failure to follow the spare tire stowage instructions may result in failure of the cable or loss of the spare tire.

1. Lay the tire on the ground with the valve stem facing in the direction specified on the Tire Changing Instructions located with the jack hardware.
2. Slide the wheel partially under the vehicle and install the retainer through the wheel center. Pull on the cable to align the components at the end of the cable.

3. Turn the jack handle clockwise until the tire is raised to its stowed position underneath the vehicle. The effort to turn the jack handle increases significantly and the spare tire carrier ratchets or slips when the tire is raised to the maximum tightness. Tighten to the best of your ability, to the point where the ratchet or slip occurs, if possible. The spare tire carrier will not allow you to overtighten. If the spare tire carrier ratchets or slips with little effort, take the vehicle to your authorized dealer for assistance at your earliest convenience.

4. Check that the tire lies flat against the frame and is properly tightened. Try to push or pull, then turn the tire to be sure it will not move. Loosen and retighten, if necessary. Failure to properly stow the spare tire may result in failure of the winch cable and loss of the tire.

5. Repeat this tightness check procedure when servicing the spare tire pressure (every six months, as per your scheduled maintenance information), or at any time that the spare tire is disturbed through service of other components.

6. If removed, install the spare tire lock into the bumper drive tube with the spare tire lock key and jack handle.

**TECHNICAL SPECIFICATIONS**

**Wheel Lug Nut Torque Specifications**

<table>
<thead>
<tr>
<th>Bolt size</th>
<th>lbf.ft (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M14 x 2.0</td>
<td>148 lbf.ft (200 Nm)</td>
</tr>
</tbody>
</table>

*Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.*
Inspect the wheel pilot hole and mounting surface prior to installation. Remove any visible corrosion or loose particles.
Capacities and Specifications

ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Engine</th>
<th>3.5L V6 Ecoboost</th>
<th>3.7 V6</th>
<th>5.0L V8</th>
<th>6.2L V8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cubic inches</td>
<td>214</td>
<td>226</td>
<td>302</td>
<td>378</td>
</tr>
<tr>
<td>Required fuel</td>
<td>Minimum 87 octave</td>
<td>Minimum 87 octave or E85</td>
<td>Minimum 87 octave or E85</td>
<td>Minimum 87 octave</td>
</tr>
<tr>
<td>Firing order</td>
<td>1-4-2-5-3-6</td>
<td>1-4-2-5-3-6</td>
<td>1-5-4-8-6-3-7-2</td>
<td>1-3-7-2-6-5-4-8</td>
</tr>
<tr>
<td>Ignition system</td>
<td>Coil on plug</td>
<td>Coil on plug</td>
<td>Coil on plug</td>
<td>Coil on plug</td>
</tr>
<tr>
<td>Spark plug gap</td>
<td>.030-.033 in. (75-.85 mm)</td>
<td>.049-.053 in. (1.25-1.35 mm)</td>
<td>.049-.053 in. (1.25-1.35 mm)</td>
<td>.041-.047 in. (1.04-1.20 mm)</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>10.0:1</td>
<td>10.5:1</td>
<td>10.5:1</td>
<td>9.8:1</td>
</tr>
</tbody>
</table>

Drivebelt Routing

3.5L V6 Ecoboost Engines with A/C
Capacities and Specifications

3.7L V6 Engines with A/C

5.0L V8 Engines with A/C

6.2L V8 Engines with A/C
Capacities and Specifications

MOTORCRAFT PARTS

<table>
<thead>
<tr>
<th>Component</th>
<th>3.5L V6 Ecoboost</th>
<th>3.7L V6 engine</th>
<th>5.0L V8 engine</th>
<th>6.2L V8 engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air filter element</td>
<td>FA-1883</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil filter</td>
<td>FL-500-S</td>
<td>FL-500-S</td>
<td>FL-500-S</td>
<td>FL-820-S</td>
</tr>
<tr>
<td>Battery</td>
<td>BXT-65-750</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spark plugs1</td>
<td>SP-534/CYFS-12-YT3</td>
<td>SP-520/CYFS-12F-5</td>
<td>SP-519/CYFS-12Y</td>
<td>SP-526/CYFS-12-FP</td>
</tr>
<tr>
<td>Windshield wiper blade</td>
<td>WW-2201-PF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seat air filter</td>
<td>FS-104</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic transmission fluid filter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1For spark plug replacement, see your authorized dealer. See Scheduled Maintenance (page 436) for the appropriate intervals for changing the spark plugs.

**Note:** Replace the spark plugs with ones that meet Ford material and design specifications for your vehicle, such as Motorcraft or equivalent replacement parts. The customer warranty may be void for any damage to the engine if such spark plugs are not used.

2For Automatic transmission fluid filter replacement, see your authorized dealer.

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:
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.
The transmission code is on the Safety Compliance Certification Label. The following table shows the transmission code along with the transmission description.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six-speed automatic transmission 6R80E</td>
<td>6</td>
</tr>
</tbody>
</table>
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Capacity</th>
<th>Ford part name or equivalent</th>
<th>Ford part number / Ford specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock cylinders</td>
<td>—</td>
<td>Motorcraft Penetrating and Lock Lubricant (US); Motorcraft Penetrating Fluid (Canada)</td>
<td>XL-1 (US); CXC-51-A (Canada) / --</td>
</tr>
<tr>
<td>Hinges, latches, striker plates, fuel filler door hinge and seat tracks</td>
<td>—</td>
<td>Motorcraft Multi-Purpose Grease Spray</td>
<td>XL-5</td>
</tr>
<tr>
<td>Brake fluid(^1)</td>
<td>Between MIN/MAX on brake fluid reservoir</td>
<td>Motorcraft DOT 4 LV High Performance Motor Vehicle Brake Fluid</td>
<td>PM-20 / WSS-M6C65-A2</td>
</tr>
<tr>
<td>3.5L EcoBoost engine oil(^{2,3})</td>
<td>6.0 qt (5.7L)</td>
<td>Motorcraft SAE 5W-30 Motor Oil</td>
<td>XO-5W30-QSP or XO-5W30-QFS (U.S.); CXO-5W30-LSP12 or CXO-5W30-LFS12 (Canada) / WSS-M2C946-A</td>
</tr>
<tr>
<td>3.7L engine oil(^{2,3})</td>
<td>6.0 qt (5.7L)</td>
<td></td>
<td>XO-5W20-QSP or XO-5W20-QFS (U.S.); CXO-5W20-LSP12 or CXO-5W20-LFS12 (Canada) / WSS-M2C945-A</td>
</tr>
<tr>
<td>5.0L engine oil(^{2,3})</td>
<td>7.7 qt (7.3L)</td>
<td>Motorcraft SAE 5W-20 Motor Oil</td>
<td></td>
</tr>
<tr>
<td>6.2L engine oil(^{2,3})</td>
<td>7.0 qt (6.6L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5L EcoBoost engine coolant(^4)</td>
<td>16.5 qt (15.6L)</td>
<td>Motorcraft Orange Antifreeze/Coolant Prediluted</td>
<td>VC-3DIL-B (US); CVC-3DIL-B (Canada) / WSS-M97B44-D2</td>
</tr>
<tr>
<td>3.7L engine coolant(^4)</td>
<td>16.0 qt (15.1L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0L engine coolant(^4)</td>
<td>17.0 qt (16.1L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.2L engine coolant(^4)</td>
<td>19.5 qt (18.5L)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Brake fluid levels visible on the brake fluid reservoir. 
\(^2\) EcoBoost engine oil levels for vehicles with 3.5L, 3.7L, 5.0L, and 6.2L engine options. 
\(^3\) Engine oil levels for 3.5L EcoBoost engine. 
\(^4\) Engine coolant levels for 3.5L EcoBoost engine.
## Capacities and Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Capacity</th>
<th>Ford part name or equivalent</th>
<th>Ford part number / Ford specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front axle fluid (Four-wheel drive)</td>
<td>3.5 pt (3.3L)</td>
<td>Motorcraft SAE 80W-90 Premium Rear Axle Lubricant (US); Motorcraft SAE 80W-90 Premium Axle Lubricant (Canada)</td>
<td>XY-80W90-QL (US); CXY-80W90-1L (Canada) / WSP-M2C197-A</td>
</tr>
<tr>
<td>Rear axle fluid</td>
<td>5.5 pt (2.6L)</td>
<td>Motorcraft SAE 75W-140 Synthetic Rear Axle Lubricant</td>
<td>XY-75W140-QL (US); CXY-75W140-1L (Canada) / WSS-M2C942-A</td>
</tr>
<tr>
<td>Transmission / parking brake linkages and pivots, brake pedal shift</td>
<td>—</td>
<td>Motorcraft Premium Long-Life Grease</td>
<td>XG-1-C (US); CXG-1-C (Canada) / ESA-M1C75-B</td>
</tr>
<tr>
<td>Transfer case fluid</td>
<td>1.5 qt (1.4L)</td>
<td>Motorcraft Transfer Case Fluid</td>
<td>XL-12 (US); CXL-12 (Canada) / ESP-M2C166-H</td>
</tr>
<tr>
<td>Automatic four wheel drive (Torque On Demand)</td>
<td>1.5 qt (1.4L)</td>
<td>Motorcraft MERCON LV ATF</td>
<td>XT-10-QLVC (US); CXT-10-LV12 (Canada)</td>
</tr>
<tr>
<td>Power steering fluid (6.2L engine only)</td>
<td>Fill to between MIN and MAX lines on reservoir</td>
<td>Motorcraft MERCON LV ATF</td>
<td>XT-10-QLVC (US); CXT-10-LV12 (Canada) / MERCON LV</td>
</tr>
<tr>
<td>Automatic transmission fluid</td>
<td>3.7L engine 12.1 qt (11.7L) 5.0L, 6.2L and 3.5L EcoBoost engines 13.1 qt (12.4L)</td>
<td>Motorcraft MERCON LV ATF</td>
<td>XT-10-QLVC (US); CXT-10-LV12 (Canada) / MERCON LV</td>
</tr>
</tbody>
</table>
### Capacities and Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Capacity</th>
<th>Ford part name or equivalent</th>
<th>Ford part number / Ford specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windshield washer fluid</td>
<td>Fill as required</td>
<td>Motorcraft Premium Windowshield Wash Concentrate with Bitterant (US); Premium Quality Windshield Washer Fluid (Canada)</td>
<td>ZC-32-B1 (US); CXC-37-(A, B, D, and F) (Canada) / WSS-M14P19-A / - -</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>26.0 gal (98.4L) Standard</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>36.0 gal (136.2L) Optional</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>A/C Refrigerant</td>
<td>1.50 lb (0.68 kg)</td>
<td>Motorcraft R-134a Refrigerant</td>
<td>YN-19 (US); CYN-16-R (Canada) / WSH-M17B19-A</td>
</tr>
<tr>
<td>A/C Refrigerant Compressor Oil</td>
<td>3.40 fl oz (100.5 ml)</td>
<td>Motorcraft PAG Refrigerant Compressor Oil</td>
<td>YN-12-D / WSH-M1C231-B</td>
</tr>
</tbody>
</table>

10 Indicates the amount is necessary for air conditioning.
1. Ford recommends using Motorcraft (Ford) DOT 4 LV High Performance Motor Vehicle 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.

2. The design of your engine allows for the use of Motorcraft engine oils or equivalent oils that meet Ford specifications. It is also acceptable to use an engine oil of recommended viscosity grade that meets API SN requirements and displays the API certification mark for gasoline engines.

3. Do not use supplemental engine oil additives in your engine. They are unnecessary and could lead to engine damage not covered by your Ford warranty. Do not use API S category oils labeled as SN, SM, SL or lower category unless the label also displays the API certification mark. These oils do not meet the requirements of the engine and emission system.

4. Add the coolant type originally equipped in your vehicle.

5. Service refill capacity is determined by filling the axle to 1/4-9/16 inch (6-14 millimeter) below the bottom of the filler hole with the vehicle on a level surface. Add 4 fl oz. (118 milliliters) of Additive Friction Modifier XL-3 (US) / CXL-3 (Canada) or equivalent meeting Ford specification EST-M2C118-A, for complete fill of 8.8-inch Traction-Lok axles.

6. Filled with a synthetic rear axle lubricant, consider the rear axle on your vehicle filled for life. You do not need to check or change the rear axle lubricant unless you suspect a leak. Change the rear axle lubricant any time you have submerged the rear axle in water.

7. Service refill capacity is determined by filling the transfer case to the bottom of the filler hole with the vehicle on a level surface.

8. Make sure the correct automatic transmission fluid is used. Transmission fluid requirements are indicated on the dipstick blade or the dipstick handle. Before adding, check the container to verify the fluid is of the correct type. Refer to your scheduled maintenance information to determine the correct service interval.

**Note:** Automatic transmissions that require MERCON LV should only use MERCON LV fluid. Use of any fluid other than the recommended fluid may cause transmission damage.

9. Indicates only approximate dry-fill capacity. Some applications may vary based on cooler size and if equipped with an in-tank cooler. Use the indication on the dipstick, showing the normal operating range, to determine the amount of transmission fluid and the fluid level.

10. See the Warning below:

---

**WARNING**

The air conditioning refrigerant system contains refrigerant R-134a under high pressure. Opening the air conditioning refrigerant system can cause personal injury. Have the air conditioning refrigerant system serviced only by qualified personnel.

---

303
Capacities and Specifications
For a complete listing of the accessories that are available for your vehicle, please contact an authorized dealer or visit our online store at www.Accessories.Ford.com (United States only).

Ford Motor Company will repair or replace any properly authorized dealer-installed Ford Custom Accessories found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessories.

Ford Motor Company will warrant your vehicle through the warranty that provides the greatest benefit:

- 12 months or 12000 miles (20000 kilometers) (whichever occurs first).
- The remainder of your new vehicle limited warranty.

Contact an authorized dealer for details and a copy of the warranty.

**Exterior style**
- Hood deflector
- Chrome exhaust tips
- Side window deflectors
- Front grilles
- Running boards
- Step bars
- Splash guards
- Lamps
- Custom graphics*

**Interior style**
- Ambient lighting
- Floor mats
- Electrochromatic compass/temperature interior mirrors
- Sliding rear windows
- Leather-trimmed interior seating*

**Lifestyle**
- Smoker's package
- Bedliners and bedmats
- Bed side step
- Towing mirrors
- Bed extender
- Tonneau covers*
- Interior cargo organization and management
- Racks and carriers*
- Truck bed camping tent*
- Sportliner cargo liner*
- Rear-seat entertainment*
- Trailer brake controller
- Hitch balls and towbars
- Truck bed cargo organization and management
- Trailer hitches, wiring harnesses and accessories

**Peace of mind**
- Keyless entry keypad
- Vehicle security systems
- Protective seat covers*
- Cable lock*
- Locking gas plug for capless fuel system
- Bumper- and hitch-mounted parking sensors*
- Remote start
- Wheel locks
- Wheel well liners
- Bed hooks*
- Back-up alarm*
- Tool or cargo boxes*
- Speed/Cruise control
- Vehicle cover
*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 manufacturer's limited warranty details, and request a copy of the Ford Licensed Accessories product limited warranty from the accessory manufacturer.

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Ask an authorized dealer for specific weight information.

- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems that are equipped with radio transmitters, for example, two-way radios, telephones and theft alarms. Any such equipment installed in your vehicle should comply with Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulations and should be installed only by an authorized dealer.

- 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 custom electrical or electronic accessories or components to your vehicle, you may adversely affect battery performance and durability, and may adversely affect the performance of other electrical systems in the vehicle.
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 and Lincoln owners have discovered the powerful protection of Ford Extended Service Plan. It is the only extended service plan backed by Ford Motor Company, and provides peace of mind protection beyond the New Vehicle Limited Warranty coverage.

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 500+ Covered Vehicle Components

There are four Extended Service Plans with different levels of coverage. Ask your authorized dealer for details.

1. PremiumCARE - Our most comprehensive coverage. With over 500 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.
4. PowertrainCARE - Covers 29 critical components.

Ford Extended Service Plan is honored by all authorized Ford and Lincoln dealers in the U.S. and Canada. It is the only extended service plan authorized and backed by Ford Motor Company.

That means you get:
- Reliable, quality service anywhere you go
- Repairs performed by factory trained technicians, using Genuine Ford and Lincoln 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, or 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.
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 select items that routinely wear out.

The coverage is prepaid, so you never have to worry about affording your vehicle maintenance. It covers regular checkups, routine inspections, preventive care and replacement of select items that require periodic attention for normal wear:

- Windshield Wiper Blades
- Spark Plugs (except in California)
- The Clutch Disc
- Brake Pads and Linings
- Shock Absorbers
- Belts and Hoses
- Diesel Exhaust Fluid Replenishment

Contact your selling authorized Ford or Lincoln dealership today so they can customize a Ford Extended Service Plan that fits your driving lifestyle and budget.

Interest Free Finance Options Available

Take advantage of our interest free installment payment plan. Just a 10% down payment will provide you with an affordable, no interest, no fee payment program.

To learn more, call our Ford ESP specialists at 800-367-3377. Don’t forget to ask about our interest free payment program, allowing you all the security and benefits Ford ESP has to offer while paying over time. You are pre-approved with no credit checks, no hassles!

Complete the information below and mail to:

Ford ESP
P.O. Box 8072
Royal Oak, MI 48068-0039

<table>
<thead>
<tr>
<th>Name (PLEASE PRINT)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>APT.#</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>E-MAIL</th>
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</thead>
</table>
SERVICES 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 and the United States, provided by a network of participating authorized Ford Motor Company dealers. The Lincoln Maintenance Protection Plan is honored at authorized Lincoln dealers.

Note: Repairs performed outside of Canada and the United States are not eligible for Ford 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.
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

<table>
<thead>
<tr>
<th>Radio Reception Factors</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Distance and strength</strong></td>
<td>The further you travel from an FM station, the weaker the signal and the weaker the reception.</td>
</tr>
<tr>
<td><strong>Terrain</strong></td>
<td>Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with the reception.</td>
</tr>
<tr>
<td><strong>Station overload</strong></td>
<td>When you pass a ground-based broadcast repeating tower, a stronger signal may overtake a weaker one and result in the audio system muting.</td>
</tr>
</tbody>
</table>

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 T001 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.

**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.
Audio System

A **CLK:** Press this button to switch the display between the clock and radio frequency. To set the time, press and hold the button until the hours start to flash. Press the arrow buttons (B) to adjust the hours, then repeat to set the minutes. Press **CLK** again to exit clock mode.

B **Tune:** Press these arrow buttons to manually search through the radio frequency band. Press and hold for a fast search. In AUDIO mode, press the buttons to adjust different sound settings.

C **AUDIO:** Press this button to access settings for Treble, Middle, Bass, Fade and Balance.

D **SEEK:** Press this button to go to the previous or next strong station on the frequency band.

E **Memory presets:** Store your favorite radio stations. To store a radio station, tune to the station, then press and hold a preset button until sound returns.

F **AM/FM:** Press this button to select a frequency band.

G **VOL-PUSH:** Press this button to switch the system off and on. Turn the control to adjust the volume.

**Note:** Some features, such as Sirius satellite radio, may not be available in your location. Check with an authorized dealer.

**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. **Memory presets:** Store your favorite stations for later access. When tuned to any station, press and hold a preset button until sound returns and **PRESSET # SAVED** appears in the display.

You can also save presets automatically by using the autoset feature:

- Press MENU repeatedly until **AUTO PRESET ON/OFF** appears in the display. Use the SEEK buttons to turn AUTO PRESET on, and either wait five seconds for the search to initiate or press **OK** to immediately start the search.
- If you press another control within those five seconds, the search does not start. The system fills the presets with the 10 strongest stations; the station stored in preset 1 begins playing. If there are fewer than 10 strong stations, the system stores the last one in the remaining presets.

**Note:** Autoset does not delete your original preset stations.

**Note:** In order to re-run the autoset features, you must first turn it off before turning it back on.

B. **CD slot:** Insert a CD.

C. **Eject:** Press this button to eject a CD.

D. **Arrow buttons:** Press these buttons to make selections in MENU mode.

E. **MENU:** Press this button to access different audio features.

- **Compression** brings the soft and loud CD passages together for a more consistent listening level.
- **Shuffle** plays the current CD tracks in random order.
- **RDS Radio** allows you to search RDS-equipped stations for a certain category of music such as CLASSIC, COUNTRY, JAZZ/RB or ROCK.
- **SIRIUS** allows you to access different satellite radio options.

F. **CLOCK#:** Press this button to set the time. Use the memory preset buttons to enter the time, and then press **OK**.

G. **PHONE:** Press this button to access the phone features of the SYNC system. See **Using SYNC™ With Your Phone** (page 329). If your vehicle is not equipped with SYNC, the display reads **NO PHONE**.
Audio System

H. **SOUND**: Press this button to access settings for Treble, Middle, Bass, Balance and Fade.

Use the SEEK or TUNE controls to change the settings.

- **Bass** levels can be increased or decreased.
- **Treble** levels can be increased or decreased.
- **Balance** adjusts the sound between left and right speakers.
- **Fade** adjusts the sound between the front and back speakers.
- **Speed Compensated Volume** adjusts the volume to compensate for speed and wind noise. You can set the system between off and +7.
- **All Seat Mode/Driver Seat Mode** optimizes sound quality for the chosen seating position.
- **DSP Mode** (if equipped) allows you to choose between STEREO SURROUND mode and STEREO mode.

I. **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.
- In Sirius mode, press one of these buttons to select the previous or next channel. If you select a specific category (such as Jazz, Rock or News), use these buttons to find the previous or next channel in the selected category.
- In CD and MP3 modes, press one of these buttons to select the previous or next track.

J. **CD**: Press this button to access CD and MP3 modes.

- The disc begins to play where it left off. If no CD is loaded, **NO DISC** appears in the display.
- Press the SEEK buttons to access the previous or next track. Press and hold the SEEK buttons to quickly reverse or fast-forward within the same track.

K. **TUNE/OK/Play/Pause**:

- In radio mode, turn the control to manually search through the radio frequency band.
- In Sirius mode, turn the control to find the next or previous available satellite radio station.
- **OK** allows you to confirm commands with phone and media features.
- **Play/Pause** allows you to play or pause a track when listening to a CD.

L. **AUX**: Press this button to access media through your auxiliary input jack. See Using **SYNC™** With Your Media Player (page 347).

M. **SIRIUS**: Press this button to access different satellite radio modes.

**Note**: Sirius satellite radio is available only with a valid Sirius radio subscription. Check with an authorized dealer for availability.

N. **VOL/Power**:

- Press this button to switch the system off and on.
- Turn it to adjust the volume.

O. **AM/FM**: Press this button to select a frequency band.

P. **CAT/FOLD**:

- In Sirius mode, press this button to switch between turning the most recently selected satellite radio category off or on.
- In MP3 mode, press this button, then use the SEEK buttons to access the previous or next folder.
Q. **SCAN:**
- In radio mode, press this button to hear a brief sampling of all radio stations.
- In Sirius mode, press this button to hear a brief sampling of all available channels. If you select a specific category, press **SCAN** for a brief sampling of all available channels within the selected category.
- In CD and MP3 modes, press this button to hear a brief sampling of all tracks on the current disc or MP3 folder.

R. **DIRECT:**
- In radio mode, press this button to select the desired radio frequency (such as 93.9) using the memory preset numbers (0–9).
- In Sirius mode, press this button to enter the desired channel (such as 002) using the memory preset buttons. If you enter only one digit, and press **OK**, the system goes to that channel. If you enter three digits, the system automatically goes to that channel, if available. You may cancel your entry by pressing **DIRECT**. If you enter an invalid station number, **INVALID CHANNEL** appears in the display and the system continues playing the current station.
- In CD mode, press this button to enter the desired track number using the memory preset buttons. The system then begins playing that track.
- In MP3 mode, press this button to enter a memory preset button of the desired folder. The system advances to that specific folder.

S. **TEXT:**
- MP3 mode, press this button to view Album (AL), Folder (FL), Song (SO) and Artist (AR) in the display, if available.
- In text mode, sometimes the display requires additional text to show. When the `< / >` indicator is on, press this button, then use the **SEEK** buttons to view the additional text.

T. **LOAD:** This control is not operational. To load a CD, insert the disc, label side up, into the CD slot.

**AUDIO UNIT - 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 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:** Some features, such as Sirius satellite radio, may not be available in your location. Check with an authorized dealer.
A. **RADIO:** Press this button to listen to the radio or change radio frequency bands. Press the function buttons below the radio screen to select different radio functions.

B. **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.

C. **Number block:**
   - In radio mode, store your favorite radio stations. To store a radio station, tune to the station, then press and hold a preset button until sound returns.
   - In CD mode, select a track.
   - In phone mode, enter a phone number.

D. **Function buttons:** Select different functions of the audio system depending on which mode you are in (such as Radio mode or CD mode).

E. **TUNE:**
   - In radio mode, turn the control to search the frequency band manually.
   - In satellite radio mode, turn the control to tune to the next or previous channel.

F. **Reverse and Fast Forward; AM, FM, CD Seek:**
Audio System

- 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 Sirius mode, press one of these buttons to select the previous or next channel. If you select a specific category (such as Jazz, Rock or News), use these buttons to find the previous or next channel in the selected category. Press and hold one of these buttons to move quickly in that direction to the next channel or category.
- 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.

G. **OK and arrow buttons:** Press the up and down or left and right arrow buttons to browse menu selections. Press **OK** to confirm menu selections.

H. **Eject:** Press this button to eject a CD.

I. **Power and Volume:** Press this button to switch the system off and on. Turn it to adjust the volume.

J. **CLOCK:** Press this button to access the clock setting. Use the center arrow controls to change the hours and minutes.

K. **SOUND:** Press this button to adjust settings for Treble, Middle, Bass, Balance and Fade.

L. **MENU:** Press this button to access different audio system features. See **Menu Structure** later in this section.

M. **PHONE:** Press this button to access the phone features of the SYNC system. See **Using SYNC™ With Your Phone** (page 329).

N. **AUX:** Press this button to access your auxiliary input jack or switch between devices you plug into the input jack or USB port. See **Using SYNC™ With Your Media Player** (page 347).

O. **SIRIUS:** Press this button to listen to Sirius satellite radio.

**AUDIO UNIT - VEHICLES WITH: SONY AM/FM/CD**

**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:** The MyFord Touch system controls most of the audio features. See **MyFord Touch™** (page 361).
A. **VOL and Power:** Press this button to switch the system off and on. Turn it to adjust the volume.

B. **Eject:** Press this button to eject a CD.

C. **CD slot:** Insert a CD.

D. **TUNE:** Turn this control to manually search through the radio frequency band.

E. **Memory presets:** Store your favorite radio stations. To store a radio station, tune to the station, then press and hold a preset button until sound returns.

F. **Seek, Reverse and Fast Forward:**
   - 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.
   - In Sirius mode, press these buttons to select the previous or next channel. If a specific category is selected (such as Jazz, Rock or News), use these buttons to find the previous or next channel in the selected category.
   - In CD mode, press these buttons to select the previous or next track.

G. **MEDIA:** Press this button to access different audio modes, such as AM, FM and A/V Input.

**DIGITAL AUDIO**

**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

<table>
<thead>
<tr>
<th>Potential reception issues</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reception area</td>
<td>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.</td>
</tr>
<tr>
<td>Station blending</td>
<td>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.</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Potential station issues</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Echo, stutter, skip or repeat in audio. Increase or decrease in audio volume.</td>
<td>This is poor time alignment by the radio broadcaster.</td>
<td>No action required. This is a broadcast issue.</td>
</tr>
<tr>
<td>Sound fading or blending in and out.</td>
<td>The radio is shifting between analog and digital audio.</td>
<td>No action required. The reception issue may clear up as you continue to drive.</td>
</tr>
<tr>
<td>There is an audio mute delay when selecting HD2 or HD3, multicast preset or <strong>Direct Tune</strong>.</td>
<td>The digital multicast is not available until the HD Radio broadcast is decoded. Once decoded, the audio is available.</td>
<td>No action required. This is normal behavior. Wait until the audio is available.</td>
</tr>
<tr>
<td>Cannot access HD2 or HD3 multicast channel when recalling a preset or from a direct tune.</td>
<td>The previously stored multicast preset or direct tune is not available in your current reception area.</td>
<td>No action required. The station is not available in your current location.</td>
</tr>
<tr>
<td>Text information does not match currently playing audio.</td>
<td>Data service issue by the radio broadcaster.</td>
<td>Fill out the station issue form at website listed below.*</td>
</tr>
<tr>
<td>There is no text information shown for currently selected frequency.</td>
<td>Data service issue by the radio broadcaster.</td>
<td>Fill out the station issue form at website listed below.*</td>
</tr>
<tr>
<td>HD2-HD7 stations not found when <strong>Scan</strong> is pressed.</td>
<td>Pressing <strong>Scan</strong> disables HD2-HD7 channel search.</td>
<td>No action required. This is normal behavior.</td>
</tr>
</tbody>
</table>

* http://www.ibiquity.com/automotive/report_radio_station_experiences

Audio System

F150 (TF6)
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.

**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

<table>
<thead>
<tr>
<th>Potential satellite radio reception issues</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antenna obstructions</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Terrain</strong></td>
</tr>
<tr>
<td>Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.</td>
</tr>
<tr>
<td><strong>Station overload</strong></td>
</tr>
<tr>
<td>When you pass a ground-based broadcast-repeating tower, a stronger signal may overtake a weaker one and the audio system may mute.</td>
</tr>
<tr>
<td><strong>Satellite radio signal interference</strong></td>
</tr>
<tr>
<td>Your display may show ACQUIRING . . . to indicate the interference and the audio system may mute.</td>
</tr>
</tbody>
</table>

**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, you can view this number by pressing SIRIUS and memory preset 1 at the same time, or tuning to channel 0.

Troubleshooting

<table>
<thead>
<tr>
<th>Radio display</th>
<th>Condition</th>
<th>Possible action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquiring</td>
<td>Radio requires more than two seconds to produce audio for the selected channel.</td>
<td>No action required. This message should disappear shortly.</td>
</tr>
<tr>
<td>Sat Fault/SIRIUS system failure</td>
<td>There is an internal module or system failure present.</td>
<td>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.</td>
</tr>
<tr>
<td>Invalid Channel</td>
<td>The channel is no longer available.</td>
<td>Tune to another channel or choose another preset.</td>
</tr>
<tr>
<td>Unsubscribed Channel</td>
<td>Your subscription does not include this channel.</td>
<td>Contact SIRIUS at 1-888-539-7474 to subscribe to the channel, or tune to another channel.</td>
</tr>
<tr>
<td>No Signal</td>
<td>The signal is lost from the SIRIUS satellite or SIRIUS tower to your vehicle antenna.</td>
<td>The signal is blocked. When you move into an open area, the signal should return.</td>
</tr>
</tbody>
</table>
**Audio System**

<table>
<thead>
<tr>
<th>Radio display</th>
<th>Condition</th>
<th>Possible action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updating</td>
<td>Update of channel programming in progress.</td>
<td>No action required. The process may take up to three minutes.</td>
</tr>
<tr>
<td>Call SIRIUS 1-888-539-7474</td>
<td>Your satellite service is no longer available.</td>
<td>Contact SIRIUS at 1-888-539-7474 to resolve subscription issues.</td>
</tr>
<tr>
<td>None found. Check Channel Guide.</td>
<td>All the channels in the selected category are either skipped or locked.</td>
<td>Use the channel guide to turn off the Lock or Skip function on that station.</td>
</tr>
<tr>
<td>Subscription Updated</td>
<td>SIRIUS has updated the channels available for your vehicle.</td>
<td>No action required.</td>
</tr>
</tbody>
</table>

**WARNINGs**

**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.

For safety reasons, do not connect or adjust the settings on your portable music player while your vehicle is moving.

**AUXILIARY INPUT JACK**

Store the portable music player in a secure location, such as the center console or the glove box, when your vehicle is moving. Hard objects may become projectiles in a collision or sudden stop, which may increase the risk of serious injury. The audio extension cable must be long enough to allow the portable music player to be safely stored while your vehicle is moving.
Audio System

The auxiliary input jack allows you to connect and play music from your portable music player through your vehicle speakers. You can use any portable music player designed for use with headphones. Your audio extension cable must have male 1/8th-inch (3.5 millimeter) connectors at each end.

1. Switch off the engine, radio and portable music player. Set the parking brake and put the transmission in position P (vehicle with an automatic transmission) or neutral (vehicle with a manual transmission).

2. Plug the extension cable from the portable music player into the auxiliary input jack.

3. Switch the radio on. Select either a tuned FM station or a CD.

4. Adjust the volume as desired.

5. Switch your portable music player on and adjust its volume to half its maximum level.

6. Press AUX until LINE or LINE IN appears in the display. You should hear music from your device even if it is low.

7. Adjust the volume on your portable music player until it reaches the volume level of the FM station or CD. Do this by switching back and forth between the AUX and FM or CD controls.

USB PORT (IF EQUIPPED)

The USB port allows you to plug in media playing devices, memory sticks and charge devices (if supported). See SYNC™ (page 325).

MEDIA HUB (IF EQUIPPED)

The media hub is located in a compartment inside the center console or in under an access door, in front of the gearshift.

A A/V inputs
B SD card slot
C USB ports

See MyFord Touch™ (page 361).
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 require activation.

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 holidays.

**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**

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**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.

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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.
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.

#### Initiating a Voice Session

Push the voice icon. A tone sounds and Listening appears in the display. Say any of the following:

<table>
<thead>
<tr>
<th>Say</th>
<th>If You Want To</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Bluetooth audio&quot;</td>
<td>Stream audio from your phone.</td>
</tr>
<tr>
<td>&quot;Cancel&quot;</td>
<td>Cancel the requested action.</td>
</tr>
<tr>
<td>&quot;Line in&quot;</td>
<td>Access the device connected to the auxiliary input jack.</td>
</tr>
<tr>
<td>&quot;Mobile apps&quot; *</td>
<td>Access mobile applications.</td>
</tr>
<tr>
<td>&quot;Phone&quot;</td>
<td>Make calls.</td>
</tr>
<tr>
<td>&quot;Services&quot; *</td>
<td>Access the SYNC Services portal.</td>
</tr>
<tr>
<td>&quot;SYNC&quot;</td>
<td>Return to the main menu.</td>
</tr>
<tr>
<td>&quot;USB&quot;</td>
<td>Access the device connected to your USB port.</td>
</tr>
<tr>
<td>&quot;Vehicle health report&quot; *</td>
<td>Run a vehicle health report.</td>
</tr>
<tr>
<td>&quot;Voice settings&quot; *</td>
<td>Adjust the level of voice interaction and feedback.</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
<td>Hear a list of voice commands available in the current mode.</td>
</tr>
</tbody>
</table>

* This is an optional feature and available in the United States only.
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

Push the voice icon. Say "Voice settings" when prompted, then any of the following:

<table>
<thead>
<tr>
<th>When you say:</th>
<th>The system:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Interaction mode standard&quot;</td>
<td>Provides more detailed interaction and guidance.</td>
</tr>
<tr>
<td>&quot;Interaction mode advanced&quot;</td>
<td>Provides less audible interaction and more tone prompts.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>When you say:</th>
<th>The system:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Confirmation prompts off&quot;</td>
<td>Makes a best guess from the command; you may still occasionally be asked to confirm settings.</td>
</tr>
<tr>
<td>&quot;Confirmation prompts on&quot;</td>
<td>Clarifies your voice command with a short question.</td>
</tr>
</tbody>
</table>

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."
When you say: | The system:
--- | ---
"Media candidate lists off" | Makes a best guess from the media candidate list. You may still occasionally be asked questions.
"Media candidate lists on" | Clarifies your voice command for media candidates.
"Phone candidate lists off" | Makes a best guess from the phone candidate list. You may still occasionally be asked questions.
"Phone candidate lists on" | Clarifies your voice command for phone candidates

**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 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.
- Speak naturally, without long pauses between words.
- At any time, you can interrupt the system while it is speaking by pressing the voice icon.

**USING SYNC™ WITH YOUR PHONE**

Hands-free calling is one of the main features of SYNC. While the system supports a variety of features, many are dependent on your cellular phone’s functionality. At a minimum, most cellular phones with Bluetooth wireless technology support the following functions:

- Answering an incoming call.
- Ending a call.
- 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 phone-dependent features. To check your phone’s compatibility, see your phone’s manual and visit www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.ca.
Pairing a Phone for the First Time

**Note:** SYNC can support downloading up to approximately 1000 entries per Bluetooth-enabled cellular phone.

**Note:** Make sure to switch on the ignition and the radio. Put the transmission in position **P**.

**Note:** To scroll through the menus, press the up and down arrows on your audio system.

Wirelessly pairing your phone with SYNC allows you to make and receive hands-free calls.

1. Press the phone button. When the display indicates there is no phone paired, press **OK**.
2. When **Find SYNC** appears in the display, press **OK**.
3. Put your phone into Bluetooth discovery mode. See your device’s manual if necessary.
4. When prompted on your phone’s display, enter the six-digit PIN provided by SYNC in the radio display. The display indicates when the pairing is successful.

Depending on your phone’s capability and your market, the system may prompt you with questions, such as if you would like to set the current phone as the primary phone (the phone SYNC automatically tries to connect with first upon vehicle start-up) and downloading your phonebook.

Pairing Subsequent Phones

**Note:** Make sure to switch on the ignition and the radio. Put the transmission in position **P**.

**Note:** To scroll through the menus, press the up and down arrows on your audio system.

1. Press the phone button, and then scroll to System Settings. Press **OK**.
2. Scroll to Bluetooth Devices. Press **OK**.
3. Scroll to Add Bluetooth Device. Press **OK**.
4. When **Find SYNC** appears in the display, press **OK**.
5. Put your phone into Bluetooth discovery mode. See your phone’s manual if necessary.
6. When prompted on your phone’s display, enter the six-digit PIN provided by SYNC in the radio display. The display indicates when the pairing is successful.

The system then prompts with questions, such as if you would like to set the current phone as the primary phone (the phone SYNC automatically tries to connect with first upon vehicle start-up) and download your phonebook.

**Phone Voice Commands**

Press the voice icon and say “Phone”. Say any of the following:

- **"PHONE"**
  - "Call <name>"[^1][^2]
  - "Call <name> at home"[^1][^2]
  - "Call <name> at work"[^1][^2]
  - "Call <name> in office"[^1][^2]
  - "Call <name> on mobile OR cell"[^1][^2]
  - "Call <name> on other"[^1][^2]
  - "Call history incoming"[^2]
  - "Call history missed"[^2]
**PHONE**

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Call history outgoing&quot;²</td>
</tr>
<tr>
<td>&quot;Connections&quot;²</td>
</tr>
<tr>
<td>&quot;Dial&quot;¹,³</td>
</tr>
<tr>
<td>&quot;Go to privacy&quot;</td>
</tr>
<tr>
<td>&quot;Hold&quot;</td>
</tr>
<tr>
<td>&quot;Join&quot;</td>
</tr>
<tr>
<td>&quot;Menu&quot;²,⁴</td>
</tr>
<tr>
<td>&quot;Phone book &lt;name&gt;&quot;²</td>
</tr>
<tr>
<td>&quot;Phone book &lt;name&gt; at home&quot;²</td>
</tr>
<tr>
<td>&quot;Phone book &lt;name&gt; at office&quot;²</td>
</tr>
<tr>
<td>&quot;Phone book &lt;name&gt; at work&quot;²</td>
</tr>
<tr>
<td>&quot;Phone book &lt;name&gt; on mobile OR cell&quot;²</td>
</tr>
<tr>
<td>&quot;Phone book &lt;name&gt; on other&quot;²</td>
</tr>
</tbody>
</table>

¹ This command does not require you to say "Phone" first.
² This command is not available until phone information is completely downloaded using Bluetooth.
³ See Dial table below.
⁴ See Menu table below.

**DIAL**

<table>
<thead>
<tr>
<th>Dial Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;411&quot; (four-one-one)&quot;, &quot;911&quot; (nine-one-one)</td>
</tr>
<tr>
<td>&quot;700&quot; (seven hundred)</td>
</tr>
<tr>
<td>&quot;800&quot; (eight hundred)</td>
</tr>
<tr>
<td>&quot;900&quot; (nine hundred)</td>
</tr>
<tr>
<td>&quot;Pound&quot; (#)</td>
</tr>
<tr>
<td>&quot;Number &lt;0-9&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Asterisk&quot; (*)</td>
</tr>
<tr>
<td>&quot;Clear&quot; (deletes all entered digits)</td>
</tr>
<tr>
<td>&quot;Delete&quot; (deletes one digit)</td>
</tr>
<tr>
<td>&quot;Plus&quot;</td>
</tr>
<tr>
<td>&quot;Star&quot;</td>
</tr>
</tbody>
</table>

**Note**: To exit dial mode, press and hold the phone button or press Menu to go to the phone menu.

**MENU**

<table>
<thead>
<tr>
<th>Menu Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;(Phone) connections&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (message) notification off&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (message) notification on&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (set) phone ringer&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (set) ringer 1&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (set) ringer 2&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (set) ringer 3&quot;</td>
</tr>
<tr>
<td>&quot;(Phone) settings (set) ringer off&quot;</td>
</tr>
<tr>
<td>&quot;Battery&quot;</td>
</tr>
<tr>
<td>&quot;Phone name&quot;</td>
</tr>
</tbody>
</table>

**Phone book commands**: When you ask SYNC to access things such as a phonebook name or number, the requested information appears in the display to view. Press the phone button and say, "Call" to call the contact.
Words in ( ) are optional and do not have to be spoken for the system to understand the command.

Making Calls
Press the voice icon and when prompted say:
1. Say "Call <name>" or "Dial", then the desired number.
2. When the system confirms the number, say, "Dial" again to initiate the call.

To erase the last spoken digit, say, "Delete" or press the left arrow button. To erase all spoken digits, say "Clear" or press and hold the left arrow button.

To end the call, press and hold the 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 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, such as putting a call on hold or joining calls. Use the arrow buttons to scroll through the menu options.
1. Press MENU during an active call.
2. After selecting Active Call Menu, press OK.
3. Scroll to cycle through the following options:

<table>
<thead>
<tr>
<th>When you select</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mute Call?</td>
<td>Mute the call.</td>
</tr>
<tr>
<td>Privacy</td>
<td>Switch a call from an active hands-free environment to your cellular phone for a more private conversation. Press OK when Privacy on/off appears. (The display indicates In Privacy and the system transfers your call.)</td>
</tr>
<tr>
<td>Call Hold</td>
<td>Put an active call on hold. Press OK when Hold on/off appears. To answer another call at this time, press the phone button.</td>
</tr>
<tr>
<td>Enter Tones</td>
<td>Enter &quot;tones&quot;, 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.</td>
</tr>
<tr>
<td>Join Calls</td>
<td>Join two separate calls. (SYNC supports a maximum of three callers on a multiparty call or conference call.) 1. Press the phone button.</td>
</tr>
<tr>
<td>When you select:</td>
<td>You can:</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
</tr>
<tr>
<td>Phone Redial</td>
<td>Redial the last number called (if available). Press <strong>OK</strong> to select, and then press <strong>OK</strong> again to confirm.</td>
</tr>
<tr>
<td>Call History</td>
<td>Access any previously dialed, received or missed calls after you connect your Bluetooth-enabled phone to SYNC. 1. Press <strong>OK</strong> to select. 2. Scroll to select from Call History Incoming, Call History Outgoing or Call History Missed. Press <strong>OK</strong> to make your selection. 3. Press <strong>OK</strong> or the phone button to call the desired selection.</td>
</tr>
<tr>
<td>When you select:</td>
<td>You can:</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------</td>
</tr>
<tr>
<td><strong>Note:</strong> The system attempts to automatically re-download your phonebook and call history each time your phone connects to SYNC (if the auto download feature is on and your Bluetooth-enabled cellular phone supports this feature).</td>
<td><strong>Phonebook</strong>&lt;sup&gt;12&lt;/sup&gt; Access and call any contacts in your previously downloaded phonebook. 1. Press <strong>OK</strong> to confirm and enter. If your phonebook has fewer than 255 listings, they appear alphabetically in flat file mode. If there are more than 255 entries, the system organizes them into alphabetical categories. 2. Scroll until the desired contact appears, then press <strong>OK</strong>. 3. Press <strong>OK</strong> or the phone button.</td>
</tr>
<tr>
<td><strong>Text Message</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Send, download and delete text messages.</td>
</tr>
<tr>
<td><strong>Phone Settings</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>View your phone's status, set ring tones, select your message notification, change phone book entries and automatically download your cellular phone among other features.</td>
</tr>
<tr>
<td><strong>SYNC Services</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Access the SYNC Services portal where you can request various types of information, traffic reports and directions.</td>
</tr>
<tr>
<td><strong>911 Assist</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>Place an emergency call to a 911 operator for you after an accident, when used properly.</td>
</tr>
<tr>
<td><strong>Vehicle Health Report</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Create and receive a diagnostic report card on your vehicle.</td>
</tr>
<tr>
<td><strong>Mobile Apps</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Interact with SYNC-capable mobile applications on your smartphone.</td>
</tr>
<tr>
<td><strong>System Settings</strong></td>
<td>Access Bluetooth Devices menu listings (Add, Connect, Set as Primary, On and Off, Delete) as well as Advanced menu listings (prompts, languages, defaults, master reset, install application and system information).</td>
</tr>
<tr>
<td><strong>Exit Phone Menu</strong></td>
<td>Exit the phone menu by pressing <strong>OK</strong>.</td>
</tr>
</tbody>
</table>

1. This is a phone-dependent feature.
2. This is a phone-dependent and speed-dependent feature.
3. This is an optional feature and available in the United States only.
4. This is an optional feature and available in the United States and Canada only.
Text Messaging

**Note:** This is a 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 eyes off the road.

Receiving a Text Message

**Note:** This is a phone-dependent feature.
Your phone must support downloading text messages using Bluetooth to receive incoming text messages.

When a new message arrives, an audible tone sounds and the display indicates you have a new message. You have these options:

- Press the voice button, wait for the prompt and say "Read message" to have SYNC read the message to you.
- Press **OK** to receive and open the text message or do nothing and the message goes into your text message inbox. Press **OK** again and SYNC reads your message aloud as you are not able to view the message. You can then also choose to reply or forward the message.
- Press **OK** and scroll to choose between:
  - **Reply to Text Message**: Press **OK** to access and then scroll through the list of pre-defined messages to send.
  - **Forward Text Message**: Press **OK** to forward the message to anyone in your Phonebook or Call History. You can also choose Enter Number.

Sending, Downloading and Deleting Your Text Messages

**Note:** Forwarding a text message is a speed-dependent feature and 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.

Text messaging is a phone-dependent feature. If your phone is compatible, SYNC allows you to receive, send, download and delete text messages.

1. Press the phone button.
2. Scroll to Text Message, and then press **OK**.

Scroll to select from the following options:

- **Send Text Message?** allows you to send a new text message based on a pre-defined set of 15 messages.
- **Download Unread Msgs** allows you to download your unread messages (only) to SYNC. To download the messages, press **OK** to select. The display indicates that it is downloading your messages. When it is complete, SYNC takes you to your inbox.
- **Delete All Messages?** allows you to delete current text messages from SYNC (not your phone). To delete the messages, press **OK** to select. The display indicates when it is finished deleting all your text messages. SYNC returns you to the text message menu.
- **Return** exits the current menu when you press **OK**.

If you select **Send Text Message?**:

1. Press **OK** to select. If the system detects your phone does not support this feature, **Unsupported** appears in the display and SYNC returns to the main menu.
2. Scroll to cycle through the message options in the following chart.
3. Press **OK** when the desired selection is in the display.

4. Enter the name of the recipient. Scroll to cycle through Phonebook or Call History entries. You can also select Enter Number to say the desired number.

5. Press **OK** to enter the desired menu and scroll to select the specific contact.

6. Press OK when the contact appears and press OK again to confirm when the system asks if you would like to send the message. The system sends each text message with the following signature: "This message was sent from my <Ford or Lincoln>".

<table>
<thead>
<tr>
<th>Pre-defined text message options</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
</tr>
<tr>
<td>Why?</td>
</tr>
<tr>
<td>Thanks</td>
</tr>
<tr>
<td>Where R you?</td>
</tr>
<tr>
<td>I need more directions</td>
</tr>
<tr>
<td>I love you</td>
</tr>
<tr>
<td>Too funny</td>
</tr>
<tr>
<td>Can't wait to see you</td>
</tr>
<tr>
<td>I'm stuck in traffic</td>
</tr>
</tbody>
</table>

**Accessing Your Phone Settings**

These are phone-dependent features. Your phone settings allow you to access and adjust features such as your ring tone, text message notification, modify your phonebook and set up automatic download.

1. Press the phone button.
2. Scroll to Phone Settings, and then press **OK**.
3. Scroll to select from the following options:

<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Status</td>
<td>See the provider, name, signal power, battery power and roaming status of your connected phone. Press <strong>OK</strong> to select and scroll to view the information. When done, press <strong>OK</strong> again to return to the phone status menu.</td>
</tr>
<tr>
<td>Set Ringer</td>
<td>Select which ring tone sounds during an incoming call (one of the system's or your phone's). 1. Press <strong>OK</strong> to select and scroll to hear Ringer 1, Ringer 2, Ringer 3 and Phone Ringer. 2. Press <strong>OK</strong> to select.</td>
</tr>
<tr>
<td>When you select:</td>
<td>You can:</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>If your phone supports in-band ringing, your phone's ring tone plays when you choose Phone Ringer.</td>
</tr>
</tbody>
</table>
| Message Notification | Have the option of hearing an audible tone to notify you when a text message arrives.  
1. Press **OK** to select and scroll between Message Notification On and Message Notification Off.  
2. Press **OK** to select. |
| Modify Phonebook | Modify the contents of your phonebook (such as add, delete or download). Press **OK** to choose between:  
Add Contacts: Press **OK** to add more contacts from your phone book. Push the desired contact(s) on your phone. See your phone's manual on how to push contacts.  
Delete Phonebook: Press **OK** 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 **OK** to select, then 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. When **Auto Download On?** appears, press **OK** to have your phonebook automatically downloaded each time.  
** Select Off if you do not want to 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. |

*Downloading times are 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 phone as primary as well as turn your Bluetooth feature on and off.
1. Press the phone button to enter the phone menu
2. Scroll to System Settings. Press **OK**.
3. Scroll to Bluetooth Devices. Press **OK**.
4. Scroll to select from the following options:

<table>
<thead>
<tr>
<th>If you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Bluetooth Device*</td>
<td>See <em>Using SYNC™ With Your Phone</em> (page 329).*</td>
</tr>
</tbody>
</table>
| Connect Bluetooth Device   | Connect a previously paired Bluetooth-enabled phone.””  
                                1. Press **OK** to select and view a list of previously paired phones.  
                                2. Scroll until you find the desired device, and then press **OK** to connect the phone. |
| Set as Primary Phone       | Set a previously paired phone as your primary phone. Press **OK** to select and scroll to select the desired phone. Press **OK** to confirm.  
                                SYNC attempts to connect with the primary phone at every ignition cycle. When you select a phone as a primary phone, it appears first in the list and the system marks it with an asterisk. |
| Set Bluetooth              | Turn the Bluetooth feature on and off. Press **OK** and scroll to toggle between On and Off. Make a selection, and then press **OK**.  
                                Setting Bluetooth to off disconnects all Bluetooth devices and turns off all Bluetooth features. |
| Delete Device              | Delete a paired phone. Press **OK** and scroll to select the device. Press **OK** to confirm. |
| Delete All Devices         | Delete all previously paired phones (and all information originally saved with those phones). Press **OK** to select. |
| Return                     | Exit the current menu.                                                  |

* This is a speed-dependent feature.

**You can only connect one device at a time. When another phone is connected, the previous one is disconnected.
### Advanced

The Advanced menu allows you to access and set prompts, languages, defaults, perform a master reset, install an application and view system information.

1. Press the phone button to enter the phone menu
2. Scroll to System Settings. Press **OK**.
3. Scroll to Advanced. Press **OK**.
4. Scroll to select from the following options:

<table>
<thead>
<tr>
<th>If you select:</th>
<th>You can:</th>
</tr>
</thead>
</table>
| **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 **OK** to select and scroll to select between On and Off.  
2. Press **OK** when the desired selection appears in the display. SYNC takes you back to the Advanced menu. |
| **Languages** | Choose between English, Français and Español. Once selected, all of the radio displays and prompts are in the selected language.  
1. Press **OK** to select and then scroll through the languages.  
2. Press **OK** 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 takes you back to the Advanced menu. |
| **Factory Defaults** | Return to the factory default settings. This selection does not erase your indexed information (phonebook, call history, text messages and paired devices).  
1. Press **OK** to select and then press **OK** again when **Restore Defaults?** appears in the display.  
2. Press **OK** to confirm. |
| **Master Reset** | Completely erase all information stored on SYNC (phonebook, call history, text messages and paired devices) and return to the factory default settings. Press **OK** to select. The display indicates when complete and SYNC takes you back to the Advanced menu. |
| **Install Application?** | Install applications you have downloaded. Press **OK** and scroll to select. Press **OK** to confirm. |
| **Delete All Devices** | Delete all previously paired phones (and all information originally saved with those phones). Press **OK** to select. |
| **System Info** | Access the Auto Version number as well as the FDN number. |
**SYNC™ APPLICATIONS AND SERVICES (IF EQUIPPED)**

In order for the following features to work, your cellular phone must be compatible with SYNC. To check your phone’s compatibility, visit www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.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**

**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.

**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 you select:** | **You can:**
---|---
Press OK to select. |  
MAP Profile | This is a Bluetooth component, which can further help your phone with the exchange of text messages.  
Return | Exit the current menu.  

---
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.syncmaroute.ca.

See **Supplementary Restraints System** (page 38). Important information about airbag deployment is in this chapter.

See **Roadside Emergencies** (page 213). Important information about the fuel pump shut-off is in this chapter.

**Setting 911 Assist On**

1. Press the phone button to enter the phone menu.
2. Scroll to select 911 Assist.
3. Press OK to confirm and enter the 911 Assist menu.
4. Scroll to select between On and Off.
5. Press OK when the desired option appears in the radio display. **Set On** or **Set Off** appears in the display as confirmation.

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

**In the Event of a Crash**

Not all crashes 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 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 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

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 such as:

- 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 report (after your vehicle has been running a minimum of 60 seconds) by pressing the voice button and saying "Vehicle health report", or pressing the phone button.

To run a report using the phone button:
1. Press the phone button to enter phone menu.
2. Scroll to select Vehicle Health, and then press OK.

3. Scroll to select from the following options:

<table>
<thead>
<tr>
<th>Vehicle health report options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User Preferences:</strong> Press OK to select and enter the menu. Scroll to select from:</td>
</tr>
<tr>
<td><strong>Automatic Reports:</strong> Press OK to and select On or Off. Select On to have SYNC automatically prompt you to run a health report at certain mileage intervals.*</td>
</tr>
<tr>
<td><strong>Mileage Intervals:</strong> Press OK. Scroll to select between 5000, 7500 or 10000-mile intervals and press OK to make your selection.</td>
</tr>
<tr>
<td><strong>Return:</strong> Press OK to exit the menu.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Run Report?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press OK 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 and other field service actions and vehicle inspection items that still need servicing from an authorized dealer.</td>
</tr>
</tbody>
</table>

*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 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.

**SYNC Services: Traffic, Directions & Information (TDI)**

**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 329).

**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
1. Press the voice button.
2. When prompted, say "Services". This initiates an outgoing call to SYNC Services using your paired and connected Bluetooth-enabled cellular phone.
3. Once you connect to the service, follow the voice prompts to request the desired service, such as Traffic or Directions. You can also say, "What are my choices?" to receive a list of available services from which to choose.
4. Say, "Services" to return to the Services main menu or for help, say, "Help".

Connecting to SYNC Services Using the Phone Menu
1. Press the phone button to enter the phone menu.
2. Scroll to Services.
3. Press OK to confirm and enter the Services menu. The display indicates the system is connecting.
4. Press OK. SYNC initiates the call to the Services portal.
5. Once you connect to the service, follow the voice prompts to request the desired service, such as Traffic or Directions. You can also say, "What are my choices?" to receive a list of available services from which to choose.
6. Say, "Services" to return to the Services main menu or for help, say, "Help".

Receiving Turn-by-Turn Directions
1. When connected to SYNC Services, say "Directions" or "Business search". To find the closest business or type of business to your current location, just say "Business search" and then "Search near me". If you need further assistance in finding a location you can say "Operator" at any time within a
Directions or Business search to speak with a live operator. 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 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.

2. Follow the voice prompts to select your destination. 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.

3. While on an active route, you can select or say "Route summary" or "Route status" to view the Route Summary turn list or the Route Status ETA. You can also turn voice guidance on or off, cancel the route or update the route. If you miss a turn, SYNC automatically asks if you want the route updated. Just say, "Yes" when prompted and the system sends a new route to your vehicle.

Disconnecting from SYNC Services

1. Press and hold the phone button on the steering wheel.
2. Say "Goodbye" from the SYNC Services main menu.

### SYNC Services quick tips

| 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 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. 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. |
SYNC AppLink

Note: This feature is only available in the United States.

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. We recommend you lock your iPhone after starting an application.

Note: The AppLink feature is not available if your vehicle is equipped with the MyFord Touch or MyLincoln 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

1. Press the phone button to access the SYNC phone menu on-screen.
2. Scroll to Mobile Apps and press OK to access a list of available applications.
3. Scroll through the list of available applications and press OK to select a particular app.
4. 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.
5. Select "SYNC-Media" by pressing OK.
6. Scroll until "<App name> 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 www.SYNCMyRide.com.

To Access Using the Media Menu

1. Press the AUX button on the center console.
2. Press MENU to access the SYNC menu.
3. Select "SYNC-Media" by pressing OK.
4. Scroll to Mobile Apps and press OK to access a list of available applications.
5. Scroll through the list of available applications and press OK to select a particular app.
6. 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.
7. Select "SYNC-Media" by pressing OK.
8. Scroll until "<App name> 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 www.SYNCMyRide.com.

To Access Using Voice Commands

1. Press the voice icon.
2. When prompted, say "Mobile Apps".
3. Say the name of the application after the tone.
4. The app should start. While an app is running through SYNC, you can press the voice button and speak commands specific to the app, such as "Play Station Quickmix". Say "Help" to discover 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, such as artist and album.

SYNC is capable of hosting nearly any digital media player including: iPod®, Zune™, Plays from device players, and most USB drives. SYNC also supports audio formats, such as 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**

1. Plug the device into the USB port.
2. Press the voice icon and when prompted, say "USB".
3. You can now play music by saying any of the appropriate voice commands. See the media voice commands.

**To Connect Using the System Menu**

1. Plug the device into the USB port.
2. Press AUX and then MENU to enter the media menu.
3. Scroll to Select Source. Press OK.
4. Scroll to USB. Press OK.
5. Depending on how many digital media files are on your connected device, Indexing may appear in the radio display. When indexing is complete, the screen returns to the Play menu.

Press OK and scroll through selections of:

- Play All
- Albums
- Genres
- Playlists
- Tracks
- Explore USB
- Similar Music
- Return

**What’s Playing?**

At any time when a track is playing, you can press the voice icon and ask the system "What's playing?". The system reads the metadata tags (if populated) of the playing track to you.

**Media Voice Commands**

Press the voice icon. When prompted, say "USB", then any of the following:

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;USB&quot;</td>
</tr>
<tr>
<td>&quot;Autoplay off&quot;</td>
</tr>
<tr>
<td>&quot;Autoplay on&quot;</td>
</tr>
<tr>
<td>&quot;Connections&quot;</td>
</tr>
<tr>
<td>&quot;Pause&quot;</td>
</tr>
<tr>
<td>&quot;Play&quot;</td>
</tr>
<tr>
<td>&quot;Play album &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play all&quot;</td>
</tr>
<tr>
<td>&quot;Play artist &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play genre &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play next folder&quot;</td>
</tr>
<tr>
<td>&quot;Play next track&quot;</td>
</tr>
<tr>
<td>&quot;USB&quot;</td>
</tr>
<tr>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>&quot;Play playlist &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play previous folder&quot;</td>
</tr>
<tr>
<td>&quot;Play previous track&quot;</td>
</tr>
<tr>
<td>&quot;Play song &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play track &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Refine album &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Refine artist &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Refine song &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Refine track &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Repeat off&quot;</td>
</tr>
<tr>
<td>&quot;Repeat on&quot;</td>
</tr>
<tr>
<td>&quot;Search album &lt;name&gt;&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&quot;USB&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Search artist &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Search genre &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Search song &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Search track &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Shuffle off&quot;</td>
</tr>
<tr>
<td>&quot;Shuffle on&quot;</td>
</tr>
<tr>
<td>&quot;Similar music&quot;</td>
</tr>
<tr>
<td>&quot;What's playing?&quot;</td>
</tr>
</tbody>
</table>

1 <name> is a dynamic listing, meaning that it could be the name of anything, such as a group, artist or song.
2 This voice command is not available until indexing is complete.
3 This voice command is only available in folder mode.

**Voice command guide**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Autoplay&quot;</td>
<td>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.</td>
</tr>
<tr>
<td>&quot;Search genre&quot; or &quot;Play genre&quot;</td>
<td>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 that are present in the GENRE metadata tags that you have on your digital media player.</td>
</tr>
<tr>
<td>&quot;Similar music&quot;</td>
<td>The system compiles a playlist and then plays music similar to what is currently playing from the USB port using indexed metadata information.</td>
</tr>
</tbody>
</table>
**Voice command guide**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Search&quot; or &quot;Play&quot; artist, track or album</td>
<td>The system searches for specific artist, track or album information from the music indexed through the USB port.</td>
</tr>
<tr>
<td>&quot;Refine&quot;</td>
<td>This allows you to make your previous command more specific. For example, if you asked to search and play all music by a certain artist, you could then say, &quot;Refine album&quot; and choose a specific album from the list to view. If you then select Play, the system only plays music from that specific album.</td>
</tr>
</tbody>
</table>

*Indexing times can vary from device to device and with regard to the number of songs the system needs to process.*

Press the voice icon. When prompted, say, "Bluetooth audio", then any of the following:

<table>
<thead>
<tr>
<th><strong>&quot;BLUETOOTH AUDIO&quot;</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Connections&quot;</td>
</tr>
<tr>
<td>&quot;Pause&quot;</td>
</tr>
<tr>
<td>&quot;Play&quot;</td>
</tr>
<tr>
<td>&quot;Play next track&quot;</td>
</tr>
<tr>
<td>&quot;Play previous track&quot;</td>
</tr>
</tbody>
</table>

**Media Menu Features**

The media menu allows you to select your media source, how to play your music (such as by artist, genre, shuffle or repeat), and also to add, connect or delete devices.

1. Press **AUX** and then **MENU** to enter the media menu.
2. Scroll to cycle through:

<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play Menu</td>
<td>Play your music by artist, album, genre, playlist, track, similar music or play all music. You can also choose to Explore USB to view the supported digital music files on your playing device.</td>
</tr>
</tbody>
</table>
| Select Source | Select and play music from your USB port, auxiliary input jack (line in) or stream music from your Bluetooth-enabled phone.  
SYNC USB: Press **OK** 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.*1 |
<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth Audio:</td>
<td>This is a phone-dependent feature that allows you to stream music playing on your Bluetooth-enabled phone. If supported by your device, you can press <strong>SEEK</strong> to play the previous or next track.</td>
</tr>
<tr>
<td>SYNC Line In:</td>
<td>Press <strong>OK</strong> to select and play music from your portable music player over your vehicle’s speakers.²</td>
</tr>
<tr>
<td>Media Settings</td>
<td>Choose to shuffle or repeat your music and select your Autoplay settings. Once you turn these selections on, they remain on you turn them off. Press <strong>SEEK</strong> to play the previous or next track.³</td>
</tr>
<tr>
<td>Shuffle:</td>
<td>Press <strong>OK</strong> 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.</td>
</tr>
<tr>
<td>Repeat:</td>
<td>Press <strong>OK</strong> to repeat any song.</td>
</tr>
<tr>
<td>Autoplay:</td>
<td>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.⁴</td>
</tr>
<tr>
<td>Mobile Apps</td>
<td>Interact with SYNC-capable mobile applications on your smartphone.</td>
</tr>
</tbody>
</table>
You can:
When you select:

| System Settings | Access Bluetooth Device menu listings (Add, Connect, Set as Primary, On and Off, Delete) as well as Advanced menu listings (prompts, languages, defaults, master reset, install application and system information).
| Exit Media Menu | Press OK to exit the media menu.

1The 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.

2If 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.

3Some digital media players require both USB and line in ports to stream data and music separately.

4Indexing 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.

**Note:** If your digital media player has a power switch, make sure you switch it on before plugging it in.

1. Press AUX and then MENU to enter the media menu.
2. Scroll to Play. Press OK.

If there are no media files to access, the display indicates there is no media. If there are media files, you have the following options:

<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play All</td>
<td>Play all indexed media (tracks) from your playing device in flat file mode, one at a time in numerical order. Press OK to select. The first track title appears in the display.</td>
</tr>
<tr>
<td>Artists</td>
<td>Sort all indexed media by artist. Once selected, the system lists and then play 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.</td>
</tr>
</tbody>
</table>
### When you select: | You can:
--- | ---
1. Press **OK** to select. You can select to play All Artists or any indexed artist.  
2. Scroll to choose the desired artist. Press **OK**.  
**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 **OK** to enter the album menu and select from playing all albums or from any individual indexed album.  
2. Scroll to choose the desired album. Press **OK**.
**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 **OK** to select.  
2. Scroll to select the desired genre. Press **OK**.
**Playlists** | Access your playlists (from formats, such as .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 **OK** to select.  
2. Scroll to select the desired playlist. Press **OK**.
**Tracks** | 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 **OK** to select.  
2. Scroll to select the desired track. Press **OK**.
**Explore 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 **OK** to select.  
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.
You can: When you select: Press OK to select. The system creates a new list of similar songs and begins playing. This feature does not include tracks with incomplete metadata information.

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**

**Bluetooth Devices**

The Bluetooth Devices menu allows you to add, connect and delete a device as turn the Bluetooth feature on and off.

<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Bluetooth Device*</td>
<td>Pair more devices to the system.</td>
</tr>
<tr>
<td></td>
<td>1. Press OK to select and press OK again when Find SYNC appears in the display.</td>
</tr>
<tr>
<td></td>
<td>2. Follow the directions in your phone's manual to put your phone into discovery mode. A six-digit PIN appears in the display.</td>
</tr>
<tr>
<td></td>
<td>3. When prompted on your phone's six-digit display, enter the PIN.</td>
</tr>
<tr>
<td>Connect Bluetooth Device</td>
<td>Connect a previously paired Bluetooth-enabled device.</td>
</tr>
<tr>
<td></td>
<td>1. Press OK to select and view a list of previously paired devices.</td>
</tr>
<tr>
<td></td>
<td>2. Scroll until you find the desired device, and then press OK to connect the device.</td>
</tr>
<tr>
<td>Set Bluetooth</td>
<td>Turn the Bluetooth feature on and off.**</td>
</tr>
<tr>
<td></td>
<td>1. Press OK and scroll to toggle between On and Off.</td>
</tr>
<tr>
<td></td>
<td>2. Make a selection, and then press OK.</td>
</tr>
<tr>
<td>Delete Device</td>
<td>Delete a paired media device.</td>
</tr>
<tr>
<td></td>
<td>1. Press OK and scroll to select the device.</td>
</tr>
<tr>
<td></td>
<td>2. Press OK to confirm.</td>
</tr>
<tr>
<td>Delete All Devices</td>
<td>Delete all previously paired devices.</td>
</tr>
</tbody>
</table>

*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.

**"**Press AUX and then MENU to enter the media menu.

**"**Scroll to System Settings. Press OK.

**"**Scroll to Bluetooth Devices. Press OK.
**SYNC™**

<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press <strong>OK</strong> to select.</td>
<td></td>
</tr>
<tr>
<td>Exit the current menu.</td>
<td></td>
</tr>
</tbody>
</table>

*This is a speed-dependent feature.

**Setting Bluetooth to off disconnects all Bluetooth devices and turns off all Bluetooth features.*

**Advanced**

The Advanced menu allows you to access and set prompts, languages, defaults and perform a master reset.

1. Press **AUX** and then **MENU** to enter the media menu.
2. Scroll to System Settings. Press **OK**.
3. Scroll to Advanced. Press **OK**.

<table>
<thead>
<tr>
<th>When you select:</th>
<th>You can:</th>
</tr>
</thead>
</table>
| Prompts | Have SYNC guide you by asking questions, helpful hints or ask you for a specific action.  
1. Press **OK** to select and scroll to select between on or off.  
2. Press **OK** when the desired selection appears in the display. SYNC takes you back to the Advanced menu. |
| Languages | Choose from English, Français or Español. The displays and prompts are in the selected language.  
1. Press **OK** to select and then scroll through the languages.  
2. Press **OK** when the desired selection 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 (phonebook, call history, text messages and paired devices).  
1. Press **OK** to select.  
2. Press **OK** again when **Restore Defaults?** appears in the display.  
3. Press **OK** to confirm. |
When you select: | You can:
---|---
Master Reset | Completely erase all information stored on SYNC (all phonebook, call history, text messages and all paired devices) and return to the factory default settings.
Application | Download new software applications (if available) and then load the desired applications through your USB port. See the website for more information.
Return | Exit the current menu.

**SYNC™ TROUBLESHOOTING**

Your SYNC system is easy to use. However, should questions arise, see the tables below.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is excessive background noise during a phone call.</td>
<td>The audio control settings on your phone may be affecting SYNC performance.</td>
<td>Review your phone's manual about audio adjustments.</td>
</tr>
<tr>
<td>During a call, I can hear the other person but they cannot hear me.</td>
<td>This may be a possible phone malfunction.</td>
<td>Try turning off the device, resetting the device, removing the device's battery, then trying again.</td>
</tr>
<tr>
<td>SYNC is not able to download my phonebook.</td>
<td>· This is a phone-dependent feature. · This may be a possible phone malfunction.</td>
<td>· 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.</td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The system says Phonebook Downloaded but the phonebook in SYNC is empty or missing contacts.</td>
<td>This may be a limitation on your phone's capability.</td>
<td>· Try pushing your phonebook contacts to SYNC by using the Add Contacts feature.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· If the missing contacts are stored on your SIM card, try moving them to the device memory.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Remove any pictures or special ring tones associated with the missing contact.</td>
</tr>
<tr>
<td>I am having trouble connecting my phone to SYNC.</td>
<td>· This is a phone-dependent feature.</td>
<td>· Go to the website to review your phone's compatibility.</td>
</tr>
<tr>
<td></td>
<td>· This may be a possible phone malfunction.</td>
<td>· Try turning off the device, resetting the device or removing the device's battery, then trying again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Try deleting your device from SYNC, deleting SYNC from your device and trying again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Check the security and auto accept and prompt always settings relative to the SYNC Bluetooth connection on your phone.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Update your device's firmware.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Turn off the Auto phonebook download setting.</td>
</tr>
<tr>
<td>Text messaging is not working on SYNC.</td>
<td>· This is a phone-dependent feature.</td>
<td>· Go to the website to review your phone's compatibility.</td>
</tr>
<tr>
<td></td>
<td>· This may be a possible phone malfunction.</td>
<td>· Try turning off the device, resetting the device or removing the device's battery, then trying again.</td>
</tr>
</tbody>
</table>
### USB and media issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
</table>
| 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 properly into the device and the USB port.  
· Make sure that the device does not have an auto-install program or active security settings. |
| SYNC does not recognize my device when I turn on the car.            | This is a device limitation.                                                      | Make sure you are not leaving the device in your vehicle during very hot or cold temperatures. |
| Bluetooth audio does not stream.                                    | · This is a phone-dependent feature.  
· The device is not connected.                                           | Make sure you properly 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 proper 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

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
</table>
| 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.            |
<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I am unable to retrieve the report on the website, or I receive a</td>
<td>The preferred dealer information did not load correctly.</td>
<td>When you register your account, you must choose a preferred dealer. If it already lists a dealer, try</td>
</tr>
<tr>
<td>system error.</td>
<td></td>
<td>selecting another dealer and logging out. Log back in, change it back to your preferred dealer, and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>retrieve the report.</td>
</tr>
<tr>
<td>I am unable to submit a report.</td>
<td>· This could be due to your phone's compatibility.</td>
<td>· Update your cellular number in your account on the website.</td>
</tr>
<tr>
<td></td>
<td>· Bad signal strength.</td>
<td>· Make sure you have full signal strength and that your Bluetooth volume level has been turned up.</td>
</tr>
<tr>
<td></td>
<td>· You did not activate your phone on the website.</td>
<td>· Try deleting your phone and performing a clean pairing.</td>
</tr>
<tr>
<td>I heard a commercial when I tried to use Traffic, Directions and</td>
<td>· You did not activate this phone for this service.</td>
<td>· This is a free feature, but you must first register online to use it.</td>
</tr>
<tr>
<td>Information.</td>
<td>· Your phone has ID blocker active.</td>
<td>· Turn off ID blocker on your phone as the system recognizes you by your phone number.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Make sure the currently connected phone is the same one that is registered on your SYNCMyRide account.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Voice command issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYNC does not understand what I am saying.</td>
<td>· You may be using the wrong voice commands.</td>
<td>· Review the phone voice commands and the media voice commands at the beginning of their respective sections.</td>
</tr>
<tr>
<td></td>
<td>· You may be speaking too soon or at the wrong time.</td>
<td>· Be aware that SYNC’s microphone is either in your rear view mirror or in the headliner just above the windshield.</td>
</tr>
<tr>
<td>SYNC does not understand the name of a song or artist.</td>
<td>· You may be using the wrong voice commands.</td>
<td>· Review the media voice commands at the beginning of the media section.</td>
</tr>
<tr>
<td></td>
<td>· You may be saying the name differently than the way you saved it.</td>
<td>· Say the song or artist exactly as listed.</td>
</tr>
<tr>
<td></td>
<td>· The system may not be reading the name the same way you are saying it.</td>
<td>· If you say &quot;Play Artist Prince&quot;, the system does not play music by Prince and the Revolution or Prince and the New Power Generation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Make sure you are saying the complete title, such as &quot;California remix featuring Jennifer Nettles&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· If the song titles are in all CAPS, you have to spell them. LOLA requires you to say &quot;L-O-L-A&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· Do not use special characters in the title. The system does not recognize them.</td>
</tr>
<tr>
<td>SYNC does not understand or is calling the wrong contact when I want to make a call.</td>
<td>· You may be using the wrong voice commands.</td>
<td>· Review the Phone voice commands at the beginning of the phone section.</td>
</tr>
<tr>
<td></td>
<td>· You may be saying the name differently than the way you saved it.</td>
<td>· Make sure you are saying the contacts exactly as they are listed. For example, if you save a contact as Joe Wilson, say &quot;Call Joe Wilson&quot;.</td>
</tr>
<tr>
<td></td>
<td>· Contacts in your phonebook may be very short and similar, or they may contain special characters.</td>
<td></td>
</tr>
</tbody>
</table>
## Voice command issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Possible cause(s)</th>
<th>Possible solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Your phonebook contacts may be in CAPS.</td>
<td>· The system works better if you list full names, such as &quot;Joe Wilson&quot; rather than &quot;Joe&quot;. · 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 &quot;Call J-A-K-E&quot;.</td>
<td></td>
</tr>
</tbody>
</table>
### GENERAL INFORMATION

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
</tr>
</tbody>
</table>

- A: Phone
- B: Navigation (or Information if your vehicle is not equipped with Navigation)
- C: Climate
- D: Settings
- E: Home
- F: Information
- G: Entertainment

---

**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.
This system uses a four-corner strategy to provide quick access to several vehicle features and settings. The touchscreen provides easy interaction with your cellular phone, multimedia, climate control and navigation system. The corners display any active modes within those menus, such as phone status or the climate temperature.

**Note:** Some features are not available while your vehicle is moving.

**Note:** Your system is equipped with a feature that allows you to access and control audio features for 30 minutes after you switch the ignition off (and no doors open).

**PHONE**
Press to select any of the following:
- Phone
- Quick Dial
- Phonebook
- History
- Messaging
- Settings

**NAVIGATION**
Press to select any of the following:
- My Home
- Favorites
- Previous Destinations
- Point of Interest
- Emergency
- Street Address
- Intersection
- City Center
- Map
- Edit Route Cancel Route

**CLIMATE**
Press to select any of the following:
- Driver Settings
- Recirculated Air
- Auto
- Dual
- Passenger Settings
- A/C
- Defrost

**SETTINGS**
Press to select any of the following:
- Clock
- Display
- Sound
- Vehicle
- Settings
- Help

**HOME**
Press to access your home screen. Depending on your vehicle’s option package and software, your screens may vary in appearance from the descriptions in this section. Your features may also be limited depending on your market. Check with an authorized dealer for availability.

**INFORMATION**
Press to select any of the following:
- Services
- Travel Link
- Alerts
- Calendar
- Apps

**ENTERTAINMENT**
Press to select any of the following:
- AM
- FM
- SIRIUS
Using the Touch-Sensitive Controls on Your System

To turn a feature on and off, just touch the graphic with your finger. To get the best performance from the touch-sensitive controls:

- Do not press hard on the controls. They are sensitive to light touch.
- Use your bare finger to touch the center of a touch-control graphic. Touching off-center of the graphic may affect operation of a nearby control.
- Make sure your hands are clean and dry.
- Since the touchscreen operates based on the touch of a finger, you may have trouble using it if you are wearing gloves.
- Keep metal and other conductive material away from the surface of the touchscreen as this may cause electronic interference (for example, inadvertently turning on a feature other than the one you meant to turn on).

Depending on your vehicle and option package, you may also have these controls on your bezel:

- **Power:** Switch the media or climate features off and on.
- **VOL:** Control the volume of playing media.
- **Fan:** Control the speed of the climate system fan.
- **Seek and Tune buttons:** Use as you normally would in media modes.
- **Eject:** Eject a CD from the entertainment system.
- **SOURCE:** Touch the word repeatedly to see all available media modes. The screen does not change, but you see the media change in the lower left status bar.
- **SOUND:** Touch the word to access the Sound menu where you can adjust settings such as: Bass, Treble, Midrange, Balance and Fade, DSP (Digital Signal Processing), Occupancy Mode and Speed Compensated Volume. (Your vehicle may not have all of these sound options.)
- **Hazard flasher:** Switch the hazard flashers off and on.

Cleaning the Touchscreen Display

Use a clean, soft cloth such as one used for cleaning glasses. 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 to help you with any questions you are not able to 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 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. See an authorized dealer.
- 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 user guide for further information.
- For your safety, some SYNC functions are speed-dependent. Their use is limited to when your vehicle is traveling at speeds under 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 may be too difficult to use while your vehicle is moving so they are restricted from use unless your vehicle is stationary.

- Screens crowded with information, such as Point of Interest reviews and ratings, SIRIUS Travel Link sports scores, movie times or ski conditions.
- Any action that requires you to use a keyboard is restricted, such as entering a navigation destination or editing information.
- All lists are limited so the user can view fewer entries (such as phone contacts or recent phone call entries).

See the following chart for more specific examples.

<table>
<thead>
<tr>
<th>Restricted features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cellular Phone</strong></td>
</tr>
<tr>
<td>Pairing a Bluetooth phone</td>
</tr>
<tr>
<td>Adding phonebook contacts or uploading phonebook contacts (from a USB)</td>
</tr>
<tr>
<td>List entries are limited for phone contacts and recent phone call entries</td>
</tr>
<tr>
<td><strong>System Functionality</strong></td>
</tr>
<tr>
<td>Editing the keypad code</td>
</tr>
<tr>
<td>Enabling Valet Mode</td>
</tr>
</tbody>
</table>
Restricted features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Editing settings while the rear view camera or active park assist are active</td>
<td></td>
</tr>
<tr>
<td>Wi-Fi and Wireless</td>
<td>Editing wireless settings</td>
</tr>
<tr>
<td></td>
<td>Editing the list of wireless networks</td>
</tr>
<tr>
<td>Videos, Photos and Graphics</td>
<td>Playing video</td>
</tr>
<tr>
<td></td>
<td>Editing the screen's wallpaper or adding new wallpaper</td>
</tr>
<tr>
<td>Text Messages</td>
<td>Composing text messages</td>
</tr>
<tr>
<td></td>
<td>Viewing received text messages</td>
</tr>
<tr>
<td></td>
<td>Editing preset text messages</td>
</tr>
<tr>
<td>Navigation</td>
<td>Using the keyboard to enter a destination</td>
</tr>
<tr>
<td></td>
<td>Demo navigation route</td>
</tr>
<tr>
<td></td>
<td>Adding or editing Address Book entries or Avoid Areas</td>
</tr>
</tbody>
</table>

Privacy Information

When you connect a cellular phone to SYNC, the system creates a profile within your vehicle that links to that cellular phone. This profile helps in offering you more cellular features and operating more efficiently. Among other things, this profile may contain data about your cellular phone book, text messages (read and unread), and call history, including history of calls when your cell phone was not connected to the system. In addition, if you connect a media device, the system creates and retains an index of supported media content. The system also records a short development log of approximately 10 minutes of all recent system activity. The log profile and other system data may be used to improve the system and help diagnose any problems that may occur.

The cellular profile, media device index, and development log remain in your vehicle unless you delete them and are generally accessible only in your vehicle when the cellular phone or media player is connected. If you no longer plan to use the system or your vehicle, we recommend you perform 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 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. 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 session (such as Listening, Success, Failed, Paused or Try Again).

How to Use Voice Commands with Your System

Press the voice icon. After the tone, speak your command clearly.

<table>
<thead>
<tr>
<th>These commands can be said at any time during a voice session</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Cancel&quot;</td>
</tr>
<tr>
<td>&quot;Exit&quot;</td>
</tr>
<tr>
<td>&quot;Go back&quot;</td>
</tr>
<tr>
<td>&quot;List of commands&quot;</td>
</tr>
<tr>
<td>&quot;Main menu&quot;</td>
</tr>
<tr>
<td>&quot;Next page&quot;</td>
</tr>
<tr>
<td>&quot;Previous page&quot;</td>
</tr>
<tr>
<td>&quot;What can I say?&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

What Can I Say?

To access the available voice commands for the current session, do one of the following:

- During a voice session, press the Help icon (?) in the lower left status bar of the screen.
- Say, "What can I say?" for an on-screen listing of the possible voice commands associated with your current voice session.
- Press the voice icon. After the tone, say, "Help" to hear a list of possible voice commands.

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 icon, wait until after the tone sounds and Listening appears before saying a command. Any command spoken prior to this does not register with the system.
- Speak naturally, without long pauses between words.
- At any time, you can interrupt the system while it is speaking by pressing the voice icon.

Accessing a List of Available Commands

- If you use the touchscreen, press the Settings icon > Help > Voice Command List.
- If you use the steering wheel control, press the voice icon. After the tone, speak your command clearly.
Available voice commands

- "Audio list of commands"
- "Bluetooth audio list of commands"
- "Browse list of commands"
- "CD list of commands"
- "Climate control list of commands"
- "List of commands"
- "Navigation list of commands"
- "Phone list of commands"
- "Radio list of commands"
- "SD card list of commands"
- "Sirius satellite list of commands"
- "Travel link list of commands"
- "USB list of commands"
- "Voice instructions list of commands"
- "Voice settings list of commands"
- "Help"

* This command is only available when your vehicle is equipped with the navigation system, and the navigation system SD card is in the card slot.

** This command is only available when you have an active SIRIUS satellite radio subscription.

Voice Settings

Voice settings 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.

- **Interaction Mode:** Novice mode provides detailed interaction and guidance while the advanced mode has less audible interaction and more tone prompts.
- **Confirmation Prompts:** The system uses these short questions to confirm your voice request. If turned off, the system simply makes a best guess as to what you requested. The system may still occasionally ask you to confirm settings.
- **Phone and Media 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.

To access these settings using the touchscreen:

1. Press the Settings icon > **Settings > Voice Control**.
2. Select from:
   - Interaction Mode
   - Confirmation Prompts
   - Media Candidate Lists
   - Phone Candidate Lists
   - Voice Control Volume.

To access these settings using voice commands:

1. Press the voice icon. Wait for the prompt "Please say a command". Another tone sounds to let you know the system is listening.
2. Say any of the following commands:

<table>
<thead>
<tr>
<th>Voice settings using voice commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Confirmation prompts off&quot;</td>
</tr>
<tr>
<td>&quot;Confirmation prompts on&quot;</td>
</tr>
<tr>
<td>&quot;Interaction mode advanced&quot;</td>
</tr>
</tbody>
</table>
Voice settings using voice commands

<table>
<thead>
<tr>
<th>Voice settings using voice commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Interaction mode novice&quot;</td>
</tr>
<tr>
<td>&quot;Media candidate lists off&quot;</td>
</tr>
<tr>
<td>&quot;Media candidate lists on&quot;</td>
</tr>
<tr>
<td>&quot;Phone candidate lists off&quot;</td>
</tr>
<tr>
<td>&quot;Phone candidate lists on&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

**Using Voice Commands with the Touchscreen Options**

Your voice system has a dual mode feature which allows you to switch between using voice commands and making on-screen selections. This is available only when the system displays a list of candidates generated during a voice session. For example, when entering in a street address or trying to call a contact from the phone you paired to the system.

**SETTINGS**

A  Clock
B  Display
C  Sound
D  Vehicle
E  Settings
F  Help
Under this menu, you can set your clock, access and adjust the display, sound and vehicle settings as well as access settings for specific modes or the help feature.

Clock

**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.

1. Press the Settings icon > Clock.
2. Press + and - 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 turn the outside air temperature display off and on. It appears at the top center of the touchscreen, next to the time and date.

The system automatically saves any updates you make to the settings.

Display

You can adjust the touchscreen display through the touchscreen or by pressing the voice button on your steering wheel controls and when prompted, say, "Display settings".

Press the Settings icon > Display, to access and make adjustments using the touchscreen.

- **Brightness** allows you to make the screen display brighter or dimmer.
- **Auto DIM**, when set to On, lets you use the Auto Dim Manual Offset feature. When set to Off, screen brightness does not change.
- **Mode** allows you to set the screen to a certain brightness or have the system automatically change based on the outside light level, or turn the display off.
  - If you select **AUTO** or **NIGHT**, you have the options of turning the display’s Auto Dim feature on or off and changing the Auto Dim Manual Offset feature.
- **Auto Dim Manual Offset** allows you to adjust screen dimming as the outside lighting conditions change from day to night. This feature also allows you to adjust screen brightness using the instrument panel dimming control.
- **Edit Wallpaper**
  - You can have your touchscreen display the default photo or upload your own.

Uploading Photos for Your Home Screen Wallpaper

**Note:** You cannot load photos directly from your camera. You must access the photos 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.

Your system allows you to upload and view up to 32 photos.

To access, press the Settings icon > Display > Edit Wallpaper, and then 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
Press the Settings icon > Sound, then select from the following:

<table>
<thead>
<tr>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bass</td>
</tr>
<tr>
<td>Midrange</td>
</tr>
<tr>
<td>Treble</td>
</tr>
<tr>
<td>Set Balance and Fade</td>
</tr>
<tr>
<td>DSP*</td>
</tr>
<tr>
<td>Occupancy Mode*</td>
</tr>
<tr>
<td>Speed Compensated Volume</td>
</tr>
</tbody>
</table>

* Your vehicle may not have these sound settings.

Vehicle
Press the Settings icon > Vehicle, then select from the following:
• Vehicle Health Report
• Rear View Camera
• Enable Valet Mode.

Vehicle Health Report
Turn Automatic Reminders on and off and set the mileage interval at which you would like to receive the reports. Press ? for more information on these selections.

When done making your selections, press Run Vehicle Health Report Now if you want your report.

You can find more information on Vehicle Health Report in this chapter. See Information (page 401).

Rear View Camera
This menu allows you to access settings for your rear view camera.

Press the Settings icon > Vehicle > Rear View Camera, then select from the following settings:
• Rear Camera Delay
• Visual Park Aid Alert
• Guidelines.

You can find more information on the rear view camera in another chapter. See Rear View Camera (page 171).

Enable Valet Mode
Valet mode allows you to lock the system. No information is accessible until the system is unlocked with the correct PIN. You can create your own four-digit PIN to lock and unlock the system.

1. Press the Settings icon > Vehicle > Enable Valet Mode.
2. When prompted, enter a four-digit PIN.

After you press Continue, the system locks until you enter the PIN again.

Note: If the system locks, and you need to reset the PIN, enter 3681 and the system unlocks.
**MyFord Touch™ (If Equipped)**

**Settings**
Access and adjust system settings, voice features, as well as phone, navigation and wireless settings.

**System**
Press the Settings icon > **Settings > System**, then select from the following:

<table>
<thead>
<tr>
<th><strong>System</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>Select to have the touchscreen display in English, Spanish or French.</td>
</tr>
<tr>
<td>Distance</td>
<td>Select to display units in kilometers or miles.</td>
</tr>
<tr>
<td>Temperature</td>
<td>Select to display units in Celsius or Fahrenheit.</td>
</tr>
<tr>
<td>System Prompt Volume</td>
<td>Adjust the volume of voice prompts from the system.</td>
</tr>
<tr>
<td>Touch Screen Button Beep</td>
<td>Select to have the system beep to confirm choices made through the touchscreen.</td>
</tr>
<tr>
<td>Touch Panel Button Beep</td>
<td>Select to have the system beep to confirm button choices made through the climate or audio system.</td>
</tr>
<tr>
<td>Keyboard Layout</td>
<td>Have the touchscreen keyboard display in QWERTY or ABC format.</td>
</tr>
<tr>
<td>Install Applications</td>
<td>Install any downloaded applications or view the current software licenses.</td>
</tr>
<tr>
<td>Master Reset</td>
<td>Select to restore factory defaults. This erases all personal settings and personal data.</td>
</tr>
</tbody>
</table>

**Voice Control**
Press the Settings icon > **Settings > Voice Control**, then select from the following:
Voice control

<table>
<thead>
<tr>
<th>Interaction Mode</th>
<th>Standard interaction mode provides more detailed interaction and guidance. Advanced mode has less audible interaction and more tone prompts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmation Prompts</td>
<td>Have the system ask you short questions if it has not clearly heard or understood your request.*</td>
</tr>
<tr>
<td>Media Candidate Lists</td>
<td>Candidate lists are possible results from your voice commands. The system simply makes a best guess at your request with these turned off.</td>
</tr>
<tr>
<td>Phone Candidate Lists</td>
<td>Candidate lists are possible results from your voice commands. The system simply makes a best guess at your request with these turned off.</td>
</tr>
<tr>
<td>Voice Control Volume</td>
<td>This allows you to adjust the system’s voice volume level.</td>
</tr>
</tbody>
</table>

* Even with confirmation prompts turned off, the system may occasionally ask you to confirm settings

Media Player

Press the Settings icon > Settings > Media Player, then select from the following:

<table>
<thead>
<tr>
<th>Media player</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoplay</td>
</tr>
<tr>
<td>Bluetooth Devices</td>
</tr>
<tr>
<td>Index Bluetooth Audio Devices</td>
</tr>
</tbody>
</table>
Media player

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gracenote Database Info</td>
<td>This allows you to view the version level of the Gracenote Database.</td>
</tr>
<tr>
<td>Gracenote Mgmt</td>
<td>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.</td>
</tr>
<tr>
<td>Cover Art Priority</td>
<td>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.</td>
</tr>
</tbody>
</table>

Navigation

Press the Settings icon > Settings > Navigation, then select from the following:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation</td>
<td></td>
</tr>
<tr>
<td>Map Preferences</td>
<td>Turn breadcrumbs on and off.</td>
</tr>
<tr>
<td></td>
<td>Have the system display your turn list top to bottom or bottom to top.</td>
</tr>
<tr>
<td></td>
<td>Turn the Parking POI notification on and off.</td>
</tr>
<tr>
<td>Route Preferences</td>
<td>Choose to have the system display the Shortest, Fastest or most Ecological route first. If you set <strong>Always Use Preferred Route to Yes</strong>, the system uses the selected route type to calculate only one route to the desired destination. <strong>Always Use Preferred Route</strong> bypasses route selection in destination programming. The system only calculates one route based on the preferred route setting. <strong>Eco Time Penalty</strong> allows you to select a low, medium or high cost for the calculated Eco Route. The higher the setting, the longer the time allotment is for the route.</td>
</tr>
<tr>
<td></td>
<td>Have the system avoid freeways.</td>
</tr>
<tr>
<td></td>
<td>Have the system avoid tollroads.</td>
</tr>
<tr>
<td></td>
<td>Have the system avoid ferries or car trains.</td>
</tr>
<tr>
<td></td>
<td>Have the system use HOV (high-occupancy vehicle) lanes.</td>
</tr>
<tr>
<td>Navigation Preferences</td>
<td>Have the system use guidance prompts.</td>
</tr>
</tbody>
</table>

373
# MyFord Touch™ (If Equipped)

## Navigation

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have the system automatically fill-in State/Province information.</td>
<td>Have the system automatically fill-in State/Province information.</td>
</tr>
<tr>
<td>Traffic Preferences</td>
<td>Have the system display areas where roadwork occurs.</td>
</tr>
<tr>
<td></td>
<td>Have the system display incident icons.</td>
</tr>
<tr>
<td></td>
<td>Have the system display areas where difficult driving conditions may occur.</td>
</tr>
<tr>
<td></td>
<td>Have the system display areas where snow and ice on the road may occur.</td>
</tr>
<tr>
<td></td>
<td>Have the system display any smog alerts.</td>
</tr>
<tr>
<td></td>
<td>Have the system display weather warnings.</td>
</tr>
<tr>
<td></td>
<td>Have the system display where there may be reduced visibility.</td>
</tr>
<tr>
<td></td>
<td>Have the system turn on your radio for traffic announcements.</td>
</tr>
<tr>
<td>Avoid Areas</td>
<td>Enter specific areas that you would like to avoid on planned navigation routes.</td>
</tr>
</tbody>
</table>

## Phone

Press the Settings icon > **Settings > Phone**, then select from the following:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth Devices</td>
<td>Connect, disconnect, add or delete a device, as well as save it as a favorite.</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Turn Bluetooth on and off.</td>
</tr>
<tr>
<td>Do Not Disturb</td>
<td>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.</td>
</tr>
<tr>
<td>911 Assist</td>
<td>Turn on or turn off the 911 Assist feature. See <strong>Information</strong> (page 401).</td>
</tr>
</tbody>
</table>
### Phone

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phone Ringer</strong></td>
<td>Select the type of notification for phone calls - ring tone, beep, text to speech, or have it be silent.</td>
</tr>
<tr>
<td><strong>Text Message Notification</strong></td>
<td>Select the type of notification for text messages - alert tone, beep, text to speech, or have it be silent.</td>
</tr>
<tr>
<td><strong>Internet Data Connection</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Manage Phonebook</strong></td>
<td>Access features, such as automatic phonebook download, re-download your phonebook, add contacts from your phone as well as delete or upload your phonebook.</td>
</tr>
<tr>
<td><strong>Roaming Warning</strong></td>
<td>Have the system alert you when in Roaming mode.</td>
</tr>
</tbody>
</table>

### Wireless & 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 gain access the internet if you have a USB mobile broadband connection inside your vehicle, your phone supports personal area networking and if you park outside a wireless hotspot.

Press the Settings icon > **Settings > Wireless & Internet**, then select from the following:
<table>
<thead>
<tr>
<th><strong>Wi-fi</strong></th>
<th></th>
</tr>
</thead>
</table>
| **Wi-Fi Settings** | **Wi-Fi Network (Client) Mode** turns the Wi-Fi feature on and off in your vehicle. Make sure you turn 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) Device List** allows you to view recent connections to your Wi-Fi system. |
| **USB Mobile Broadband** | Instead of using Wi-Fi, your system can also use a USB mobile broadband connection to access the internet. (You must turn 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 and 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. |
**MyFord Touch™ (If Equipped)**

The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance.

**Help**

Press the Settings icon > Help, then select from the following:

<table>
<thead>
<tr>
<th>Help</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where Am I?</td>
<td>View your vehicle's current location, if your vehicle is equipped with navigation. If your vehicle is not equipped with navigation, you do not see this button.</td>
</tr>
<tr>
<td>System Information</td>
<td>Touchscreen system serial number</td>
</tr>
<tr>
<td></td>
<td>Your vehicle identification number (VIN)</td>
</tr>
<tr>
<td></td>
<td>Touchscreen system software version</td>
</tr>
<tr>
<td></td>
<td>Navigation system version</td>
</tr>
<tr>
<td></td>
<td>Map database version</td>
</tr>
<tr>
<td></td>
<td>Sirius satellite radio ESN</td>
</tr>
<tr>
<td></td>
<td>Gracenote Database Information and Library version</td>
</tr>
<tr>
<td>Software Licenses</td>
<td>View the licenses for any software and applications installed on your system.</td>
</tr>
<tr>
<td>Driving Restrictions</td>
<td>Certain features are not accessible when your vehicle is moving.</td>
</tr>
<tr>
<td>911 Assist</td>
<td>Turn on and turn off the 911 Assist feature. See Information (page 401).</td>
</tr>
<tr>
<td></td>
<td><strong>In Case of Emergency (ICE) Quick Dial:</strong> allows you to save up to two numbers as ICE contacts for quick access if there is an emergency. Select Edit to access your phonebook and then select the desired contacts. The numbers then appear as options on this screen for the ICE 1 and ICE 2 buttons. The ICE contacts you select appear at the end of the 911 Assist call process.</td>
</tr>
<tr>
<td>Voice Command List</td>
<td>View categorized lists of voice commands.</td>
</tr>
</tbody>
</table>
To access Help using the voice commands, press the voice button, then, after the tone, say "Help". The system provides allowable voice commands for the current mode.

**ENTERTAINMENT**

To access Help using the voice commands, press the voice button, then, after the tone, say "Help". The system provides allowable voice commands for the current mode.

![Diagram of MyFord Touch™ interface]

- **A**: AM 1 and AM AST
- **B**: FM 1, FM 2 and FM AST
- **C**: SIRIUS
- **D**: CD
- **E**: USB
- **F**: Touch this button to scroll down for more options, such as SD Card, BT Stereo and A/V In
- **G**: These buttons change with the media mode you are in.
- **H**: Radio memory presets and CD controls.

**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.

**Browsing Device Content**

When listening to audio on a device, you can browse through other devices without having to change sources. For example, if you are currently listening to audio on an SD card, you can browse all the artists that are stored on your USB device.
Press the voice icon on the steering wheel. When prompted, you can say:

"BROWSE" within devices

"Browse"

"Browse <league> games"

"Browse <Sirius category> channels"

"Browse SD card"

"Browse Sirius channel guide"

"Browse USB"

"Help"

* If you only say, "Browse", you can then say any commands in the following chart.

**This command is only usable if you have an active subscription to SIRIUS satellite radio.

Your voice system allows you to change audio sources with a simple voice command. For example, if you are listening to music on a USB device, then want to switch to a satellite radio channel, simply press the voice button on the steering wheel controls and say the name of the SIRIUS station (such as, "the Highway"). The following voice commands are available at the top level of the voice session no matter which current audio source you are listening to (such as a USB device or SIRIUS satellite radio).

**Note:** *This is only available when your MyFord Touch system language is set to North American English.*

Sample commands

"<87.9-107.9>"

"<530-1710>"

"<Channel name>"

"AM <530-1710>"

"FM <87.9-107.9>"

"Play [album] <name>"

"Play [artist] <name>"

"Play [genre] <name>"

"Play [playlist] <name>"

"Play [song] <name>"

"Play <name>"

"Play <name (song or album) > by <artist name>"

* This command is only usable if you have an active subscription to SIRIUS satellite radio.

** For more commands in SD card or USB mode, see the "SD Card and USB Port" section of this chapter.
Sample commands

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Sirius &lt;0-223&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sports games&quot;</td>
</tr>
</tbody>
</table>

* This command is only usable if you have an active subscription to SIRIUS satellite radio.

** The commands that have [ ] around the word means that the word is optional. For example, if you say, "Play Metallica", this is the same as the voice command, "Play [artist] <name>".

Options

Sound Settings

Touch this button to adjust settings for:

- Bass
- Midrange
- Treble
- Balance and Fade
- DSP (Digital Signal processing)
- Occupancy Mode
- Speed Compensated Volume.

Note: Your vehicle may not have all these sound settings.

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, TAG appears on-screen when HD Radio is active. You can touch TAG 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.
**Direct Tune**

Touch this button to manually enter the desired station number. Touch **Enter** when you are done.

**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](http://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:

![HD Radio Logo](image)

The HD Radio logo blinks when acquiring a digital station and stays solid 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:

1. Press **AM** or **FM** > **Options** > **TAG Button** > **On**.
2. When you hear a song you like, touch **TAG**.
3. The system automatically saves the song's information and 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.
4. 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](http://www.SYNCMyRide.com), [www.SYNCMyRide.ca](http://www.SYNCMyRide.ca) or [www.syncmaroute.ca](http://www.syncmaroute.ca).
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

<table>
<thead>
<tr>
<th>Potential reception issues</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reception area</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Station blending</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Issues</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Echo, stutter, skip or repeat in audio. Increase or decrease in audio volume.</td>
<td>This is poor time alignment by the radio broadcaster.</td>
<td>No action required. This is a broadcast issue.</td>
</tr>
<tr>
<td>Sound fading or blending in and out.</td>
<td>The radio is shifting between analog and digital audio.</td>
<td>No action required. The reception issue may clear up as you continue to drive.</td>
</tr>
<tr>
<td>There is an audio mute delay when selecting HD2 or HD3, multicast preset or Direct Tune.</td>
<td>The digital multicast is not available until the HD Radio broadcast is decoded. Once decoded, the audio is available.</td>
<td>No action required. This is normal behavior. Wait until the audio is available.</td>
</tr>
<tr>
<td>Cannot access HD2 or HD3 multicast channel when recalling a preset or from a direct tune.</td>
<td>The previously stored multicast preset or direct tune is not available in your current reception area.</td>
<td>No action required. The station is not available in your current location.</td>
</tr>
<tr>
<td>Text information does not match currently playing audio.</td>
<td>Data service issue by the radio broadcaster.</td>
<td>Fill out the station issue form at website listed below.*</td>
</tr>
<tr>
<td>There is no text information shown for currently selected frequency.</td>
<td>Data service issue by the radio broadcaster.</td>
<td>Fill out the station issue form at website listed below.*</td>
</tr>
<tr>
<td>HD2-HD7 stations not found when Scan is pressed.</td>
<td>Pressing Scan disables HD2-HD7 channel search.</td>
<td>No action required. This is normal behavior.</td>
</tr>
</tbody>
</table>


---

**Radio Voice Commands**

If you are listening to the radio, press the voice button on the steering wheel controls. When prompted, say any of the following commands.

If you are not listening to the radio, press the voice button and, after the tone, say "Radio", then any of the following commands.

---

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.
<table>
<thead>
<tr>
<th>&quot;RADIO&quot;</th>
<th>&quot;RADIO&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;87.9-107.9&gt;&quot;</td>
<td>&quot;Tune&quot;&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>&quot;&lt;87.9-107.9&gt; HD&quot;&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&quot;Help&quot;</td>
</tr>
<tr>
<td>&quot;&lt;530-1710&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;AM&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;AM &lt;530-1710&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;AM autoset&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;AM autoset preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;AM preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Browse&quot;&lt;sup&gt;2&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM &lt;87.9-107.9&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM &lt;87.9-107.9&gt; HD &lt;#&gt;&quot;&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM autoset&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM autoset preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM 1&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM 1 preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM 2&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;FM 2 preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;HD &lt;#&gt;&quot;&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>&quot;Preset &lt;#&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Radio off&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Radio on&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Set PTY&quot;</td>
<td></td>
</tr>
</tbody>
</table>

1 If available.
2 If you have said "Browse", see the "Browse" chart later in this section.
3 If you have said "Tune", see the following "Tune" chart.
**MyFord Touch™ (If Equipped)**

| "TUNE" |
| "HD <#>" |
| "Preset <#>" |
| "Help" |

* If available.

**SIRIUS® Satellite Radio (If Activated)**

Press the lower left corner of the touchscreen, and then select the **SIRIUS** tab.

**Memory 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.

**ALERT**

Save the current song, artist, or team as a favorite. The system alerts you when it plays again on any channel.

**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 **Replay** to return to live audio if you have been using the feature to replay audio.

**Scan**

Touch this button to hear a brief sampling of channels.

**Options**

Touch this button to view and adjust various media settings.

**Sound Settings**

Touch this button to adjust settings for:
- Bass
- Midrange
- Treble
- Balance and Fade
- DSP (Digital Signal processing)
- Occupancy Mode
- Speed Compensated Volume.

**Note:** Your vehicle may not have all these sound settings.

**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 to select Artists, Titles and Teams that you would like the system to alert you to when they are playing on other channels. Press Edit Alerts to delete or turn off alerts. You can also set all alerts to on or off. When an alert appears on the screen, you can choose to
Tune to the channel, to Cancel the alert or to Disable Alerts. If you are listening to a sporting event, you can save your favorite teams so that the system can alert you when they are playing on a satellite radio channel.

**Note:** SIRIUS does not support the Alert feature on all channels. Ford Motor Company shall not be responsible for Alert feature variation.

**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 Enter when you are done.

**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.

Touch Skip if you want to skip this channel.

Touch Lock if you do not want anyone to listen to this channel.

Touch Title or Artist to see song and artists on other stations.

**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:XXXXXXXXXXXX). To access your ESN, touch the bottom left corner of the touchscreen. Touch SIRIUS > Options.
## SIRIUS Satellite Radio Reception Factors and Troubleshooting

### Potential reception issues

<table>
<thead>
<tr>
<th>Antenna obstructions</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terrain</td>
<td>Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.</td>
</tr>
<tr>
<td>Station overload</td>
<td>When you pass a ground-based broadcast-repeating tower, a stronger signal may overtake a weaker one and the audio system may mute.</td>
</tr>
<tr>
<td>Satellite radio signal interference</td>
<td>Your display may show ACQUIRING... to indicate the interference and the audio system may mute.</td>
</tr>
</tbody>
</table>

### Troubleshooting tips

<table>
<thead>
<tr>
<th>Radio display</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquiring...</td>
<td>Radio requires more than two seconds to produce audio for the selected channel.</td>
<td>No action required. This message should disappear shortly.</td>
</tr>
<tr>
<td>Sat Fault/SIRIUS System Failure.</td>
<td>There is an internal module or system failure present.</td>
<td>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.</td>
</tr>
<tr>
<td>Invalid Channel.</td>
<td>The channel is no longer available.</td>
<td>Tune to another channel or choose another preset.</td>
</tr>
<tr>
<td>Unsubscribed Channel.</td>
<td>Your subscription does not include this channel.</td>
<td>Contact SIRIUS at 1-888-539-7474 to subscribe to the channel, or tune to another channel.</td>
</tr>
<tr>
<td>No Signal.</td>
<td>The signal is lost from the SIRIUS satellite or SIRIUS tower to your vehicle antenna.</td>
<td>The signal is blocked. When you move into an open area, the signal should return.</td>
</tr>
</tbody>
</table>
**Troubleshooting tips**

<table>
<thead>
<tr>
<th>Radio display</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updating.</td>
<td>Update of channel programming in progress.</td>
<td>No action required. The process may take up to three minutes.</td>
</tr>
<tr>
<td>Call SIRIUS</td>
<td>Your satellite service is no longer available.</td>
<td>Contact SIRIUS at 1-888-539-7474 to resolve subscription issues.</td>
</tr>
<tr>
<td>None found.</td>
<td>All the channels in the selected category are either skipped or locked.</td>
<td>Use the channel guide to turn off the Lock or Skip function on that station.</td>
</tr>
<tr>
<td>Subscription Updated.</td>
<td>SIRIUS has updated the channels available for your vehicle.</td>
<td>No action required.</td>
</tr>
</tbody>
</table>

**SIRIUS Satellite Radio Voice Commands**

If you are listening to SIRIUS satellite radio, press the voice button on the steering wheel controls. When prompted, say any of the following commands.

If you are not listening to SIRIUS satellite radio, press the voice button and, after the tone, say "SIRIUS", then any of the following commands.

<table>
<thead>
<tr>
<th>&quot;SIRIUS&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;Channel name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT&quot;</td>
</tr>
<tr>
<td>&quot;SAT preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1 Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius &lt;0-223&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius off&quot;</td>
</tr>
<tr>
<td>&quot;Sirius on&quot;</td>
</tr>
<tr>
<td>&quot;Sports game&quot;</td>
</tr>
<tr>
<td>&quot;Tune&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* If you have said "Sports game", see the following "Sports game" chart.

**"Sports game"**

<table>
<thead>
<tr>
<th>&quot;Sports game&quot; chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;Channel name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT&quot;</td>
</tr>
<tr>
<td>&quot;SAT preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1 Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius &lt;0-223&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius off&quot;</td>
</tr>
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<td>&quot;Sirius on&quot;</td>
</tr>
<tr>
<td>&quot;Sports game&quot;</td>
</tr>
<tr>
<td>&quot;Tune&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* If you have said "Sports game", see the following "Sports game" chart.

"Tune" chart

<table>
<thead>
<tr>
<th>&quot;Tune&quot; chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;Channel name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT&quot;</td>
</tr>
<tr>
<td>&quot;SAT preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1 Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius &lt;0-223&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius off&quot;</td>
</tr>
<tr>
<td>&quot;Sirius on&quot;</td>
</tr>
<tr>
<td>&quot;Sports game&quot;</td>
</tr>
<tr>
<td>&quot;Tune&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* If you have said "Tune", see the following "Tune" chart.
**MyFord Touch™ (If Equipped)**

<table>
<thead>
<tr>
<th><strong>SPORTS GAME</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Tune to the &lt;college name&gt; game&quot;</td>
</tr>
<tr>
<td>&quot;Tune to the &lt;team city&gt; game&quot;</td>
</tr>
<tr>
<td>&quot;Tune to the &lt;team city&gt; &lt;team name&gt; game&quot;</td>
</tr>
<tr>
<td>&quot;Tune to the &lt;team name&gt; game&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TUNE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;Channel Name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1&quot;</td>
</tr>
<tr>
<td>&quot;SAT 1 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2&quot;</td>
</tr>
<tr>
<td>&quot;SAT 2 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3&quot;</td>
</tr>
<tr>
<td>&quot;SAT 3 preset &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Sirius &lt;0-223&gt;&quot;</td>
</tr>
</tbody>
</table>

**CD**

Press the lower left corner of the touchscreen, and then select the **CD** tab.

You can also advance and reverse the current track or current folder, if applicable.

**Repeat**

Touch this button to repeat the currently playing track, all tracks on the disc or turn the feature off if already on.

**Shuffle**

Touch this button to play the tracks or entire albums in random order, or turn 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.

**Options**

**Sound Settings**

Touch this button to adjust settings for:
- Bass
- Midrange
- Treble
- Balance and Fade
- DSP (Digital Signal processing)
- Occupancy Mode
- Speed Compensated Volume.

**Note:** Your vehicle may not have all these sound settings.

**Compression**

Touch this button to turn the compression feature on and off.

**Browse**

Touch this button to look through all available CD tracks.

**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 "CD", then any of the following commands.
### MyFord Touch™ (If Equipped)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;CD&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Pause&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Play&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Play next track&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Play previous track&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Play track &lt;1-512&gt;&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Repeat&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Repeat folder&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Repeat off&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Repeat track&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Shuffle&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Shuffle CD&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Shuffle folder&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Shuffle off&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*This applies to WMA or MP3 files only.

### SD Card Slot and USB Port

#### 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 412).

E142619
The SD card slot is located either in the center console or behind a small access door in the instrument panel. To access and play music from your device, press the lower left corner of the touchscreen.

SD logo is a trademark of SD-3C, LLC.

#### USB Port

E142620
The USB ports are located either in the center console or behind a small access door in the instrument panel. To access and play music from your device, press the lower left corner of the touchscreen.

E142621
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.

In order to playback video from your iPod or iPhone, you must have a special combination USB/RCA composite video cable (which you can buy from Apple). When you connect the cable to your iPod or iPhone, plug the other end into both the RCA jacks and the USB port.

**Playing Music from Your Device**

Insert your device and select the SD Card or USB tab once the system recognizes it. You can then 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 such as current track, artist name, album and genre.

**Options**
Touch this button to view and adjust various media settings.

**Sound Settings** allows you to adjust settings for:
- Bass
- Midrange
- Treble
- Balance and Fade
- DSP (Digital Signal processing)
- Occupancy Mode
- Speed Compensated Volume.

**Note:** Your vehicle may not have all these sound settings.

**Media Player Settings** allows you to select more settings, which is under Media Player. See **Settings** (page 368).

**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 (such as adding or removing tracks) to make sure you have the latest voice commands available for all media on the device.

**Browse**
This feature allows you to view the contents of the device. It also allows you to search by categories, such as genre, artist or album.

If you want to view song information such as Title, Artist, File, Folder, Album, and Genre, touch the on-screen album art.

You can also touch **What's Playing** to hear how the system pronounces the current band and song. This can be helpful when using voice commands to make sure the system correctly plays your request.

**Playing Video from Your Device**

To access and play video from your device, your vehicle’s transmission must be in position P with the ignition in accessory mode. See **Starting and Stopping the Engine** (page 133).
SD Card and USB Voice Commands

If you are listening to a USB device or an SD card, press the voice button on the steering wheel controls. When prompted, say any of the following commands.

If you are not listening to a USB device or an SD card, press the voice button and, after the tone, say "USB" or "SD card", then any of the following commands.

<table>
<thead>
<tr>
<th>&quot;USB&quot; or &quot;SD CARD&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Browse&quot;*</td>
</tr>
<tr>
<td>&quot;Next&quot;</td>
</tr>
<tr>
<td>&quot;Pause&quot;</td>
</tr>
<tr>
<td>&quot;Play&quot;</td>
</tr>
<tr>
<td>&quot;Play album &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play all&quot;</td>
</tr>
<tr>
<td>&quot;Play artist &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play audiobook &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play author &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play composer &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play folder &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play genre &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play movie &lt;name&gt;&quot;**</td>
</tr>
<tr>
<td>&quot;Play music video &lt;name&gt;&quot;**</td>
</tr>
<tr>
<td>&quot;Play playlist &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play podcast &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play podcast episode &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play similar music&quot;</td>
</tr>
<tr>
<td>&quot;Play song &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Play TV show &lt;name&gt;&quot;***</td>
</tr>
<tr>
<td>&quot;Play TV show episode &lt;name&gt;&quot;***</td>
</tr>
<tr>
<td>&quot;Play video &lt;name&gt;&quot;***</td>
</tr>
<tr>
<td>&quot;Play video podcast &lt;name&gt;&quot;***</td>
</tr>
<tr>
<td>&quot;Play video podcast episode &lt;name&gt;&quot;***</td>
</tr>
<tr>
<td>&quot;Play video playlist &lt;name&gt;&quot;***</td>
</tr>
<tr>
<td>&quot;Previous&quot;</td>
</tr>
<tr>
<td>&quot;Repeat all&quot;</td>
</tr>
<tr>
<td>&quot;Repeat off&quot;</td>
</tr>
<tr>
<td>&quot;Repeat one&quot;</td>
</tr>
<tr>
<td>&quot;Shuffle&quot;</td>
</tr>
<tr>
<td>&quot;Shuffle album&quot;</td>
</tr>
<tr>
<td>&quot;Shuffle off&quot;</td>
</tr>
<tr>
<td>&quot;What's this?&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* These commands are only available in USB mode and are device-dependent.

If you have said you would like to browse your USB or SD card, the system prompts you to specify what you would like to browse. When prompted, see the following "Browse" chart.

** These commands are only available in USB mode and are device-dependent.

<table>
<thead>
<tr>
<th>&quot;BROWSE&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Album &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;All albums&quot;</td>
</tr>
<tr>
<td>&quot;All artists&quot;</td>
</tr>
<tr>
<td>&quot;All audiobooks&quot;</td>
</tr>
</tbody>
</table>
This command is only available in USB mode and is device-dependent.

**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.

In order to playback video from your iPod or iPhone, you must have a special combination USB/RCA composite video cable (which you can buy from Apple). When you connect the cable to your iPod or iPhone, plug the other end into both the RCA jacks and the USB port.

**Bluetooth Audio**

Your system allows you to stream audio over your vehicle's speakers from your connected, Bluetooth-enabled cellular phone.

To access, press the lower left corner on the touchscreen, then select the **BT Stereo** tab.
Bluetooth Audio Voice Commands

If you are listening to a Bluetooth audio device, press the voice button on the steering wheel control. When prompted, say "Next song", "Pause", "Play" or "Previous song".

If you are not listening to a Bluetooth audio device, press the voice button and, after the tone, say "Next song", "Pause", "Play" or "Previous song".

A/V Inputs

WARNINGS

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.

For safety reasons, do not connect or adjust the settings on your portable music player while your vehicle is moving.

Store the portable music player in a secure location, such as the center console or the glove box, when your vehicle is moving. Hard objects may become projectiles in a crash or sudden stop, which may increase the risk of serious injury. The audio extension cable must be long enough to allow the portable music player to be safely stored while your vehicle is moving.

Your A/V inputs allow you to connect an auxiliary audio/video source (such as a gaming system or a personal camcorder) by connecting RCA cords (not included) to these input jacks. The jacks are yellow, red and white and are located either behind a small access door on the instrument panel or in your center console.

You can also use the A/V inputs as an auxiliary input jack to play music from your portable music player over your vehicle’s speakers. Plug in your 1/8 inch (3.5 millimeter) RCA adapter into the two left A/V input jacks (red and white).

Press the lower left corner of the touchscreen, and then select A/V In.

To use the auxiliary input jack feature, make sure that your portable music player is designed for use with headphones and that it is fully charged. You also need an audio extension cable with stereo male 1/8-inch (3.5 millimeter) connectors at one end and a RCA jack at the other.

1. Switch off the engine, radio and portable music player. Set the parking brake and put the transmission in position P.

2. Attach one end of the audio extension cable to the headphone output of your player and the other end into the adapter in one of the two left A/V input jacks (white or red) inside the center console.
3. Press the lower left corner on the touchscreen. Select either a tuned FM station or a CD (if there is a CD already loaded into the system).

4. Adjust the volume as desired.

5. Turn the portable music player on and adjust the volume to ½ the maximum.

6. Press the lower left corner on the touchscreen. Select the **A/V In** tab. (You should hear audio from your portable music player although it may be low.)

7. Adjust the sound on your portable music player until it reaches the level of the FM station or CD by switching back and forth between the controls.

In order to playback video from your iPod or iPhone, you must have a special combination USB/RCA composite video cable (which you can buy from Apple). When you connect the cable to your iPod or iPhone, plug the other end into both the RCA jacks and the USB port.

### Troubleshooting

- Do not connect the audio input jack to a line level output. The jack only works correctly with devices that have a headphone output with a volume control.
- Do not set the portable music player's volume level higher than is necessary to match the volume of the CD or FM radio as this causes distortion and reduces sound quality.
- If the music sounds distorted at lower listening levels, turn the portable music player volume down. If the problem persists, replace or recharge the batteries in the portable media player.
- Control the portable media player in the same manner when used with headphones, as the auxiliary input jack does not provide control (such as Play or Pause) over the attached portable media player.
Hands-free calling is one of the main features of SYNC. Once you pair your 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 cellular phone's functionality.

At a minimum, most cellular phones with Bluetooth wireless technology support the following functions:

- Answering an incoming call
- Ending a call
- Using privacy mode
- Dialing a number
- Redialing
- Call waiting notification
- Caller ID.

Other features, such as text messaging using Bluetooth and automatic phonebook download, are phone-dependent features. To check your phone's compatibility, see your phone’s user manual and visit www.SYNCMyRide.com, www.SYNCMyRide.ca or www.syncmaroute.ca.

### Pairing Your Phone for the First Time

**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.

The first thing you must do to use the phone features of SYNC is to pair your Bluetooth-enabled cellular phone with SYNC. This allows you to use your phone in a hands-free manner.

**Note:** Put the transmission in position P. Turn on your vehicle ignition and the radio.

1. Touch **Add Phone** in the upper left corner of the touchscreen. Find **SYNC** appears on the screen, and instructs you to begin the pairing process from your device.

2. Make sure that Bluetooth is set to **On** and that your cellular phone is in the proper mode. See your phone’s manual if necessary.
Note: Select SYNC, and a six-digit PIN appears on your device.

3. If 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.

4. When prompted on your phone’s display, confirm that the PIN provided by SYNC matches the PIN displayed on your cellular phone.

5. The display indicates when the pairing is successful.

SYNC may prompt you with more phone options. For more information on your phone's capability, see your phone’s manual and visit the website.

Making Calls

Press the voice button on your steering wheel controls. When prompted, say, "Call <name>" or say "Dial!", then the desired number.

To end the call or exit phone mode, press and hold the phone button.

Receiving Calls

During an incoming call, an audible tone sounds. Call information appears in the display if it is available.

Accept the call by pressing Accept on the touchscreen or by pressing the phone button on your steering wheel controls.

Reject the call by pressing Reject on the touchscreen or by pressing and holding the phone button on your steering wheel controls.

Ignore the call by doing nothing. SYNC logs it as a missed call.

Phone Menu Options

Press the top left corner on your touchscreen to select from the following options:

Phone

Touch this button to access the on-screen numerical pad to enter a number and place a call. During an active call, you can also choose to:

• Mute the call
• Put the call on hold
• Turn on the privacy feature

Pairing Subsequent Phones

Note: Put the transmission in position P. Turn on your vehicle ignition and the radio.

1. Press the Phone corner of the touchscreen > Settings > BT Devices > Add Device.

2. Make sure that Bluetooth is set to On and that your cellular phone is in the proper mode. See your phone’s manual if necessary.

Note: Select SYNC, and a six-digit PIN appears on your device.

3. If 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.

4. When prompted on your phone’s display, confirm that the PIN provided by SYNC matches the PIN displayed on your cellular phone.

5. The display indicates when the pairing is successful.

MyFord Touch™ (If Equipped)
• Join two calls
• End the call.

Quick Dial
Set up favorite contacts from your phonebook or history folder.

Phonebook
Touch this button to access and call any contacts in your previously downloaded phone book. The system places the entries in alphabetical categories summarized at the top of the screen.

To turn on contact picture settings, if your device supports this feature, press Phone > Settings > Manage Phonebook > Download photos from Phonebook > On.

History
After you connect your Bluetooth-enabled phone to SYNC, you can access any previously dialed, received or missed calls. You can also choose to save these to your Favorites or to Quick Dial.

Note: This is a phone-dependent feature. If your phone does not support downloading call history using Bluetooth, SYNC keeps track of calls made with the SYNC system.

Messaging
Send text messages using your touchscreen. See Text messaging later in this section.

Settings
Touch this button to access various phone settings, such as turning Bluetooth on and off, managing your phonebook and more. See Phone settings later in this section.

Text Messaging
Note: Downloading and sending text messages using Bluetooth are 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 phone.

SYNC gives you the ability to send and receive text messages using Bluetooth, read them aloud and translate text messaging acronyms, such as LOL.

1. Touch the top left corner of the display to access the Phone menu.
2. Select Messaging.
3. Choose from the following:
   • Listen (speaker icon)
   • Dial
   • Send Text
   • View
   • Delete.

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 phone-dependent features.

1. Touch the top left corner of the display to access the Phone menu.
2. Touch Messaging > Send Text.
3. Enter a phone number or choose from your phonebook.
4. You can select from the following options:
MyFord Touch™ (If Equipped)

- **Send**, which sends the message as it is.
- **Edit Text**, which allows you to customize the pre-defined message or create a message on your own.

You can then preview the message, verify the recipient as well as update the message list.

<table>
<thead>
<tr>
<th>Text message options</th>
</tr>
</thead>
<tbody>
<tr>
<td>I’ll call you back in a few minutes.</td>
</tr>
<tr>
<td>I just left, I’ll be there soon.</td>
</tr>
<tr>
<td>Can you give me a call?</td>
</tr>
<tr>
<td>I’m on my way.</td>
</tr>
<tr>
<td>I’m running a few minutes late.</td>
</tr>
<tr>
<td>I’m ahead of schedule, so I’ll be there early.</td>
</tr>
<tr>
<td>I’m outside.</td>
</tr>
<tr>
<td>I’ll call you when I get there.</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td>Yes</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>Thanks</td>
</tr>
<tr>
<td>Stuck in traffic.</td>
</tr>
<tr>
<td>Call me later.</td>
</tr>
<tr>
<td>LOL</td>
</tr>
</tbody>
</table>

**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 phone. You can press:
- **View** to view the text message.
- **Listen** for SYNC to read the message to you.
- **Dial** to call the contact.
- **Ignore** to exit the screen.

**Phone Settings**

Press **Phone > Settings**.

**Bluetooth Devices**

Touch this tab to connect, disconnect, add or delete a device, as well as save it as a favorite.

**Bluetooth**

Touch this tab to turn Bluetooth off or on.

**Do Not Disturb**

Touch this tab if you want all calls to go directly to your voice mail and not ring in the vehicle. When this feature is on, text message notifications do not ring inside the cabin either.

**911 Assist**

Turn on or turn off the 911 Assist feature. See **Information** (page 401).

**Phone Ringer**

Select the ring tone you want to hear when you receive a call. Choose from possible system ring tones, your currently paired phone’s ring tone, a beep, text-to-speech or a silent notification.
Text Message Notification
Select a text message notification, if supported by your phone. Choose from possible system alert tones, text-to-speech or silent.

Internet Data Connection
If your 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
Touch this button to 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
Touch this button to have the system alert you when your phone is in roaming mode.

Phone Voice Commands
Press the voice button on the steering wheel controls. When prompted, say any of the following commands:

<table>
<thead>
<tr>
<th>&quot;PHONE&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Call&quot;</td>
</tr>
<tr>
<td>&quot;Call &lt;name&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Call &lt;name&gt; at home&quot;</td>
</tr>
<tr>
<td>&quot;Call &lt;name&gt; at work&quot;</td>
</tr>
<tr>
<td>&quot;Call &lt;name&gt; on cell&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&quot;PHONE&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Call &lt;name&gt; on other&quot;</td>
</tr>
<tr>
<td>&quot;Call voicemail&quot;</td>
</tr>
<tr>
<td>&quot;Dial&quot;</td>
</tr>
<tr>
<td>&quot;Do not disturb off&quot;</td>
</tr>
<tr>
<td>&quot;Do not disturb on&quot;</td>
</tr>
<tr>
<td>&quot;Forward text messages&quot;</td>
</tr>
<tr>
<td>&quot;Go to hands free&quot;</td>
</tr>
<tr>
<td>&quot;Hold call off&quot;</td>
</tr>
<tr>
<td>&quot;Hold on&quot;</td>
</tr>
<tr>
<td>&quot;Join calls&quot;</td>
</tr>
<tr>
<td>&quot;Listen to text message &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Listen to text messages&quot;</td>
</tr>
<tr>
<td>&quot;Messages&quot;</td>
</tr>
<tr>
<td>&quot;Mute call&quot;</td>
</tr>
<tr>
<td>&quot;Pair phone&quot;</td>
</tr>
<tr>
<td>&quot;Privacy on&quot;</td>
</tr>
<tr>
<td>&quot;Read text message&quot;</td>
</tr>
<tr>
<td>&quot;Reply to text messages&quot;</td>
</tr>
<tr>
<td>&quot;Turn ringer off&quot;</td>
</tr>
<tr>
<td>&quot;Turn ringer on&quot;</td>
</tr>
</tbody>
</table>
**PHONE**

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Unmute call&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* This command is only available during an active call.

** If you say "Messages", see the following "Messages" chart for additional commands.

---

**MESSAGES**

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Call&quot;</td>
</tr>
<tr>
<td>&quot;Forward text messages&quot;</td>
</tr>
<tr>
<td>&quot;Listen to text message &lt;#&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Listen to text messages&quot;</td>
</tr>
<tr>
<td>&quot;Reply to text messages&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

---

**INFORMATION**

- A  SYNC Services
- B  SIRIUS Travel Link
- C  Alerts
- D  Calendar
- E  SYNC Applications

---

SYNC Services
SIRIUS Travel Link
Alerts
Calendar
SYNC Applications
Under the Information menu, you can access features such as:
- SYNC Services
- SIRIUS Travel Link
- Alerts
- Calendar
- SYNC Applications

If your vehicle is equipped with 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 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 395).

**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 Using Voice Commands**
1. Press the voice button.
2. When prompted, say "Services". This initiates an outgoing call to SYNC Services using your paired and connected Bluetooth-enabled cellular phone.
3. Once you connect to the service, follow the voice prompts to request the desired service, such as "Traffic" or "Directions". You can also say, "What are my choices?" to receive a list of available services from which to choose.
4. Say, "Services" to return to the Services main menu or for help, say, "Help".

**Connecting to SYNC Services Using the Touchscreen**

If your vehicle is equipped with Navigation, press the Information button.

If your vehicle is not equipped with Navigation, press the green tab on your touchscreen.

1. Select **Connect to Services** to initiate an outgoing call to SYNC Services using your phone.
2. Once connected, follow the voice prompts to request your desired Service, such as "Traffic" or "Directions". You can also say, "What are my choices?" to receive a list of available services from which to choose.
3. Say, "Services" to return to the Services main menu or for help, say, "Help".

**Receiving Turn-by-Turn Directions**

1. When connected to SYNC Services, say "Directions" or "Business search". To find the closest business or type of business to your current location, just say "Business search" and then "Search near me". If you need further assistance in finding a location you can say "Operator" at any time within a Directions or Business search to speak with a live operator. 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 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.

2. Follow the voice prompts to select your Destination. After the route download is finished, the phone call automatically ends.

If your vehicle is not equipped with Navigation:

- Turn-by-turn directions appear in the information display, in the status bar of your touchscreen system and on the SYNC Services screen. You also receive driving instructions from audible prompts.
- When on an active route, you can select **Route Summary** or **Route Status** using the touchscreen controls or voice commands to view the **Route Summary Turn List** or the **Route Status ETA**. You can also turn voice guidance on or off, cancel the route or update the route.

If you miss a turn, SYNC automatically asks if you want the route updated. Just say, "Yes" when prompted and the system delivers a new route to your vehicle.

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 412).
Disconnecting from SYNC Services

1. Press and hold the hang-up phone button on the steering wheel.
2. Say "Good-bye" from the SYNC Services main menu.

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, such as work or home. You can also save favorite information like sports teams, such as 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

When a route has been downloaded (non-navigation systems), press the voice button on the steering wheel controls. When prompted, say any of the following commands:

- "SERVICES"
- "Cancel route"
- "Navigation voice off"
- "Navigation voice on"
- "Next turn"
- "Route status"
- "Route summary"

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.

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.

Traffic On Route and Traffic Nearby
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.

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. Select Map to see the weather map, which can show storms, radar information, charts and winds. Select Area to select from a listing of weather locations.

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 commands:

"SIRIUS TRAVEL LINK"
"5-day weather forecast"
"Fuel prices"
"Movie listings"
"Sports headlines"
"Sports schedules"
"Sports scores"
"Traffic"
"Weather"
*If you say "Sports headlines", "Sports schedules" or "Sports scores", you can then say any of the commands in the following chart.

**Sports-related commands**

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Baseball&quot;</td>
</tr>
<tr>
<td>&quot;College basketball&quot;</td>
</tr>
<tr>
<td>&quot;College football&quot;</td>
</tr>
<tr>
<td>&quot;Golf&quot;</td>
</tr>
<tr>
<td>&quot;MLS&quot;</td>
</tr>
<tr>
<td>&quot;My teams&quot;</td>
</tr>
<tr>
<td>&quot;NBA&quot;</td>
</tr>
<tr>
<td>&quot;NFL&quot;</td>
</tr>
<tr>
<td>&quot;NHL&quot;</td>
</tr>
<tr>
<td>&quot;WNBA&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

**Additional sports-related voice commands**

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;College football schedule&quot;</td>
</tr>
<tr>
<td>&quot;College football scores&quot;</td>
</tr>
<tr>
<td>&quot;Golf headlines&quot;</td>
</tr>
<tr>
<td>&quot;Golf leaderboard&quot;</td>
</tr>
<tr>
<td>&quot;Golf schedule&quot;</td>
</tr>
<tr>
<td>&quot;MLS headlines&quot;</td>
</tr>
<tr>
<td>&quot;MLS schedule&quot;</td>
</tr>
<tr>
<td>&quot;MLS scores&quot;</td>
</tr>
<tr>
<td>&quot;Motor sports headlines&quot;</td>
</tr>
<tr>
<td>&quot;Motor sports order&quot;</td>
</tr>
<tr>
<td>&quot;Motor sports schedule&quot;</td>
</tr>
<tr>
<td>&quot;My team headlines&quot;</td>
</tr>
<tr>
<td>&quot;My teams schedule&quot;</td>
</tr>
<tr>
<td>&quot;My teams scores&quot;</td>
</tr>
<tr>
<td>&quot;NBA headlines&quot;</td>
</tr>
<tr>
<td>&quot;NBA schedule&quot;</td>
</tr>
<tr>
<td>&quot;NBA scores&quot;</td>
</tr>
<tr>
<td>&quot;NFL headlines&quot;</td>
</tr>
<tr>
<td>&quot;NFL schedule&quot;</td>
</tr>
<tr>
<td>&quot;NFL scores&quot;</td>
</tr>
<tr>
<td>&quot;NHL headlines&quot;</td>
</tr>
<tr>
<td>&quot;NHL schedule&quot;</td>
</tr>
<tr>
<td>&quot;NHL scores&quot;</td>
</tr>
<tr>
<td>&quot;WNBA headlines&quot;</td>
</tr>
</tbody>
</table>
**MyFord Touch™ (If Equipped)**

### Additional sports-related voice commands

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;WNBA schedule&quot;</td>
</tr>
<tr>
<td>&quot;WNBA scores&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

### 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**, and then choose from any of the following services:

- **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 yellow. 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 (If Equipped)

#### WARNINGS

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

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

- **WARNING** Always place your phone in a secure location in your vehicle so it does not become a projectile or 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 (excludes 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.syncmaroute.ca.

See Supplementary Restraints System (page 38). Important information regarding airbag deployment is in this chapter.

See Roadside Emergencies (page 213). 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.

Touch **Apps > 911 Assist**, then select **On**.

You can also access 911 Assist by:

- Pressing the Settings icon > **Settings > Phone > 911 Assist**, or
- Pressing the Settings icon > **Help > 911 Assist**.

To make sure that 911 Assist works properly:

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

If you do not cancel the call, and SYNC makes a successful call, a pre-recorded message plays for the 911 operator, and then the occupant(s) in your vehicle 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)

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 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, such as:

- 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, touch **Apps > Vehicle Health Report**.
To run a report by voice command, press the voice button on the steering wheel and, when prompted, say "Vehicle health report".

**Vehicle Health Report Privacy Notice**

When you 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.

**CLIMATE**

Press 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 the screen shown here.

**Power:** Touch to switch the system off and on. Outside air cannot enter your vehicle when you switch off the system.

**Passenger settings:** Touch + or − to adjust the temperature. Touch the heated seat icon to control the heated seat. Touch the cooled seat icon to control the cooled seat. See **Seats** (page 112).

**Fan speed:** Touch + or − to adjust fan speed.
**Recirculated air:** Touch to turn the recirculated air on or off which may reduce the amount of time needed to cool down the interior and help reduce odors from reaching the interior. Recirculated air also engages automatically when you select MAX A/C and may turn on manually in any airflow mode except defrost. It may also turn off in all airflow modes except MAX A/C to reduce fog potential.

**MAX A/C:** Touch to cool your vehicle with recirculated air. Touch again for normal A/C operation. MAX A/C distributes air through instrument panel vents and may help reduce odors from entering your vehicle. MAX A/C is more economical and efficient than normal A/C mode.

**A/C:** Touch to turn the air conditioning on or off. Use A/C with recirculated air to improve cooling performance and efficiency. A/C engages automatically in MAX A/C, defrost and footwell/defrost.

**AUTO:** Touch to engage automatic operation, then set the temperature using the temperature control. The system automatically controls fan speed, airflow distribution, A/C on or off and the use of fresh or recirculated air.

**Rear defrost:** Touch to turn the rear window defroster and heated mirrors.

**Defrost:** Touch to clear the windshield of fog and thin ice. Touch again to return to the previous airflow selection. When on, defrost provides outside air to reduce window fogging and distributes air through the windshield defroster vents and demister vents.

**Manual airflow distribution controls:**
- **Footwell and Defrost:** Distributes air through the windshield defroster vents, demister vents, floor vents and rear seat floor vents, and provides outside air to reduce window fogging.
- **Panel:** Distributes air through the instrument panel vents.
- **Panel and Floor:** Distributes air through the instrument panel vents, demister vents, floor vents and rear seat floor vents.
- **Floor:** Distributes air through the demister vents, floor vents and rear seat floor vents.

**Driver settings:** Touch + or – adjust the temperature. Touch the heated seat icon to control the heated seat. Touch the cooled seat icon to control the cooled seat. See **Seats** (page 112). Touch and hold **MyTemp** to select a temperature you would like your vehicle to remember and maintain for you.

---

**Climate Control Voice Commands**

Press the voice button on the steering wheel controls. When prompted, say any of the following commands:

<table>
<thead>
<tr>
<th>Climate control commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Climate automatic&quot;</td>
</tr>
<tr>
<td>&quot;Climate off&quot;</td>
</tr>
<tr>
<td>&quot;Climate on&quot;</td>
</tr>
<tr>
<td>&quot;Climate temperature &lt;15.5-29.5&gt; degrees&quot;</td>
</tr>
</tbody>
</table>
## MyFord Touch™ (If Equipped)

### Climate Control Commands

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Climate temperature &lt;60-85&gt; degrees&quot;</td>
</tr>
<tr>
<td>&quot;Climate my temp&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

There are additional climate control commands but in order to access them, you have to say "Climate" first. When the system is ready to listen, you may say any of the following commands:

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A/C off&quot;</td>
</tr>
<tr>
<td>&quot;A/C on&quot;</td>
</tr>
<tr>
<td>&quot;Automatic&quot;</td>
</tr>
<tr>
<td>&quot;Climate my temp&quot;</td>
</tr>
<tr>
<td>&quot;Defrost off&quot;</td>
</tr>
<tr>
<td>&quot;Defrost on&quot;</td>
</tr>
<tr>
<td>&quot;Dual off&quot;</td>
</tr>
<tr>
<td>&quot;Fan decrease&quot;</td>
</tr>
<tr>
<td>&quot;Fan increase&quot;</td>
</tr>
<tr>
<td>&quot;Floor on&quot;</td>
</tr>
<tr>
<td>&quot;MAX A/C off&quot;</td>
</tr>
<tr>
<td>&quot;MAX A/C on&quot;</td>
</tr>
<tr>
<td>&quot;Off&quot;</td>
</tr>
<tr>
<td>&quot;On&quot;</td>
</tr>
<tr>
<td>&quot;Panel floor on&quot;</td>
</tr>
<tr>
<td>&quot;Panel on&quot;</td>
</tr>
<tr>
<td>&quot;Recirc off&quot;</td>
</tr>
<tr>
<td>&quot;Recirc on&quot;</td>
</tr>
<tr>
<td>&quot;Temperature&quot;</td>
</tr>
</tbody>
</table>

### "CLIMATE"

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Temperature &lt;15.5-29.5&gt; degrees&quot;</td>
</tr>
<tr>
<td>&quot;Temperature &lt;60-85&gt; degrees&quot;</td>
</tr>
<tr>
<td>&quot;Temperature decrease&quot;</td>
</tr>
<tr>
<td>&quot;Temperature high&quot;</td>
</tr>
<tr>
<td>&quot;Temperature increase&quot;</td>
</tr>
<tr>
<td>&quot;Temperature low&quot;</td>
</tr>
<tr>
<td>&quot;Windshield floor on&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* If you say "Temperature", you can then say any of the commands in the following chart.

### "TEMPERATURE"

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;15.5-29.5&gt; degrees&quot;</td>
</tr>
<tr>
<td>&quot;&lt;60-85&gt; degrees&quot;</td>
</tr>
<tr>
<td>&quot;High&quot;</td>
</tr>
<tr>
<td>&quot;Low&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

### 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.
To set a destination, press the green corner of your touchscreen, then the **Dest** button when it appears. See **Setting a destination** later in this chapter.

To view the navigation map and your vehicle’s current location, touch the green bar in the upper right hand corner of the touchscreen, or, press **Dest**, then **Map**. See **Map mode** later in this chapter.

### Setting a Destination

Press the green corner of your touchscreen, then the **Dest** button when it appears. Choose any of the following:

<table>
<thead>
<tr>
<th>Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>My Home</td>
</tr>
<tr>
<td>Favorites</td>
</tr>
<tr>
<td>Previous Destinations</td>
</tr>
<tr>
<td>Point of Interest</td>
</tr>
<tr>
<td>Emergency</td>
</tr>
<tr>
<td>Street Address</td>
</tr>
<tr>
<td>Intersection</td>
</tr>
<tr>
<td>City Center</td>
</tr>
<tr>
<td>Map</td>
</tr>
<tr>
<td>Edit Route Cancel Route</td>
</tr>
</tbody>
</table>

1. Enter the necessary information into the highlighted text fields (in any order). For address destination entry, the **Go!** button appears once you enter all the necessary information. Pressing the **Go!** button makes the address location appear on the map. If you choose **Previous Destination**, the last 20 destinations you have selected appear.

2. Select **Set as Dest** to make this your destination. You can also choose to set this as a waypoint (have the system route to this point on the way to your current destination) or save it as a favorite. The system considers any **Avoid Areas** selections in its route calculation.

3. Choose from up to three different types of routes, and then select **Start Route**.
   - Fastest: Uses the fastest moving roads possible.
   - Shortest: Uses the shortest distance possible.
   - Eco Route: Uses the most fuel-efficient route.

You can cancel the route or have the system demo the route for you. Select **RoutePrefs** to set route preferences like avoiding freeways, tollroads, ferries and car trains as well as to use or not use high-occupancy vehicle lanes.

(High-occupancy vehicle lanes are also known as carpool or diamond lanes. People who ride in buses, vanpools or carpools use these lanes.)

**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.

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.
### Point of Interest (POI) Categories

<table>
<thead>
<tr>
<th>Main categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food/Drink &amp; Dining</td>
</tr>
<tr>
<td>Travel &amp; Transportation</td>
</tr>
<tr>
<td>Financial</td>
</tr>
<tr>
<td>Emergency</td>
</tr>
<tr>
<td>Community</td>
</tr>
<tr>
<td>Health &amp; Medicine</td>
</tr>
<tr>
<td>Automotive</td>
</tr>
<tr>
<td>Shopping</td>
</tr>
<tr>
<td>Entertainment &amp; Arts</td>
</tr>
<tr>
<td>Recreation &amp; Sports</td>
</tr>
<tr>
<td>Government</td>
</tr>
<tr>
<td>Domestic Services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subcategories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restaurant</td>
</tr>
<tr>
<td>Golf</td>
</tr>
<tr>
<td>Parking</td>
</tr>
<tr>
<td>Home &amp; Garden</td>
</tr>
<tr>
<td>Personal Care Services</td>
</tr>
<tr>
<td>Auto Dealership</td>
</tr>
<tr>
<td>Govt Office</td>
</tr>
<tr>
<td>Public Transit</td>
</tr>
<tr>
<td>Education</td>
</tr>
</tbody>
</table>

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).

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.

Press **More Information** for a longer review, a list of services and facilities, the average room or meal price as well as the website. This screen displays the point of interest icon such as:

- Hotel
- Coffeehouse
Setting Your Navigation Preferences

Select settings for the system to take into account when planning your route.

Press the Settings icon > Settings > Navigation.

Map Preferences

Breadcrumbs

Display your vehicle’s previously traveled route with white dots. Turn this feature ON or OFF.

Turn List Format

Have the system display your turn list Top to Bottom or Bottom to Top.

Parking POI Notification

Set the automatic parking point of interest notification. Turn this feature ON or OFF. 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.

Route Preferences

Preferred Route

Choose to have the system display the Shortest, Fastest or most Ecological route first. If you set Always Use Preferred Route to Yes, the system uses the selected route type to calculate only one route to the desired destination.

Always Use Preferred Route

Bypass route selection in destination programming. The system only calculates one route based on preferred route setting.
**Eco Time Penalty**

Select a low, medium or high cost for the calculated Eco Route. The higher the setting, the longer the time allotment is for the route.

**Avoid**

These features allow you to choose to have the system avoid freeways, toll roads, ferries and car trains when planning your route. Turn these features **ON** or **OFF**.

**Use HOV Lanes**

Have the system use high-occupancy vehicle lanes, if available, when planning your route.

**Navigation Preferences**

**Guidance Prompts**

Have the system use **Voice & Tones** or **Tone Only** on your programmed route.

**Auto - Fill State/Province**

Have the system automatically fill in the state and province based on the information already entered into the system. Turn this feature **ON** or **OFF**.

**Traffic Preferences**

**Avoid Traffic Problems**

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**

Have the system display traffic alert notifications.

Other traffic alert features allows you to turn on certain, or all, traffic icons on the map such as road work, incident, accidents and closed roads. Scroll down to view all the different types of alerts. Turn these features **ON** or **OFF**.

**Avoid Areas**

Choose areas which you want the system to avoid when calculating a route for you. Press **Add** to program an entry. Once you make a selection, the system tries to avoid the area(s) if possible for all routes. To delete a selection, choose the listing on the screen. When the screen changes to **Avoid Areas Edit**, you can press **Delete** at the bottom right of the screen.

**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.
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.

**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, View/Edit Route, SIRIUS Travel Link, Guidance Mute and Cancel Route.

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 in the map zooms in; the faster your vehicle is traveling, the farther the map zooms out. To turn the feature off, just press the † or ‡ button again.

In 3D mode, rotate the map view by swiping your finger across the shaded bar with the arrows.

**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.

**Waypoint** indicates the location of a waypoint on the map. The number inside the circle is different for each waypoint and represents the position of the waypoint in the route list.

**Destination symbol** indicates the ending point of a planned route.

**Next maneuver point** indicates the location of the next turn on the planned route.

**No GPS symbol** indicates that insufficient GPS satellite signals are available for accurate map positioning. This icon may display under normal operation in an area with poor GPS access.

**Quick-touch Buttons**

When in map mode, touch anywhere on the map display to access the following options:

**Set as Dest**

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 **Set as Dest**.

**Set as Waypoint**

Touch this button to set the current location as a waypoint.

**Save to Favorites**

Touch this button to save the current location to your favorites.

**POI Icons**

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. Turn these **ON** or **OFF**.

**Cancel Route**

Touch this button to cancel the active route.

**View/Edit Route**

Access these features when a route is active:

- View Route
- Edit Destination/Waypoints
- Edit Turn List
- Detour
- Edit Route Preferences
- Edit Traffic Preferences
- Cancel Route.
Nokia is the digital map provider for the navigation application. If you find map data errors, you may report them directly to Nokia by going to http://mapreporter.navteq.com. Nokia evaluates all reported map errors and responds with the result of their investigation by e-mail.

**Navigation Map Updates**

Annual navigation map updates are available for purchase through your dealership, by calling 1-800-NAVMAPS (in Mexico, call 01-800-557-5539) or going to www.navigation.com/ford. You need to specify the make and model of your vehicle to determine if there is an update available.

**Navigation Voice Commands**

When in navigation mode, press the voice button on the steering wheel controls. After the tone, say any of the following commands:

<table>
<thead>
<tr>
<th>Navigation system voice commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Cancel next waypoint&quot;1</td>
</tr>
<tr>
<td>&quot;Cancel route&quot;1</td>
</tr>
<tr>
<td>&quot;Destination&quot;2</td>
</tr>
<tr>
<td>&quot;Destination &lt;nametag&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Destination &lt;POI category&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Destination favorites&quot;</td>
</tr>
<tr>
<td>&quot;Destination home&quot;</td>
</tr>
<tr>
<td>&quot;Destination intersection&quot;</td>
</tr>
<tr>
<td>&quot;Destination nearest &lt;POI category&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Destination nearest POI&quot;</td>
</tr>
<tr>
<td>&quot;Destination play nametags&quot;</td>
</tr>
<tr>
<td>&quot;Destination POI&quot;</td>
</tr>
<tr>
<td>&quot;Destination POI category&quot;</td>
</tr>
<tr>
<td>&quot;Destination previous destination&quot;</td>
</tr>
<tr>
<td>&quot;Destination street address&quot;</td>
</tr>
<tr>
<td>&quot;Detour&quot;1</td>
</tr>
<tr>
<td>&quot;Navigation&quot;3</td>
</tr>
<tr>
<td>&quot;Navigation voice volume decrease&quot;</td>
</tr>
<tr>
<td>&quot;Navigation voice volume increase&quot;</td>
</tr>
<tr>
<td>&quot;Repeat instruction&quot;1</td>
</tr>
<tr>
<td>&quot;Show 3D&quot;</td>
</tr>
<tr>
<td>&quot;Show heading up&quot;</td>
</tr>
<tr>
<td>&quot;Show map&quot;</td>
</tr>
<tr>
<td>&quot;Show north up&quot;</td>
</tr>
<tr>
<td>&quot;Show route&quot;1</td>
</tr>
<tr>
<td>&quot;Show turn list&quot;1</td>
</tr>
<tr>
<td>&quot;Voice guidance off&quot;</td>
</tr>
<tr>
<td>&quot;Voice guidance on&quot;</td>
</tr>
<tr>
<td>&quot;Where am I?&quot;</td>
</tr>
<tr>
<td>&quot;Zoom in&quot;</td>
</tr>
</tbody>
</table>
Navigation system voice commands

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Zoom out&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

1 These commands are only available when a navigation route is active.

2 If you say "Destination", you can then say any command in the following "Destination" chart.

3 If you say "Navigation", you can then say any command in the following "Navigation" chart.

<table>
<thead>
<tr>
<th>&quot;DESTINATION&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;&lt;nametag&gt;&quot;</td>
</tr>
<tr>
<td>&quot;&lt;POI category&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Favorites&quot;</td>
</tr>
<tr>
<td>&quot;Home&quot;</td>
</tr>
<tr>
<td>&quot;Intersection&quot;</td>
</tr>
<tr>
<td>&quot;Nearest &lt;POI category&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Nearest POI&quot;</td>
</tr>
<tr>
<td>&quot;Play nametags&quot;</td>
</tr>
<tr>
<td>&quot;POI category&quot;</td>
</tr>
<tr>
<td>&quot;Previous destination&quot;</td>
</tr>
<tr>
<td>&quot;Street address&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&quot;NAVIGATION&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Zoom maximum&quot;</td>
</tr>
<tr>
<td>&quot;Zoom province&quot;</td>
</tr>
<tr>
<td>&quot;Zoom state&quot;</td>
</tr>
<tr>
<td>&quot;Zoom street&quot;</td>
</tr>
<tr>
<td>&quot;Zoom to &lt;distance&gt;&quot;</td>
</tr>
<tr>
<td>&quot;Help&quot;</td>
</tr>
</tbody>
</table>

* If you say "Destination", you can then say any command in the "Destination" chart.

**One-shot Destination Street Address**

When you say either "Navigation destination street address" or "Destination street address", the system asks you to say the full address. The system displays an example on-screen. You can then speak the address naturally, such as "One two three four Main Street, Anytown".
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Read and follow instructions: Before using your Windows Automotive-based system, read and follow all instructions and safety information provided in this end user manual ("User's Guide"). Not following precautions found in this User's Guide can lead to an accident or other serious consequences.

Keep User's Guide in vehicle: When kept in the vehicle, the User's Guide will be a ready reference for you and other users unfamiliar with the Windows Automotive-based system. Please make certain that before using the system for the first time, all persons have access to the User's Guide and read its instructions and safety information carefully.
WARNING
Operating certain parts of this system while driving can distract your attention away from the road, and possibly cause an accident or other serious consequences. Do not change system settings or enter data non-verbally (using your hands) while driving. Stop the vehicle in a safe and legal manner before attempting these operations. This is important since while setting up or changing some functions you might be required to distract your attention away from the road and remove your hands from the wheel.

General Operation
Voice Command Control: Functions within the Windows Automotive-based system may be accomplished using only voice commands. Using voice commands while driving allows you to operate the system without removing your hands from the wheel.

Prolonged Views of Screen: Do not access any function requiring a prolonged view of the screen while you are driving. Pull over in a safe and legal manner before attempting to access a function of the system requiring prolonged attention. Even occasional short scans to the screen may be hazardous if your attention has been diverted away from your driving task at a critical time.

Volume Setting: Do not raise the volume excessively. Keep the volume at a level where you can still hear outside traffic and emergency signals while driving. Driving while unable to hear these sounds could cause an accident.

Use of Speech Recognition Functions: Speech recognition software is inherently a statistical process which is subject to errors. It is your responsibility to monitor any speech recognition functions included in the system and address any errors.

Navigation Features: Any navigation features included in the system are intended to provide turn by turn instructions to get you to a desired destination. Please make certain all persons using this system carefully read and follow instructions and safety information fully.

Distraction Hazard: Any navigation features may require manual (non-verbal) setup. Attempting to perform such set-up or insert data while driving can seriously distract your attention and could cause an accident or other serious consequences. Stop the vehicle in a safe and legal manner before attempting these operations.

Let Your Judgment Prevail: Any navigation features are provided only as an aid. Make your driving decisions based on your observations of local conditions and existing traffic regulations. Any such feature is not a substitute for your personal judgment. Any route suggestions made by this system should never replace any local traffic regulations or your personal judgment or knowledge of safe driving practices.

Route Safety: Do not follow the route suggestions if doing so would result in an unsafe or illegal maneuver, if you would be placed in an unsafe situation, or if you would be directed into an area that you consider unsafe. The driver is ultimately responsible for the safe operation of the vehicle and therefore, must evaluate whether it is safe to follow the suggested directions.
Potential Map Inaccuracy: Maps used by this system may be inaccurate because of changes in roads, traffic controls or driving conditions. Always use good judgment and common sense when following the suggested routes.

Emergency Services: Do not rely on any navigation features included in the system to route you to emergency services. Ask local authorities or an emergency services operator for these locations. Not all emergency services such as police, fire stations, hospitals and clinics are likely to be contained in the map database for such navigation features.

TeleNav Software End User License Agreement

Please read these terms and conditions carefully before you use the TeleNav Software. Your use of the TeleNav Software indicates that you accept these terms and conditions. If you do not accept these terms and conditions, do not break the seal of the package, launch, or otherwise use the TeleNav Software.

TeleNav may revise this Agreement and the privacy policy at any time, with or without notice to you. You agree to visit http://www.telenav.com from time to time to review the then current version of this Agreement and of the privacy policy.

1. Safe and Lawful Use

You acknowledge that devoting attention to the TeleNav Software may pose a risk of injury or death to you and others in situations that otherwise require your undivided attention, and you therefore agree to comply with the following when using the TeleNav Software: (a) observe all traffic laws and otherwise drive safely; (b) use your own personal judgment while driving. If you feel that a route suggested by the TeleNav Software instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or directs you into an area that you consider to be unsafe, do not follow such instructions; (c) do not input destinations, or otherwise manipulate the TeleNav Software, unless your vehicle is stationary and parked; (d) do not use the TeleNav Software for any illegal, unauthorized, unintended, unsafe, hazardous, or unlawful purposes, or in any manner inconsistent with this Agreement; (e) arrange all GPS and wireless devices and cables necessary for use of the TeleNav Software in a secure manner in your vehicle so that they will not interfere with your driving and will not prevent the operation of any safety device (such as an airbag).

You agree to indemnify and hold TeleNav harmless against all claims resulting from any dangerous or otherwise inappropriate use of the TeleNav Software in any moving vehicle, including as a result of your failure to comply with the directions above.

2. Account Information

You agree: (a) when registering the TeleNav Software, to provide TeleNav with true, accurate, current, and complete information about yourself, and (b) to inform TeleNav promptly of any changes to such information, and to keep it true, accurate, current and complete.

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Appendices
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You agree that any dispute, claim or controversy arising out of or relating to this Agreement or the TeleNav Software shall be settled by independent arbitration involving a neutral arbitrator and administered by the American Arbitration Association in the County of Santa Clara, California. The arbitrator shall apply the Commercial Arbitration Rules of the American Arbitration Association, and the judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction. Note that there is no judge or jury in an arbitration proceeding and the decision of the arbitrator shall be binding upon both parties. You expressly agree to waive your right to a jury trial.

This Agreement and performance hereunder will be governed by and construed in accordance with the laws of the State of California, without giving effect to its conflict of 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.

7. Assignment

You may not resell, assign, or transfer this Agreement or any of your rights or obligations, except in totality, in connection with your permanent transfer of the TeleNav Software, and expressly conditioned upon the new user of the TeleNav Software agreeing to be bound by the terms and conditions of this Agreement. Any such sale, assignment or transfer that is not expressly permitted under this paragraph will result in immediate termination of this Agreement, without liability to TeleNav, in which case you and all other parties shall immediately cease all use of the TeleNav Software. Notwithstanding the foregoing, TeleNav may assign this Agreement to any other party at any time without notice, provided the assignee remains bound by this Agreement.
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8.1
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8.2
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8.4
TeleNav’s or your failure to require performance of any provision shall not affect that party’s right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.
8.5
If any provision herein is held unenforceable, then such provision will be modified to reflect the intention of the parties, and the remaining provisions of this Agreement will remain in full force and effect.
8.6
The headings in this Agreement are for convenience of reference only, will not be deemed to be a part of this Agreement, and will not be referred to in connection with the construction or interpretation of this Agreement. As used in this Agreement, the words "include" and "including" and variations thereof, will not be deemed to be terms of limitation, but rather will be deemed to be followed by the words "without limitation".

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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**

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.
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 295).

Failure to perform scheduled maintenance invalidates warranty coverage on parts affected by the lack of maintenance.

Why Maintain Your Vehicle at Your Dealership?

Factory-trained Technicians
Service technicians participate in extensive factory-sponsored certification training to help them become experts on the operation of your vehicle. Ask your dealership about the training and certification their technicians have received.

Genuine Ford and Motorcraft Replacement Parts
Dealerships stock Ford, Motorcraft and Ford-authorized branded re-manufactured replacement parts. These parts meet or exceed our specifications. Parts installed at your dealership carry a nationwide 12-month or 12000-mile (20000 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.

Vehicles with a 3.5L, 3.7L or 5.0L Engine

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).
When **ENGINE OIL CHANGE DUE** or **OIL CHANGE REQUIRED** 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 **ENGINE OIL CHANGE DUE** or **OIL CHANGE REQUIRED** message appearing. Make sure you reset the Intelligent Oil-Life Monitor after each oil change.

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.

**Vehicles with a 6.2L Engine**

Your vehicle does not have an Intelligent Oil-Life Monitor system. See the 7500 mile (12000 kilometers) maintenance schedule for oil change service intervals.

**All Vehicles**

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.
### Scheduled Maintenance

#### Check every month

<table>
<thead>
<tr>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine oil level.</td>
</tr>
<tr>
<td>Function of all interior and exterior lights.</td>
</tr>
<tr>
<td>Tires (including spare) for wear and proper pressure.</td>
</tr>
<tr>
<td>Windshield washer fluid level.</td>
</tr>
</tbody>
</table>

#### Check every six months

<table>
<thead>
<tr>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery connections. Clean if necessary.</td>
</tr>
<tr>
<td>Body and door drain holes for obstructions. Clean if necessary.</td>
</tr>
<tr>
<td>Cooling system fluid level and coolant strength.</td>
</tr>
<tr>
<td>Door weatherstrips for wear. Lubricate if necessary.</td>
</tr>
<tr>
<td>Hinges, latches and outside locks for proper operation. Lubricate if necessary.</td>
</tr>
<tr>
<td>Parking brake for proper operation.</td>
</tr>
<tr>
<td>Safety belts and seat latches for wear and function.</td>
</tr>
<tr>
<td>Safety warning lamps (brake, ABS, airbag and safety belt) for operation.</td>
</tr>
<tr>
<td>Washer spray and wiper operation. Clean or replace blades as necessary.</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Accessory drive belt(s)</th>
<th>Horn operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery performance</td>
<td>Radiator, cooler, heater and A/C hoses</td>
</tr>
<tr>
<td>Engine air filter</td>
<td>Suspension component for leaks or damage</td>
</tr>
<tr>
<td>Exhaust system</td>
<td>Steering and linkage</td>
</tr>
<tr>
<td>Exterior lamps and hazard warning system operation</td>
<td>Tires (including spare) for wear and proper pressure**</td>
</tr>
<tr>
<td>Fluid levels*, fill if necessary</td>
<td>Windshield for cracks, chips or pits</td>
</tr>
<tr>
<td>For oil and fluid leaks</td>
<td>Washer spray and wiper operation</td>
</tr>
</tbody>
</table>

* Brake, coolant recovery reservoir, automatic transmission, power steering (if equipped with hydraulic power assist steering) and window washer.  
**If your vehicle is equipped with a temporary mobility kit, check the tire sealant expiration Use By date on the canister. Replace as needed.

Be sure to ask your dealership service advisor or technician about the multi-point vehicle inspection. It is a comprehensive way to perform a thorough inspection of your vehicle. Your checklist gives you immediate feedback on the overall condition of your vehicle.

### NORMAL SCHEDULED MAINTENANCE

#### Intelligent Oil-Life Monitor® (Vehicles with a 3.5L, 3.7L and 5.0L Engine)

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 **ENGINE OIL CHANGE DUE** or **OIL CHANGE REQUIRED** 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.
### Scheduled Maintenance

<table>
<thead>
<tr>
<th>Interval</th>
<th>Vehicle use and example</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Normal</strong></td>
<td></td>
</tr>
<tr>
<td>7500-10000 miles (12000-16000 km)</td>
<td>Normal commuting with highway driving &lt;br&gt;No, or moderate, load or towing &lt;br&gt;Flat to moderately hilly roads &lt;br&gt;No extended idling</td>
</tr>
<tr>
<td><strong>Severe</strong></td>
<td></td>
</tr>
<tr>
<td>5000-7499 miles (8000-11999 km)</td>
<td>Moderate to heavy load or towing &lt;br&gt;Mountainous or off-road conditions &lt;br&gt;Extended idling &lt;br&gt;Extended hot or cold operation</td>
</tr>
<tr>
<td><strong>Extreme</strong></td>
<td></td>
</tr>
<tr>
<td>3000-4999 miles (4800-7999 km)</td>
<td>Maximum load or towing &lt;br&gt;Extreme hot or cold operation</td>
</tr>
</tbody>
</table>
Scheduled Maintenance

Normal Maintenance Intervals

3.5L, 3.7L and 5.0L Engines

<table>
<thead>
<tr>
<th>At every oil change interval as indicated by the information display*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change engine oil and filter.**</td>
</tr>
<tr>
<td>Rotate tires, inspect tire wear and measure tread depth.</td>
</tr>
<tr>
<td>Perform a multi-point inspection (recommended).</td>
</tr>
<tr>
<td>Inspect the automatic transmission fluid level (if equipped with dipstick). Consult your dealer for requirements.</td>
</tr>
<tr>
<td>Inspect the brake pads, shoes, rotors, drums, brake linings, hoses and parking brake.</td>
</tr>
<tr>
<td>Inspect the engine cooling system strength and hoses.</td>
</tr>
<tr>
<td>Inspect the exhaust system and heat shields.</td>
</tr>
<tr>
<td>Inspect front axle and U-joints. Lubricate if equipped with grease fittings (Four-wheel drive vehicles).</td>
</tr>
<tr>
<td>Inspect the half-shaft boots.</td>
</tr>
<tr>
<td>Inspect the steering linkage, ball joints, suspension, tire-rod ends, driveshaft and U-joints. Lubricate any areas with grease fittings.</td>
</tr>
<tr>
<td>Inspect the wheels and related components for abnormal noise, wear, looseness or drag.</td>
</tr>
</tbody>
</table>

* Do not exceed one year or 10000 miles (16000 kilometers) between service intervals.
** Reset the Intelligent Oil-Life Monitor after engine oil and filter changes.

<table>
<thead>
<tr>
<th>Other maintenance items¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every 30000 miles (48000 km)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>At 100000 miles (160000 km)</td>
</tr>
<tr>
<td>Every 100000 miles (160000 km)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Scheduled Maintenance

<table>
<thead>
<tr>
<th><strong>Other maintenance items</strong>¹</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Every 150,000 miles (240,000 km)</td>
<td>Change automatic transmission fluid and filter.</td>
</tr>
<tr>
<td></td>
<td>Change front axle fluid (Four-wheel drive vehicles).</td>
</tr>
<tr>
<td></td>
<td>Change rear axle fluid.</td>
</tr>
<tr>
<td></td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
<tr>
<td></td>
<td>Replace accessory drive belt(s).</td>
</tr>
</tbody>
</table>

¹ 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.

² Initial replacement at six years or 100,000 miles (160,000 kilometers), then every three years or 50,000 miles (80,000 kilometers).

³ After initial inspection, inspect every other oil change until replaced.

### 6.2L Engine

<table>
<thead>
<tr>
<th><strong>Every 7500 miles (12000 km) or six months (whichever comes first)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Change engine oil and filter.</td>
<td></td>
</tr>
<tr>
<td>Rotate tires*, inspect tire wear and measure tread depth.</td>
<td></td>
</tr>
<tr>
<td>Inspect wheels and related components for abnormal noise, wear, looseness or drag.</td>
<td></td>
</tr>
<tr>
<td>Perform multi-point inspection (recommended).</td>
<td></td>
</tr>
</tbody>
</table>

*The SVT Raptor has a specific tire rotation interval. See the supplement for more information.

<table>
<thead>
<tr>
<th><strong>Every 15000 miles (24000 km) or 12 months (whichever comes first)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect automatic transmission fluid level. Consult dealer for requirements.</td>
<td></td>
</tr>
<tr>
<td>Inspect brake pads, shoes, rotors, drums, brake linings, hoses and parking brake.</td>
<td></td>
</tr>
<tr>
<td>Inspect engine cooling system strength and hoses.</td>
<td></td>
</tr>
<tr>
<td>Inspect exhaust system and heat shields.</td>
<td></td>
</tr>
</tbody>
</table>
### Scheduled Maintenance

**Every 15000 miles (24000 km) or 12 months (whichever comes first)**

- Inspect front axle and U-joints. Lubricate if equipped with grease fittings (Four-wheel drive vehicles).
- Inspect half-shaft boots (if equipped).
- Inspect steering linkage, ball joints, suspension, tie-rod ends, driveshaft and U-joints. Lubricate if equipped with grease fittings.

---

**Other maintenance items**

<table>
<thead>
<tr>
<th>Mileage</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every 30000 miles (48000 km)</td>
<td>Replace climate-controlled (heated and cooled) seat filter (if equipped). Replace engine air filter.</td>
</tr>
<tr>
<td>Every 97500 miles (156000 km)</td>
<td>Replace spark plugs.</td>
</tr>
<tr>
<td>Every 105000 miles (168000 km)</td>
<td>Change engine coolant. * Inspect accessory drive belt(s). **</td>
</tr>
<tr>
<td>Every 150000 miles (240000 km)</td>
<td>Change automatic transmission fluid and filter. Change front axle fluid (Four-wheel drive vehicles). Change rear axle fluid. Change transfer case fluid (Four-wheel drive vehicles). Replace accessory drive belt(s) if not replaced within the last 100000 miles (160000 km).</td>
</tr>
</tbody>
</table>

* Initial replacement at six years or 105000 miles (168000 kilometers), then every three years or 45000 miles (72000 kilometers).

** If not replaced, inspect every 15000 miles (24000 kilometers).
Scheduled Maintenance

SPECIAL OPERATING CONDITIONS SCHEDULED MAINTENANCE

3.5L, 3.7L and 5.0L Engines

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

<table>
<thead>
<tr>
<th>As required</th>
<th>Change engine oil and filter as indicated by the information display and perform services listed in the Normal Scheduled Maintenance chart.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Inspect and lubricate U-joints. See axle maintenance items under Exceptions.</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
</tbody>
</table>

### Extensive idling or low-speed driving for long distances, as in heavy commercial use (such as delivery, taxi, patrol car or livery)

<table>
<thead>
<tr>
<th>As required</th>
<th>Change engine oil and filter as indicated by the information display and perform services listed in the Normal Scheduled Maintenance chart.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Replace engine air filter.</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles). Replace spark plugs.</td>
</tr>
</tbody>
</table>
### Scheduled Maintenance

#### Operating in dusty or sandy conditions (such as unpaved or dusty roads)

<table>
<thead>
<tr>
<th>Interval</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Replace engine air filter.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km)</td>
<td>Inspect the wheels and related components for abnormal noise, wear, looseness or drag. Rotate tires, inspect tires for wear and measure tread depth.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km) or six months</td>
<td>Change engine oil and filter.*</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
</tbody>
</table>

*Reset your Intelligent Oil-Life Monitor after each engine oil and filter change.

#### Off-road operation

<table>
<thead>
<tr>
<th>Interval</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Inspect steering linkage, ball joints and U-joints, Lubricate if equipped with grease fittings. Replace engine air filter.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km) or six months</td>
<td>Change engine oil and filter.*</td>
</tr>
<tr>
<td></td>
<td>Inspect the wheels and related components for abnormal noise, wear, looseness or drag. Rotate tires, inspect tires for wear and measure tread depth.</td>
</tr>
<tr>
<td>Every 30000 miles (48000 km)</td>
<td>Replace front wheel bearing grease and grease seals if non-sealed bearings are used (Two-wheel drive vehicles).</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
</tbody>
</table>

*Reset your Intelligent Oil-Life Monitor after each engine oil and filter change.

#### Exclusive use of E85 (Flex fuel vehicles only)

<table>
<thead>
<tr>
<th>Interval</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every oil change interval</td>
<td>If ran exclusively on E85, fill the fuel tank full with regular unleaded fuel.</td>
</tr>
</tbody>
</table>
### 6.2L Engine

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.

#### Towing a trailer or using a car-top carrier

<table>
<thead>
<tr>
<th>Maintenance Interval</th>
<th>Recommended Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Inspect and lubricate U-joints. See axle maintenance items under <em>Exceptions</em>.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km)</td>
<td>Inspect wheels and related components for abnormal noise, wear, looseness or drag.</td>
</tr>
<tr>
<td></td>
<td>Rotate tires, inspect tires for wear and measure tread depth.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km) or six months</td>
<td>Change engine oil and filter.*</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
</tbody>
</table>

*Reset your oil life monitoring system after each engine oil and filter change.

#### Extensive idling or low-speed driving for long distances, as in heavy commercial use (such as delivery, taxi, patrol car or livery)

<table>
<thead>
<tr>
<th>Maintenance Interval</th>
<th>Recommended Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Replace engine air filter.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km)</td>
<td>Inspect brake system.</td>
</tr>
<tr>
<td></td>
<td>Inspect wheels and related components for abnormal noise, wear, looseness or drag.</td>
</tr>
<tr>
<td></td>
<td>Lubricate control arm and steering ball joints if equipped with grease fittings.</td>
</tr>
<tr>
<td></td>
<td>Rotate tires, inspect tires for wear and measure tread depth.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km) or six months</td>
<td>Change engine oil and filter.*</td>
</tr>
</tbody>
</table>
## Scheduled Maintenance

<table>
<thead>
<tr>
<th>Extensive idling or low-speed driving for long distances, as in heavy commercial use (such as delivery, taxi, patrol car or livery)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every 60000 miles (96000 km)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

*Reset your oil life monitoring system after each engine oil and filter change.

### Operating in dusty or sandy conditions (such as unpaved or dusty roads)

<table>
<thead>
<tr>
<th>Inspection Schedule</th>
<th>Maintenance Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Replace engine air filter.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km)</td>
<td>Inspect the wheels and related components for abnormal noise, wear, looseness or drag.</td>
</tr>
<tr>
<td></td>
<td>Rotate tires, inspect tires for wear and measure tread depth.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km) or six months</td>
<td>Change engine oil and filter.*</td>
</tr>
<tr>
<td></td>
<td>Inspect and lubricate U-joints.</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
</tbody>
</table>

*Reset your oil life monitoring system after each engine oil and filter change.

### Off-road operation

<table>
<thead>
<tr>
<th>Inspection Schedule</th>
<th>Maintenance Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect frequently, service as required</td>
<td>Inspect steering linkage, ball joints and U-joints, Lubricate if equipped with grease fittings.</td>
</tr>
<tr>
<td></td>
<td>Replace engine air filter.</td>
</tr>
<tr>
<td>Every 5000 miles (8000 km) or six months</td>
<td>Change engine oil and filter.*</td>
</tr>
<tr>
<td></td>
<td>Inspect the wheels and related components for abnormal noise, wear, looseness or drag.</td>
</tr>
<tr>
<td></td>
<td>Rotate tires, inspect tires for wear and measure tread depth.</td>
</tr>
<tr>
<td>Every 60000 miles (96000 km)</td>
<td>Change transfer case fluid (Four-wheel drive vehicles).</td>
</tr>
</tbody>
</table>

*Reset your oil life monitoring system after each engine oil and filter change.
Scheduled Maintenance

<table>
<thead>
<tr>
<th>Exclusive use of E85 (Flex fuel vehicles only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every oil change interval</td>
</tr>
</tbody>
</table>

Exceptions

There are several exceptions to the Normal Schedule:

Normal vehicle axle maintenance: Rear axles and power take-off units with synthetic fluid and light-duty trucks equipped with Ford-design axles are lubricated for life; do not check or change fluid unless a leak is suspected, service is required or the assembly has been submerged in water. During long periods of trailer towing with outside temperatures above 70°F (21°C) and at wide-open throttle for long periods above 45 mph (72 km/h), change non-synthetic rear axle fluid every 3000 miles (4800 kilometers) or three months, whichever comes first. This interval can be waived if the axle is filled with 75W140 synthetic gear fluid meeting Ford specification WSL-M2C192-A, part number FITZ-19580-B, or equivalent. Add four ounces (118 milliliters) of additive friction modifier XL-3 (EST-M2C118-A), or equivalent, for complete refill of Traction-Lok rear axles. Change the axle fluid anytime the axle submerges 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 5000 miles (8000 kilometers).

If the available API SM or SN oils are not available, then the oil change interval is 3000 miles (4800 kilometers).

Engine air filter replacement: The life of the engine air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter.

Engine air filter replacement: The life of the engine air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter.

Police, Taxi and Livery vehicle axle maintenance: Change rear axle fluid every 100000 miles (160000 kilometers). Rear axle fluid change may be waived if the axle was filled with 75W140 synthetic gear fluid meeting Ford specification WSL-M2C192-A, part number FITZ-19580-B, or equivalent. Add four ounces (118 milliliters) of additive friction modifier XL-3 (EST-M2C118-A), or equivalent, for complete refill of Traction-Lok rear axles. Change the axle fluid anytime the axle submerges 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.

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If the available API SM or SN oils are not available, then the oil change interval is 3000 miles (4800 kilometers).

Engine air filter replacement: The life of the engine air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter.
Scheduled Maintenance

- Repair Order #: [ ]
- Distance: [ ]
- Engine hours (optional): [ ]
- Multi-point inspection (recommended): [ ]
- Signature: [ ]

Dealer stamp
Scheduled Maintenance

Repair Order #: 
Distance: 
Engine hours (optional): 
Multi-point inspection (recommended): 
Signature: 

Dealer stamp

Repair Order #: 
Distance: 
Engine hours (optional): 
Multi-point inspection (recommended): 
Signature: 

Dealer stamp

Repair Order #: 
Distance: 
Engine hours (optional): 
Multi-point inspection (recommended): 
Signature: 

Dealer stamp

451
Scheduled Maintenance

Repair Order #:
Distance:
Engine hours (optional):
Multi-point inspection (recommended):
Signature:
Dealer stamp
Scheduled Maintenance

Repair Order #: 
Distance: 
Engine hours (optional): 
Multi-point inspection (recommended): 
Signature: 

Dealer stamp

Repair Order #: 
Distance: 
Engine hours (optional): 
Multi-point inspection (recommended): 
Signature: 

Dealer stamp

Repair Order #: 
Distance: 
Engine hours (optional): 
Multi-point inspection (recommended): 
Signature: 

Dealer stamp

Page 453
Scheduled Maintenance

Repair Order #:
Distance:
Engine hours (optional):
Multi-point inspection (recommended):
Signature:
Dealer stamp

Repair Order #:
Distance:
Engine hours (optional):
Multi-point inspection (recommended):
Signature:
Dealer stamp

Repair Order #:
Distance:
Engine hours (optional):
Multi-point inspection (recommended):
Signature:
Dealer stamp

F150 (TF6)
Scheduled Maintenance
## Index

### 4

**4WD**
- See: Four-Wheel Drive ........................................ 151

### A

**A/C**
- See: Climate Control ........................................ 105

**About This Manual**
- Protecting the Environment ................................ 7

**ABS**
- See: Brakes .......................................................... 161

**ABS driving hints**
- See: Hints on Driving With Anti-Lock Brakes ........ 161

**Accessories**
- Exterior style ...................................................... 305
- Interior style ........................................................ 305
- Lifestyle ................................................................... 305
- Peace of mind ...................................................... 305

**Adjusting the Headlamps**
- Horizontal Aim Adjustment .................................. 252
- Vertical Aim Adjustment ....................................... 250

**Adjusting the Pedals** .......................................... 67

**Adjusting the Steering Wheel**
- Power Tilt and Telescope Steering Column .......... 64

**Airbag Disposal** .................................................. 47

**Air Conditioning**
- See: Climate Control ........................................... 105

**Alarm**
- See: Anti-Theft Alarm ......................................... 61

**Anti-Theft Alarm**
- Arming the Alarm .................................................. 61
- Disarming the Alarm.............................................. 61

**Appendices** ..................................................... 421

**Audible Warnings and Indicators** ...................... 84
- Headlamps On Warning Chime ............................... 84
- Key in Ignition Warning Chime ............................... 84
- Parking Brake On Warning Chime ......................... 85

**Audio Control** .................................................. 65
- Media ..................................................................... 66
- Seek, Next or Previous ......................................... 66
- Type 1 .................................................................... 65
- Type 2 .................................................................... 65

**Audio System** ................................................... 310
- General Information .............................................. 310

**Audio unit - Vehicles With:**
- AM/FM/CD/SYNC/Satellite Radio ......................... 312

**Audio unit - Vehicles With: AM/FM** ............... 311

**Audio unit - Vehicles With: Sony AM/FM/CD** .... 317

**Autolamps** .......................................................... 70

**Automatic Climate Control** ......................... 108

**Automatic Transmission**
- Brake-Shift Interlock ........................................... 148
- If Your Vehicle Gets Stuck In Mud or Snow .......... 150

**Understanding the Shift Positions of a 6-Speed Automatic Transmission** ............. 145

**Understanding your SelectShift Automatic® transmission** ..................................... 147

**Automatic Transmission Fluid Check** ............... 243

**Autowipers** ....................................................... 68

**Auxiliary Input Jack** ........................................... 323

**Auxiliary Power Points**
- 110 Volt AC Power Points .................................. 130
- 12 Volt DC Power Point ......................................... 130

**Locations** ............................................................ 130

### B

**Bonnet Lock**
- See: Opening and Closing the Hood .................. 233

**Booster Seats**
- Types of Booster Seats ....................................... 17

**Brake Fluid Check** ............................................ 244

**Brakes** ................................................................. 161
- General Information .............................................. 161

**Breaking-In** ....................................................... 208

**Bulb Specification Chart** .................................. 255

### C

**California Proposition 65** ................................ 11
## Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacities and Specifications</td>
<td>295</td>
</tr>
<tr>
<td>Technical Specifications</td>
<td>300</td>
</tr>
<tr>
<td>Car Wash</td>
<td></td>
</tr>
<tr>
<td>See: Cleaning the Exterior</td>
<td>258</td>
</tr>
<tr>
<td>Center Console</td>
<td>132</td>
</tr>
<tr>
<td>Changing a Bulb</td>
<td>253</td>
</tr>
<tr>
<td>Lamp Assembly Condensation</td>
<td>253</td>
</tr>
<tr>
<td>Replacing Brake/Tail/Turn/Reverse Lamp Bulbs</td>
<td>254</td>
</tr>
<tr>
<td>Replacing Cargo Lamp and High-mount Brake Lamp Bulbs</td>
<td>254</td>
</tr>
<tr>
<td>Replacing exterior mounted mirror turn signal indicator lamp bulbs</td>
<td>255</td>
</tr>
<tr>
<td>Replacing Fog Lamp Bulbs (If Equipped)</td>
<td>254</td>
</tr>
<tr>
<td>Replacing the License Plate Lamp Bulb</td>
<td>255</td>
</tr>
<tr>
<td>Changing a Fuse</td>
<td>223</td>
</tr>
<tr>
<td>Fuses</td>
<td>223</td>
</tr>
<tr>
<td>Changing a Road Wheel</td>
<td>288</td>
</tr>
<tr>
<td>Dissimilar Spare Wheel and Tire Assembly Information</td>
<td>288</td>
</tr>
<tr>
<td>Location of the Spare Tire and Tools</td>
<td>289</td>
</tr>
<tr>
<td>Tire Change Procedure</td>
<td>290</td>
</tr>
<tr>
<td>Changing the 12V Battery</td>
<td>245</td>
</tr>
<tr>
<td>Battery Management System (If Equipped)</td>
<td>246</td>
</tr>
<tr>
<td>Changing the Engine Air Filter - 3.5L Ecoboost™</td>
<td>247</td>
</tr>
<tr>
<td>Changing the Engine Air Filter - 3.7L/5.0L/6.2L</td>
<td>248</td>
</tr>
<tr>
<td>Changing the Wiper Blades</td>
<td>250</td>
</tr>
<tr>
<td>Checking MyKey System Status</td>
<td>54</td>
</tr>
<tr>
<td>Checking the Wiper Blades</td>
<td>250</td>
</tr>
<tr>
<td>Child Restraint and Safety Belt Maintenance</td>
<td>36</td>
</tr>
<tr>
<td>Child Safety</td>
<td>14</td>
</tr>
<tr>
<td>General Information</td>
<td>14</td>
</tr>
<tr>
<td>Child Safety Locks</td>
<td>28</td>
</tr>
<tr>
<td>Left-Hand Side</td>
<td>28</td>
</tr>
<tr>
<td>Right-Hand Side</td>
<td>28</td>
</tr>
<tr>
<td>Child Seat Positioning</td>
<td>15</td>
</tr>
<tr>
<td>Cleaning Leather Seats</td>
<td>261</td>
</tr>
<tr>
<td>WITHOUT THE KING RANCH EDITION</td>
<td>261</td>
</tr>
<tr>
<td>WITH THE KING RANCH EDITION</td>
<td>262</td>
</tr>
<tr>
<td>Cleaning Products</td>
<td>257</td>
</tr>
<tr>
<td>Cleaning the Alloy Wheels</td>
<td>257</td>
</tr>
<tr>
<td>Cleaning the Engine</td>
<td>259</td>
</tr>
<tr>
<td>Cleaning the Exterior</td>
<td>258</td>
</tr>
<tr>
<td>Cleaning Plastic Exterior Parts</td>
<td>258</td>
</tr>
<tr>
<td>Exterior Chrome</td>
<td>258</td>
</tr>
<tr>
<td>Stripes or Graphics (if equipped)</td>
<td>258</td>
</tr>
<tr>
<td>Underbody</td>
<td>258</td>
</tr>
<tr>
<td>Cleaning the Instrument Panel and Instrument Cluster Lens</td>
<td>260</td>
</tr>
<tr>
<td>Cleaning the Interior</td>
<td>260</td>
</tr>
<tr>
<td>Cleaning the Windows and Wiper Blades</td>
<td>259</td>
</tr>
<tr>
<td>Clearing All MyKeys</td>
<td>54</td>
</tr>
<tr>
<td>Climate</td>
<td>410</td>
</tr>
<tr>
<td>Climate Control Voice Commands</td>
<td>411</td>
</tr>
<tr>
<td>Climate Control</td>
<td>105</td>
</tr>
<tr>
<td>Coolant Check</td>
<td></td>
</tr>
<tr>
<td>See: Engine Coolant Check</td>
<td>240</td>
</tr>
<tr>
<td>Crash Sensors and Airbag Indicator</td>
<td>47</td>
</tr>
<tr>
<td>Creating a MyKey</td>
<td>52</td>
</tr>
<tr>
<td>Programming/Changing Configurable Settings</td>
<td>53</td>
</tr>
<tr>
<td>Cruise Control</td>
<td>66</td>
</tr>
<tr>
<td>Principle of Operation</td>
<td>174</td>
</tr>
<tr>
<td>Cruise control</td>
<td></td>
</tr>
<tr>
<td>See: Using Cruise Control</td>
<td>174</td>
</tr>
<tr>
<td>Customer Assistance</td>
<td>217</td>
</tr>
</tbody>
</table>

### D

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Recording</td>
<td>9</td>
</tr>
<tr>
<td>Event Data Recording</td>
<td>9</td>
</tr>
<tr>
<td>Service Data Recording</td>
<td>9</td>
</tr>
<tr>
<td>Daytime Running Lamps</td>
<td>71</td>
</tr>
<tr>
<td>Digital Audio</td>
<td>318</td>
</tr>
<tr>
<td>HD Radio Reception and Station Troubleshooting</td>
<td>319</td>
</tr>
<tr>
<td>Direction Indicators</td>
<td>72</td>
</tr>
<tr>
<td>Lane Change</td>
<td>72</td>
</tr>
<tr>
<td>Driver and Passenger Airbags</td>
<td>39</td>
</tr>
<tr>
<td>Children and Airbags</td>
<td>39</td>
</tr>
<tr>
<td>Proper Driver and Front Passenger Seating Adjustment</td>
<td>39</td>
</tr>
<tr>
<td>Driving Aids</td>
<td>175</td>
</tr>
<tr>
<td>Driving Hints</td>
<td>208</td>
</tr>
<tr>
<td>Driving Through Water</td>
<td>209</td>
</tr>
<tr>
<td>DRL</td>
<td></td>
</tr>
<tr>
<td>See: Daytime Running Lamps</td>
<td>71</td>
</tr>
</tbody>
</table>
### Index

**E**

- Economical Driving ........................................ 208
- Electronic Locking Differential ............................ 159
  - Activating the Electronic Locking Differential .......... 159
- Emission Control System ................................. 142
  - On-Board Diagnostics (OBD-II) ......................... 143
  - Readiness for Inspection/Maintenance (I/M) Testing .... 144
- End User License Agreement ................................ 421
  - SYNC® End User License Agreement (EULA) .............. 421
- Engine Block Heater ......................................... 135
  - Using the Engine Block Heater ............................ 136
- Engine Coolant Check ........................................ 240
  - Adding Engine Coolant .................................... 240
  - Checking the Engine Coolant ............................. 240
  - Recycled Engine Coolant .................................. 241
  - Severe Climates ............................................. 241
  - What You Should Know About Fail-Safe Cooling ........ 242
- Engine Immobilizer
  - See: Passive Anti-Theft System ........................... 60
- Engine Oil Check ............................................. 238
  - Adding Engine Oil ........................................ 238
- Engine Oil Dipstick .......................................... 238
- Engine Specifications ........................................ 295
  - Drivebelt Routing .......................................... 295
- Entertainment ................................................... 378
  - A/V Inputs .................................................. 394
  - AM/FM Radio ................................................ 380
  - Bluetooth Audio .......................................... 393
  - Browsing Device Content .................................. 378
  - CD ............................................................ 389
  - SD Card Slot and USB Port ................................ 390
  - SIRIUS® Satellite Radio (If Activated) .................. 385
  - Supported Media Players, Formats and Metadata Information .......... 393

**F**

- Essential Towing Checks .................................... 199
  - Before Towing a Trailer ................................... 204
  - Hitches ....................................................... 199
  - Launching or Retrieving a Boat or Personal Watercraft (PWC) .. 205
  - Safety Chains .............................................. 200
  - Trailer Brakes ............................................. 200
  - Trailer Lamps ............................................. 204
  - Trailer Towing Connector .................................. 199
  - Using a Step Bumper (If Equipped) ....................... 204
  - When Towing a Trailer .................................... 204
- Event Data Recording
  - See: Data Recording ......................................... 9
- Export Unique Options ........................................ 13
- Exterior Mirrors ............................................. 75
  - Auto-dimming Feature (if equipped) ....................... 76
  - Clearance Lamps .......................................... 76
  - Fold-Away Exterior Mirrors ............................... 76
  - Heated Exterior Mirrors .................................. 76
  - Integrated Blind Spot Mirror (If Equipped) ............. 77
  - Memory Mirrors ............................................ 76
  - Power Exterior Mirrors ................................... 75
  - Signal Indicator Mirrors .................................. 76
  - Telescoping Mirrors ....................................... 76

**F150 (TF6)**

- Fastening the Safety Belts ................................... 30
  - Fastening the Cinch Tongue ............................... 31
  - Restraint of Pregnant Women ............................. 31
  - Safety Belt Extension Assembly ......................... 33
  - Safety Belt Locking Modes ................................ 31
  - Using the Safety Belt with Cinch Tongue (Front Center Seat) .. 30
- Floor Mats ....................................................... 209
- Fog Lamps - Front
  - See: Front Fog Lamps ....................................... 71
- Foot Pedals
  - See: Adjusting the Pedals .................................. 67
- Ford Credit ....................................................... 11
  - (U.S. Only) .................................................. 11
- Ford Extended Service Plan (ESP) .......................... 307
  - SERVICE PLANS (CANADA ONLY) ....................... 309
  - SERVICE PLANS (U.S. Only) ............................. 307
- Four-Wheel Drive ............................................. 151
- Front Fog Lamps ............................................. 71
- Front Passenger Sensing System .......................... 40
Index

Front Seat Armrest ........................................... 120
Fuel and Refueling ........................................... 137
Fuel Consumption .......................................... 141
  Calculating Fuel Economy ................................ 142
  Filling the Tank ............................................. 141
Fuel Filter ..................................................... 245
Fuel Quality .................................................. 138
  Choosing the Right Fuel With a Flex Fuel Vehicle (If Equipped) ................................ 138
  Choosing the Right Fuel Without a Flex Fuel Vehicle (If Equipped) ................................ 138
Octane Recommendations ................................ 138
Fuel Shutoff .................................................. 214
Fuses ........................................................... 223
Fuse Specification Chart .................................... 224
  Auxiliary relay box (SVT Raptor only) ................. 232
  Passenger Compartment Fuse Panel .................... 228
  Power Distribution Box ................................... 224

Garage Door Opener
  See: Universal Garage Door Opener ................. 122
Gauges ......................................................... 80
  Engine Coolant Temperature Gauge ................... 81
  Engine Oil Pressure Gauge ............................... 81
  Fuel Gauge .................................................. 81
  Information Display ....................................... 81
  Transmission Fluid Temperature Gauge ................. 81
General Information on Radio Frequencies ........... 48
General Maintenance Information ..................... 436
  Multi-point Inspection .................................. 438
  Owner Checks and Services .............................. 437
  Protecting Your Investment ............................. 436
  Why Maintain Your Vehicle? ............................ 436
  Why Maintain Your Vehicle at Your Dealership? .... 436
Getting Assistance Outside the U.S. and Canada .... 220
Getting the Services You Need ........................... 217
Away From Home ............................................ 217

H
Handbrake
  See: Parking Brake ........................................ 162
Hazard Warning Flashers .................................. 214
HDC
  See: Using Hill Descent Control ....................... 168
Head Restraints ............................................. 112
  Adjusting the Head Restraint .......................... 113
Heated Seats ............................................... 118
  Rear Heated Seats ....................................... 119
Heated Windows and Mirrors ............................. 110
  Heated Exterior Mirror .................................. 110
  Heated Rear Window ..................................... 110
Heating
  See: Climate Control ..................................... 105
  Hill Start Assist .......................................... 162
  Using Hill Start Assist .................................. 162
Hints on Controlling the Interior Climate .......... 109
Hints on Driving With Anti-Lock Brakes ............. 161
Hood Lock
  See: Opening and Closing the Hood ................. 233

Ignition Switch .............................................. 133
In California (U.S. Only) .................................. 218
Information Display Control ............................. 66
  Type 1 ....................................................... 66
  Type 2 ....................................................... 66
Information Displays ...................................... 86
  General Information ..................................... 86
Information .................................................. 401
  911 Assist .................................................. 407
  Alerts ....................................................... 407
  Calendar .................................................... 407
  SIRIUS Travel Link ....................................... 404
  SYNC Services (If Equipped, United States Only) ................................ 402
  Vehicle Health Report .................................. 409

460
## Index

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Messages</td>
<td>97</td>
</tr>
<tr>
<td>4WD</td>
<td>104</td>
</tr>
<tr>
<td>AdvanceTrac® and Traction Control</td>
<td>97</td>
</tr>
<tr>
<td>Airbag</td>
<td>97</td>
</tr>
<tr>
<td>Alarm and Security</td>
<td>98</td>
</tr>
<tr>
<td>Battery and Charging System</td>
<td>98</td>
</tr>
<tr>
<td>Doors and Locks</td>
<td>98</td>
</tr>
<tr>
<td>Drivetrain</td>
<td>99</td>
</tr>
<tr>
<td>Engine</td>
<td>99</td>
</tr>
<tr>
<td>Fuel</td>
<td>99</td>
</tr>
<tr>
<td>Key</td>
<td>100</td>
</tr>
<tr>
<td>Maintenance</td>
<td>100</td>
</tr>
<tr>
<td>MyKey®</td>
<td>101</td>
</tr>
<tr>
<td>Off Road</td>
<td>102</td>
</tr>
<tr>
<td>Park Aid</td>
<td>101</td>
</tr>
<tr>
<td>Park Brake</td>
<td>102</td>
</tr>
<tr>
<td>Tire Pressure Monitoring System</td>
<td>103</td>
</tr>
<tr>
<td>Trailer</td>
<td>103</td>
</tr>
<tr>
<td>Installing Child Seats</td>
<td>19</td>
</tr>
<tr>
<td>Child Seats</td>
<td>19</td>
</tr>
<tr>
<td>Combining Safety Belt and LATCH Lower Anchors for Attaching Child Safety Seats</td>
<td>25</td>
</tr>
<tr>
<td>Front Seat Tether Strap Attachment</td>
<td>26</td>
</tr>
<tr>
<td>(Regular Cab)</td>
<td></td>
</tr>
<tr>
<td>Rear Seat Tether Strap Attachment</td>
<td>27</td>
</tr>
<tr>
<td>(SuperCab and SuperCrew)</td>
<td></td>
</tr>
<tr>
<td>Use of Inboard Lower Anchors from the Outboard Seating Positions (Center Seating Use)</td>
<td>24</td>
</tr>
<tr>
<td>Using Lap and Shoulder Belts</td>
<td>19</td>
</tr>
<tr>
<td>Using Lap and Shoulder Belts (Front Center Seating Position)</td>
<td>22</td>
</tr>
<tr>
<td>Using Lower Anchors and Tethers for Children (LATCH)</td>
<td>23</td>
</tr>
<tr>
<td>Using Tether Straps</td>
<td>25</td>
</tr>
<tr>
<td>Instrument Cluster</td>
<td>80</td>
</tr>
<tr>
<td>Instrument Lighting Dimmer</td>
<td>71</td>
</tr>
<tr>
<td>Interior Lamps</td>
<td>72</td>
</tr>
<tr>
<td>Front Row Map Lamps (if equipped)</td>
<td>72</td>
</tr>
<tr>
<td>Rear Courtesy, Reading, Cargo Lamps (If Equipped)</td>
<td>73</td>
</tr>
<tr>
<td>Rear Dome, Courtesy Lamps (If Equipped)</td>
<td>73</td>
</tr>
<tr>
<td>Rear Dome Lamp (If Equipped)</td>
<td>73</td>
</tr>
<tr>
<td>Interior Mirror</td>
<td>77</td>
</tr>
<tr>
<td>Auto-Dimming Mirror</td>
<td>78</td>
</tr>
<tr>
<td>Introduction</td>
<td>7</td>
</tr>
<tr>
<td>Jump-Starting the Vehicle</td>
<td>214</td>
</tr>
<tr>
<td>Connecting the Jumper Cables</td>
<td>214</td>
</tr>
<tr>
<td>Jump Starting</td>
<td>215</td>
</tr>
<tr>
<td>Preparing Your Vehicle</td>
<td>214</td>
</tr>
<tr>
<td>Removing the Jumper Cables</td>
<td>215</td>
</tr>
<tr>
<td>Keyless Entry</td>
<td>57</td>
</tr>
<tr>
<td>SECURICODE™ KEYLESS ENTRY KEYPAD</td>
<td>57</td>
</tr>
<tr>
<td>Keys and Remote Controls</td>
<td>48</td>
</tr>
<tr>
<td>Lighting Control</td>
<td>70</td>
</tr>
<tr>
<td>Headlamp Flasher</td>
<td>70</td>
</tr>
<tr>
<td>High Beams</td>
<td>70</td>
</tr>
<tr>
<td>Lighting</td>
<td>70</td>
</tr>
<tr>
<td>Limited Slip Differential</td>
<td>159</td>
</tr>
<tr>
<td>Load Carrying</td>
<td>177</td>
</tr>
<tr>
<td>Load Limit</td>
<td>177</td>
</tr>
<tr>
<td>Special Loading Instructions for Owners of Pick-up Trucks and Utility-type Vehicles</td>
<td>184</td>
</tr>
<tr>
<td>Vehicle Loading - with and without a Trailer</td>
<td>177</td>
</tr>
<tr>
<td>Locking and Unlocking</td>
<td>56</td>
</tr>
<tr>
<td>Autolock and Autounlock</td>
<td>56</td>
</tr>
<tr>
<td>Battery Saver</td>
<td>56</td>
</tr>
<tr>
<td>Illuminated Entry</td>
<td>57</td>
</tr>
<tr>
<td>Power Door Locks</td>
<td>56</td>
</tr>
<tr>
<td>Remote Control</td>
<td>56</td>
</tr>
<tr>
<td>Smart Unlocks</td>
<td>56</td>
</tr>
<tr>
<td>Locks</td>
<td>56</td>
</tr>
<tr>
<td>Lug Nuts</td>
<td>56</td>
</tr>
<tr>
<td>See: Changing a Road Wheel</td>
<td>288</td>
</tr>
<tr>
<td>Maintenance</td>
<td>233</td>
</tr>
<tr>
<td>General Information</td>
<td>233</td>
</tr>
<tr>
<td>Manual Climate Control</td>
<td>105</td>
</tr>
</tbody>
</table>
Index

| Manual Seats | 114 |
| Manual Lumbar | 115 |
| Moving the Seat Backward and Forward | 115 |
| Recline Adjustment | 115 |
| Media Hub | 324 |
| Memory Function | 116 |
| Easy Entry and Exit Feature | 117 |
| Message Center | 86 |
| Mirrors | 110 |
| See: Heated Windows and Mirrors | 74 |
| Mobile Communications Equipment | 12 |
| Moonroof | 78 |
| Bounce-Back | 79 |
| Opening and Closing the Moonroof | 79 |
| Venting the Moonroof | 79 |
| Motorcraft Parts | 297 |
| MyFord Touch™ | 361 |
| General Information | 361 |
| MyKey Troubleshooting | 55 |
| MyKey™ | 52 |
| Principle of Operation | 52 |

| N |
| Navigation | 412 |
| cityseekr | 414 |
| Map Mode | 416 |
| Navigation Map Updates | 419 |
| Navigation Voice Commands | 419 |
| Point of Interest (POI) Categories | 414 |
| Quick-touch Buttons | 418 |
| Setting a Destination | 413 |
| Setting Your Navigation Preferences | 415 |
| Normal Scheduled Maintenance | 439 |
| Intelligent Oil-Life Monitor® (Vehicles with a 3.5L, 3.7L and 5.0L Engine) | 439 |
| Normal Maintenance Intervals | 441 |

| O |
| Oil Check |
| See: Engine Oil Check | 238 |
| Opening and Closing the Hood | 233 |

| Ordering Additional Owner's Literature | 221 |
| Obtaining a French Owner's Manual | 221 |
| Overhead Console | 132 |

| P |
| Parking Aid | 170 |
| Rear Sensing System | 170 |
| Parking Aids | 170 |
| Parking Brake | 162 |
| Passive Anti-Theft System | 60 |
| SecuriLock™ | 60 |
| PATS |
| See: Passive Anti-Theft System | 60 |
| Pedals | 67 |
| Perchlorate | 11 |
| Personal Safety System™ | 37 |
| How Does the Personal Safety System Work? | 37 |
| Phone | 395 |
| Making Calls | 397 |
| Pairing Subsequent Phones | 397 |
| Pairing Your Phone for the First Time | 396 |
| Phone Menu Options | 397 |
| Phone Settings | 399 |
| Phone Voice Commands | 400 |
| Receiving Calls | 397 |
| Text Messaging | 398 |
| Post-Crash Alert System | 216 |
| Power Door Locks |
| See: Locking and Unlocking | 56 |
| Power Running Boards | 62 |
| Power Seats | 115 |
| Power Lumbar | 116 |
| Power Recline | 115 |
| Power Steering Fluid Check | 244 |
| 3.5L, 3.7L and 5.0L Engines | 244 |
| 6.2L Engines | 244 |
| Power Windows | 74 |
| Accessory Delay | 75 |
| Bounce-Back | 74 |
| One-Touch Up or Down | 74 |
| Power Sliding Back Window | 75 |
| Window Lock | 75 |
Index

R
Rear Axle.........................................................159
Rear Seat Armrest.................................121
Rear Seats.....................................................117
  Folding up the Rear Seat Cushion (Super Crew)............................117
  Returning the Seat to the Seating Position........................................117
Rear View Camera..........................................171
  Using the Rear View Camera System..............................171
Rear View Camera
  See: Rear View Camera........................................171
Recommended Towing Weights...............190
  Calculating the Maximum Loaded Trailer Weight for Your Vehicle.........198
Refueling......................................................140
  Easy Fuel™ Capless Fuel System...........................................140
Remote Control...........................................48
  Car Finder..................................................................49
  Integrated Keyhead Transmitters........................................48
  Memory Feature.........................................................49
  Remote Start..........................................................50
  Replacing the Battery.................................................48
  Sounding a Panic Alarm..............................................50
Remote Start..................................................110
  Automatic Settings..................................................111
  Heated and Cooled Devices........................................111
  Last Settings..........................................................111
Removing a Headlamp...............................252
  Replacing Halogen Headlamp Bulbs (If Equipped)..........................252
  Replacing HID Headlamp Bulbs (If Equipped)................................253
Repairing Minor Paint Damage...............257
Replacement Parts
  Recommendation...............................................11
  Collision Repairs................................................11
  Scheduled Maintenance and Mechanical Repairs.............................11
  Warranty on Replacement Parts........................................12
Replacing a Lost Key or Remote Control........51
Reporting Safety Defects (Canada Only)....222
Reporting Safety Defects (U.S. Only)........221
Roadside Assistance.................................213
  Vehicles Sold In Canada : Getting Roadside Assistance.................213
  Vehicles Sold In Canada : Using Roadside Assistance..................213
  Vehicles Sold In The U.S.: Getting Roadside Assistance...............213
  Vehicles Sold In The U.S.: Using Roadside Assistance................213
Roadside Emergencies............................213
Running-In
  See: Breaking-In...............................................208
Running Out of Fuel...............................208
  Refilling With a Portable Fuel Container....................................139
S
Safety Belt Height Adjustment..................33
Safety Belt Minder.......................................34
  Belt-Minder®......................................................34
Safety Belts...................................................29
  Principle of Operation.............................................29
Safety Belt Warning Lamp and Indicator
  Chime..................................................................33
  Conditions of operation...............................................34
Safety Canopy™..........................................45
Safety Precautions....................................137
Satellite Radio............................................321
  Satellite Radio Electronic Serial Number (ESN)..............................322
  Satellite Radio Reception Factors........................................321
  SIRIUS® Satellite Radio Service........................................321
  Troubleshooting...................................................322
Scheduled Maintenance Record..................449
Scheduled Maintenance............................436
Seats............................................................112
Security.........................................................60
Settings...........................................................368
  Clock....................................................................369
  Display....................................................................369
  Settings....................................................................371
  Sound.....................................................................370
  Vehicle....................................................................370
Side Airbags...............................................44
Sitting in the Correct Position................112
Snow Chains
  See: Using Snow Chains........................................282
Index

Snowplowing .......................................................... 210
Engine temperature while plowing.......................... 211
Installing the Snowplow ........................................... 210
Operating the Vehicle with the Snowplow
Attached ................................................................... 211
Outside Air Temperature While
Plowing ....................................................................... 212
Snowplowing with your Airbag Equipped
Vehicle ....................................................................... 211
Transmission operation while
plowing ...................................................................... 212
Special Notices .......................................................... 12
New Vehicle Limited Warranty ................................. 12
Special Instructions .................................................... 12
Special Operating Conditions Scheduled
Maintenance .................................................................. 444
3.5L, 3.7L and 5.0L Engines ....................................... 444
6.2L Engine ............................................................... 446
Exceptions .................................................................. 448
Speed Control
See: Cruise Control .................................................... 174
Stability Control .......................................................... 165
Principle of Operation ................................................. 165
Starter Switch
See: Ignition Switch ................................................... 133
Starting a Gasoline Engine ......................................... 133
Cold Weather Starting (Flexible Fuel
Vehicles Only) ........................................................... 134
Failure to Start .......................................................... 134
Guarding Against Exhaust Fumes .............................. 135
Important Ventilating Information ............................. 135
Stopping the Engine When Your Vehicle is
Moving ........................................................................ 134
Stopping the Engine When Your Vehicle is
Stationary .................................................................... 134
Starting and Stopping the Engine ...................... 133
General Information .................................................. 133
Steering ................................................................. 175
Electric Power Steering (3.7L, 5.0L and 3.5L
EcoBoost™ engines) ................................................... 175
Hydraulic Steering (6.2L engine) ......................... 175
Steering Wheel .......................................................... 64
Storage Compartments ............................................. 132
Sunroof
See: Moonroof ............................................................ 78
Sun Visors .................................................................. 78
Illuminated Vanity Mirror ......................................... 78
Slide-on-rod .............................................................. 78
Supplementary Restraints System .............................. 38
Principle of Operation ............................................... 38
Symbols Glossary ..................................................... 7
SYNC™ Applications and
Services ................................................................. 340
911 Assist .................................................................. 340
SYNC AppLink ........................................................ 340
SYNC Services: Traffic, Directions &
Information (TDI) .................................................... 343
Vehicle Health Report .............................................. 342
SYNC™ ................................................................. 325
General Information .................................................. 325
SYNC™ Troubleshooting ......................................... 355

T

Tailgate ................................................................. 184
Bed Extender ............................................................ 187
Box Side Step ........................................................... 186
Tailgate Lock ............................................................. 184
Tailgate Removal ....................................................... 185
Tailgate Step ............................................................. 185
Technical Specifications
See: Capacities and Specifications ......................... 295
Terrain Response ........................................................ 168
Principle of Operation .............................................. 168
The Better Business Bureau (BBB) Auto
Line Program (U.S. Only) ......................................... 219
Tire Care ................................................................. 267
Glossary of Tire Terminology ................................. 268
Information About Uniform Tire Quality
Grading ..................................................................... 267
Information Contained on the Tire
Sidewall ..................................................................... 269
Temperature A B C ...................................................... 268
Traction AA A B C ....................................................... 268
Treadwear ................................................................ 267
Tire Pressure Monitoring System .......................... 282
Changing Tires With a Tire Pressure
Monitoring System .................................................. 283
Understanding Your Tire Pressure
Monitoring System .................................................. 284
Tires
See: Wheels and Tires ............................................... 265
Towing a Trailer ....................................................... 189
Load Placement ........................................................ 189

464

F150 (TF6)
Index

Towing the Vehicle on Four Wheels.........................................................206
Emergency Towing.........................................................206
Recreational Towing.........................................................206
Towing......................................................................................189
Traction Control...............................................................164
Principle of Operation...............................................................164
Trailer Sway Control.............................................................190
Transfer Case Fluid Check.........................................................239
Transmission Code Designation.........................................................299
Transmission..................................................................................145
Transmission
See: Transmission................................................................................145
Transporting the Vehicle..............................................................205

Under Hood Overview - 3.5L Ecoboost™.........................................................234
Under Hood Overview - 3.7L.................................................................235
Under Hood Overview - 5.0L.................................................................236
Under Hood Overview - 6.2L.................................................................237
Universal Garage Door Opener...............................................................122
CAR2U® Home Automation System.........................................................122
HomeLink Wireless Control System...........................................................125
USB Port.........................................................................................324
Using Cruise Control.............................................................................174
Switching Cruise Control Off.................................................................174
Switching Cruise Control On.................................................................174
Using Four-Wheel Drive.............................................................................151
4WD Indicator Lights..............................................................................151
Driving Off-Road With Truck and Utility Vehicles.............................................154
How Your Vehicle Differs From Other Vehicles.............................................154
Using the 2-Speed Automatic 4WD System.....................................................152
Using the Electronic Shift on the Fly 4WD system.............................................151
Using Hill Descent Control.............................................................................168
Hill descent modes.....................................................................................168
Using MyKey With Remote Start Systems.......................................................54
Using Power Running Boards......................................................................62
Automatic Power Deploy..............................................................................62
Automatic Power Stow..............................................................................62
Bounce-back.............................................................................................63
Enabling and Disabling..............................................................................62
Manual Power Deploy..............................................................................62
Using Snow Chains.....................................................................................282
Using Stability Control.............................................................................166
AdvanceTrac™ with Roll Stability Control™ (RSC™)........................................166
Using SYNC™ With Your Media Player.........................................................347
Accessing Your Play Menu...........................................................................351
Connecting Your Digital Media Player to the USB Port..................................347
Media Menu Features...................................................................................349
Media Voice Commands.............................................................................347
System Settings.........................................................................................353
What's Playing?.........................................................................................347
Using SYNC™ With Your Phone.................................................................329
Accessing Features through the Phone Menu................................................333
Accessing Your Phone Settings....................................................................336
Making Calls...............................................................................................332
Pairing a Phone for the First Time...............................................................330
Pairing Subsequent Phones.........................................................................330
Phone Options during an Active Call.........................................................332
Phone Voice Commands.............................................................................330
Receiving Calls............................................................................................332
System Settings.........................................................................................337
Text Messaging............................................................................................335
Using Traction Control.............................................................................164
System Indicator Lights and Messages.........................................................164
Using Voice Recognition.............................................................................327
Initiating a Voice Session.............................................................................327
System Interaction and Feedback...............................................................328
Utilizing the Mediation/Arbitration Program (Canada Only)..........................219

Vehicle Care............................................................................................257
General Information...................................................................................257
Vehicle Certification Label...........................................................................298
Vehicle Identification Number....................................................................297
Index

Vehicle Storage.............................................262
Battery..........................................................263
Body....................................................................263
Brakes..................................................................263
Cooling system..................................................263
Engine.................................................................. 263
Fuel system.........................................................263
General..............................................................262
Miscellaneous.....................................................263
Removing Vehicle From Storage.........................263
Tires......................................................................263
Ventilated Seats............................................119
Heated and Ventilated Seats Air Filter Replacement .............................................120
Ventilation
See: Climate Control........................................105
VIN
See: Vehicle Identification Number.................297
Voice Control.....................................................66

W
Warning Lamps and Indicators......................81
4X2.......................................................................84
4X4 Auto............................................................84
4X4 HIGH...........................................................84
4X4 LOW.............................................................84
Anti-Lock Braking System..........................82
Battery..............................................................82
Brake System.......................................................82
Check 4X4...........................................................82
Cruise Control...................................................82
Direction Indicator.................................................82
Door Ajar.............................................................82
Electronic Locking Differential...................82
Engine Coolant Temperature.........................82
Engine Oil............................................................82
Fasten Safety Belt..............................................83
Front Airbag........................................................83
High Beam...........................................................83
Hill Descent........................................................83
Low Fuel Level.....................................................83
Low Tire Pressure Warning...........................83
Powertrain Malfunction/Reduced
  Power/Electronic Throttle Control...............83
Service Engine Soon........................................83
Traction and Stability Control.......................84
Traction and Stability Control Off...................84
Transmission Tow/Haul.....................................84
Washer Fluid Check........................................244
Washers
See: Cleaning the Exterior.............................258
See: Wipers and Washers.................................68
Waxing.............................................................259
Wheel Nuts
See: Changing a Road Wheel.........................288
Wheels and Tires...............................................265
General Information..........................................265
Technical Specifications.................................293
Windows and Mirrors....................................74
Windshield Washers.........................................69
Windshield Wipers..............................................68
Speed dependent wipers (if equipped)...68
Wipers and Washers............................................68