

## Table of Contents

|                                     |            |
|-------------------------------------|------------|
| <b>Introduction</b>                 | <b>4</b>   |
| <b>Instrument Cluster</b>           | <b>12</b>  |
| Warning and control lights          | 12         |
| Gauges                              | 18         |
| <b>Entertainment Systems</b>        | <b>21</b>  |
| AM/FM stereo with CD                | 21         |
| AM/FM stereo cassette with CD       | 26         |
| AM/FM stereo with in-dash six CD    | 31         |
| <b>Climate Controls</b>             | <b>41</b>  |
| Manual heating and air conditioning | 41         |
| Automatic temperature control       | 43         |
| Auxiliary passenger climate control | 46         |
| Rear window defroster               | 47         |
| <b>Lights</b>                       | <b>48</b>  |
| <b>Driver Controls</b>              | <b>58</b>  |
| Windshield wiper/washer control     | 58         |
| Steering wheel adjustment           | 59         |
| Power windows                       | 63         |
| Mirrors                             | 65         |
| Speed control                       | 66         |
| Message center                      | 76         |
| <b>Locks and Security</b>           | <b>104</b> |
| Keys                                | 104        |
| Locks                               | 104        |
| Anti-theft system                   | 107        |

## Table of Contents

|                                        |            |
|----------------------------------------|------------|
| <b>Seating and Safety Restraints</b>   | <b>120</b> |
| Seating                                | 120        |
| Safety restraints                      | 132        |
| Airbags                                | 147        |
| Child restraints                       | 161        |
| <b>Tires, Wheels and Loading</b>       | <b>176</b> |
| Tire Information                       | 178        |
| Tire Inflation                         | 180        |
| Tire Pressure Monitoring System (TPMS) | 192        |
| Vehicle loading                        | 198        |
| Trailer towing                         | 205        |
| Recreational towing                    | 212        |
| <b>Driving</b>                         | <b>213</b> |
| Starting                               | 213        |
| Brakes                                 | 215        |
| Traction control/AdvanceTrac           | 217        |
| Transmission operation                 | 223        |
| <b>Roadside Emergencies</b>            | <b>241</b> |
| Getting roadside assistance            | 241        |
| Hazard flasher switch                  | 243        |
| Fuel pump shut-off switch              | 243        |
| Fuses and relays                       | 245        |
| Changing tires                         | 252        |
| Lug Nut Torque                         | 261        |
| Jump starting                          | 262        |
| Wrecker towing                         | 267        |
| <b>Customer Assistance</b>             | <b>268</b> |
| Reporting safety defects (U.S. only)   | 274        |
| <b>Cleaning</b>                        | <b>275</b> |

## Table of Contents

|                                       |            |
|---------------------------------------|------------|
| <b>Maintenance and Specifications</b> | <b>282</b> |
| Engine compartment                    | 284        |
| Engine oil                            | 287        |
| Battery                               | 292        |
| Engine Coolant                        | 294        |
| Fuel information                      | 301        |
| Air filter(s)                         | 313        |
| Part numbers                          | 314        |
| Refill capacities                     | 315        |
| Lubricant specifications              | 318        |
| <b>Accessories</b>                    | <b>325</b> |
| <b>Index</b>                          | <b>327</b> |

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## Introduction

### CALIFORNIA Proposition 65 Warning



**WARNING:** Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, 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.

### CONGRATULATIONS

Congratulations on acquiring your new Ford. Please take the time to get well acquainted with your vehicle by reading this handbook. The more you know and understand about your vehicle, the greater the safety and pleasure you will derive from driving it.

For more information on Ford Motor Company and its products visit the following website:

- In the United States: [www.ford.com](http://www.ford.com)
- In Canada: [www.ford.ca](http://www.ford.ca)
- In Australia: [www.ford.com.au](http://www.ford.com.au)
- In Mexico: [www.ford.com.mx](http://www.ford.com.mx)

Additional owner information is given in separate publications.

This *Owner's Guide* describes every option and model variant available and therefore some of the items covered may not apply to your particular vehicle. Furthermore, due to printing cycles it may describe options before they are generally available.

Remember to pass on this *Owner's Guide* when reselling the vehicle. It is an integral part of the vehicle.



**Fuel pump shut-off switch:** In the event of an accident the safety switch will automatically cut off the fuel supply to the engine. The switch can also be activated through sudden vibration (e.g. collision when parking). To reset the switch, refer to the *Fuel pump shut-off switch* in the *Roadside Emergencies* chapter.

## Introduction

### SAFETY AND ENVIRONMENT PROTECTION



#### Warning symbols in this guide

How can you reduce the risk of personal injury to yourself or others? In this guide, answers to such questions are contained in comments highlighted by the warning triangle symbol. These comments should be read and observed.



#### Warning symbols on your vehicle

When you see this symbol, it is imperative that you consult the relevant section of this guide before touching or attempting adjustment of any kind.



#### Protecting the environment

We must all play our part in protecting the environment. Correct vehicle usage and the authorized disposal of waste, cleaning and lubrication materials are significant steps towards this aim. Information in this respect is highlighted in this guide with the tree symbol.



### BREAKING-IN YOUR VEHICLE

Your vehicle does not need an extensive break-in. Try not to drive continuously at the same speed for the first 1,000 miles (1,600 km) of new vehicle operation. Vary your speed frequently in order to give the moving parts a chance to break in.

Drive your new vehicle at least 500 miles (800 km) before towing a trailer. For more detailed information about towing a trailer, refer to *Trailer towing* in the *Tires, Wheels and Loading* chapter.

Do not add friction modifier compounds or special break-in oils during the first few thousand miles (kilometers) of operation, since these additives may prevent piston ring seating. See *Engine oil* in the *Maintenance and Specifications* chapter for more information on oil usage.

## Introduction

### 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 Guide* that is provided to you along with your *Owner's Guide*.

#### Special instructions

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



Please read the section *Supplemental restraint system (SRS)* in the *Seating and Safety Restraints* chapter. Failure to follow the specific warnings and instructions could result in personal injury.



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

#### 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 vehicle diagnostic information through a direct connection to your vehicle when diagnosing or servicing your vehicle.

## Introduction

### ***Event Data Recording***

Other modules in your vehicle — event data recorders — are capable of collecting and storing data during a crash or near crash event. The recorded information may assist in the investigation of such an event. The modules may record information about both the vehicle and the occupants, potentially including information such as:

- how various systems in your vehicle were operating;
- whether or not the driver and passenger seatbelts were buckled;
- how far (if at all) the driver was depressing the accelerator and/or the brake pedal;
- how fast the vehicle was traveling; and
- where the driver was positioning the steering wheel.

To access this information, special equipment must be directly connected to the recording modules. 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.

## Introduction

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



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

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

Be sure to read *Driving off road* in the *Driving* chapter.

#### Using your vehicle with a snowplow

##### **Do not use this vehicle for snowplowing.**

Your vehicle is not equipped with a snowplowing package.

#### 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.

## Introduction

### Cell phone use

The use of Mobile Communications Equipment has become increasingly important in the conduct of business and personal affairs. However, drivers must not compromise their 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, in-vehicle communications systems, telematics devices and portable two-way radios.



A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communications Equipment.

### Middle East/North Africa vehicle specific information

For your particular global region, your vehicle may be equipped with features and options that are different from the ones that are described in this *Owner's Guide*; therefore, a supplement has been supplied that complements this book. By referring to the pages in the provided supplement, you can properly identify those features, recommendations and specifications that are unique to your vehicle. **Refer to this Owner's Guide for all other required information and warnings.**

## Introduction

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

### Vehicle Symbol Glossary

|                                 |                                                                                     |                                   |                                                                                      |
|---------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------|
| Safety Alert                    |    | See Owner's Guide                 |    |
| Fasten Safety Belt              |    | Airbag - Front                    |    |
| Airbag - Side                   |    | Child Seat                        |    |
| Child Seat Installation Warning |    | Child Seat Lower Anchor           |    |
| Child Seat Tether Anchor        |    | Brake System                      |    |
| Anti-Lock Brake System          |   | Brake Fluid - Non-Petroleum Based |   |
| Powertrain Malfunction          |  | Speed Control                     |  |
| Master Lighting Switch          |  | Hazard Warning Flasher            |  |
| Fog Lamps-Front                 |  | Fuse Compartment                  |  |
| Fuel Pump Reset                 |  | Windshield Wash/Wipe              |  |
| Windshield Defrost/Demist       |  | Rear Window Defrost/Demist        |  |

## Introduction

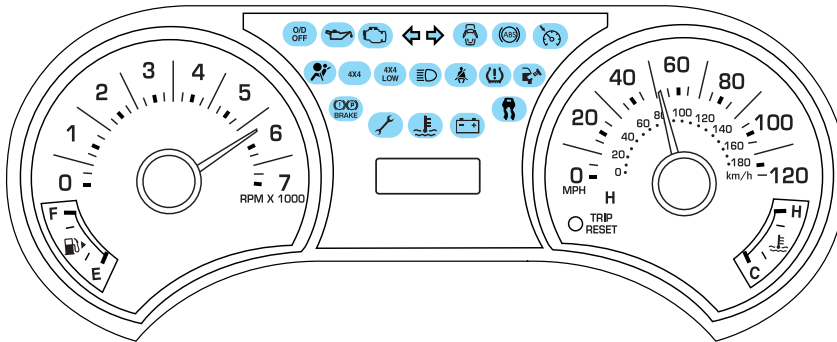
### Vehicle Symbol Glossary

|                                     |                                                                                     |                                                   |                                                                                      |
|-------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------|
| Power Windows<br>Front/Rear         |    | Power Window Lockout                              |    |
| Child Safety Door<br>Lock/Unlock    |    | Interior Luggage<br>Compartment Release<br>Symbol |    |
| Panic Alarm                         |    | Engine Oil                                        |    |
| Engine Coolant                      |    | Engine Coolant<br>Temperature                     |    |
| Do Not Open When Hot                |    | Battery                                           |    |
| Avoid Smoking, Flames,<br>or Sparks |    | Battery Acid                                      |    |
| Explosive Gas                       |  | Fan Warning                                       |  |
| Power Steering Fluid                |  | Maintain Correct Fluid<br>Level                   |  |
| Emission System                     |  | Engine Air Filter                                 |  |
| Passenger Compartment<br>Air Filter |  | Jack                                              |  |
| Check Fuel Cap                      |  | Low Tire Pressure<br>Warning                      |  |

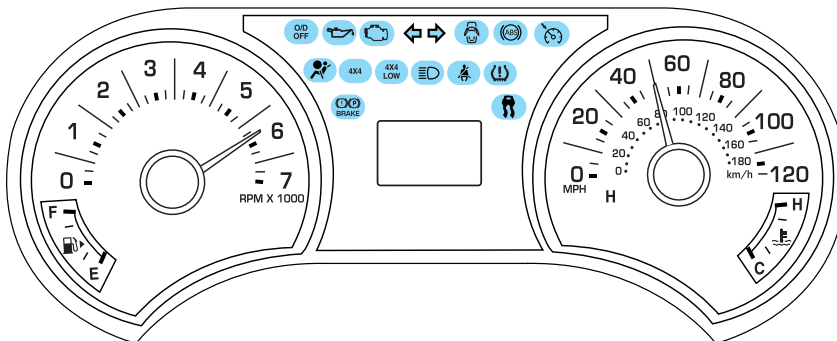
## Instrument Cluster

### WARNING LIGHTS AND CHIMES

#### Standard instrument cluster



#### Optional instrument cluster



Warning lights and gauges can alert you to a vehicle condition that may become serious enough to cause expensive repairs. A warning light may illuminate when a problem exists with one of your vehicle's functions. Many lights will illuminate when you start your vehicle to make sure the

## Instrument Cluster

bulb works. If any light remains on after starting the vehicle, refer to the respective system warning light for additional information.

**Note:** Some Warning Lights will display in the Message Center as words and function the same as the warning light.

**Note:** Depending on which options your vehicle has, some indicators may not be present in your vehicle.

**Service engine soon:** The *Service engine soon* indicator light illuminates when the ignition is first turned to the ON position to check the bulb. Solid illumination after the engine is started indicates the On Board Diagnostics System (OBD-II) has detected a malfunction. Refer to *On board diagnostics (OBD-II)* in the *Maintenance and Specifications* chapter. If the light is blinking, engine misfire is occurring which could damage your catalytic converter. Drive in a moderate fashion (avoid heavy acceleration and deceleration) and have your vehicle serviced immediately by your authorized dealer.



If the light remains ON while driving, the temperature of the engine may be too high, refer to *Engine coolant* in the *Maintenance and specifications* chapter.



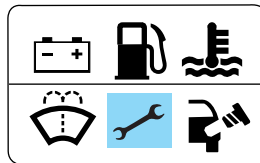
Under engine misfire conditions, excessive exhaust temperatures could damage the catalytic converter, the fuel system, interior floor coverings or other vehicle components, possibly causing a fire.

**Powertrain malfunction indicator:** Illuminates when a powertrain or a 4x4 fault has been detected. Contact your authorized dealer as soon as possible.

- Standard instrument cluster



- Optional instrument cluster



## Instrument Cluster

**Brake system warning light:** To confirm the brake system warning light is functional, it will momentarily illuminate when the ignition is turned to the ON position when the engine is not running, or in a position between ON and START, or by applying the parking brake when the ignition is turned to the ON position. If the brake system warning light does not illuminate at this time, seek service immediately from your authorized dealer. Illumination after releasing the parking brake indicates low brake fluid level and the brake system should be inspected immediately by your authorized dealer.



Driving a vehicle with the brake system warning light on is dangerous. A significant decrease in braking performance may occur. It will take you longer to stop the vehicle. Have the vehicle checked by your authorized dealer.

**Anti-lock brake system:** If the ABS light stays illuminated or continues to flash, a malfunction has been detected, have the system serviced immediately by your authorized dealer. Normal braking is still functional unless the brake warning light also is illuminated.



**Airbag readiness:** If this light fails to illuminate when ignition is turned to ON, continues to flash or remains on, have the system serviced immediately by your authorized dealer. A chime will also sound when a malfunction in the supplemental restraint system has been detected.



**Safety belt:** Reminds you to fasten your safety belt. A chime will also sound to remind you to fasten your safety belt.



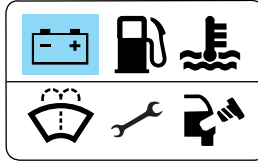
**Charging system:** Illuminates when the battery is not charging properly.

- Standard instrument cluster



## Instrument Cluster

- Optional instrument cluster



**Engine oil pressure:** Illuminates when the oil pressure falls below the normal range. Check the oil level and add oil if needed. Refer to *Engine oil* in the *Maintenance and Specifications* chapter.



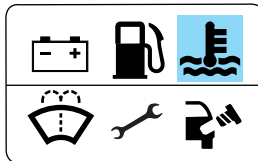
If the light remains ON while driving, the temperature of the engine may be too high, refer to *Engine coolant* in the *Maintenance and Specifications* chapter.

**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. Refer to *Engine coolant* in the *Maintenance and Specifications* chapter.

- Standard instrument cluster



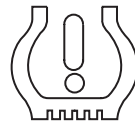
- Optional instrument cluster



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

### Low tire pressure warning:

Illuminates when your tire pressure is low. If the light remains ON at start up or while driving, the tire pressure should be checked. Refer to *Inflating Your Tires* in the *Tires, Wheels and Loading* chapter. When the ignition is first turned to ON, the light will illuminate for 3 seconds to ensure the bulb is working. If the light does not turn ON, have the system inspected by your authorized dealer. For more



## Instrument Cluster

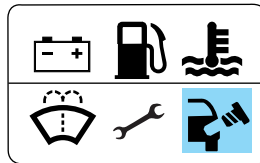
information on this system, refer to *Understanding Your Tire Pressure Monitoring System* in the *Tires, Wheels and Loading* chapter.

**Check fuel cap:** Illuminates when the fuel cap may not be properly installed. Continued driving with this light on may cause the Service engine soon warning light to come on. Refer to *Fuel filler cap* in the *Maintenance and Specifications* chapter.

- Standard instrument cluster



- Optional instrument cluster



**Speed control:** Illuminates when the speed control is activated. Turns off when the speed control system is deactivated.



**O/D off:** Illuminates when the overdrive function of the transmission has been turned off, refer to the *Driving* chapter. If the light flashes steadily or does not illuminate, have the transmission serviced soon, or damage may occur.

O/D  
OFF

**AdvanceTrac®:** Flashes when the AdvanceTrac® with RSC system is active. Illuminates solid when the system has been disabled (by the driver or as a result of a system failure), refer to the *Driving* chapter for more information.



**Four wheel drive low (if equipped):** Illuminates when four-wheel drive low is engaged. If the light fails to illuminate when the

4x4  
LOW

## Instrument Cluster

ignition is turned ON, or remains on, have the system serviced immediately by your authorized dealer.

### **Four wheel drive high (if equipped):**

**4x4**

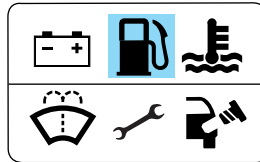
Illuminates when four-wheel drive is engaged. If the light fails to illuminate when the ignition is turned ON, or remains on, have the system serviced immediately by your authorized dealer.

**Door ajar:** Illuminates when the ignition is in the ON position and any door, liftgate or the liftgate glass is open.



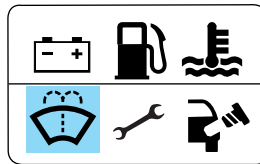
### **Low fuel (if equipped):**

Illuminates when the fuel level in the fuel tank is at or near empty (refer to *Fuel gauge* in this chapter).



### **Low washer fluid (if equipped):**

Illuminates when the windshield washer fluid is low.



**Turn signal:** Illuminates when the left or right turn signal or the hazard lights are turned on. If the indicators stay on or flash faster, check for a burned out bulb.



**High beams:** Illuminates when the high beam headlamps are turned on.



**Key-in-ignition warning chime:** Sounds when the key is left in the ignition in the OFF/LOCK or ACCESSORY position and the driver's door is opened.

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

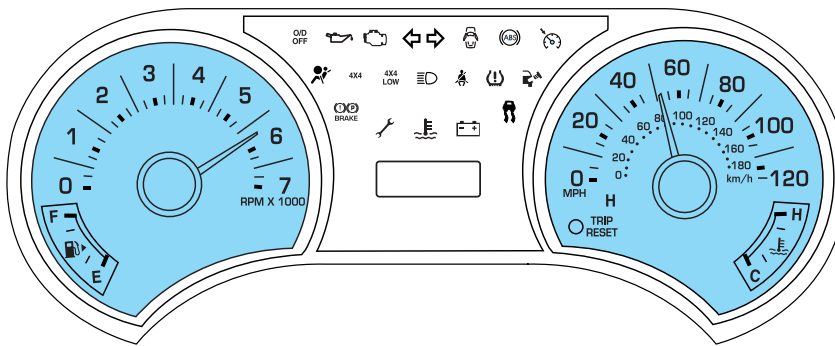
## Instrument Cluster

**Turn signal warning chime:** Sounds when the turn signal lever has been activated to signal a turn and not turned off after the vehicle is driven more than 2 miles (3.2 km).

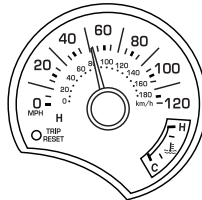
**Parking brake ON warning chime:** Sounds when the parking brake is set, the engine is running and the vehicle is driven more than 3 mph (5 km).

**Message center activation chime:** Sounds when the following warnings DOOR AJAR, LOW FUEL LEVEL or LOW TIRE PRESSURE appear in the message center display for the first time.

### GAUGES



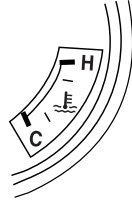
**Speedometer:** Indicates the current vehicle speed.



## Instrument Cluster

### Engine coolant temperature

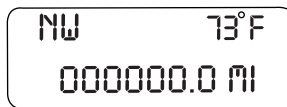
**gauge:** Indicates engine coolant temperature. At normal operating temperature, the needle will be in the normal range (between “H” and “C”). If it enters the red section, the engine is overheating, refer to *Engine coolant* in the *Maintenance and Specifications* chapter. Stop the vehicle as soon as safely possible, switch off the engine and let the engine cool.



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

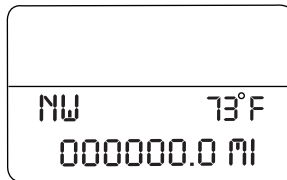
**Odometer:** Registers the total miles (kilometers) of the vehicle.

- Standard instrument cluster



- Optional instrument cluster

Refer to *Message Center* in the *Driver Controls* chapter on how to switch the display from English to Metric.



**Trip odometer:** Registers the miles (kilometers) of individual journeys.

- Standard instrument cluster

Press the TRIP/RESET control once to switch from the odometer to the TRIP A feature. Press the control again to select the TRIP B feature. To reset the trip, press and hold the control again until the trip reading is 0.0 miles.



## Instrument Cluster

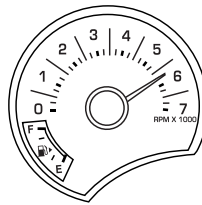
- Optional instrument cluster

Press and release the message center INFO button until TRIP A mode appears in the display. Press the control again to select the TRIP B feature. Press the RESET button to reset.

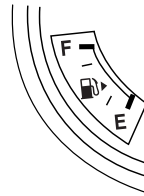


**Note:** Outside Air Temperature will only be displayed in the Instrument Cluster Message Center on vehicles with manual climate control.

**Tachometer:** Indicates the engine speed in revolutions per minute. Driving with your tachometer pointer continuously at the top of the scale may damage the engine.



**Fuel gauge:** Indicates approximately how much fuel is left in the fuel tank (when the ignition is in the ON position). The fuel gauge may vary slightly when the vehicle is in motion or on a grade.



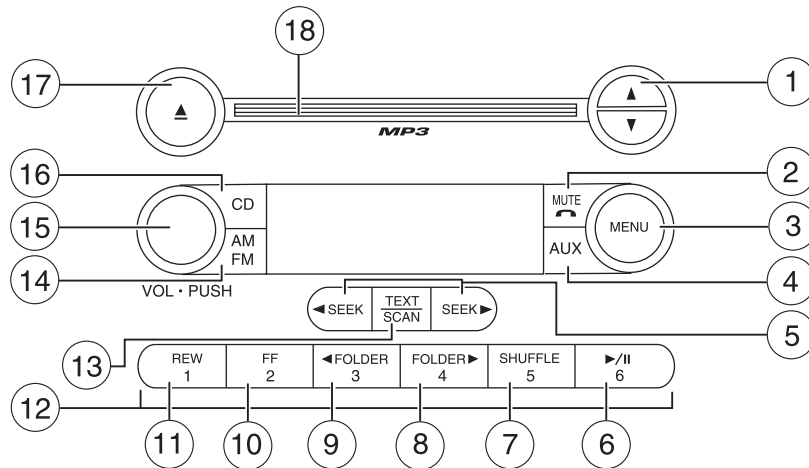
Refer to *Filling the tank* in the *Maintenance and Specifications* chapter for more information.

The FUEL icon and arrow indicates which side of the vehicle the fuel door is located.

## Entertainment Systems

### AUDIO SYSTEMS

#### AM/FM Single CD/MP3 Satellite Compatible Sound System (if equipped)



**Accessory delay:** Your vehicle is equipped with accessory delay. With this feature, the window switches, radio and moon roof (if equipped) may be used for up to ten minutes after the ignition is turned off or until either front door is opened.

1. **▲ / ▼ Tuner:** Press to manually go up or down the radio frequency. Also use in menu mode to select various settings.



In Satellite Radio mode (if equipped), press **▲ / ▼** to tune to the next/previous channel.

In CATEGORY MODE, press **▲ / ▼** to scroll through the list of available Sirius channel Categories (Pop, Rock, News, etc.). Refer to *Category Mode* under *Menu* for further information.

*Satellite radio is available only in the continental United States.*

2. **MUTE/Phone:** Press to mute the playing media. Press again to return to the playing media.



## Entertainment Systems

3. **MENU:** Press to toggle through the following modes:



**Setting the clock:** Press MENU until SET HOURS or SET MINUTES is displayed. Use ▲ / ▼ to manually increase/decrease. Press MENU again to disengage clock mode.

**CATEGORY** (Satellite Radio if equipped): Press MENU until the currently active category appears in the display (CATEGORY MODE). In CATEGORY MODE, press ▲ / ▼ to scroll through the list of available Sirius channel Categories (Pop, Rock, News, etc.) Press ◀ SEEK ▶ or SCAN to select the category. After a category is selected, press SEEK to search for that specific category of channels only (i.e. ROCK). To select a different category, press MENU until the category appears in the display. Press ▲ / ▼ to select a different category. You may also select CATEGORY ALL to seek all available Sirius categories and channels. *Satellite radio is available only in the continental United States.*

**Autoset:** Allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2. Press MENU to access. Use ▲ / ▼ to set.

When the six strongest stations are filled, the station stored in preset 1 will begin playing. If there are less than six strong stations, the system will store the last one in the remaining presets. Use ▲ / ▼ to turn on/off.

**Bass:** Press ▲ / ▼ to adjust the bass setting.

**Treble:** Press ▲ / ▼ to adjust the treble setting.

**Balance:** Press ▲ / ▼ to adjust the audio between the left and right speakers.

**Fade:** Press ▲ / ▼ to adjust the audio between the front and rear speakers.

**Speed sensitive volume:** Radio volume automatically changes slightly with vehicle speed to compensate for road and wind noise. Press MENU to access and use ▲ / ▼ to adjust. The recommended level is 1–3. Level 0 (SPEED OFF) turns the feature off and level 7 is the maximum setting.

## Entertainment Systems

**Track/Folder Mode:** Available only on MP3 discs in CD mode.

Press ▲ / ▼ to toggle between Track and Folder mode.

In Track mode, press ◀ SEEK ▶ to scroll through all tracks on the current disc.

In Folder mode, press ◀ SEEK ▶ to scroll through tracks within the selected folder.

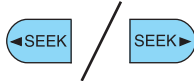
**Compression:** Brings soft and loud CD passages together for a more consistent listening level when in CD mode. Press MENU until compression status is displayed. Press ▲ / ▼ to turn the feature on/off.

4. **AUX:** Press to toggle between FES/DVD, AUX and Satellite Radio modes SAT 1, SAT2 and SAT3 (if equipped). If no auxiliary sources are available, NO AUX AUDIO will be displayed. To return to radio mode, press AM/FM.



*Satellite radio is available only in the continental United States.*

5. **SEEK:** In radio mode, press ◀ / ▶ to access the previous/next strong station.



In CD mode, press ◀ / ▶ to access the previous/next CD track.

In Satellite Radio mode (if equipped), press ◀ SEEK ▶ to seek to the previous/next channel. If a specific category is selected, (Jazz, Rock, News, etc.), press ◀ SEEK ▶ to seek to the previous/next channel in the selected category. Press and hold ◀ SEEK ▶ to fast seek through the previous /next channels.

In TEXT MODE, press ◀ SEEK ▶ to view the previous/additional display text.

In CATEGORY MODE, press ◀ SEEK ▶ to select a category.

*Satellite radio is available only in the continental United States.*

6. **Play/Pause:** This control is operational in CD and DVD mode (if equipped). When a CD or DVD is playing in the FES system, press this control to play or pause the current CD or DVD. The CD/DVD status will display in the radio display.



## Entertainment Systems

7. **SHUFFLE**: Press to play tracks in random order.



8. **FOLDER** : In folder mode, press to access next folder on MP3 discs, if available.



9. **FOLDER**: In folder mode, press to access the previous folder on MP3 discs, if available.



10. **FF (Fast forward)**: Press to manually advance in a CD track.



11. **REW (Rewind)**: Press to manually reverse in a CD track.



12. **Memory presets**: To set a station, select the desired frequency band, AM, FM1 or FM2. Tune to the desired station. Press and hold a preset button until sound returns and PRESET # SAVED appears in the display. You can save up to 18 stations, six in AM, six in FM1 and FM2.



In Satellite Radio mode (if equipped), there are 18 available presets, six each for SAT1, SAT2 and SAT3. To save satellite channels in your memory presets, tune to the desired channel then press and hold a preset control until sound returns.

*Satellite radio is available only in the continental United States.*

13. **TEXT/SCAN**: In radio and CD/MP3 mode, press and hold to hear a brief sampling of radio stations or CD tracks. Press again to stop. In CD/MP3 mode, press and release to display track title, artist name, and disc title and file name (if available).



In Satellite radio mode (if equipped), press and release to enter TEXT MODE and display the current song title. While in TEXT MODE, press again to scroll through the current song title, artist, channel category and the SIRIUS long channel name.

## Entertainment Systems

In TEXT MODE, sometimes the display requires additional text to be displayed. When the “>” indicator is active, press SEEK▶ to view the additional display text. When the “>” indicator is active, press ◀ SEEK to view the previous display text.

In Satellite Radio mode (if equipped), press and hold to hear a brief sampling of the next channels. Press again to stop.

14. **AM/FM:** Press to select AM/FM1/FM2 frequency band.



15. **ON/OFF/Volume:** Press to turn ON/OFF. Turn to increase/decrease volume.

If the volume is set above a certain level and the ignition is turned off, the volume will come back on at a “nominal” listening level when the ignition switch is turned back on.



16. **CD:** Press to enter CD mode. If a CD is already loaded into the system, CD play will begin where it ended last. If no CD is loaded, NO DISC will appear in the display.



17. **CD eject:** Press to eject a CD.

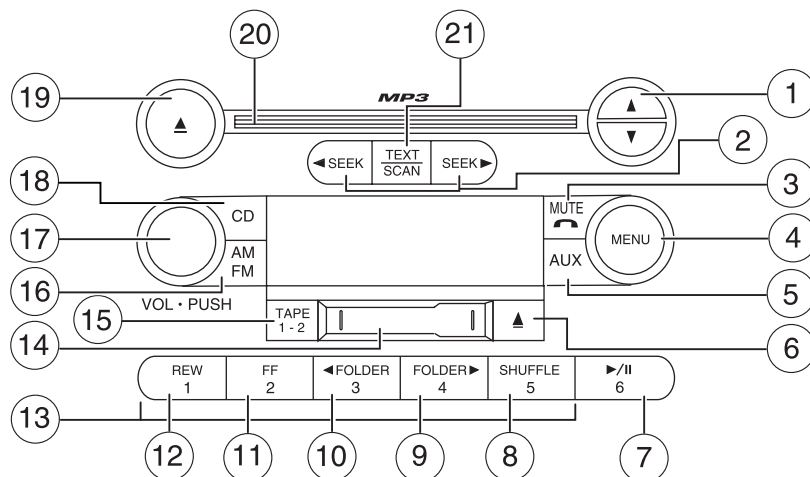


18. **CD slot:** Insert a CD label side up.



## Entertainment Systems

### AM/FM Single CD/MP3/Cassette Satellite Compatible Sound System (if equipped)



**Accessory delay:** Your vehicle is equipped with accessory delay. With this feature, the window switches, radio and moon roof (if equipped) may be used for up to ten minutes after the ignition is turned off or until either front door is opened.

1. **▲ / ▼ Tuner:** Press to manually go up or down the radio frequency. Also use in menu mode to select various settings.



In Satellite Radio mode (if equipped), press **▲ / ▼** to tune to the next/previous channel.

In CATEGORY MODE, press **▲ / ▼** to scroll through the list of available Sirius channel Categories (Pop, Rock, News, etc.). Refer to *Category Mode* under *Menu* for further information.

*Satellite radio is available only in the continental United States.*

2. **SEEK:** In radio mode, press **◀** / **▶** to access the previous/next strong station.



## Entertainment Systems

In CD mode, press ◀ / ▶ to access the previous/next CD track.

In Satellite Radio mode (if equipped), press ◀ SEEK ▶ to seek to the previous/next channel. If a specific category is selected, (Jazz, Rock, News, etc.), press ◀ SEEK ▶ to seek to the previous/next channel in the selected category. Press and hold ◀ SEEK ▶ to fast seek through the previous /next channels.

In TEXT MODE, press ◀ SEEK ▶ to view the previous/additional display text.

In CATEGORY MODE, press ◀ SEEK ▶ to select a category.

*Satellite radio is available only in the continental United States.*

3. **MUTE/Phone:** Press to mute the playing media. Press again to return to the playing media.



4. **MENU:** Press to toggle through the following modes:



**Setting the clock:** Press MENU until SET HOURS or SET MINUTES is displayed. Press ▲ / ▼ to adjust the hours/minutes.

**CATEGORY** (Satellite Radio if equipped): Press MENU until the currently active category appears in the display (CATEGORY MODE). In CATEGORY MODE, press ▲ / ▼ to scroll through the list of available Sirius channel Categories (Pop, Rock, News, etc.) Press ◀ SEEK ▶ or SCAN to select the category. After a category is selected, press SEEK to search for that specific category of channels only (i.e. ROCK). To select a different category, press MENU until the category appears in the display. Press ▲ / ▼ to select a different category. You may also select CATEGORY ALL to seek all available Sirius categories and channels. *Satellite radio is available only in the continental United States.*

**Autoset:** Allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2 . Press MENU to access. Use ▲ / ▼ to set.

When the six strongest stations are filled, the station stored in preset 1 will begin playing. If there are less than six strong stations, the system will store the last one in the remaining presets. Use ▲ / ▼ to turn on/off.

## Entertainment Systems

**Bass:** Press ▲ / ▼ to adjust the bass setting.

**Treble:** Press ▲ / ▼ to adjust the treble setting.

**Balance:** Press ▲ / ▼ to adjust the audio between the left and right speakers.

**Fade:** Press ▲ / ▼ to adjust the audio between the front and rear speakers.

**Speed sensitive volume:** Radio volume automatically changes slightly with vehicle speed to compensate for road and wind noise. Use ▲ / ▼ to adjust. Recommended level is 1–3. Level 0 (SPEED OFF) turns the feature off and level 7 is the maximum setting.

**Compression:** Brings soft and loud CD passages together for a more consistent listening level when in CD mode. Press MENU until compression status is displayed. Press ▲ / ▼ to turn the feature on/off.

**Dolby® noise reduction:** Dolby® noise reduction works in tape mode to reduce hiss and static during playback. The Dolby® noise reduction system is manufactured under license from Dolby Laboratories Licensing Corporation. Dolby® and the double-D symbol are registered trademarks of Dolby® Laboratories Licensing Corporation.

**Track/Folder Mode:** Available only on MP3 discs in CD mode.

Press ▲ / ▼ to toggle between Track and Folder mode.

In Track mode, press ◀ SEEK ▶ to scroll through all tracks on the current disc.

In Folder mode, press ◀ SEEK ▶ to scroll through tracks within the selected folder.

5. **AUX:** Press to toggle between FES/DVD and AUX modes. If no auxiliary sources are available, NO AUX AUDIO will be displayed. To return to radio mode, press AM/FM. If equipped with Satellite Radio, press AUX to cycle through SAT1, SAT2 and SAT3 modes.



*Satellite radio is available only in the continental United States.*

6. **Tape eject:** Press to eject a tape.



## Entertainment Systems

7. **Play/Pause:** This control is operational in CD, tape and DVD mode (if equipped). When a CD or DVD is playing in the FES system, press this control to play or pause the current CD/DVD. The CD/DVD status will display in the radio display.



8. **SHUFFLE:** Press to play CD tracks in random order.



9. **FOLDER**  : When in folder mode, press to access next folder on MP3 discs, if available.



10.  **FOLDER:** When in folder mode, press to access the previous folder on MP3 discs, if available.



11. **FF (Fast forward):** Press to manually advance in a CD track or cassette.



12. **REW (Rewind):** Press to manually reverse in a CD track or cassette.



13. **Memory presets:** To set a station, select the desired frequency band, AM, FM1 or FM2. Tune to the desired station. Press and hold a preset button until sound returns and PRESET # SAVED appears in the display. You can save up to 18 stations, six in AM, six in FM1 and FM2.



In Satellite Radio mode (if equipped), there are 18 available presets, six each for SAT1, SAT2 and SAT3. To save satellite channels in your memory presets, tune to the desired channel then press and hold a preset control until sound returns.

*Satellite radio is available only in the continental United States.*

14. **Tape:** Insert a tape facing to the right.



15. **Tape direction:** Press to enter tape mode. Press while in play mode to change which side of the tape is playing.



## Entertainment Systems

16. **AM/FM:** Press to select AM/FM1/FM2 frequency band.



17. **ON/OFF/Volume:** Press to turn ON/OFF. Turn to increase/decrease volume.

If the volume is set above a certain level and the ignition is turned off, the volume will come back on at a

“nominal” listening level when the ignition switch is turned back on.



18. **CD:** Press to enter CD mode. If a CD is already loaded into the

system, CD play will begin where it

ended last. If no CD is loaded, NO DISC will appear in the display.



19. **CD eject:** Press to eject a CD.



20. **CD slot:** Insert a CD label side up.



21. **TEXT/SCAN:** Press and hold SCAN for a brief sampling of radio stations, tape selections or CD tracks. Press again to stop.

In CD/MP3 mode, press TEXT to display track title, artist name, and disc title and file name (if available).

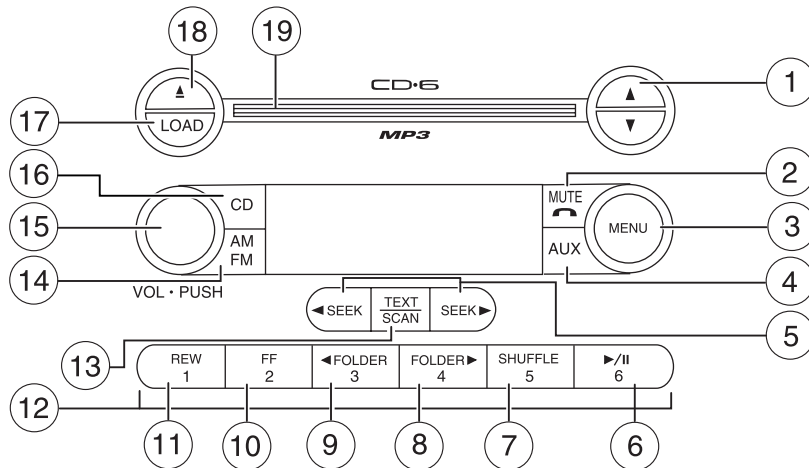


Press in Satellite radio mode (if equipped), to enter TEXT MODE and display the current song title. While in TEXT MODE, press TEXT to scroll through all the text including the current song title, artist, channel category and the SIRIUS long channel name.

In TEXT MODE, sometimes the display requires additional text to be displayed. When the “>” indicator is active, press SEEK▶ to view the additional display text. When the “>” indicator is active, press ◀ SEEK to view the previous display text.

## Entertainment Systems

### Audiophile AM/FM In-dash Six CD/MP3 Satellite Compatible Sound System (if equipped)



**Accessory delay:** Your vehicle is equipped with accessory delay. With this feature, the window switches, radio and moon roof (if equipped) may be used for up to ten minutes after the ignition is turned off or until either front door is opened.

#### 1. ▲ / ▼ Tune/Disc selector:

Press and release to manually advance up/down the radio frequency or to select a desired disc. Press and hold for a fast advance through radio frequencies or all loaded discs. Also use in menu mode to select various settings.



In Satellite Radio mode (if equipped), press ▲ / ▼ to tune to the next/previous channel.

In CATEGORY MODE, press ▲ / ▼ to scroll through the list of available Sirius channel Categories (Pop, Rock, News, etc.). Refer to *Category Mode* under *Menu* for further information.

*Satellite radio is available only in the continental United States and with a valid SIRIUS subscription.*

## Entertainment Systems

2. **MUTE/Phone:** Press to mute the playing media. Press again to return to the playing media.



3. **MENU:** Press to toggle through the following modes:



**Setting the clock:** Press until SET HOURS or SET MINUTES is displayed. Press ▲/▼ to adjust the hours/minutes.

**CATEGORY** (Satellite Radio if equipped): Press MENU until the currently active category appears in the display (CATEGORY MODE). In CATEGORY MODE, press ▲/▼ to scroll through the list of available Sirius channel Categories (Pop, Rock, News, etc.) Press ◀ SEEK ▶ or SCAN to select the category. After a category is selected, press SEEK to search for that specific category of channels only (i.e. ROCK). To select a different category, press MENU until the category appears in the display. Press ▲/▼ to select a different category. You may also select CATEGORY ALL to seek all available Sirius categories and channels. *Satellite radio is available only in the continental United States.*

**RBDS (Radio Broadcast Digital Signal) ON/OFF:** Press ▲/▼ to turn RBDS ON or OFF.

**Program Type:** If RBDS is ON, press ▲/▼ to find the desired program type, then use ◀ SEEK ▶ or SCAN to search for FM radio stations broadcasting the desired program type.

**SHOW RBDS Info:** If RBDS is ON, this allows you to display the name of the FM radio station or program type. Press ▲/▼ to show program type, station name or none.

**RBDS:** Allows you to search RBDS (Radio Broadcast Digital Signal) equipped stations for the following music formats: Classical, Country, Jazz, Oldies, R&B, Religious, Rock, Soft, Top 40 and Information (Inform). RBDS is only available in FM mode.

**Autoset:** Allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2 . Use ▲/▼ to turn on/off.

## Entertainment Systems

When the six strongest stations are filled, the station stored in preset 1 will begin playing. If there are less than six strong stations, the system will store the last one in the remaining presets. Use ▲ / ▼ to turn on/off.

**Bass:** Press ▲ / ▼ to adjust the bass setting.

**Treble:** Press ▲ / ▼ to adjust the treble setting.

**Balance:** Press ▲ / ▼ to adjust the audio between the left and right speakers.

**Fade:** Press ▲ / ▼ to adjust the audio between the front and rear speakers.

**Speed sensitive volume:** Radio volume automatically changes slightly with vehicle speed to compensate for road and wind noise. Use ▲ / ▼ to adjust. Recommended level is 1–3. Level 0 (SPEED OFF) turns the feature off and level 7 is the maximum setting.

**Occupancy mode:** Use ▲ / ▼ to select and optimize sound for ALL SEATS, DRIVERS SEAT or REAR SEATS.

**Track/Folder Mode:** Available only on MP3 discs in CD mode.

Press ▲ / ▼ to toggle between Track and Folder mode.

In Track mode, press ◀ SEEK ▶ to scroll through all tracks on the current disc.

In Folder mode, press ◀ SEEK ▶ to scroll through tracks within the selected folder.

**Compression:** Brings soft and loud CD passages together for a more consistent listening level when in CD mode. Press MENU until compression status is displayed. Press ▲ / ▼ to turn the feature on/off.

4. **AUX:** Press to toggle between FES/DVD, AUX and Satellite Radio modes (if equipped). If no auxiliary sources are available, NO AUX AUDIO will be displayed.. To return to radio mode, press AM/FM.

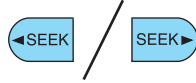
If equipped with Satellite Radio, press AUX to cycle through SAT1, SAT2 and SAT3 modes.

*Satellite radio is available only in the continental United States.*



## Entertainment Systems

5. **Seek:** Press to access the previous (◀) or next (▶) strong station or CD track.



In Satellite Radio mode (if equipped), press ◀ SEEK ▶ to seek to the previous/next channel. If a specific category is selected, (Jazz, Rock, News, etc.), press ◀ SEEK ▶ to seek to the previous/next channel in the selected category. Press and hold ◀ SEEK ▶ to fast seek through the previous /next channels.

In TEXT MODE, press ◀ SEEK ▶ to view the previous/additional display text.

In CATEGORY MODE, press ◀ SEEK ▶ to select a category.

*Satellite radio is available only in the continental United States.*

6. **Play/Pause:** This control is operational in CD and DVD mode (if equipped). When a CD or DVD is playing in the FES system, press this control to play or pause the current CD/DVD. The CD/DVD status will display in the radio display.



7. **SHUFFLE:** Press to play the tracks on the current disc in random order.



8. **FOLDER▶** : In folder mode, press to access next folder on MP3 discs, if available.



9. **◀ FOLDER:** In folder mode, press to access the previous folder on MP3 discs, if available.



10. **FF (Fast forward):** Press to manually advance in a CD track.



11. **REW (Rewind):** Press to manually reverse in a CD track.



## Entertainment Systems

**12. Memory presets:** To set a station, select the desired frequency band, AM, FM1 or FM2. Tune to the desired station. Press and hold a preset button until sound returns and PRESET # SAVED appears in the display. You can save up to 18 stations, six in AM, six in FM1 and FM2.



In Satellite Radio mode (if equipped), there are 18 available presets, six each for SAT1, SAT2 and SAT3. To save satellite channels in your memory presets, tune to the desired channel then press and hold a preset control until sound returns.

*Satellite radio is available only in the continental United States.*

**13. TEXT/SCAN:** In radio and CD/MP3 mode, press and hold to hear a brief sampling of radio stations or CD tracks. Press again to stop.



In CD/MP3 mode, press and release to display track title, artist name, and disc title and file name (if available).

In Satellite radio mode (if equipped), press and release to enter TEXT MODE and display the current song title. While in TEXT MODE, press again to scroll through the current song title, artist, channel category and the SIRIUS long channel name.

In TEXT MODE, sometimes the display requires additional text to be displayed. When the ">" indicator is active, press SEEK ► to view the additional display text. When the ">" indicator is active, press ◀ SEEK to view the previous display text.

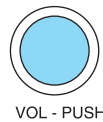
In Satellite Radio mode (if equipped), press and hold to hear a brief sampling of the next channels. Press again to stop.

**14. AM/FM:** Press to select AM/FM1/FM2 frequency band.



**15. ON/OFF/Volume:** Press to turn ON/OFF. Turn to increase/decrease volume.

If the volume is set above a certain level and the ignition is turned off, the volume will come back on at a "nominal" listening level when the ignition switch is turned back on.



## Entertainment Systems

16. **CD:** Press to enter CD mode. If a CD is already loaded into the system, CD play will begin where it ended last. If no CD is loaded, NO DISC will appear in the display.



17. **LOAD:** Press to load a CD. Press LOAD and a memory preset to load to a specific slot. Press and hold to autoloader up to six CDs.



18. **CD eject:** Press to eject a CD. Press and hold to auto eject all CDs present in the system. If there is no CD present, the display will read NO DISC.



19. **CD slot:** Insert a CD label side up.



### GENERAL AUDIO INFORMATION

**Radio frequencies:** 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- 87.7, 87.9–107.7, 107.9 MHz

**Radio reception factors:** There are three factors that can affect radio reception:

- Distance/strength: The further you travel from a station, the weaker the signal and the weaker the reception.
- Terrain: Hills, mountains, tall buildings, power lines, electric fences, traffic lights and thunderstorms can interfere with your reception.
- Station overload: When you pass a broadcast tower, a stronger signal may overtake a weaker one and play while the weak station frequency is displayed.

### Cassette/player care:

Do:

- Use only cassettes that are 90 minutes long or less.
- Tighten very loose tapes by inserting a finger or pencil into the hole and turning the hub.
- Remove loose labels before inserting tapes.
- Allow tapes which have been subjected to extreme heat, humidity or cold to reach a moderate temperature before playing.
- Clean the cassette player head with a cassette cleaning cartridge after 10–12 hours of play to maintain good sound/operation.

## Entertainment Systems

Don't:

- Expose tapes to direct sunlight, extreme humidity, heat or cold.
- Leave tapes in the cassette player for a long time when not being played.

### **CD/CD player care:**

Do:

- Handle discs by their edges only. Never touch the playing surface.
- Inspect discs before playing. Clean only with an approved CD cleaner and wipe from the center out.

Don't:

- Expose discs to direct sunlight or heat sources for extended periods of time.
- Clean using a circular motion.

**CD units are designed to play commercially pressed 4.75 in (12 cm) audio compact discs only. Due to technical incompatibility, certain recordable and re-recordable compact discs may not function correctly when used in Ford CD players. Dirty, warped or damaged CDs, irregular shaped CDs, CDs with a scratch protection film attached, and CDs with homemade paper (adhesive) labels should not be inserted into the CD player. The label may peel and cause the CD to become jammed. It is recommended that homemade CDs be identified with permanent felt tip marker rather than adhesive labels. Ballpoint pens may damage CDs. Please contact your authorized dealer for further information.**

**Audio system warranty and service:** Refer to the *Warranty Guide* for audio system warranty information. If service is necessary, see your dealer or qualified technician.

### **Satellite radio information (if equipped)**

**Satellite radio channels:** Satellite radio frequencies are established by the Federal Communications Commission (FCC). SIRIUS Satellite Radio broadcasts within a frequency range of 2320.0 MHz-2332.5 MHz. This frequency range is sub-divided into over 120 channels of music, news, sports, weather and traffic programming. For a complete set of SIRIUS Satellite Radio channels, visit [www.sirius.com](http://www.sirius.com) or call SIRIUS at 1.888.539.7474. For a quick reference of the SIRIUS Satellite Radio channel guide, refer to the *Sirius Welcome Kit*.

## Entertainment Systems

**Satellite radio reception factors:** To receive the satellite signal, your vehicle has been equipped with a satellite radio antenna located on the roof of your vehicle. The vehicle roof provides the best location for an unobstructed, open view of the sky, a requirement of a satellite radio system. Like AM/FM, there are several factors that can affect satellite radio reception performance:

- **Antenna Obstructions:** For optimal reception performance, keep the antenna clear of snow and ice build-up and keep luggage and other material on the vehicle roof as far away from the antenna as possible.
- **Terrain:** Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.
- **Station overload:** When you pass a ground based broadcast repeating tower, a stronger signal may overtake a weaker one and result in an audio mute.

Unlike AM/FM audible static, you will hear an audio mute when there is a satellite radio signal interference. Your radio display may display NO SIGNAL to indicate the interference.

**SIRIUS satellite radio service:** SIRIUS Satellite Radio is a continental U.S. based satellite radio service that broadcasts over 120 channels of music, sports, news and entertainment coast-to-coast. A service fee is required in order to receive SIRIUS service. Vehicles that are equipped with a factory installed SIRIUS Satellite Radio system include:

- Hardware and limited subscription term, which begins on the date of sale or lease of the vehicle.
- Online media player access: providing access to all 65 SIRIUS music channels over the internet. Call SIRIUS at (888) 539.7474 to obtain login instructions and your password.

For information on extended subscription terms, contact SIRIUS at (888) 539.7474.

**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.

**Satellite Radio Electronic Serial Number (ESN):** This 12 digit Satellite Serial Number is needed to activate, modify or track your satellite radio account. You will need this number when communicating with SIRIUS. While in Satellite Radio mode, you can view this number on the radio display by pressing AUX and Preset 1 control simultaneously.

## Entertainment Systems

| Radio Display | Condition                                                                       | Action Required                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACQUIRING     | Radio requires more than two seconds to produce audio for the selected channel. | No action required. This message should disappear shortly.                                                                                                                        |
| SAT FAULT     | Internal module or system failure present.                                      | If this message does not clear within a short period of time, or with an ignition key cycle, your receiver may have a fault. See your authorized dealer for service.              |
| INVALID CHNL  | Channel no longer available.                                                    | This previously available channel is no longer available. Tune to another channel. If the channel was one of your presets, you may choose another channel for that preset button. |
| UNSUBSCRIBED  | Subscription not available for this channel.                                    | Contact SIRIUS at 1-888-539-7474 to subscribe to the channel, or, tune to another channel.                                                                                        |
| NO TEXT       | Artist information not available.                                               | Artist information not available at this time on this channel. The system is working properly.                                                                                    |
| NO TEXT       | Song title information not available.                                           | Song title information not available at this time on this channel. The system is working properly.                                                                                |

## Entertainment Systems

| Radio Display                 | Condition                                                                        | Action Required                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO TEXT                       | Category information not available.                                              | Category information not available at this time on this channel. The system is working properly.                                                                                                           |
| NO SIGNAL                     | Loss of signal from the SIRIUS satellite or SIRIUS tower to the vehicle antenna. | You are in a location that is blocking the SIRIUS signal (i.e., tunnel, under an overpass, dense foliage, etc). The system is working properly. When you move into an open area, the signal should return. |
| UPDATING                      | Update of channel programming in progress.                                       | No action required. The process should take no longer than one minute.                                                                                                                                     |
| CALL SIRIUS<br>1-888-539-7474 | Satellite service has been deactivated by SIRIUS Satellite Radio.                | Call SIRIUS at 1-888-539-7474 to re-activate or resolve subscription issues.                                                                                                                               |

### NAVIGATION SYSTEM (IF EQUIPPED)

Your vehicle may be equipped with a Navigation System. Refer to the *Navigation supplement* for further information.

### FAMILY ENTERTAINMENT SYSTEM (IF EQUIPPED)

Your vehicle may be equipped with a Family Entertainment System (FES). This is a DVD system for the rear seat passengers which includes a DVD player, wireless infrared headphones and a remote control. For more information, please refer to the *Family Entertainment System* supplement.

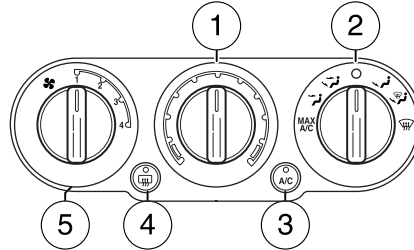
## Climate Controls

### MANUAL HEATING AND AIR CONDITIONING SYSTEM (IF EQUIPPED)

#### 1. Temperature selection:

Controls the temperature of the airflow in the vehicle.

2. **Air flow selections:** Controls the direction of the airflow in the vehicle. See the following for a brief description on each control.



**Max A/C:** Distributes recirculated

air through the instrument panel vents to cool the vehicle. This recooling of the interior air is more economical and efficient. Recirculated air may also help reduce undesirable odors from entering the vehicle.

: Distributes outside air through the instrument panel vents.

: Distributes outside air through the instrument panel vents and the floor vents.

**O (OFF):** Outside air is shut out and the fan will not operate.

: Distributes outside air through the floor vents. **Note:** Some airflow will come out of the small vents near the side windows.

: Distributes outside air through the windshield defroster vents and floor vents. **Note:** Some airflow will come out of the small vents near the side windows.

: Distributes outside air through the windshield defroster vents.

3. **A/C:** Uses outside air to cool the vehicle. Air flows primarily from the instrument panel register vents.

4. **Rear defroster:** Clears ice and fog from the rear window.

5. **Fan speed adjustment:** Controls the volume of air circulated in the vehicle.

#### Operating tips

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the position.
- To reduce humidity build up inside the vehicle, do not drive with the air flow selector in the O (OFF) position.
- Do not put objects under the front seats that will interfere with the airflow to the rear seats.

## Climate Controls

- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the A/C cool down when the vehicle interior is significantly warmer than the outside temperature, drive with the windows slightly open for 2–3 minutes after start up or until the vehicle has been “aired out.”

For maximum cooling performance in panel (  ) mode:

- Select MAX A/C mode. MAX A/C uses recirculated air with A/C to provide a cooler airflow.
- Move the temperature control to the coolest setting.
- Set the fan to the highest speed initially, then adjust in order to maintain comfort.

To allow side window defogging and demisting while warming up the vehicle cabin:

1. Select .
2. Select A/C.
3. Set the temperature control to maintain comfort.
4. Set the fan speed to the highest setting.
5. Direct the outer instrument panel vents towards the side windows. To increase airflow to the outer instrument panel vents, close the vents located in the middle of the instrument panel.

To allow windshield defogging and demisting while warming up vehicle:

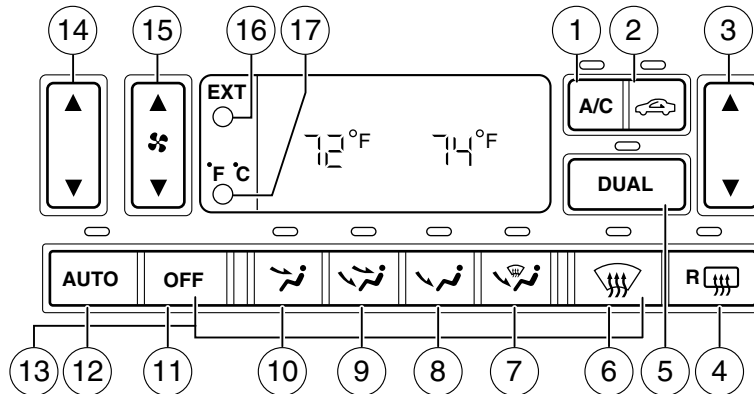
1. Select  floor/defrost mode.
2. Set temperature control to maintain comfort.
3. Set fan to highest setting.



Do not place objects on top of the instrument panel as these objects may become projectiles in a collision or sudden stop.

## Climate Controls

### DUAL AUTOMATIC TEMPERATURE CONTROL (DATC) SYSTEM (IF EQUIPPED)



1. **A/C control:** Manually turns A/C on or off.



2. **Recirculation control:** Cools the vehicle more quickly by recirculating the cabin air instead of using outside air and helps prevent unpleasant outside odors or fumes from entering the vehicle. Press to turn on/off.



3. **Passenger side temperature control:** Controls the temperature on the passenger side of the vehicle when in dual zone mode. To enter dual zone, press the passenger temperature control or DUAL. The passenger temperature will appear in the display.



4. **Rear defroster control:** Removes ice and fog from the rear window. Press to turn on/off.



## Climate Controls

5. **DUAL** (Single/dual electric temperature control): Allows the driver to have full control of the cabin temperature settings (single zone) or allows the passenger to have control of their individual temperature settings (dual zone control). Press to turn on dual zone mode, press again to return to single zone.



6. : Distributes outside air through the windshield defroster vents.

7. : Distributes outside air through the windshield defroster vents and floor vents. **Note:** Some airflow will come out of the small vents near the side windows.

8. : Distributes air through the floor vents. **Note:** Some airflow will come out of the small vents near the side windows.

9. : Distributes air through the instrument panel vents and the floor vents.

10. : Distributes air through the instrument panel vents.

11. **OFF**: Outside air is shut out and the fan will not operate. **Note:** If equipped with the auxiliary system, the auxiliary fan can still operate with the front system off.



12. **AUTO**: Press to select the desired temperature shown in the display window. The system will automatically determine the fan speed, the direction of the airflow, outside or recirculated air to heat or cool the vehicle to the selected temperature.



13. **Manual override controls:** Allows you to manually determine where airflow is directed. To return to fully automatic control, press AUTO.



14. **Driver's side temperature control:** Controls the temperature of the vehicle cabin. When DUAL zone is pressed, controls the driver's side temperature.



## Climate Controls

15. **Fan Speed:** Manually increases or decreases the fan speed.



16. **EXT:** Displays the outside air temperature. It will remain displayed until the EXT control is pressed again. The external temperature will be most accurate when the vehicle has been moving for a period of time.



17. **Temperature conversion:**

Press to toggle between Fahrenheit and Celsius temperature on the DATC display only. The set point temperatures in Celsius will be displayed in half-degree increments.



### Operating tips

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the  position.
- To reduce humidity build up inside the vehicle, do not drive with the air flow selector in OFF or with recirculated air engaged.
- Do not put objects under the front seats that will interfere with the airflow to the rear seats.
- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the A/C cool down, drive with the windows slightly open for 2–3 minutes after start up or until the vehicle has been “aired out.”

For maximum cooling performance:

- Select and A/C and recirculated air. Use recirculated air with A/C to provide a cooler airflow.
- Move the temperature control to the coolest setting.

To allow side window defogging and demisting while warming up the vehicle cabin:

1. Select .
2. Select A/C.
3. Set the temperature control to maintain comfort.
4. Set the fan speed to the highest setting.
5. Direct the outer instrument panel vents towards the side windows. To increase airflow to the outer instrument panel vents, close the vents located in the middle of the instrument panel.

## Climate Controls



Do not place objects on top of the instrument panel as these objects may become projectiles in a collision or sudden stop.

### AUXILIARY SYSTEM (IF EQUIPPED)

Your vehicle may be equipped with an auxiliary climate system. These auxiliary controls, located in the overhead console, allow the front passengers to control airflow direction, temperature and fan level of the rear compartment to quickly heat or cool the entire vehicle.

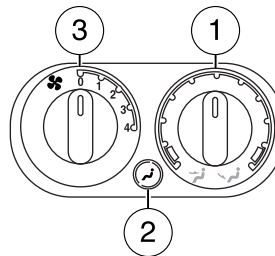
#### Front auxiliary controls:

**1. Temperature control:**

Determines temperature level.

**2. Mode selector:** Press to select air flow direction to  (floor) or  (panel).

-  directs air to the floor of the third row seating.
-  directs air to the overhead registers of the second and third row seating.



The selected mode will illuminate on the temperature control.

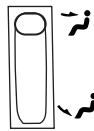
**3. Fan control:** Determines fan speed levels. If your vehicle is equipped with the front Dual Automatic Temperature Control (DATC) system, when the front system is turned off, the fan and heat mode will operate and A/C will be unavailable.

## Climate Controls

### FLOOR CONSOLE CLIMATE CONTROLS

Controls the direction of the airflow to the rear of the vehicle.

-  directs air flow primarily through the console panel register.
-  directs air flow through the console floor register.

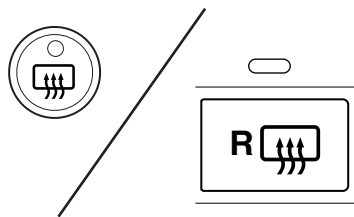


### REAR WINDOW DEFROSTER

The rear defroster control is located on the instrument panel.

Press the rear defroster control to clear the rear window of thin ice and fog.

- A small LED will illuminate when the rear defroster is activated.



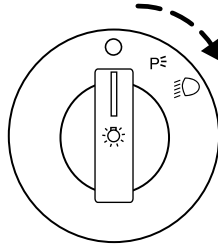
The ignition must be in the 3 (ON) position to operate the rear window defroster.

The defroster turns off automatically after 10 minutes or when the ignition is turned to the 1 (OFF/LOCK) or 2 (ACC) position. To manually turn off the defroster before 10 minutes have passed, push the control again.

## Lights

### HEADLAMP CONTROL

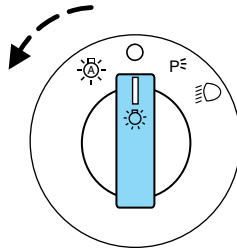
-  Turns the lamps off.
-  Turns on the parking lamps, instrument panel lamps, license plate lamps and tail lamps.
-  Turns the headlamps on.



### Autolamp Control (if equipped)

The autolamp control sets the headlamps to turn on and off automatically. The autolamp control, located on the headlamp control, may be set to:

- turn on the lamps automatically at night
- turn off the lamps automatically during the daylight
- keep the lamps on for up to three minutes after the key is turned to OFF.

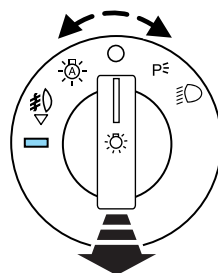


To turn the autolamps on, rotate the control counterclockwise to  .

### Foglamp control (if equipped)

The foglamps can be turned on only when the headlamp control is in the  ,  or  position and the high beams are not turned on.

Pull headlamp control towards you to turn foglamps on. The foglamp indicator light below the  icon will illuminate when foglamp is activated.



## Lights

Push the headlamp control towards the instrument panel to deactivate the foglamps.

### Daytime running lamps (DRL) (if equipped)

To activate DRL:

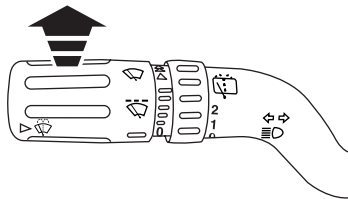
- the ignition must be in the ON position and
- the headlamp control is in the  or  position
- the transmission is not in park.



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

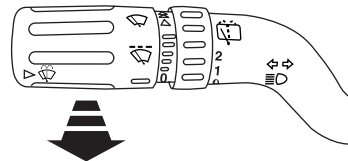
### High beams

Push the lever toward the instrument panel to activate. Pull the lever towards you to deactivate.



### Flash to pass

Pull the lever toward you to activate. Release the lever to deactivate.

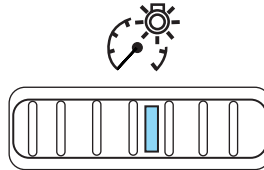


## Lights

### PANEL DIMMER CONTROL

Use to adjust the brightness of the instrument panel when exterior lights are on.

- Rotate the thumbwheel from left to right to brighten the instrument panel.
- Rotate the thumbwheel from right to left to dim the instrument panel.
- Rotate to fully to the right (past detent) to turn on interior lamps.
- Rotate to the left position (past detent) to turn off the interior lamps and will also disable the illuminated entry feature.



### AIMING THE HEADLAMPS

The headlamps on your vehicle are properly aimed before leaving the assembly plant. If your vehicle is involved in an accident or if you have problems fixing the alignment of your headlamps, have them checked by a qualified service technician.

#### Headlamp aim adjustment

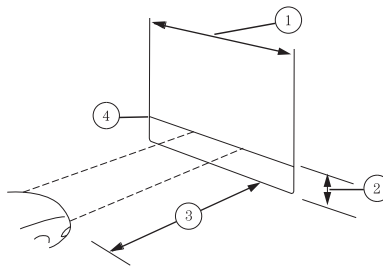
The headlamps on your vehicle can only be vertically adjusted. Your vehicle does not require horizontal aim adjustments.

To adjust the headlamps:

1. Park your vehicle on a level surface about 25 feet (7.6 meters) away from a vertical plain surface (3). Check your headlamp alignment at night or in a dark area so that you can see the headlamp beam pattern.

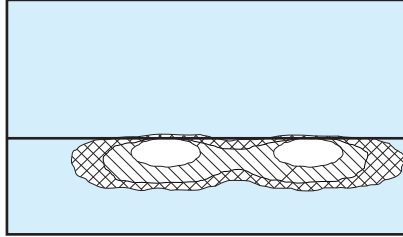
- (1) Eight feet
- (2) Center height of lamp to ground
- (3) Twenty-five feet
- (4) Horizontal reference line

2. The center of the headlamp has a 3.0 mm circle on the lens. Measure the height from the center of your headlamp to the ground (2) and mark an 8 foot (2.4 meter) long horizontal line on the plain surface (1) at this height (masking tape works well).



## Lights

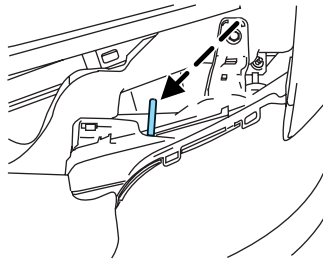
3. Turn on the low beam headlamps. The brightest part of the light should be below the horizontal line (4). If it is above the line the headlamp will need to be adjusted.
4. Open the hood.



5. Locate the vertical adjuster for each headlamp. Adjust the aim by turning the adjuster control either clockwise (to adjust down) or counterclockwise (to adjust up).

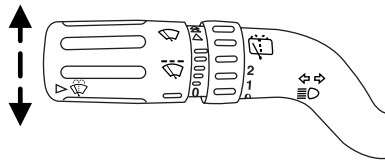
**Note:** Use a 4 mm socket or box wrench to turn the vertical adjuster control.

6. Horizontal aiming is not required for this vehicle and is non-adjustable.



### TURN SIGNAL CONTROL ⇄

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



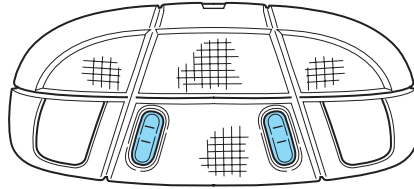
## Lights

### INTERIOR LAMPS

#### Dome/reading lamps

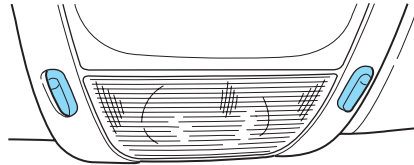
The dome lamp lights when:

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



The reading portion, the two outer lights, can only be toggled on and off at the lamp.

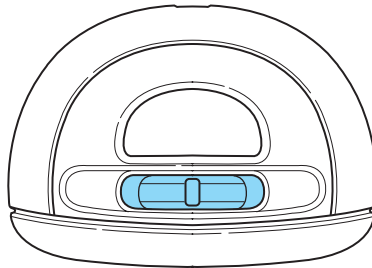
The front map lamps are located in the overhead console (if equipped). Press the controls on either side of each map lamp to activate the lamps.



#### Cargo/reading lamps

The dome portion of the lamp or the center light can be turned on when the panel dimmer control is rotated fully up or when a door is opened.

The rear dome lamp can be turned ON or OFF by sliding the control.



### BULB REPLACEMENT

#### Headlamp Condensation

The headlamps are vented to equalize pressure. When moist air enters the headlamp(s) through the vents, there is a possibility that condensation can occur. This condensation is normal and will clear within 45 minutes of headlamp operation.

## Lights

### Replacing exterior bulbs

Check the operation of all the bulbs frequently.

### Replacing the interior bulbs

Check the operation of the bulbs frequently. To replace any of the interior bulbs, see a dealer or qualified technician.

### Using the right bulbs

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. Using incorrect bulbs may damage the lamp assembly or void the lamp assembly warranty or may not provide quality bulb burn time.

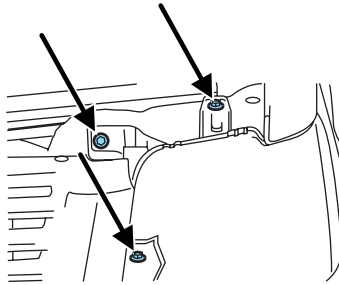
| Function                                                              | Number of bulbs | Trade number     |
|-----------------------------------------------------------------------|-----------------|------------------|
| Headlamp low & high beam                                              | 2               | H13              |
| Front park/turn lamp                                                  | 2               | 3457 NAK (amber) |
| Side park/turn lamp                                                   | 2               | 194              |
| Upper rear tail lamp                                                  | 2               | 194              |
| Rear backup lamp                                                      | 2               | 921              |
| Lower rear stop/tail/turn lamp                                        | 2               | 4057K            |
| High-mount stop lamps                                                 | 5               | W5WL             |
| Rear license plate lamps                                              | 2               | 168              |
| Front fog lamp                                                        | 2               | 9145             |
| Cargo lamp                                                            | 1               | 211-2            |
| Interior overhead lamp                                                | 1               | 912 (906)        |
| Front door courtesy lamp                                              | 1               | 168              |
| Map lamps                                                             | 2               | 168 (T10)        |
| Ashtray lamp                                                          | 1               | 161              |
| All replacement bulbs are clear in color except where noted.          |                 |                  |
| To replace all instrument panel lights - see your authorized dealer . |                 |                  |

## Lights

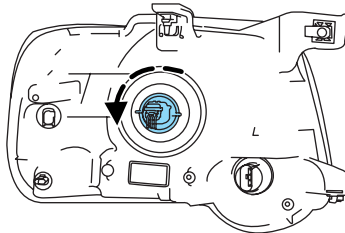
### Replacing headlamp bulbs

Do not touch the glass of a halogen bulb.

1. Turn off the headlamps and open the hood.
2. Remove three screws from the headlamp assembly and pull headlamp forward.



3. Disconnect the electrical connector.
4. Remove the old bulb by turning counterclockwise and pull it out.



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.

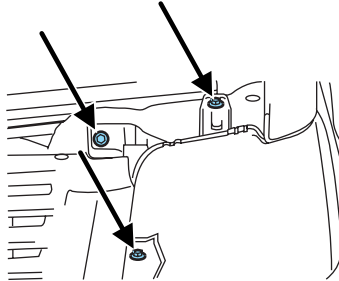
Reverse steps to reinstall bulb(s).



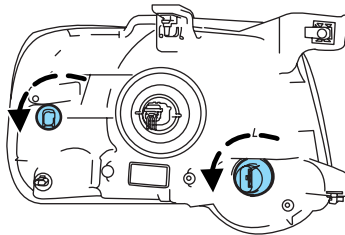
## Lights

### Replacing front parking lamp/turn signal/sidemarkers bulbs

1. Turn off the headlamps and open the hood.
2. Remove three screws from the headlamp assembly and pull headlamp forward.



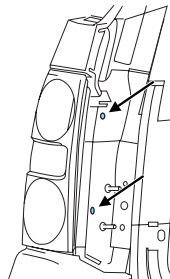
3. Rotate the bulb socket counterclockwise and remove it from the lamp assembly.
4. Pull the bulb straight out of the socket.



Reverse steps to reinstall bulb(s).

### Replacing tail/brake/turn/backup lamp bulbs

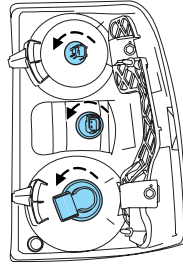
1. Turn the headlamp switch to OFF and open the liftgate.
2. Remove the two bolts from the lamp assembly.
3. Remove the lamp assembly.



## Lights

4. Rotate the bulb socket counterclockwise and remove it from the lamp assembly.
5. Pull the bulb straight out of the socket.

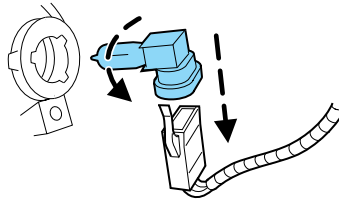
Reverse steps to reinstall bulb(s).



### Replacing foglamp bulbs

1. Make sure the headlamp switch is in the OFF position.
2. Remove the bulb socket from the foglamp by turning it counterclockwise.
3. Disconnect the electrical connector.

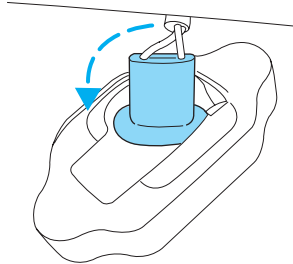
Reverse steps to reinstall bulb(s).



### Replacing license plate lamp bulbs

1. Make sure the headlamp switch is in the OFF position.
2. Remove the lamp assembly by depressing the small tab and rocking the lamp assembly out.
3. Remove the bulb socket from the lamp assembly by turning counterclockwise and pull the bulb straight out.

Reverse steps to reinstall bulb(s).



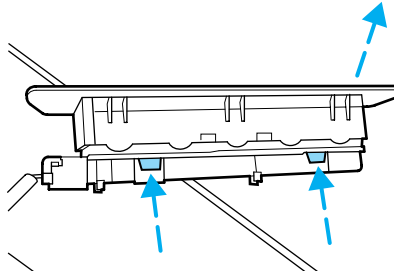
## Lights

### Replacing high-mount brakelamp bulb

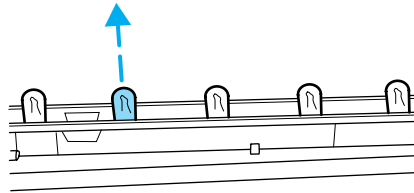
1. Remove the two screws and lamp assembly away from the vehicle.



2. Remove the bulb holder from the lamp assembly by depressing the snaps.



3. Pull the bulb straight out of the socket and push in the new bulb.

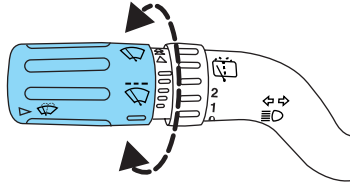


Reverse steps to reinstall bulb(s).

## Driver Controls

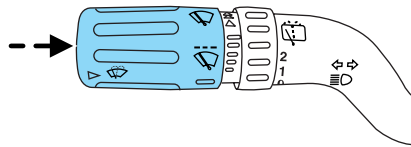
### MULTI-FUNCTION LEVER

**Windshield wiper:** Rotate the end of the control away from you to increase the speed of the wipers; rotate towards you to decrease the speed of the wipers.



**Windshield washer:** Push the end of the stalk:

- briefly: causes a single swipe of the wipers without washer fluid.
- a quick push and hold: the wipers will swipe three times with washer fluid.
- a long push and hold: the wipers and washer fluid will be activated for up to ten seconds.



### Windshield wiper features (if equipped with Autolamp feature)

The exterior lamps will turn on with the ignition on, Headlamp control in the Autolamp position and the windshield wipers are turned on (for a fixed period of time).

### Rear window wiper/washer controls

For rear wiper operation, rotate the rear window wiper and washer control to the desired position. Select:

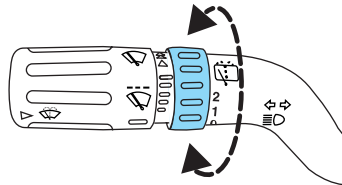
INT 1 — 8–10 second interval rear wiper.

INT 2 — 3–4 second interval rear wiper.

OFF — Rear wiper and washer off.

For rear wash cycle, rotate (and hold as desired) the rear wiper/washer control to either  position.

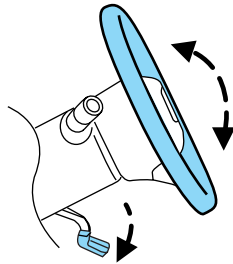
From either position, the control will automatically return to the INT 2 or OFF position.



## Driver Controls

### TILT STEERING COLUMN

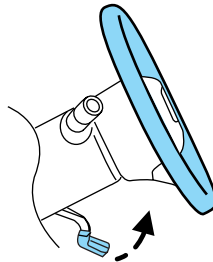
Pull the lever down and release, to unlock the steering column tilt lock. With the lever in the down position, tilt the steering column and wheel to its desired orientation. Do not push or pull the lever while tilting the wheel.



Lift the lever back to its original position to lock the steering column.



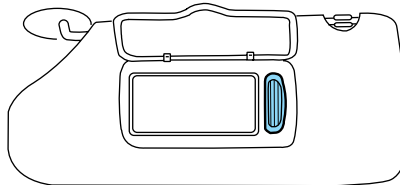
Never adjust the steering column when the vehicle is moving.



### ILLUMINATED VISOR MIRROR

#### (IF EQUIPPED)

Lift the mirror cover to turn on the visor mirror lamps.

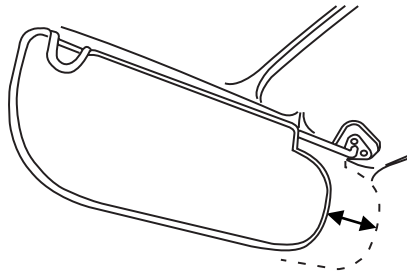


## Driver Controls

### Slide on rod feature

Rotate the visor towards the side window and extend it rearward for additional sunlight coverage.

**Note:** To stow the visor back into the headliner, visor must be retracted before moving it back towards the windshield.

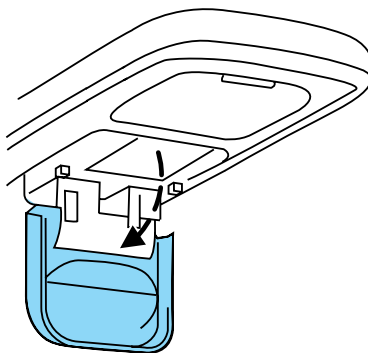


### OVERHEAD CONSOLE (IF EQUIPPED)

The appearance of your vehicle's overhead console will vary according to your option package.

#### Storage compartment

Press the latch to open the storage compartment.

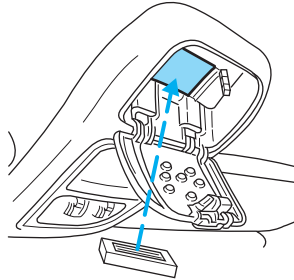


## Driver Controls

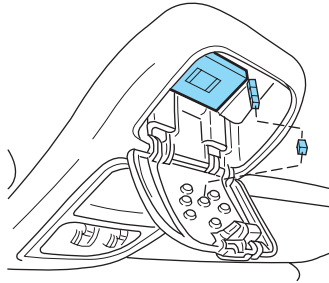
### Installing a garage door opener (if equipped)

The storage compartment can be converted to accommodate a variety of aftermarket garage door openers:

- Place the VELCRO® hook onto the side of the aftermarket transmitter opposite of the button.
- Place the transmitter into storage compartment, button down.



- Place the provided height adaptors onto the back of the door as needed.
- Close the door.
- Press the depression in the door to activate the transmitter.



### AUXILIARY POWER POINT (12VDC)

**Power outlets are designed for accessory plugs only. Do not insert any other object in the power outlet as this will damage the outlet and blow the fuse. Do not hang any type of accessory or accessory bracket from the plug. Improper use of the power outlet can cause damage not covered by your warranty.**

## Driver Controls

The auxiliary power point is located in the floor console.

Do not use the power point for operating the cigarette lighter element (if equipped).

To prevent the fuse from being blown, do not use the power point(s) over the vehicle capacity of 12 VDC/180W.

To prevent the battery from being discharged, do not use the power point longer than necessary when the engine is not running.

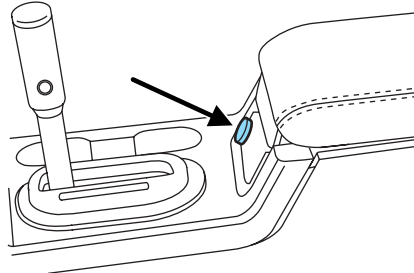
Always keep the power point caps closed when not being used.

### **Cigar/Cigarette lighter (if equipped)**

Do not plug optional electrical accessories into the cigarette lighter socket.

Do not hold the lighter in with your hand while it is heating, this will damage the lighter element and socket. The lighter will be released from its heating position when it is ready to be used.

Improper use of the lighter can cause damage not covered by your warranty.

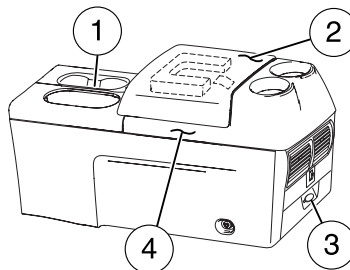


### **Rear auxiliary power point (if equipped)**

A second auxiliary power point is located on the rear side of the console. It is accessible from the rear seats.

## **CENTER CONSOLE**

1. Cupholders
2. Tissue holder in lid
3. Rear power point
4. Large utility compartment has an exterior power point in front of the lid, and inside the compartment has coin holder slots and a business/credit card holder



The rear side of the console may incorporate the following features:

- Air vents

## Driver Controls

- Cupholders

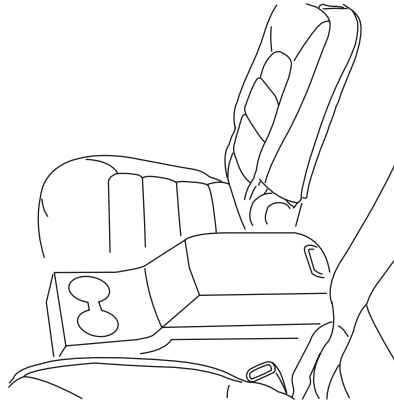


Use only soft cups in the cupholder. Hard objects can injure you in a collision.

### Rear center console features (if equipped)

The rear center console incorporates the following features:

- Utility compartment
- Cupholders
- Flip forward armrest to provide a flat load floor



## POWER WINDOWS



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



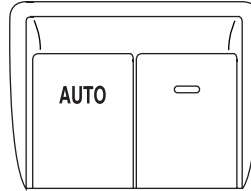
When closing the power windows, you should verify they are free of obstructions and ensure that children and/or pets are not in the proximity of the window openings.



## Driver Controls

Press and pull the window switches to open and close windows.

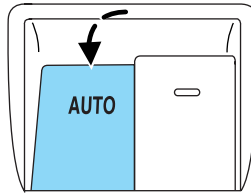
- Push down (to the first detent) and hold the switch to open.
- Pull up and hold the switch to close.



**Rear Window Buffeting:** When one or both of the rear windows are open, the vehicle may demonstrate a wind throb or buffeting noise; this noise can be eliminated by lowering a front window approximately two to three inches.

### One touch down

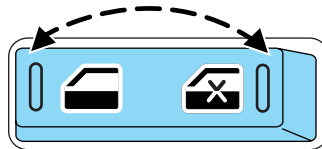
Allows the driver's window to open fully without holding the control down. Push the switch completely down to the second detent and release quickly. The window will open fully. Momentarily press the switch to any position to stop the window operation.



### Window lock

The window lock feature allows only the driver to operate the power windows.

To lock out all the window controls except for the driver's press the right side of the control. Press the left side to restore the window controls.



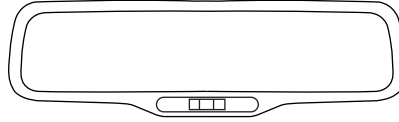
### Accessory delay

With accessory delay, the window switches, audio system and moon roof (if equipped) may be used for up to ten minutes after the ignition switch is turned to the OFF position or until either front door is opened.

## Driver Controls

### AUTOMATIC DIMMING INSIDE REAR VIEW MIRROR (IF EQUIPPED)

Your vehicle may be equipped with an inside rear view mirror with an auto-dimming function. The electrochromic day/night mirror will change from the normal (high reflective) state to the non-glare (darkened) state when bright lights (glare) reach the mirror. When the mirror detects bright light from behind the vehicle, it will automatically adjust (darken) to minimize glare.



The mirror will automatically return to the normal state whenever the vehicle is placed in R (Reverse) to ensure a bright clear view when backing up.

Do not block the sensor on the backside of the inside rear view mirror since this may impair proper mirror performance.

### EXTERIOR MIRRORS

#### Power side view mirrors

The ignition must be in the ACC or ON position to adjust the power side view mirrors.

To adjust your mirrors:

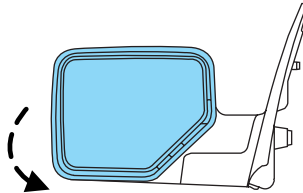
1. Rotate the control clockwise to adjust the right mirror and rotate the control counterclockwise to adjust the left mirror.
2. Move the control in the direction you wish to tilt the mirror.
3. Return to the center position to lock mirrors in place.



## Driver Controls

### Fold-away mirrors

Carefully pull the outside mirrors inwards when driving through a narrow space, like an automatic car wash.

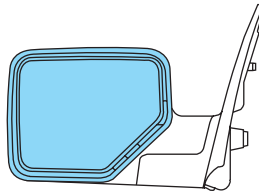


### Heated outside mirrors (if equipped)

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

**Do not remove ice from the mirrors with a scraper or attempt to readjust the mirror glass if it is frozen in place.**

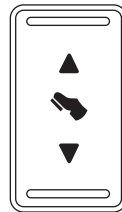
**These actions could cause damage to the glass and mirrors.**



### POWER ADJUSTABLE FOOT PEDALS (IF EQUIPPED)

The accelerator and brake pedal should only be adjusted when the vehicle is stopped and the gearshift lever is in the P (Park) position.

Press and hold the rocker control to adjust accelerator and brake pedal toward you or away from you.



The adjustment allows for approximately 3 inches (73 mm) of maximum travel.



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

### SPEED CONTROL (IF EQUIPPED)

With speed control set, you can maintain a speed of 30 mph (48 km/h) or more without keeping your foot on the accelerator pedal. Speed control does not work at speeds below 30 mph (48 km/h).



## Driver Controls

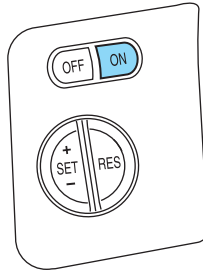


Do not use the speed control in heavy traffic or on roads that are winding, slippery or unpaved.

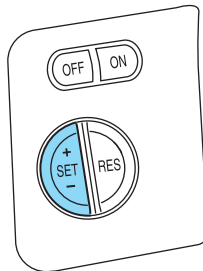
### Setting speed control

The controls for using your speed control are located on the steering wheel for your convenience.

1. Press the ON control and release it.
2. Accelerate to the desired speed.



3. Press the SET + control and release it.
4. Take your foot off the accelerator pedal.
5. The indicator light  on the instrument cluster will turn on.



### Note:

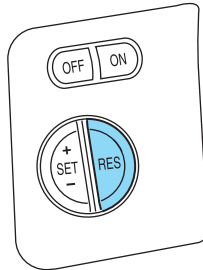
- Vehicle speed may vary momentarily when driving up and down a steep hill.
- If the vehicle speed increases above the set speed on a downhill, you may want to apply the brakes to reduce the speed.
- If the vehicle speed decreases more than 10 mph (16 km/h) below your set speed on an uphill, your speed control will disengage.



## Driver Controls

### **Resuming a set speed**

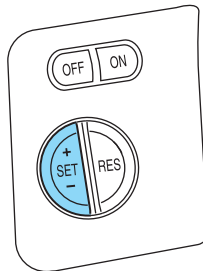
Press the RES (resume) control and release it. This will automatically return the vehicle to the previously set speed. The RES control will not work if the vehicle speed is not faster than 30 mph (48 km/h).



### **Increasing speed while using speed control**

There are two ways to set a higher speed:

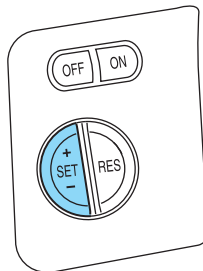
- Press and hold the SET + control until you get to the desired speed, then release the control. You can also use the SET + control to operate the Tap-Up function. Press and release this control to increase the vehicle set speed in small amounts by 1 mph (1.6 km/h).
- Use the accelerator pedal to get to the desired speed. When the vehicle reaches that speed press and release the SET + control.



### **Reducing speed while using speed control**

There are two ways to reduce a set speed:

- Press and hold the SET - control until you get to the desired speed, then release the control. You can also use the SET - control to operate the Tap-Down function. Press and release this control to decrease the vehicle set speed in small amounts by 1 mph (1.6 km/h).
- Depress the brake pedal until the desired vehicle speed is reached, press the SET + control.



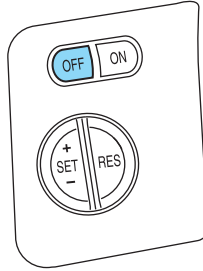
## Driver Controls

### Turning off speed control

There are two ways to turn off the speed control:

- Depress the brake pedal. This will not erase your vehicle's previously set speed.
- Press the speed control OFF control.

**Note:** When you turn off the speed control or the ignition, your speed control set speed memory is erased.



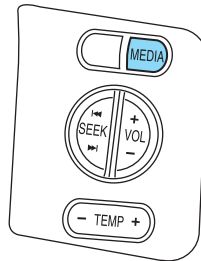
### STEERING WHEEL CONTROLS (IF EQUIPPED)

These controls allow you to operate some radio and climate control features.

#### Audio control features

Press MEDIA to select:

- AM, FM1, FM2
- TAPE (if equipped)
- CD (if equipped)
- DVD (if equipped)
- SAT1, SAT2 or SAT3 (Satellite Radio mode if equipped).



## Driver Controls

### In AM, FM1, or FM2 mode:

- Press **◀◀ SEEK ▶▶** to select preset stations within the selected radio band or press and hold to select the next/previous radio frequency.

### In Satellite radio mode (if equipped):

- Press **◀◀ SEEK ▶▶** to advance through preset channels or subscribed channels.

### In Tape mode:

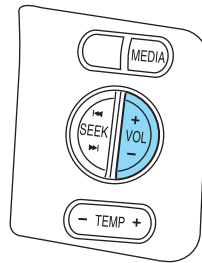
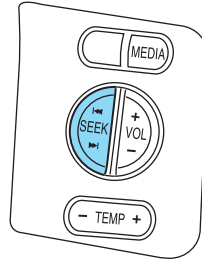
- Press **◀◀ SEEK ▶▶** to select the next selection on the tape or press and hold to forward or reverse the tape.

### In CD mode:

- Press **◀◀ SEEK ▶▶** to select the next selection on the CD or press and hold to forward or reverse the CD.

### In any mode:

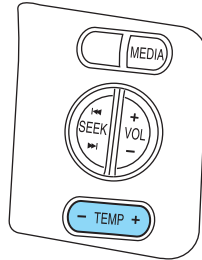
- Press VOL + or – to adjust volume.



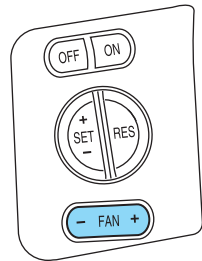
## Driver Controls

### Climate control features (if equipped)

Press TEMP + or - to adjust temperature.



Press FAN + or - to adjust fan speed.



### MOON ROOF (IF EQUIPPED)

You can move the glass panel of the moon roof back to open or tilt up (from the closed position) to ventilate the vehicle.



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



When closing the moon roof, you should verify that it is free of obstructions and ensure that children and/or pets are not in the proximity of the moon roof opening.

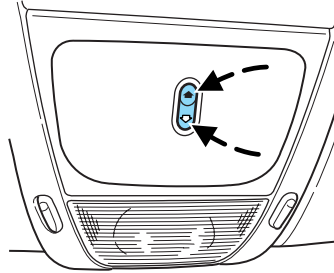
### To open the moon roof:

The moon roof is equipped with an automatic, one-touch, express opening feature. Press and release the rear portion of the control. To stop motion at any time during the one-touch opening, press the control again.

## Driver Controls

### To close the moon roof:

The moon roof is equipped with an automatic, one-touch, express closing feature. Press and release the front portion of the control. To stop motion at any time during the one-touch closing, press the control again.



**Bounce back:** When an obstacle has been detected in the moon roof opening as the moon roof is closing, the moon roof will automatically open and stop at a prescribed position.

**Bounce back override:** To override bounce back, within 2 seconds after reaching bounce back position, if the switch is held in the close position the moon roof will close with a 20–25 percent increase of closing force before it will bounce back again. If the switch is released before the moon roof reaches fully closed position, the moon roof will stop. For example: Bounce Back Override can be used to overcome the resistance of ice on the moon roof or seals.

### To vent:

- To tilt the moon roof into the vent position (when the glass panel is closed), press and hold the front portion of the control.
- To close the moon roof from the vent position, press and hold the rear portion of the control until the glass panel stops moving.

The moon roof has a sliding shade that can be opened or closed when the glass panel is shut. To close the shade, pull it toward the front of the vehicle.

### Accessory delay:

With accessory delay, the window switches, audio system, and moon roof (if equipped) may be used for up to 10 minutes after the ignition switch is turned to the OFF position or until either front door is opened.

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

The HomeLink® Wireless Control System, located on the overhead console, provides a convenient way to replace up to three hand-held transmitters with a single built-in device. This feature will learn the radio frequency codes of most transmitters to operate garage doors, entry gate operators, security systems, entry door locks, and home or office lighting.

## Driver Controls



When programming your HomeLink® Wireless Control System to a garage door or gate, be sure that people and objects are out of the way to prevent potential harm or damage.

Do not use the HomeLink® Wireless Control System with any garage door opener that lacks safety stop and reverse features as required by U.S. federal safety standards (this includes any garage door opener model manufactured before April 1, 1982). A garage door which cannot detect an object, signaling the door to stop and reverse, does not meet current U.S. federal safety standards. For more information, contact HomeLink® at: **www.homelink.com** or **1-800-355-3515**.

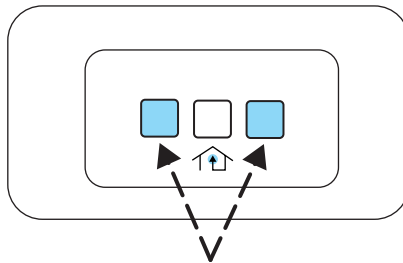
Retain the original transmitter for use in other vehicles as well as for future programming procedures (i.e. new HomeLink® equipped vehicle purchase). It is also suggested that upon the sale of the vehicle, the programmed HomeLink® buttons be erased for security purposes, refer to *Programming* in this section.

### Programming

**Do not program HomeLink® with the vehicle parked in the garage.**

**Note:** Some vehicles may require the ignition switch to be turned to the second (or “ACC”) position for programming and/or operation of the HomeLink®. It is also recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink® for quicker training and accurate transmission of the radio-frequency signal.

1. Press and hold the two outside buttons releasing only when the indicator light begins to flash after 20 seconds. **Do not** repeat Step 1 to program additional hand-held transmitters to the remaining two HomeLink® buttons. This will erase previously programmed hand-held transmitter signals into HomeLink®.



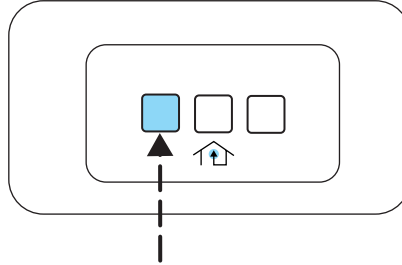
2. Position the end of your hand-held transmitter 1–3 inches (2–8 cm) away from the HomeLink® button you wish to program (located on your overhead console) while keeping the indicator light in view.



## Driver Controls

3. Simultaneously press and hold both the HomeLink® and hand-held transmitter button. **Do not release the buttons until Step 4 has been completed.**

Some entry gates and garage door openers may require you to replace Step 3 with procedures noted in the “Gate Operator and Canadian Programming” section for Canadian residents.



4. The indicator light will flash slowly and then rapidly. Release both buttons when the indicator light flashes rapidly. (The rapid flashing light indicates acceptance of the hand-held transmitters' radio frequency signals.)

5. Press and hold the just-trained HomeLink® button and observe the indicator light. If the light is constant, programming is complete and your device should activate when the HomeLink® button is pressed and released. **Note:** To program the remaining two HomeLink® buttons, begin with Step 2 in the “Programming” section — **do not** repeat Step 1.

**Note:** If the indicator light blinks rapidly for two seconds and then turns to a continuous light, proceed with Steps 6 through 8 to complete programming of a rolling code equipped device.

6. At the garage door opener receiver (motor-head unit) in the garage, locate the “learn” or “smart” button (usually near where the hanging antenna wire is attached to the unit).

7. Press and release the “learn” or “smart” button. (The name and color of the button may vary by manufacturer.)

**Note:** There are 30 seconds in which to initiate Step 8.

8. Return to the vehicle and firmly press, hold for two seconds and release the HomeLink® button. Repeat the press/hold/release sequence again, and, depending on the brand of the garage door opener (or other rolling code equipped device), repeat this sequence a third time to complete the programming.

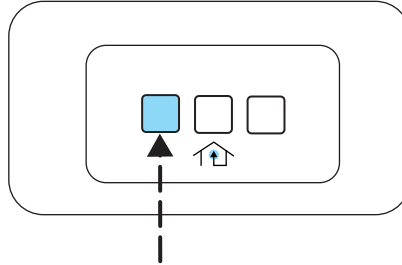
HomeLink® should now activate your rolling code equipped device. To program additional HomeLink® buttons begin with Step 2 in the “Programming” section. For questions or comments, please contact HomeLink at **www.homelink.com** or **1-800-355-3515**.

## Driver Controls

### Gate Operator & Canadian Programming

During programming, your hand-held transmitter may automatically stop transmitting — not allowing enough time for HomeLink® to accept the signal from the hand-held transmitter.

After completing Steps 1 and 2 outlined in the “Programming” section, replace Step 3 with the following:

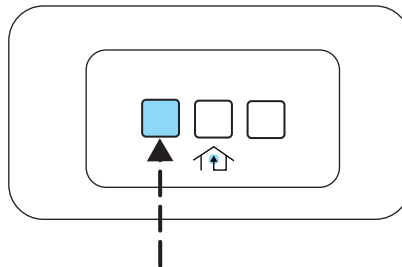


**Note:** If programming a garage door opener or gate operator, it is advised to unplug the device during the “cycling” process to prevent overheating.

- Continue to press and hold the HomeLink® button (note Step 3 in the “Programming” section) while you press and release — **every two seconds** (“cycle”) your hand-held transmitter until the frequency signal has been accepted by the HomeLink®. The indicator light will flash slowly and then rapidly after HomeLink® accepts the radio frequency signal.
- Proceed with Step 4 in the “Programming” section.

### Operating the HomeLink® Wireless Control System

To operate, simply press and release the appropriate HomeLink® button. Activation will now occur for the trained product (garage door, gate operator, security system, entry door lock, or home or office lighting etc.). For convenience, the hand-held transmitter of the device may also be used at any time. In the event that there are still programming difficulties, contact HomeLink® at **www.homelink.com** or **1-800-355-3515**.

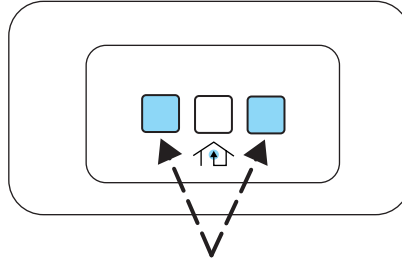


## Driver Controls

### Erasing HomeLink® buttons

To erase the three programmed buttons (individual buttons cannot be erased):

- Press and hold the two outer HomeLink® buttons until the indicator light begins to flash-after 20 seconds. Release both buttons. Do not hold for longer than 30 seconds.



HomeLink® is now in the train (or learning) mode and can be programmed at any time beginning with Step 2 in the “Programming” section.

### Reprogramming a single HomeLink® button

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

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

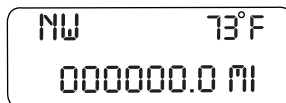
For questions or comments, contact HomeLink® at [www.homelink.com](http://www.homelink.com) or **1-800-355-3515**.

### STANDARD MESSAGE CENTER (IF EQUIPPED)

With the ignition in the ON position, the message center, located on your instrument cluster, displays important vehicle information

**through a constant monitor of vehicle systems.** You may select

display features on the message center for a display of status. The system will also notify you of potential vehicle problems with a display of system warnings followed by an indicator chime.



## Driver Controls

### Selectable features

Press and release the TRIP/RESET control switch to scroll and reset the following functions. Select or reset the function by holding the TRIP/RESET button for more than 2 seconds.



### Info menu

This menu displays the following control displays:

- Odometer/Trip Odometer (Trip A and Trip B)
- Distance to Empty
- Average Fuel Economy
- Setup Menu

### Odometer/Trip odometer

Refer to *Gauges* in the *Instrument Cluster* chapter.

### Distance to empty (DTE)

Selecting this function from the INFO MENU estimates 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.



The DTE function will display LOW FUEL LEVEL and sound a tone for one second when you have approximately 50 miles (80 km) to empty. If you RESET this warning message, this display and tone will return within 10 minutes.

DTE 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 reinitialized to a factory default value if the battery is disconnected.

## Driver Controls

### Average fuel economy (AFE)

Select this function to display your average fuel economy in miles/gallon or liters/km.

AVERAGE FUEL  
XX.X MPG



If you calculate your average fuel economy by dividing miles traveled by gallons of fuel used (liters of fuel used by 100 kilometers traveled), your figure may be different than displayed for the following reasons:

- Your vehicle was not perfectly level during fill-up
- Differences in the automatic shut-off points on the fuel pumps at service stations
- Variations in top-off procedure from one fill-up to another
- Rounding of the displayed values to the nearest 0.1 gallon (liter)

1. Drive the vehicle at least 5 miles (8 km) with the speed control system engaged to display a stabilized average.

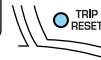
2. Record the highway fuel economy for future reference.

It is important to press the TRIP/RESET control switch (press and hold for 2 seconds in order to reset the function) after setting the speed control to get accurate highway fuel economy readings.

### Setup menu

Press and hold the TRIP/RESET control switch to get to the SETUP MENU sequence from the INFO MENU for the following displays:

SET UP MENU  
HOLD RESET



- System Check
- Units (English/Metric)
- Language
- Autolamp
- Autolock
- Autounlock
- Park Aid (if equipped)
- Oil Life Start Value

Briefly press the TRIP/RESET control switch to scroll through the SETUP MENU display sequence. If the TRIP/RESET control switch is not pressed within 4 seconds, the message center returns to the Info Menu.

## Driver Controls

### System check

Press and hold the TRIP/RESET control switch to select SYSTEM CHECK when “SYSTEM CHECK / HOLD RESET” is displayed in the message center. Selecting this function from the SETUP MENU

causes the message center to cycle through each of the systems being monitored. For each of the monitored systems, the message center will indicate either an OK message or a warning message for two seconds.

Pressing the TRIP/RESET control switch cycles the message center through each of the systems being monitored.

The sequence of the system check report and how it appears in the message center is as follows:

1. OIL LIFE RESET
2. CHARGING SYSTEM
3. WASHER FLUID
4. DOOR AJAR
5. EXTERIOR LAMP
6. BRAKE SYSTEM
7. PARK BRAKE
8. MILES TO EMPTY
9. FUEL LEVEL LOW (will only display if 50 miles or less to empty)

To reset the oil monitoring system to 100% after each oil change [approximately 5,000 miles (8,000 km) or 180 days] perform the following:

1. Enter SYSTEM CHECK to display “HOLD RESET IF NEW OIL”.

SYSTEM CHECK  
HOLD RESET



HOLD RESET  
IF NEW OIL



## Driver Controls

2. Press and hold the RESET control switch for more than 2 seconds. Oil life is set to 100% and “OIL LIFE SET TO 100%” is displayed.

OIL LIFE SET  
TO 100%

**Note:** To change oil life 100% miles value from 5,000 miles (8,000 km) or 180 days to another value, refer to the *Oil Life Start Value* selected from the SETUP MENU in this section.

### Units (English/Metric)

1. Select this function from the SETUP MENU for the current units to be displayed.

UNITS  
> ENG METRIC

2. Press and hold the TRIP/RESET control switch to change from English to Metric.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

### Language

**Note:** When entering the SETUP MENU and a non-English language has been selected, “PRESS RESET FOR ENGLISH” will be displayed to change back to English.

1. Select this function from the SETUP MENU for the current language to be displayed.

> ENGLISH  
ESPAÑOL

2. Press and hold the TRIP/RESET control to select a new language.



Selectable languages are English, Spanish, French, Japanese, or Arabic.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

### Autolamp

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

## Driver Controls

1. To change the time delay of the autolamp feature, select this function from the SETUP MENU.

AUTOLAMP  
> 0 10 20



2. Press and hold the TRIP/RESET control switch to select the new Autolamp delay time (in seconds)

values of 0, 10, 20, 30, 60, 90, 120 or 180 and wraps back to 0. Selecting 0 will result in no delay feature.

**Note:** ">" in front of a number indicates current selection.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

### Autolock

This feature automatically locks all vehicle doors when the vehicle is shifted into any gear and when the vehicle is in motion over 13 mph (20 km/h) or higher.

1. To disable/enable the autolock feature, select this function from the SETUP MENU.

AUTOLOCKS  
> ON OFF

2. Press and hold the TRIP/RESET control switch to turn the autolock feature ON or OFF.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

### Autounlock

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

1. To disable/enable the autounlock feature, select this function from the SETUP MENU.

AUTOUNLOCK  
> ON OFF

2. Press and hold the TRIP/RESET control switch to turn the autounlock ON or OFF.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

### Reverse Sensing System (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.

## Driver Controls

1. To disable/enable the reverse sensing system feature with the vehicle in P (Park), select this function from the SETUP MENU or put the vehicle in R (Reverse).

PARK AID  
> ON OFF



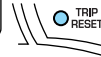
2. Press and hold the TRIP/RESET control switch to turn the park aid ON or OFF.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

### Oil Life Start Value

1. Select this function from the SETUP MENU for the current display mode.

OIL LIFE  
SET TO XX%



2. Press and hold the TRIP/RESET control switch to reset oil change.

3. Press the TRIP/RESET control switch for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO MENU.

**Note:** Oil Life Start Value of 100% equals 5,000 miles (8,000 km) and 180 days. Setting Oil Life Start Value to 60% sets the Oil Life Start Value to 3,000 miles (4,828 km) and 120 days.

### Compass display

The compass heading is displayed as one of N, NE, E, SE, S, SW, W and NW in the message center display.

The compass reading may be affected when you drive near large buildings, bridges, power lines and powerful broadcast antenna. Magnetic or metallic objects placed in, on or near the vehicle may also affect compass accuracy.

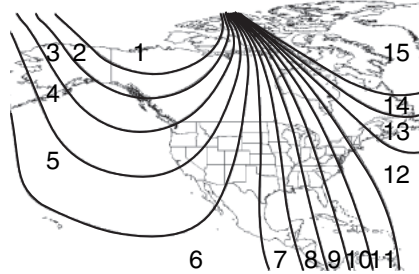
Usually, when something affects the compass readings, the compass will correct itself after a few days of operating your vehicle in normal conditions. If the compass still appears to be inaccurate, a manual calibration may be necessary. Refer to *Compass zone adjustment*.

Most geographic areas (zones) have a magnetic north compass point that varies slightly from the northerly direction on maps. This variation is up to four degrees between adjacent zones and will become noticeable as the vehicle crosses multiple zones. A correct zone setting will eliminate this error. Refer to *Compass calibration adjustment*.

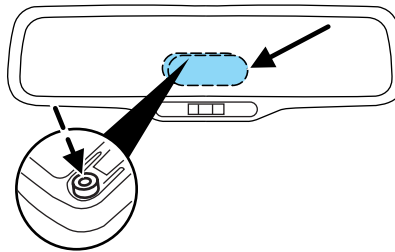
## Driver Controls

### Compass zone adjustment

1. Determine which magnetic zone you are in for your geographic location by referring to the zone map.
2. Turn ignition to the ON position.



3. Locate the reset button on top of the compass sensor mounted behind the mirror.



4. Press and hold the reset button on the compass module for approximately 4 seconds until COMPASS ZONE XX appears in the message center display.
5. Continue to press the reset button until the correct zone appears in the message center display.
6. After 4 seconds ZONE XX IS SET will appear in the message center display.
7. The display will return to normal operation. The zone is now updated.

COMPASS  
ZONE XX

ZONE XX  
IS SET

### Compass calibration adjustment

Perform compass calibration in an open area free from steel structures and high voltage lines. For optimum calibration, turn off all electrical accessories (heater/air conditioning, wipers, etc.) and make sure all vehicle doors are shut.

## Driver Controls

1. Start the vehicle.
2. Locate the reset button on the compass sensor mounted on the base of mirror.
3. To calibrate, press and hold the reset button on the compass module for approximately eight seconds and release.
4. Slowly drive the vehicle in a circle (less than 5 km/h [3 mph]) until the CIRCLE SLOW TO CALIBRATE display changes to CALIBRATION COMPLETED. It will take up to five circles to complete calibration.
5. The compass is now calibrated.

CIRCLE SLOW  
TO CALIBRATE



CALIBRATION  
COMPLETED

### System warnings

System warnings alert you to possible problems or malfunctions in your vehicle's operating systems.

In the event of a multiple warning situation, the message center will cycle the display to show all warnings by displaying each one for 4 seconds.

The message center will display the last selected feature if there are no more warning messages. This allows you to use the full functionality of the message center after you acknowledge the warning by pressing the RESET control and clearing the warning message.

Warning messages are divided into four categories:

- They cannot be cleared until the condition is corrected.
- They will reappear on the display ten minutes from the reset if the condition has not been corrected.
- They will not reappear until an ignition OFF-ON cycle has been completed.
- They reappear if the condition clears then reoccurs within the same ignition ON-OFF cycle.

This acts as a reminder that these warning conditions still exist within the vehicle.

## Driver Controls

| Warning display              | Status                                                                                               |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Door ajar                    | Warning cannot be reset                                                                              |
| Check charging system        | Warning returns after 10 minutes                                                                     |
| Fuel level low               |                                                                                                      |
| Park brake engaged           |                                                                                                      |
| Check brake system           |                                                                                                      |
| Check park aid (if equipped) | Warning returns only after the ignition key is turned from OFF to ON.                                |
| Low tire pressure            |                                                                                                      |
| Tire monitor fault           |                                                                                                      |
| Tire sensor fault            |                                                                                                      |
| Brake fluid level low        |                                                                                                      |
| Check headlamp               |                                                                                                      |
| Check highbeam lamp          |                                                                                                      |
| Check turn lamp              |                                                                                                      |
| Washer fluid level low       |                                                                                                      |
| Oil change required          |                                                                                                      |
| Engine oil change soon       |                                                                                                      |
| Liftgate/glass ajar          |                                                                                                      |
|                              |                                                                                                      |
|                              | Warning returns after the condition has cleared then reoccurs within the same ignition ON-OFF cycle. |

**DOOR AJAR.** Displayed when a door is not completely closed.

**CHECK CHARGING SYSTEM.** Displayed when the electrical system is not maintaining proper voltage when the engine is running. If you are operating electrical accessories when the engine is idling at a low speed, turn off as many of the electrical loads as soon as possible. If the warning stays on or comes on when the engine is operating at normal speeds, have the electrical system checked as soon as possible.

**FUEL LEVEL LOW.** Displayed as an early reminder of a low fuel condition.

**PARK BRAKE ENGAGED.** Displayed when the manual park brake is set, the engine is running and the vehicle is driven more than 3 mph (5 km). If the warning stays on after the park brake is released, contact your authorized dealer as soon as possible.

**CHECK BRAKE SYSTEM.** Displayed when the braking system is not operating properly. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.

## Driver Controls

**CHECK PARK AID (if equipped).** Displayed when the transmission is in R (Reverse) and the Reverse Sensing System (Park Aid) is disabled. Refer to *Reverse Sensing System (Park Aid)* in this section to enable.

**LOW TIRE PRESSURE.** Displayed when one or more tires on your vehicle have low tire pressure. Refer to *Inflating Your Tires* in the *Tires, Wheels and Loading* chapter.

**TIRE MONITOR FAULT.** Displayed when the Tire Pressure Monitoring System is malfunctioning. If the warning stays on or continues to come on, have the system inspected by your authorized dealer.

**TIRE SENSOR FAULT.** Displayed when a tire pressure sensor is malfunctioning, or your spare tire is in use. For more information on how the system operates under these conditions, refer to *Understanding Your Tire Pressure Monitoring System* in the *Tires, Wheels and Loading* chapter. If the warning stays on or continues to come on, have the system inspected by your authorized dealer.

**BRAKE FLUID LEVEL LOW.** Indicates the brake fluid level is low and the brake system should be inspected immediately. Refer to *Brake fluid reservoir* in the *Maintenance and Specifications* chapter.

**CHECK HEADLAMP.** Displayed when the headlamps are activated and at least one bulb is burned out. Check the lamps as soon as possible and have the burned out lamp replaced. Refer to *Replacing headlamp bulbs* in the *Lights* chapter.

**CHECK HIGHBEAM LAMP.** Displayed when the highbeam lamps are activated and at least one bulb is burned out. Check the lamps as soon as possible and have the burned out lamp replaced. Refer to *Replacing headlamp bulbs* in the *Lights* chapter.

**CHECK TURN LAMP.** Displayed when the turn lamps are activated and at least one bulb is burned out. Check the lamps as soon as possible and have the burned out lamp replaced. Refer to *Replacing headlamp bulbs* in the *Lights* chapter.

**WASHER FLUID LEVEL LOW.** Indicates the washer fluid reservoir is less than one quarter full. Check the washer fluid level. Refer to *Windshield washer fluid* in the *Maintenance and Specifications* chapter.

**OIL CHANGE REQUIRED.** Displayed when the engine oil life remaining is 0%.

An oil change is required whenever indicated by the message center and according to the recommended maintenance schedule. **USE ONLY RECOMMENDED ENGINE OILS.**

## Driver Controls

**ENGINE OIL CHANGE SOON.** Displayed when the engine oil life reaches 5% or less of the Oil Life Start Value.

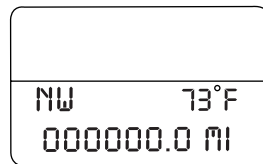
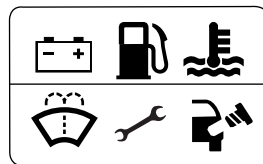
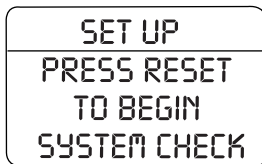
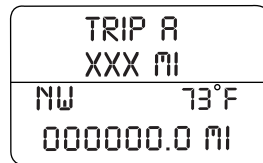
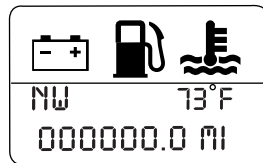
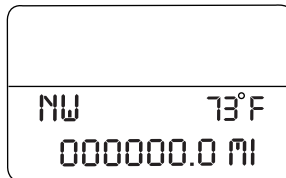
**LIFTGATE/GLASS AJAR.** Displayed when the liftgate or the liftgate glass is not completely closed.

### OPTIONAL MESSAGE CENTER (IF EQUIPPED)

With the ignition in the ON position, the message center, located on your instrument cluster, displays important vehicle information

**through a constant monitor of vehicle systems.** You may select display features on the message center for a display of status. The

system will also notify you of potential vehicle problems with a display of system warnings followed by an indicator chime.



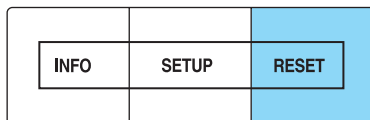
Your display can show up to 6 reconfigurable telltales at one time. What ever is displayed in the top left corner has the highest priority.

## Driver Controls

### Selectable features

#### Reset

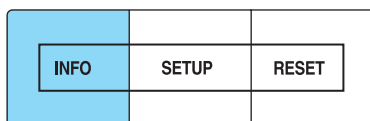
Press the RESET control to select and reset functions shown in the INFO menu, SETUP menu, text warnings and reconfigurable telltale warnings.



#### Info menu

The Info menu items are shown on the top two lines of the message center. Press the INFO control to display the following:

- Trip odometer (Trip A and Trip B)
- Distance to Empty
- Average Fuel Economy
- Instantaneous Fuel Economy
- Fuel Used
- Trip Elapsed Drive Time
- Blank

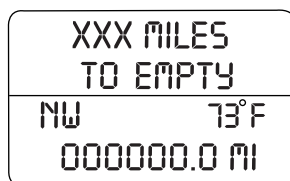


#### Trip odometer

Refer to *Gauges* in the *Instrument Cluster* chapter.

#### Distance to empty (DTE)

Selecting this function from the INFO menu estimates 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.



The DTE function will display LOW FUEL LEVEL and sound a tone for one second when you have approximately 50 miles (80 km) to empty. If you RESET this warning message, this display and tone will return within 10 minutes.

## Driver Controls

DTE 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 reinitialized to a factory default value if the battery is disconnected.

### **Average fuel economy (AFE)**

Select this function from the INFO menu to display your average fuel economy in miles/gallon or liters/km.

If you calculate your average fuel economy by dividing miles traveled by gallons of fuel used (liters of fuel used by 100 kilometers traveled), your figure may be different than displayed for the following reasons:

- Your vehicle was not perfectly level during fill-up
- Differences in the automatic shut-off points on the fuel pumps at service stations
- Variations in top-off procedure from one fill-up to another
- Rounding of the displayed values to the nearest 0.1 gallon (liter)

1. Drive the vehicle at least 5 miles (8 km) with the speed control system engaged to display a stabilized average.

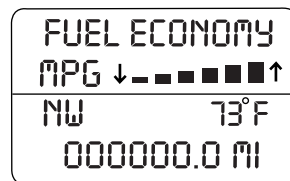
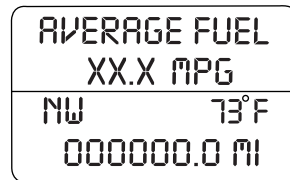
2. Record the highway fuel economy for future reference.

It is important to press the RESET control (press and hold RESET for 2 seconds in order to reset the function) after setting the speed control to get accurate highway fuel economy readings.

### **Instantaneous fuel economy**

Select this function from the INFO menu to display your instantaneous fuel economy. This will display your fuel economy as a Bar Graph ranging from ▼ poor fuel economy to ▲ excellent fuel economy. As the bars increase from left to right, the instantaneous fuel economy is increasing.

Your vehicle must be moving to calculate instantaneous fuel economy. When your vehicle is not moving, this function shows one or no bars illuminated. Instantaneous fuel economy cannot be reset.



## Driver Controls

### Fuel Used

Selecting this function from the INFO menu. "FUEL USED XXX.X GAL" will display the fuel used since last reset. The information displayed will be in gallons or liters, depending on English/Metric mode state.

|             |      |
|-------------|------|
| FUEL USED   |      |
| XXX.X GAL   |      |
| NW          | 73°F |
| 000000.0 MI |      |

### Trip elapsed drive time

Select this function from the INFO menu to display a timer.

To operate the Trip Elapsed Drive Time perform the following:

1. Press and release RESET in order to start the timer.
2. Press and release RESET to pause the timer.
3. Press and hold RESET for 2 seconds in order to reset the timer to zero.

|             |      |
|-------------|------|
| DRIVE TIME  |      |
| XX:XX:XX    |      |
| NW          | 73°F |
| 000000.0 MI |      |

### Blank display

Select this function from the INFO menu to turn the upper two lines of the message center display OFF.

### Setup menu

Press the SETUP control twice for the following displays:

- System Check
- Units (English/Metric)
- Language
- Autolamp
- Autolock
- Autounlock
- Easy Entry/Exit Seat
- Park Aid (if equipped)
- Compass Zone

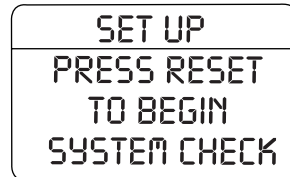
|      |       |       |
|------|-------|-------|
|      |       |       |
| INFO | SETUP | RESET |
|      |       |       |

## Driver Controls

- Compass Calibration
- Oil Life Start Value

### System check

Selecting this function from the SETUP MENU causes the message center to cycle through each of the systems being monitored. For each of the monitored systems, the message center will indicate either an OK message or a warning message for two seconds.



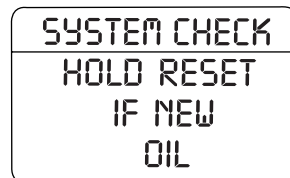
Pressing the RESET control cycles the message center through each of the systems being monitored.

The sequence of the system check report and how it appears in the message center is as follows:

1. OIL LIFE RESET
2. CHARGING SYSTEM
3. WASHER FLUID
4. DOOR AJAR
5. EXTERIOR LAMP
6. BRAKE SYSTEM
7. PARK BRAKE
8. FUEL LEVEL
9. MILES TO EMPTY

To reset the oil monitoring system to 100% after each oil change [approximately 5,000 miles (8,000 km) or 180 days] perform the following:

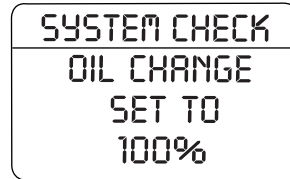
- From the SETUP MENU enter SYSTEM CHECK to display "HOLD RESET IF NEW OIL".



## Driver Controls

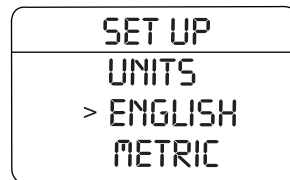
- Press and hold the RESET control for more than 2 seconds. Oil life is set to 100% and “OIL CHANGE SET TO 100%” is displayed.

**Note:** To change oil life 100% miles value from 5,000 miles (8,000 km) and 180 days to another value, refer to the *Oil Life Start Value* selected from the SETUP MENU in this section.



### Units (English/Metric)

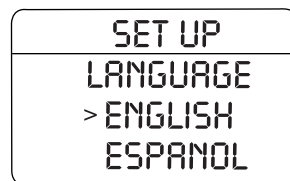
1. Select this function from the SETUP MENU for the current units to be displayed.
2. Press the RESET control to change from English to Metric.
3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.



### Language

**Note:** When entering the SETUP MENU and a non-English language has been selected, “PRESS RESET FOR ENGLISH” will be displayed to change back to English.

1. Select this function from the SETUP MENU for the current language to be displayed.
2. Press the RESET control to cycle the message center through each of the language choices to the desired language.



Selectable languages are English, Spanish, French, Japanese, or Arabic.

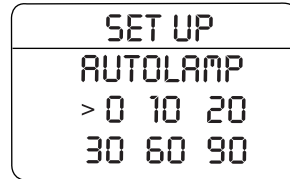
3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.

### Autolamp

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

## Driver Controls

1. To change the delay time of the autolamp feature, select this function from the SETUP MENU.
2. Press the RESET control to select the new Autolamp delay time (in seconds) value of 0, 10, 20, 30, 60, 90, 120 or 180 and wraps back to 0. Selecting 0 will result in no delay feature.



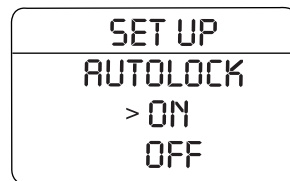
**Note:** ">" in front of a number indicates current selection.

3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.

### **Autolock**

This feature automatically locks all vehicle doors when the vehicle is shifted into any gear and when the vehicle is in motion over 13 mph (20 km/h) or higher.

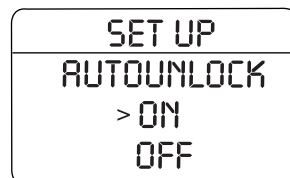
1. To disable/enable the autolock feature, select this function from the SETUP MENU.
2. Press the RESET control to turn the autolock feature ON or OFF.
3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.



### **Autounlock**

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

1. To disable/enable the autounlock feature, select this function from the SETUP MENU.
2. Press the RESET control to turn the autounlock ON or OFF.
3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.



## Driver Controls

### **Easy entry/exit seat**

This feature automatically moves the drivers seat backwards for easy exit from the vehicle.

1. To disable/enable the easy exit seat feature, select this function from the SETUP MENU.
2. Press the RESET control to turn the easy entry exit seat ON or OFF.
3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.



### **Reverse Sensing System (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.

1. To disable/enable the reverse sensing system feature with the vehicle in P (Park), select this function from the SETUP MENU or put the vehicle in R (Reverse).
2. Press the RESET control to turn the park aid ON or OFF.
3. Press the RESET control for the next SETUP MENU item or wait for more than 4 seconds to return to the INFO menu.



### **Compass display**

The compass reading may be affected when you drive near large buildings, bridges, power lines and powerful broadcast antenna. Magnetic or metallic objects placed in, on or near the vehicle may also affect compass accuracy.

Usually, when something affects the compass readings, the compass will correct itself after a few days of operating your vehicle in normal conditions. If the compass still appears to be inaccurate, a manual calibration may be necessary. Refer to *Compass zone/calibration adjustment*.

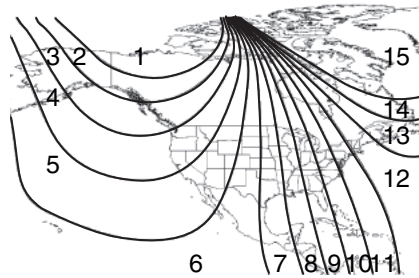
## Driver Controls

Most geographic areas (zones) have a magnetic north compass point that varies slightly from the northerly direction on maps. This variation is four degrees between adjacent zones and will become noticeable as the vehicle crosses multiple zones. A correct zone setting will eliminate this error. Refer to *Compass zone/calibration adjustment*.

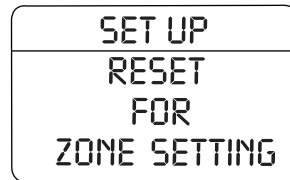
**Note:** Compass zone and calibration adjustments can be entered by using the INFO and SETUP MENU controls or using the reset button on top of the compass sensor mounted behind the mirror.

### **Compass zone adjustment**

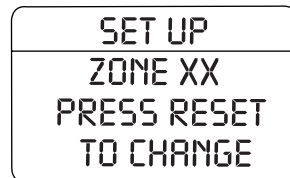
1. Determine your magnetic zone by referring to the zone map.
2. Turn ignition to the ON position.
3. Start the engine.



4. From SETUP menu, select compass zone.
5. Press RESET control until the message center display changes to show the current zone setting (XX).



6. Press the RESET control repeatedly until the correct zone setting for your geographic location is displayed on the message center. The range of zone values are from 01 to 15 and “wraps” back to 01.



## Driver Controls

7. Wait 4 seconds when correct zone is chosen.

SET UP  
ZONE XX  
IS SET

### **Compass calibration adjustment.**

Perform compass calibration in an open area free from steel structures and high voltage lines. For optimum calibration, turn off all electrical accessories (heater/air conditioning, wipers, etc.) and make sure all vehicle doors are shut.

1. From the SETUP menu, press the SETUP control to select the compass calibration function.

SET UP  
PRESS RESET  
FOR  
CALIBRATION

2. Press RESET for calibration.

3. Slowly drive the vehicle in a circle (less than 3 mph [5 km/h]) until the CIRCLE SLOWLY TO CALIBRATE display changes to CALIBRATION COMPLETE. It will take up to five circles to complete calibration.

SET UP  
CIRCLE  
SLOWLY TO  
CALIBRATE

4. The compass is now calibrated.

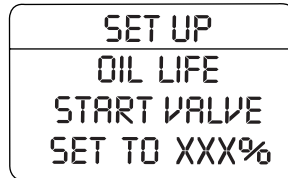
SET UP  
CALIBRATION  
COMPLETED

## Driver Controls

### **Oil life Start Value**

1. Select this function from the SETUP control for the current display mode.
2. Each press of the RESET control reduces the value by 10 percent.

**Note:** Oil Life Start Value of 100% equals 5,000 miles (8,000 km) and 180 days. Setting Oil Life Start Value to 60% sets the Oil Life Start Value to 3,000 miles (4,828 km) and 120 days.



### **System warnings**

System warnings alert you to possible problems or malfunctions in your vehicle's operating systems.

In the event of a multiple warning situation, the message center will cycle the display to show all warnings by displaying each one for 4 seconds.

The message center will display the last selected feature if there are no more warning messages. This allows you to use the full functionality of the message center after you acknowledge the warning by pressing the RESET control and clearing the warning message.

Warning messages are divided into four categories:

- They cannot be cleared until the condition is corrected.
- They will reappear on the display ten minutes from the reset if the condition has not been corrected.
- They will not reappear until an ignition OFF-ON cycle has been completed.
- They reappear if the condition clears then reoccurs within the same ignition ON-OFF cycle.

This acts as a reminder that these warning conditions still exist within the vehicle.

## Driver Controls

| Warning display              | Status                                                                                               |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Door ajar                    | Warning cannot be reset                                                                              |
| Check charging system        | Warning returns after 10 minutes                                                                     |
| Fuel level low               |                                                                                                      |
| Park brake engaged           |                                                                                                      |
| Check brake system           |                                                                                                      |
| Check park aid (if equipped) | Warning returns only after the ignition key is turned from OFF to ON.                                |
| Low tire pressure            |                                                                                                      |
| Tire monitor fault           |                                                                                                      |
| Tire sensor fault            |                                                                                                      |
| Brake fluid level low        |                                                                                                      |
| Check headlamp               |                                                                                                      |
| Check highbeam lamp          |                                                                                                      |
| Check turn lamp              |                                                                                                      |
| Washer fluid level low       |                                                                                                      |
| Oil change required          |                                                                                                      |
| Engine oil change soon       |                                                                                                      |
| Liftgate/glass ajar          |                                                                                                      |
|                              |                                                                                                      |
|                              | Warning returns after the condition has cleared then reoccurs within the same ignition ON-OFF cycle. |

**DOOR AJAR.** Displayed when a door is not completely closed.

**CHECK CHARGING SYSTEM.** Displayed when the electrical system is not maintaining proper voltage. If you are operating electrical accessories when the engine is idling at a low speed, turn off as many of the electrical loads as soon as possible. If the warning stays on or comes on when the engine is operating at normal speeds, have the electrical system checked as soon as possible.

**FUEL LEVEL LOW.** Displayed as an early reminder of a low fuel condition.

**PARK BRAKE ENGAGED.** Displayed when the manual park brake is set, the engine is running and the vehicle is driven more than 3 mph (5 km). If the warning stays on after the park brake is released, contact your authorized dealer as soon as possible.

**CHECK BRAKE SYSTEM.** Displayed when the braking system is not operating properly. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.

## Driver Controls

**CHECK PARK AID (if equipped).** Displayed when the transmission is in R (Reverse) and the Reverse Sensing System (Park Aid) is disabled. Refer to *Reverse Sensing System (Park Aid)* in this section to enable.

**LOW TIRE PRESSURE.** Displayed when one or more tires on your vehicle have low tire pressure. Refer to *Inflating Your Tires* in the *Tires, Wheels and Loading* chapter.

**TIRE MONITOR FAULT.** Displayed when the Tire Pressure Monitoring System is malfunctioning. If the warning stays on or continues to come on, have the system inspected by your authorized dealer.

**TIRE SENSOR FAULT.** Displayed when a tire pressure sensor is malfunctioning, or your spare tire is in use. For more information on how the system operates under these conditions, refer to *Understanding Your Tire Pressure Monitoring System* in the *Tires, Wheels and Loading* chapter. If the warning stays on or continues to come on, have the system inspected by your authorized dealer.

**BRAKE FLUID LEVEL LOW.** Indicates the brake fluid level is low and the brake system should be inspected immediately. Refer to *Brake fluid reservoir* in the *Maintenance and Specifications* chapter.

**CHECK HEADLAMP.** Displayed when the headlamps are activated and at least one bulb is burned out. Check the lamps as soon as possible and have the burned out lamp replaced. Refer to *Replacing headlamp bulbs* in the *Lights* chapter.

**CHECK HIGHBEAM LAMP.** Displayed when the highbeam lamps are activated and at least one bulb is burned out. Check the lamps as soon as possible and have the burned out lamp replaced. Refer to *Replacing headlamp bulbs* in the *Lights* chapter.

**CHECK TURN LAMP.** Displayed when the turn lamps are activated and at least one bulb is burned out. Check the lamps as soon as possible and have the burned out lamp replaced. Refer to *Replacing headlamp bulbs* in the *Lights* chapter.

**WASHER FLUID LEVEL LOW.** Indicates the washer fluid reservoir is less than one quarter full. Check the washer fluid level. Refer to *Windshield washer fluid* in the *Maintenance and Specifications* chapter.

**OIL CHANGE REQUIRED.** Displayed when the engine oil life remaining is 0%.

An oil change is required whenever indicated by the message center and according to the recommended maintenance schedule. **USE ONLY RECOMMENDED ENGINE OILS.**

## Driver Controls

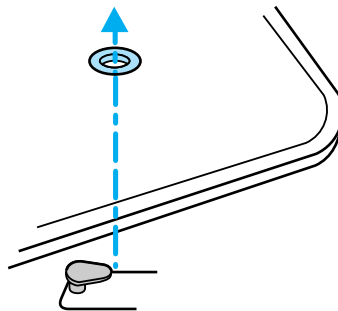
**ENGINE OIL CHANGE SOON.** Displayed when the engine oil life reaches 5% or less of the Oil Life Start Value.

**LIFTGATE/GLASS AJAR.** Displayed when the liftgate or the liftgate glass is not completely closed.

### POSITIVE RETENTION FLOOR MAT

 Do not install additional floor mats on top of the factory installed floor mats as they may interfere with the accelerator or the brake pedals.

Position the driver floor mat so that the eyelet is over the pointed end of the retention post and rotate forward to lock in. Make sure that the mat does not interfere with the operation of the accelerator or the brake pedal. To remove the floor mat, reverse the installation procedure.



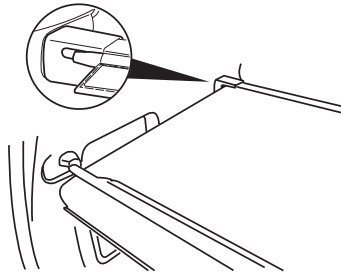
### CARGO COVER (IF EQUIPPED)

Your vehicle may be equipped with a cargo area cover that covers the luggage compartment of your vehicle.

To install the cover:

Push both ends of the cover into the depressions (right side first) in the trim panels behind the second row seat.

 To reduce the risk of injuries, the cargo area cover must be properly installed on the rear trim panels.



## Driver Controls



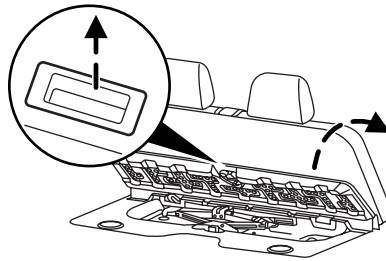
Do not place any objects on the cargo area cover. They may obstruct your vision or strike occupants of the vehicle in the case of a sudden stop or collision.

### Cargo management system

The cargo management system consists of storage compartments located in the floor of the rear cargo area.

#### 7 passenger stowage:

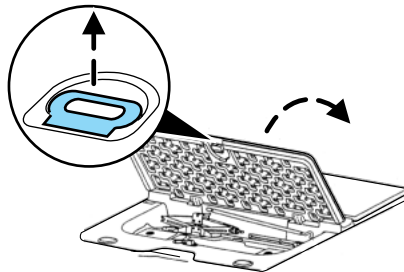
1. To open, lift up on handle and the lid.
2. To close, lower and press the lid down.



#### 5 passenger stowage:

When the lid is open, it will stand up on its own.

1. To open, lift the release handle and the lid.
2. To close, lower the lid, lift the release handle and press down on the lid.

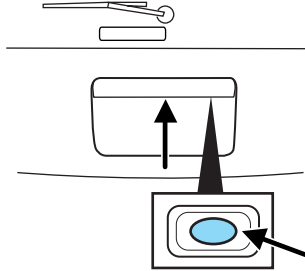


### REAR LIFTGATE

The liftgate area is only intended for cargo, not passengers. You can open and close the liftgate from outside the vehicle. It cannot be opened from inside the cargo area.

## Driver Controls

- To open the liftgate window, press the control on the remote entry transmitter or, with the liftgate unlocked, push the control button on the **right side** under the license plate lamp shield.
- To open the liftgate, unlock the liftgate (with the power door locks, the remote entry or the keyless entry pad) and pull the **middle** lever under the license plate lamp shield.



To lock the liftgate and the liftgate window, use the power door locks or press the door lock switch on the left side of the cargo area.

The liftgate door and window should be closed before driving. If not, possible damage may occur to your vehicle.



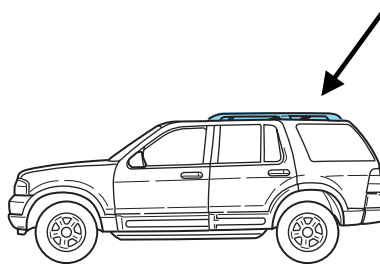
Always close liftgate window before opening liftgate. Liftgate glass and liftgate should never be open at the same time. Failure to observe this warning may result in personal injury or damage to your vehicle.



Make sure the liftgate door and/or window are closed to prevent exhaust fumes from being drawn into the vehicle. This will also reduce the risk of passengers and cargo falling out.

## LUGGAGE RACK

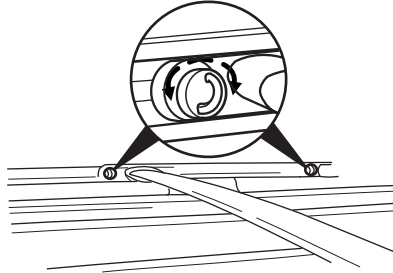
Your vehicle is equipped with a roof rack. The maximum recommended load is 100 lbs (45 kg), evenly distributed. Use the tie down loops on the thumbwheels (if equipped) to secure the load.



## Driver Controls

To adjust cross-bar position (if equipped):

1. Loosen the thumbwheel at both ends of the cross-bar (both cross-bars are adjustable).
2. Slide the cross-bar to the desired location.
3. Tighten the thumbwheel at both ends of the cross-bar.



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 sport 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 increase risk of loss of vehicle control, vehicle rollover, personal injury and death.



## Locks and Security

### KEYS

One key operates all the locks and starts the vehicle. Always carry a spare key with you in case of an emergency.

Your keys are programmed to your vehicle; using a non-programmed key will not permit your vehicle to start. If you lose your authorized dealer supplied keys, replacement keys are available through your authorized dealer. Refer to the *SecuriLock<sup>®</sup> passive anti-theft system* section later in this chapter for more information.

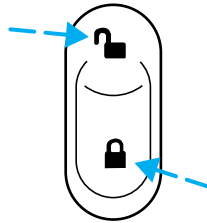
### POWER DOOR LOCKS

Press control to unlock or lock all doors.



### Auxiliary power door lock control

An additional power door lock control can be accessed by opening the liftgate. The power door lock control is located at the inside base of the driver's rear quarter panel, near the cargo floor (5 passenger) or atop the driver's side rear quarter trim panel (7 passenger), below the rear window. Press this control to lock or unlock all the vehicle's doors.



### Smart unlocking feature

The smart unlocking feature helps prevent you from locking yourself out of the vehicle. With the key in any ignition position, the driver's door will automatically unlock if it is locked using the lock control on the driver's door panel while the driver's door is open.

## Locks and Security

### Power door lock/unlock inhibit feature (if equipped)

If the key is not in the ignition, all doors are closed, and the vehicle has been locked using the remote entry transmitter, keypad (if equipped) or the power door unlock control on the door panel while a front door is open (then subsequently closed), the power door unlock control on the door panel will become disabled 20 seconds after the lock event occurred. Your vehicle comes with this feature enabled, but there are two methods to disable it:

- Through your authorized dealer, or
- Performing the following power door lock control procedure.

Before following the activation or deactivation procedures, make sure that the anti-theft system is not armed, ignition is in the 1 (OFF/LOCK) position, and all vehicle doors, liftgate and liftgate window are closed.

You must complete Steps 1-5 within 30 seconds or the procedure will have to be repeated. If the procedure needs to be repeated, you must wait 30 seconds. **Note: All** doors must be closed and remain closed throughout the configuration process.

1. Place the key in the ignition and turn the ignition to the 3 (ON) position.
2. Press the power door unlock control on the door panel three times.
3. Turn the ignition from the 3 (ON) position to the 1 (OFF/LOCK) position.
4. Press the power door unlock control on the door panel three times.
5. Turn the ignition back to the 3 (ON) position. The horn will chirp one time to confirm programming mode has been entered and is active.
6. Press the power door lock control on the door panel two times within five seconds. The horn will chirp once if trim switch inhibit was deactivated or twice (one short and one long chirp) if trim switch inhibit was activated.
7. Turn the ignition to the 1 (OFF/LOCK) position. The horn will chirp once to confirm the procedure is complete.

## Locks and Security

### CHILDPROOF DOOR LOCKS

- When these locks are set, the rear doors cannot be opened from the inside.
- The rear doors can be opened from the outside when the doors are unlocked.

The childproof locks are located on rear edge of each rear door and must be set separately for each door. Setting the lock for one door will not automatically set the lock for both doors.



- Move lock control up to engage the childproof lock.
- Move control down to disengage childproof locks.

### REMOTE ENTRY SYSTEM

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.

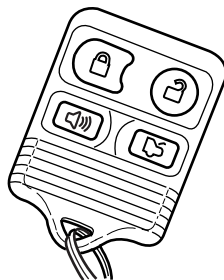
**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

The typical operating range for your remote entry transmitter is approximately 33 feet (10 meters). A decrease in operating range could be caused by:

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

## Locks and Security

The remote entry system allows you to lock or unlock all vehicle doors and liftgate, open the liftgate window without a key and activate the panic alarm.



The remote entry lock/unlock feature operates in any ignition position. The liftgate glass feature operates as long as the vehicle's speed is less than 3 mph (5 km/h). The panic feature operates with the key in the 1 (OFF/LOCK) position.

If there is any potential remote keyless entry problem with your vehicle, ensure **ALL** remote entry transmitters are brought to the authorized dealer to aid in troubleshooting.

### Two step door unlocking

1. Press  and release to unlock the driver's door. **Note:** The interior lamps will illuminate if the control on the overhead lamp is **not** set to the **off** position and the perimeter alarm system (if equipped) will deactivate.
2. Press  and release again within three seconds to unlock the passenger doors, the liftgate and liftgate glass.

The battery saver feature will turn off the interior lamps 30 minutes after the ignition is turned to the 1 (OFF/LOCK) position.

### One step door unlocking

If the one step door unlocking feature is activated, press  and release once to unlock all of the doors, the liftgate and liftgate glass. **Note:** The interior lamps will illuminate (refer to the *Illuminated entry* feature later in this section), if the control on the overhead lamp is **not** set to the **off** position and the perimeter alarm system (if equipped) will deactivate.

## Locks and Security

### **Switching from two step to one step door unlocking**

Your vehicle comes with two step unlocking enabled. Unlocking can be switched between two step and one step door unlocking by pressing and holding both the  and  buttons simultaneously on the remote entry transmitter for approximately 4 seconds. The parklamps will flash twice to indicate that the vehicle has switched to one step unlocking. Repeat the procedure to switch back to two-step unlocking.

### **Locking the doors/liftgate**

1. Press  and release to lock all the doors and liftgate. The lamps will flash. **Note:** If any door, the liftgate or the liftgate glass are not closed properly, the lamps will not flash.
2. Press  and release again within three seconds to confirm that all the doors are closed and locked. **Note:** The doors will lock again, the horn will chirp and the lamps flash once.

**Note:** If any door, the liftgate or the liftgate glass are not closed properly, the horn will make two quick chirps.

### **Opening the liftgate window**

Press  to unlatch the liftgate window.

### **Sounding a panic alarm**

Press  to activate the alarm. The horn will sound and the parklamps will flash for a maximum of 3 minutes. Press again or turn the ignition to the 3 (ON) position to deactivate, or wait for the alarm to timeout in 3 minutes.

**Note:** The panic alarm will only operate when the ignition is in the 1 (OFF/LOCK) or 2 (ACC) position.

### **Memory seats/adjustable pedals/easy entry-exit feature (if equipped)**

The remote entry system can also control the memory seat /adjustable pedals/easy entry-exit feature.

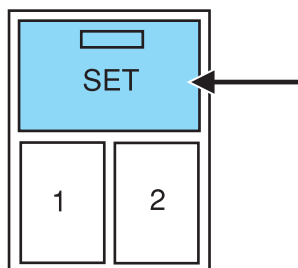
Press  to automatically move the seat and adjustable pedals to the desired memory position (the seat position corresponds to the transmitter being used).

## Locks and Security

### **Activating the memory seat feature**

To activate this feature:

1. Position the seat and adjustable pedals to the position desired.
2. Press the SET control on the lower-center portion of the instrument panel.
3. Within 5 five seconds, press one control on the remote transmitter and then press the 1 or 2 control on the lower-center portion of the instrument panel which you would like to associate with the seat and Driver 1 or Driver 2 positions.
4. Repeat this procedure for another remote transmitter if desired.



### **Deactivating the memory seat feature**

To deactivate this feature:

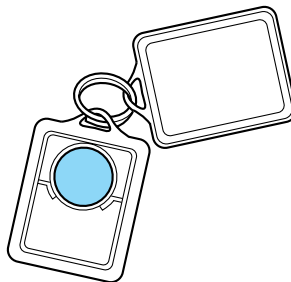
1. Press the SET control on the driver's door panel.
2. Within 5 five seconds, press any control on the remote transmitter which you would like to deactivate and then press the SET control on the lower-center portion of the instrument panel.
3. Repeat this procedure for another remote transmitter if desired.

### **Replacing the battery**

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

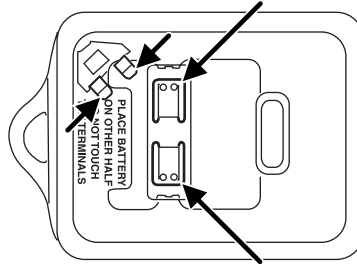
To replace the battery:

1. Twist a thin coin between the two halves of the remote entry transmitter near the key ring. DO NOT TAKE THE RUBBER COVER AND CIRCUIT BOARD OFF THE FRONT HOUSING OF THE REMOTE ENTRY TRANSMITTER.



## Locks and Security

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



3. Remove the old battery. **Note:** Please refer to local regulations when disposing of transmitter batteries.

4. Insert the new battery. Refer to the diagram inside the remote entry transmitter for the correct orientation of the battery. Press the battery down to ensure that the battery is fully seated in the battery housing cavity.

5. Snap the two halves back together.

**Note:** Replacement of the battery will **not** cause the remote transmitter to become deprogrammed from your vehicle. The remote transmitter should operate normally after battery replacement.

### Replacing lost remote entry transmitters

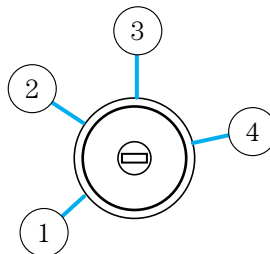
If you would like to have your remote entry transmitter reprogrammed because you lost one, or would like to buy additional remote entry transmitters, you can either reprogram them yourself, or take **all remote entry transmitters** to your authorized dealer for reprogramming.

### How to reprogram your remote entry transmitters

You must have **all remote entry transmitters** (maximum of six) available before beginning this procedure. If all remote entry transmitters are not present during the programming procedure, the transmitters that are not present during programming will no longer operate the vehicle.

## Locks and Security

To reprogram the remote entry transmitters:



1. Ensure the vehicle is electronically unlocked.
2. Put the key in the ignition.
3. Turn the key from the 1 (OFF/LOCK) position to 3 (ON).
4. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON). **Note:** The eighth turn must end in the 3 (ON) position.
5. The doors will lock, then unlock, to confirm that the programming mode has been activated.
6. Within 20 seconds press any button on the remote entry transmitter. **Note:** If more than 20 seconds have passed you will need to start the procedure over again.
7. The doors will lock, then unlock, to confirm that this remote entry transmitter has been programmed.
8. Repeat Step 6 to program each additional remote entry transmitter.
9. Turn the ignition to the 1 (OFF/LOCK) position after you have finished programming all of the remote entry transmitters.
10. The doors will lock, then unlock, to confirm that the programming mode has been exited.

### Illuminated entry

The interior lamps illuminate when the remote entry system is used to unlock the door(s) or sound the personal alarm.

The illuminated entry system will turn off the interior lights if:

- the ignition is turned to the 2 (ACC) or 3 (ON) position, or
- the remote transmitter lock control is pressed, or
- after 25 seconds of illumination.

The dome lamp control (if equipped) must **not** be set to the **off** position for the illuminated entry system to operate.

## Locks and Security

The inside lights will not turn off if:

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

The battery saver will shut off the interior lamps 10 minutes after the ignition has been turned to the 1 (OFF/LOCK) position.

### KEYLESS ENTRY SYSTEM (IF EQUIPPED)

You can use the keyless entry keypad to:

- lock or unlock the doors without using a key.
- open the liftgate window.
- activate or deactivate the autolock feature.

The keypad can be operated with the factory set 5-digit entry code; this code is located on the owner's wallet card in the glove box, is marked on the computer module, and is available from your authorized dealer. You can also create your own 5-digit personal entry code. In the event the wallet card is lost, the factory set code cannot be reprogrammed.



When pressing the controls on the keypad, press the middle of the controls to ensure a good activation.

### Programming a personal entry code

Up to three personal entry codes may be programmed to the vehicle. To create your own personal entry code:

1. Enter the factory set code.
2. Within five seconds press the 1 • 2 on the keypad.
3. Enter your personal 5-digit code. Each number must be entered within five seconds of each other.
4. Press 1 • 2, 3 • 4 or 5 • 6 to indicate which of the three personal entry code positions you wish to use.
5. The doors will again lock then unlock to confirm that your personal key code has been programmed to the module.

112

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Locks and Security

### 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.
- If you program a code to a position that already contains a set code, the previously-set code will be erased.

### Erasing personal code

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

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

### Anti-scan feature

If the wrong code has been entered 7 times (35 consecutive button presses), the keypad will go into an anti-scan mode. 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  control on the remote entry transmitter.
- the ignition is turned to the 3 (ON) position.

### Unlocking and locking the doors, liftgate and liftgate window using keyless entry

**To unlock the driver's door**, enter the factory set 5-digit code or one of the vehicle's personal codes. Each number must be pressed within five seconds of each other. The interior lamps will illuminate.

**To unlock all doors and liftgate**, press the 3 • 4 control within five seconds.

**To open the liftgate window**, press the 5 • 6 control within five seconds.

**To lock all doors, liftgate and liftgate window**, press the 7 • 8 and the 9 • 0 at the same time. **Note:** The driver's door must be closed. You **do not** need to enter the keypad code first.

## Locks and Security

### Autolock

The autolock feature will lock all the doors, liftgate and liftgate window when:

- all doors are closed,
- the ignition is in the 3 (ON) position,
- you shift into any gear putting the vehicle in motion, and
- the vehicle attains a speed greater than 12 mph (20 km/h).

The autolock feature repeats when:

- any door is opened then closed while the ignition is in the 3 (ON) position and the vehicle speed is 9 mph (15 km/h) or lower, and
- the vehicle attains a speed greater than 12 mph (20 km/h).

### Deactivating/activating autolock

Your vehicle comes with the autolock feature enabled. There are four methods to enable/disable this feature:

- Through your authorized dealer, or
- Performing the power door lock control procedure, or
- Performing the keyless entry key pad (if equipped) procedure, or
- Performing the message center (if equipped) procedure.

**Note:** The autolock feature can be activated/deactivated independently of the autounlock feature.

Before following the activation or deactivation procedures, make sure that the anti-theft system is not armed, ignition is in the 1 (OFF/LOCK) position, and all vehicle doors, liftgate and liftgate window are closed.

### Power door unlock/lock procedure

You must complete Steps 1-5 within 30 seconds or the procedure will have to be repeated. If the procedure needs to be repeated, you must wait 30 seconds. **Note:**

**All** doors must be closed and remain closed throughout the configuration process.



1. Turn the ignition to the 3 (ON) position.
2. Press the power door unlock control three times.
3. Turn the ignition from the 3 (ON) to the 1 (OFF/LOCK) position.

## Locks and Security

4. Press the power door unlock control three times.
5. Turn the ignition back to the 3 (ON) position. The horn will chirp.
6. Press the unlock control, then press the lock control. The horn will chirp once if autolock was deactivated or twice (one short and one long chirp) if autolock was activated.
7. Turn the ignition to the 1 (OFF/LOCK) position. The horn will chirp once to confirm the procedure is complete.

### **Keyless entry key pad procedure**

1. Turn the ignition to the 1 (OFF/LOCK) position.
2. Close all doors, the liftgate and liftgate window.
3. Enter 5-digit entry code
4. Press and hold the 3 • 4. While holding the 3 • 4 press the 7 • 8.
5. Release the 7 • 8.
6. Release the 3 • 4.

The user should receive a horn chirp to indicate the system has been disabled or a chirp followed by a honk to indicate the system has been enabled.

### **Message center procedure**

For information on activating/deactivating the autolock feature using the vehicle's message center (if equipped), refer to *Message center* information in the *Driver Controls* chapter.

### **Autounlock**

The autounlock feature will unlock all the doors when:

- the ignition is in the 3 (ON) position, all the doors are closed, and the vehicle has been in motion at a speed greater than 12 mph (20 km/h);
- the vehicle has then come to a stop and the ignition is turned to the 1 (OFF/LOCK) or 2 (ACC) position; and
- the driver door is opened within 10 minutes of the ignition being transitioned to the 1 (OFF/LOCK) or 2 (ACC) position.

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

### **Deactivating/activating autounlock**

Your vehicle comes with the autounlock feature activated. There are four methods to enable/disable this feature:

## Locks and Security

- Through your authorized dealer, or
- Performing the power door lock control procedure, or
- Performing the keyless entry key pad (if equipped) procedure, or
- Performing the message center (if equipped) procedure.

Before following the activation or deactivation procedures, make sure that the anti-theft system is not armed, ignition is in the 1 (OFF/LOCK) position, and all vehicle doors, liftgate and liftgate window are closed.

### **Power door unlock/lock procedure**

You must complete Steps 1-5 within 30 seconds or the procedure will have to be repeated. If the procedure needs to be repeated, you must wait 30 seconds. **Note:**

**All** doors must be closed and remain closed throughout the configuration process.



1. Turn the ignition to the 3 (ON) position.
2. Press the power door unlock control three times.
3. Turn the ignition from the 3 (ON) to the 1 (OFF/LOCK) position.
4. Press the power door unlock control three times.
5. Turn the ignition back to the 3 (ON) position. The horn will chirp.
6. Press the lock control, then press the unlock control. The horn will chirp once if autounlock was deactivated or twice (one short and one long chirp) if autounlock was activated.
7. Turn the ignition to the 1 (OFF/LOCK) position. The horn will chirp once to confirm the procedure is complete.

### **Keyless entry key pad procedure**

1. Turn the ignition to the 1 (OFF/LOCK) position.
2. Close all doors, the liftgate and liftgate window.
3. Enter 5-digit entry code
4. Press and hold the 3 • 4. While holding the 3 • 4 press the 7 • 8 **twice**.
5. Release the 7 • 8.
6. Release the 3 • 4.

The user should receive a horn chirp to indicate the system has been disabled or a chirp followed by a honk to indicate the system has been enabled.

## Locks and Security

### **Message center procedure**

For information on activating/deactivating the autounlock feature using the vehicle's message center (if equipped), refer to *Message center* information in the *Driver Controls* chapter.

### **SECURILOCK™ PASSIVE ANTI-THEFT SYSTEM**

SecuriLock™ passive anti-theft system is an engine immobilization system. This system is designed to help prevent the engine from being started unless a **coded key programmed to your vehicle** is used. The use of the wrong type of coded key may lead to a “no-start” condition.

Your vehicle comes with two coded keys; additional coded keys may be purchased from your authorized dealer. The authorized dealer can program your spare keys to your vehicle or you can program the keys yourself. Refer to *Programming spare keys* for instructions on how to program the coded key.

**Note:** The SecuriLock™ passive anti-theft 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:** Large metallic objects, electronic devices that are used to purchase gasoline or similar items, or a second coded key on the same key chain may cause vehicle starting issues. You need to prevent these objects from touching the coded key while starting the engine. These objects will not cause damage to the coded key, but may cause a momentary issue if they are too close to the key when starting the engine. If a problem occurs, turn the ignition off, remove all objects on the key chain away from the coded key and restart the engine.

### **Anti-theft indicator**

The anti-theft indicator is located on top of the instrument panel.

- When the ignition is in the 1 (OFF/LOCK) position, the indicator will flash once every 2 seconds to indicate the SecuriLock™ system is functioning as a theft deterrent.
- When the ignition is in the 3 (ON) position, the indicator will glow for 3 seconds to indicate normal system functionality.

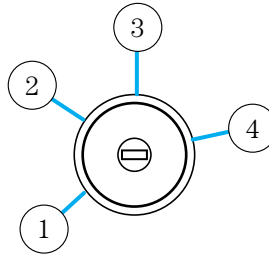
If a problem occurs with the SecuriLock™ system, the indicator will flash rapidly or glow steadily when the ignition is in the 3 (ON) position. If this occurs, the vehicle should be taken to an authorized dealer for service.

## Locks and Security

### Automatic arming

The vehicle is armed immediately after switching the ignition to the 2 (ACCESSORY) position.

The theft indicator will flash every two seconds when the vehicle is armed.



### Automatic disarming

Switching the ignition to the 3 (ON) position with a **coded key** disarms the vehicle.

- The theft indicator will illuminate for three seconds and then go out.
- If the theft indicator stays on for an extended period of time or flashes rapidly, have the system serviced by your authorized dealer.

### Replacement keys

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

Replacing coded keys can be very costly. Store an extra programmed key away from the vehicle in a safe place to help prevent any inconveniences. Please visit an authorized dealer to purchase additional spare or replacement keys.

### Programming spare keys

You can program your own coded keys to your vehicle.

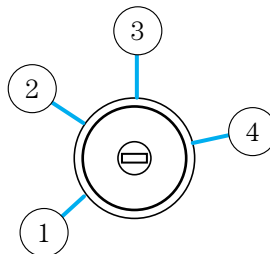
#### Tips:

- A maximum of eight keys can be coded to your vehicle.
- Only use SecuriLock<sup>™</sup> keys.
- You must have two previously programmed coded keys (keys that already operate your vehicle's engine) and the new unprogrammed key(s) readily accessible.
- If two previously programmed coded keys are not available, you must take your vehicle to your authorized dealer to have the spare key(s) programmed.

## Locks and Security

Please read and understand the entire procedure before you begin.

1. Insert the first previously programmed **coded key** into the ignition.



2. Turn the ignition from the 1 (OFF/LOCK) position to the 3 (ON) position. Keep the ignition in the 3 (ON) position for at least three seconds, but no more than 10 seconds.

3. Turn the ignition to the 1 (OFF/LOCK) position and remove the first **coded key** from the ignition.

4. Within ten seconds of turning the ignition to the 1 (OFF/LOCK) position, insert the second previously **coded key** into the ignition.

5. Turn the ignition from the 1 (OFF/LOCK) position to the 3 (ON) position. Keep the ignition in the 3 (ON) position for at least three seconds, but no more than 10 seconds.

6. Turn the ignition to the 1 (OFF/LOCK) position and remove the second previously programmed **coded key** from the ignition.

7. Within twenty seconds of turning the ignition to the 1 (OFF/LOCK) position and removing the previously programmed **coded key**, insert the new unprogrammed key (new key/valet key) into the ignition.

8. Turn the ignition from the 1 (OFF/LOCK) position to the 3 (ON) position. Keep the ignition in the 3 (ON) position for at least three seconds but not more than 10 seconds.

9. Remove the newly programmed **coded key** from the ignition.

If the key has been successfully programmed it will start the vehicle's engine and the theft indicator light will illuminate for three seconds and then go out.

If the key was not successfully programmed, it will not start your vehicle's engine and the theft indicator light will flash on and off, and you may repeat Steps 1 through 5. If failure repeats, bring your vehicle to your authorized dealer to have the new key(s) programmed.

To program additional new unprogrammed key(s), wait twenty seconds and then repeat this procedure from Step 1.

## Seating and Safety Restraints

### SEATING

#### Notes:



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



Do not pile cargo higher than the seatbacks to reduce the risk of injury in a collision or sudden stop.

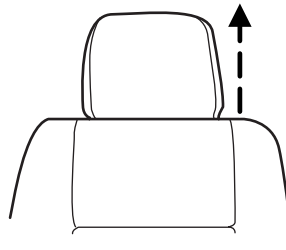


Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of a sudden stop or collision.

### Adjustable head restraints

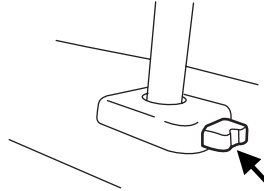
Head restraints help to limit head motion in the event of a rear collision. The seats in your vehicle have adjustable head restraints. Adjust your head restraint so that it is located directly or as close as possible behind your head.

The head restraints can be moved up and down (on first row seats only).



## Seating and Safety Restraints

Push control to lower head restraint.



### Adjusting the front manual seat (if equipped)

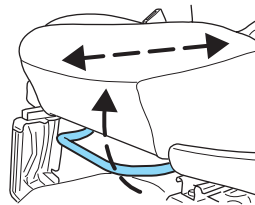


Never adjust the driver's seat or seatback when the vehicle is moving.



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

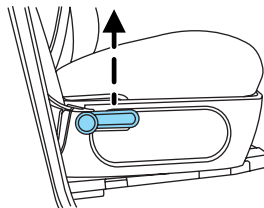
Lift handle to move seat forward or backward.



Pull lever up to adjust seatback.



Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of a sudden stop or collision.



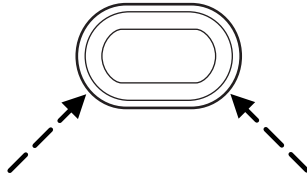
## Seating and Safety Restraints

### Using the power lumbar support (if equipped)

The power lumbar control is located on the outboard side of the seat.

Press one side of the control to adjust firmness.

Press the other side of the control to adjust softness.



### Adjusting the front power seat (if equipped)



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



Do not pile cargo higher than the seatbacks to avoid injuring people in a collision or sudden stop.



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



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



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

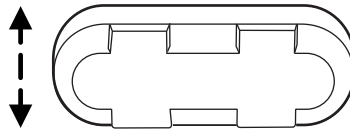


## Seating and Safety Restraints

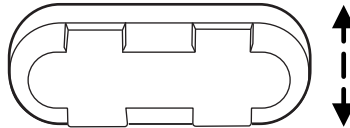
 To reduce the risk of possible serious injury: Do not hang objects off seat back or stow objects in the seatback map pocket (if equipped) when a child is in the front passenger seat. Do not place objects underneath the front passenger seat or between the seat and the center console (if equipped). Check the “passenger airbag off” or “pass airbag off” indicator lamp for proper airbag status. Refer to *Front passenger sensing system* section for additional details. Failure to follow these instructions may interfere with the front passenger seat sensing system.

The control is located on the outboard side of the seat cushion.

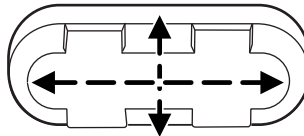
Press front to raise or lower the front portion of the seat cushion.



Press rear to raise or lower the rear portion of the seat cushion.

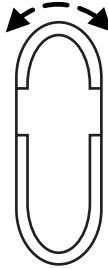


Press the control to move the seat forward, backward, up or down.



## Seating and Safety Restraints

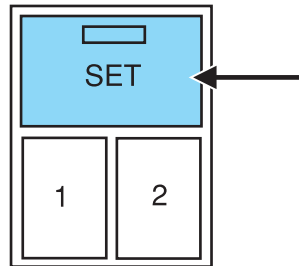
Press the control to recline the seatback forward or rearward.



### Memory seats and adjustable pedals (if equipped)

This system allows automatic positioning of the driver seat and adjustable pedals to two programmable positions.

The memory seat control is located on the lower-center portion of the instrument panel.



- To program position 1, move the driver seat and pedals (if equipped) to the desired position using the associated controls. Press the SET control. The SET control indicator light will briefly illuminate. While the light is illuminated, press control 1.
- To program position 2, repeat the previous procedure using control 2.

A position can be recalled:

- in any gearshift position if the ignition is **not** in the RUN position.
- only in Park or Neutral if the ignition is in the RUN position.

A memory seat position may be programmed at any time.

The memory positions are also recalled when you press your remote entry transmitter UNLOCK control if the transmitter is programmed to a memory position or when you enter a valid personal entry code that is programmed to a memory position.

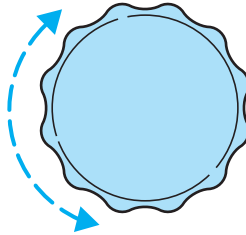
To program the memory feature to a remote entry transmitter and for more information on how to use the keypad, refer to *Remote entry system* and *Keyless entry system* in the *Locks and Security* chapter.

## Seating and Safety Restraints

### Using the manual lumbar support (if equipped)

For more lumbar support, turn the lumbar support control toward the front of vehicle.

For less lumbar support, turn the lumbar support control toward the rear of vehicle.

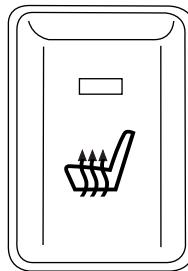


### Heated seats (if equipped)

The heated seat control is located in the lower center of the instrument panel.

To operate the heated seats:

- Push control to activate.
- Push again to deactivate.



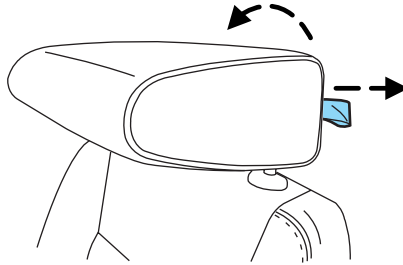
## REAR SEATS

### Folding down the 2nd row 60/40 seats and bucket seats

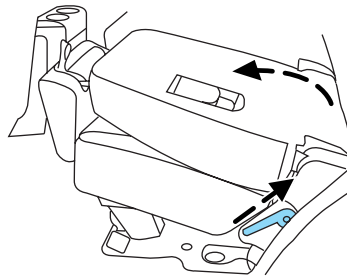
Ensure that the head restraint is in the down position and no objects such as books, purses or briefcases are on the floor in front of the second row seats before folding them down.

## Seating and Safety Restraints

1. Lower the head restraints by pulling on the strap.

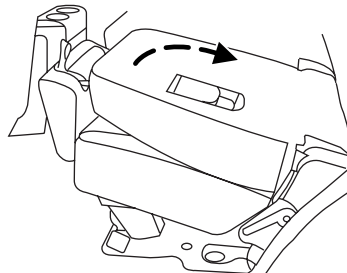


2. Locate handle on the side of the seat cushion by the door.
3. Pull up on the handle and push the seatback forward toward the front of the vehicle.



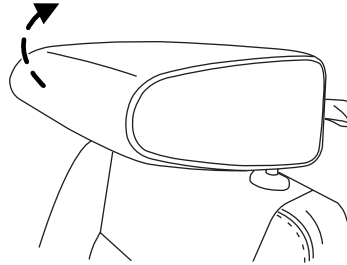
To return the seat to the upright position:

1. Lift the seatback toward the rear of the vehicle.
2. Rotate the seatback until you hear a click, locking it in the upright position.



## Seating and Safety Restraints

3. Lift up on the head restraint until it locks into its original position.



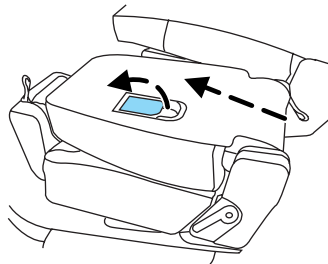
Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of a sudden stop or collision.

### Placing the 2nd row 60/40 seats in cargo mode (if equipped)

The 2nd row seats can be placed in a kneel down load floor position to allow more cargo space.

To place the seats in the cargo mode:

1. Fold down the 2nd row seat.
2. Pull the cargo mode lever up to release the seat into a kneel down load floor position. A moderate force may be required to move the seat forward and down.

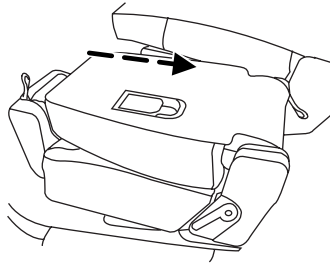


## Seating and Safety Restraints

### Returning to the upright position from full lowered load floor position

The seatback cannot be returned to the upright position until the seat is returned from the kneel down position. To return the seat to the upright position:

1. Push the seat rearward until the latch is engaged.
2. Return the seatback to the upright position.

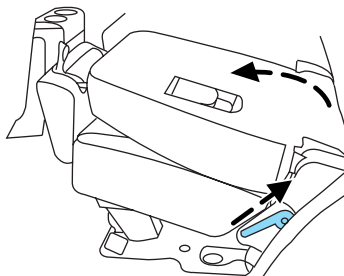


### Adjusting the 2nd row seat for E-Z Entry

The E-Z entry seat allows for easier entry and exit to and from the 3rd row seat.

To enter the 3rd row seat:

1. Fold down the 2nd row seat and release the handle.
2. Pull the handle up again until the seat releases from the floor.
3. Push the seat upward and fold it away from the third row.



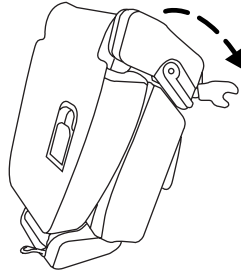
Always return the seat to the fully latched position before operating the vehicle.



## Seating and Safety Restraints

To return the seat to a seating position:

1. Push the seat down and latch to the floor with a moderate amount of effort and speed.
2. Make sure the seat is latched to the floor.
3. Bring the seat back to an upright position. The seatback should lock into position.



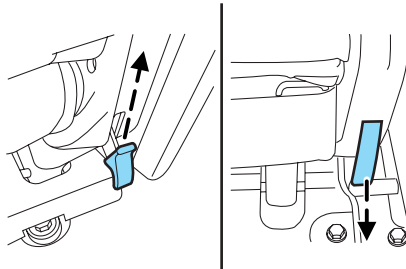
**Note:** If the seat back will not return to the upright position, tumble the seat again and re-latch it to the floor. Be sure that cargo or other objects are not trapped underneath the seatback.



Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of a sudden stop or collision.

### Exiting the 3rd row

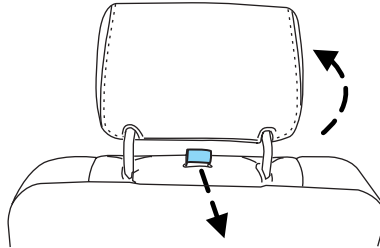
1. Pull on the lever/strap (as equipped) located at the bottom right of the seat back to release the seat from the floor, and rotate the seat up towards the front seat.
2. Follow the directions above to return the seatback from the load floor and to the upright position.



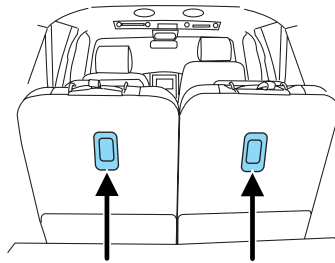
## Seating and Safety Restraints

### 3rd row folding seat (if equipped)

Before folding the third row seats, fold the head restraints down by pulling on the strap located under the restraint.



Pull up on the handle located behind the seatback while pushing the seatback forward and down into the seat cushion.



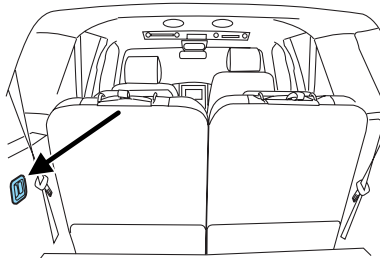
Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of a sudden stop or collision.

### 3rd row power folding seat (if equipped)

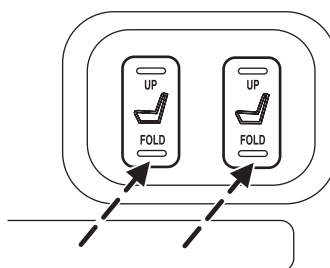
**Note:** Be sure that head restraints are folded down before powering the 3rd row seat down.

## Seating and Safety Restraints

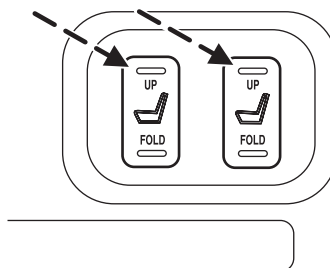
The control buttons are located on the driver-side rear quarter trim panel (accessible from the liftgate area).



Push the bottom portion of the control button to lower the desired seatback.



Push the top of the control button to return the seatback to its original position.



**The power fold down seats will operate for 30 minutes after the ignition switch is in the 1 (OFF/Lock) position. The transmission must be in P (Park), and the liftgate, or liftgate glass must be open. Similar to the Battery Saver feature, the power 3rd row seat will be disabled 30 minutes after turning the vehicle off. If the power 3rd row seat is disabled after 30 minutes, the seat can be enabled by opening any door, pressing the unlock control on the remote entry transmitter, pressing any keyless keypad button (if equipped), or turning the ignition key.**

## Seating and Safety Restraints



Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of a sudden stop or collision.

### SAFETY RESTRAINTS

#### Personal Safety System™

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

Your vehicle's Personal Safety System™ consists of:

- Driver and passenger dual-stage airbag supplemental restraints.
- Front safety belts with pretensioners, energy management retractors, and safety belt usage sensors.
- Driver's seat position sensor.
- Front passenger sensing system
- "Passenger airbag off" or "pass airbag off" indicator lamp
- Front crash severity sensor.
- Restraints Control Module (RCM).
- Restraint system warning light and back-up 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 (RCM). During a crash, the RCM activates the safety belt pretensioners and/or either one or both stages of the dual-stage airbag supplemental restraints based on crash severity and occupant conditions.

## Seating and Safety Restraints

The fact that the pretensioners or airbags did not activate for both front seat occupants in a collision does not mean that something is wrong with the system. Rather, it means the Personal Safety System<sup>™</sup> determined the accident conditions (crash severity, belt usage, etc.) were not appropriate to activate these safety devices. Front airbags are designed to activate only in frontal and near-frontal collisions, not rollovers, side-impacts, or rear-impacts unless the collision causes sufficient longitudinal deceleration.

### ***Driver and passenger dual-stage airbag supplemental restraints***

The dual-stage airbags offer the capability to tailor the level of airbag inflation energy. A lower, less forceful energy level is provided for more common, moderate-severity impacts. A higher energy level is used for the most severe impacts. Refer to *Airbag supplemental restraints* section in this chapter.

### ***Front crash severity sensor***

The front crash severity sensor enhances the ability to detect the severity of an impact. Positioned up front, it provides valuable information early in the crash event on the severity of the impact. This allows your Personal Safety System<sup>™</sup> to distinguish between different levels of crash severity and modify the deployment strategy of the dual-stage airbags and safety belt pretensioners.

### ***Driver's seat position sensor***

The driver's seat position sensor allows your Personal Safety System<sup>™</sup> to tailor the deployment level of the driver dual-stage airbag based on seat position. The system is designed to help protect smaller drivers sitting close to the driver airbag by providing a lower airbag output level.

### ***Front passenger sensing system***

For airbags to do their job they must inflate with great force, and this force can pose a potentially deadly risk to occupants that are very close to the airbag when it begins to inflate. For some occupants, this occurs because they are initially sitting very close to the airbag. For other occupants, this occurs when the occupant is not properly restrained by safety belts or child safety seats and they move forward during pre-crash braking. The most effective way to reduce the risk of unnecessary injuries is to make sure all occupants are properly restrained. Accident statistics suggest that children are much safer when properly restrained in the rear seating positions than in the front.

## Seating and Safety Restraints



Air bags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active air bag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.



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

The front passenger sensing system can automatically turn off the front passenger airbag and passenger seat-mounted side airbag. The system is designed to help protect small (child size) occupants from frontal airbag deployments when they are seated or restrained in the front passenger seat contrary to proper child-seating or restraint usage recommendations. 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 passenger seat-mounted side airbag (if equipped) when the passenger seat is empty.

### **Front safety belt usage sensors**

The front safety belt usage sensors detect whether or not the driver and front outboard passenger safety belts are fastened. This information allows your Personal Safety System<sup>™</sup> to tailor the airbag deployment and safety belt pretensioner activation depending upon safety belt usage. Refer to *Safety restraints* section in this chapter.

### **Front safety belt pretensioners**

The safety belt pretensioners at the front outboard seating positions are designed to tighten the safety belts firmly against the occupant's body during frontal collisions and in side collisions, and in rollovers when the vehicle is equipped with the optional Safety Canopy<sup>™</sup> system. This maximizes the effectiveness of the safety belts. In frontal collisions, the safety belt pretensioners can be activated alone or, if the collision is of sufficient severity, together with the front airbags.

### **Front safety belt energy management retractors**

The front outboard safety belt energy management retractors allow webbing to be pulled out of the retractor in a gradual and controlled manner in response to the occupant's forward momentum. This helps reduce the risk of force-related injuries to the occupant's chest by limiting the load on the occupant. Refer to *Safety restraints* section in this chapter.

## Seating and Safety Restraints

### ***Determining if the Personal Safety System™ is operational***

The Personal Safety System™ uses a warning light in the instrument cluster or a back-up tone to indicate the condition of the system. Refer to the *Warning lights and chimes* section in the *Instrument Cluster* chapter. Routine maintenance of the Personal Safety System™ is not required.

The Restraints Control Module (RCM) monitors its own internal circuits and the circuits for the airbag supplemental restraints, crash sensor(s), safety belt pretensioners, front safety belt buckle sensors, and the driver seat position sensor. In addition, the RCM also monitors the restraints warning light in the instrument cluster. A difficulty with the system is indicated by one or more of the following:

- The warning light will either flash or stay lit.
- The warning light will not illuminate immediately after the ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and warning light are repaired.

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

### **Safety restraints precautions**



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



To reduce the risk of injury, make sure children sit in the back seat 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 collision.



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

## Seating and Safety Restraints



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



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.



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



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.

### Energy Management Feature

- This vehicle has a safety belt system with an energy management feature at the front seating positions to help further reduce the risk of injury in the event of a head-on collision.
- This safety belt system has a retractor assembly that is designed to extend the safety belt webbing in a controlled manner. This helps reduce the belt force acting on the user's chest.



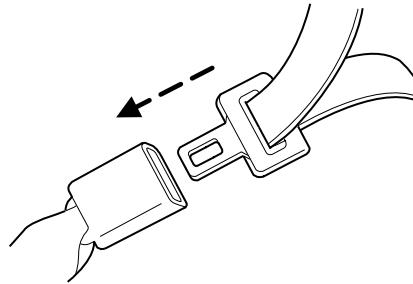
**BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED** if the safety belt assembly automatic locking retractor feature or any other safety belt function is not operating properly when checked by an authorized dealer. Failure to replace the Belt and Retractor assembly could increase the risk of injury in collisions.

## Seating and Safety Restraints

### Combination lap and shoulder belts

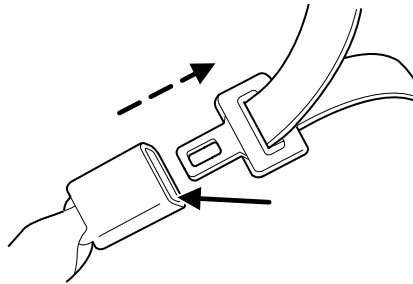
1. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.

- Front and rear seats



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

- Front and rear seats



All safety restraints in the vehicle are combination lap and shoulder belts. All of the passenger combination lap and shoulder belts have two types of locking modes described below:

### Vehicle sensitive mode

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

## Seating and Safety Restraints

### Automatic locking mode

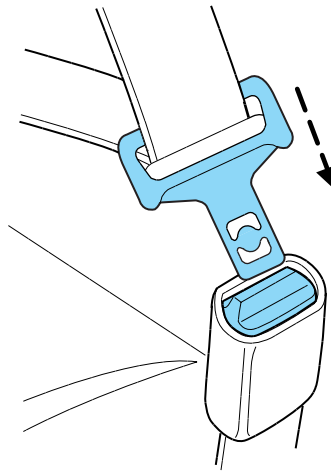
#### ***When to use the automatic locking mode***

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.

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

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

- Buckle the combination lap and shoulder belt.



- Grasp the shoulder portion and pull downward until the entire belt is pulled out.



## Seating and Safety Restraints

- 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.



After any vehicle collision, the combination lap and shoulder 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 to other checks for proper safety belt system function.



**BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED** if the safety belt assembly “automatic locking retractor” feature or any other safety belt function is not operating properly. In addition, all safety belts should be checked for proper function. Failure to replace the belt and retractor assembly could increase the risk of injury in collisions.

### **Safety belt pretensioner**

Your vehicle is equipped with safety belt pretensioners at the driver and right front passenger seating positions.

The safety belt pretensioner removes some slack from the safety belt system at the start of a crash. The safety belt pretensioner uses the same crash sensor system as the front airbags, seat-mounted side airbags, and Safety Canopy<sup>™</sup> system (if equipped). When the safety belt pretensioner deploys, the lap and shoulder belt are tightened.

When the optional Safety Canopy<sup>™</sup> system, seat-mounted side airbags, and/or the front airbags are activated, the safety belt pretensioners for the driver and right front passenger seating positions will be activated when the respective seatbelt is properly buckled.



The driver and front passenger safety belt system (including retractors, buckles and height adjusters) must be replaced if the vehicle is involved in a collision that results in deployment of front airbags, seat-mounted side airbags and Safety Canopy<sup>™</sup> (if equipped), and safety belt pretensioners.



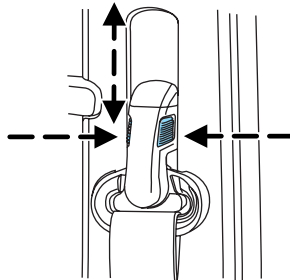
## Seating and Safety Restraints

Refer to the *Safety belt maintenance* section in this chapter.

### Front safety belt height adjustment

Your vehicle has safety belt height adjustments at the front outboard seating positions. Adjust the height of the shoulder belt so the belt rests across the middle of your shoulder.

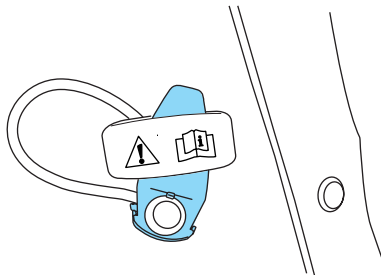
To adjust the shoulder belt height, squeeze and hold the buttons on the side and slide the height adjuster up or down. Release the buttons and pull down on the height adjuster to make sure it is locked in place.



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

### Second row comfort guide

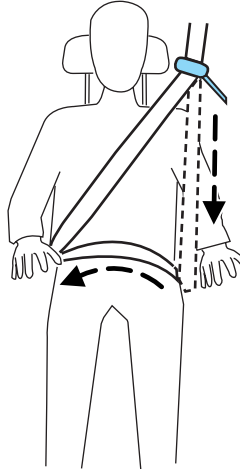
The second row outboard lap/shoulder belt is equipped with a belt comfort guide. This guide is attached to the quarter trim panel and is used to adjust the comfort of the shoulder belt for smaller occupants in the outboard second row seats.



## Seating and Safety Restraints

To adjust the comfort guide:

1. Slip the shoulder belt into the belt guide.
2. Slide the guide up or down along the webbing so that the belt is centered on the occupant's shoulder.



### Safety belt extension assembly

If the safety belt is too short when fully extended, there is a 8 inch (20 cm) safety belt extension assembly that can be added (part number 611C22). This assembly can be obtained from an authorized dealer.

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



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

### Safety belt warning light and indicator chime

The safety belt warning light illuminates in the instrument cluster and a chime sounds to remind the occupants to fasten their safety belts.

## Seating and Safety Restraints

### Conditions of operation

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

### BeltMinder®

The BeltMinder® feature is a supplemental warning to the safety belt warning function. This feature provides additional reminders by intermittently sounding a chime and illuminating the safety belt warning light in the instrument cluster when the driver's and front passenger's safety belt is unbuckled.

The BeltMinder® feature 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 BeltMinder® feature for objects placed in the front passenger seat, warnings will only be given to large front seat occupants as determined by the front passenger sensing system.

Both the driver's and passenger's safety belt usages are monitored and either may activate the BeltMinder® feature. The warnings are the same for the driver and the front passenger. If the BeltMinder® warnings have expired (warnings for approximately 5 minutes) for one occupant (driver or front passenger), the other occupant can still activate the BeltMinder® feature.

## Seating and Safety Restraints

| If...                                                                                                                                                                                                                                       | Then...                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The driver's and front passenger's safety belts are buckled before the ignition switch is turned to the ON position or less than 1-2 minutes have elapsed since the ignition switch has been turned ON...                                   | The BeltMinder® feature will not activate.                                                                                                                                                                                 |
| The driver's or front passenger's safety belt is not buckled when the vehicle has reached at least 3 mph (5 km/h) and 1-2 minutes have elapsed since the ignition switch has been turned to ON...                                           | The BeltMinder® feature is activated - the safety belt warning light illuminates and the warning chime sounds for 6 seconds every 30 seconds, repeating for approximately 5 minutes or until the safety belts are buckled. |
| The driver's or front passenger's safety belt becomes unbuckled for approximately 1 minute while the vehicle is traveling at least 3 mph (5 km/h) and more than 1-2 minutes have elapsed since the ignition switch has been turned to ON... | The BeltMinder® feature is activated - the safety belt warning light illuminates and the warning chime sounds for 6 seconds every 30 seconds, repeating for approximately 5 minutes or until the safety belts are buckled. |

## Seating and Safety Restraints

The following are reasons most often given for not wearing safety belts  
(All statistics based on U.S. data):

| Reasons given...                       | Consider...                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Crashes are rare events"              | <b>36700 crashes occur every day.</b> The more we drive, the more we are exposed to "rare" events, even for good drivers. <i>1 in 4 of us will be seriously injured in a crash during our lifetime.</i>              |
| "I'm not going far"                    | <b>3 of 4</b> fatal crashes occur within <b>25</b> miles (40 km) of home.                                                                                                                                            |
| "Belts are uncomfortable"              | We design our safety belts to enhance comfort. If you are uncomfortable - try different positions for the safety belt upper anchorage and seatback which should be as upright as possible; this can improve comfort. |
| "I was in a hurry"                     | <b>Prime time for an accident.</b> BeltMinder® reminds us to take a few seconds to buckle up.                                                                                                                        |
| "Safety belts don't work"              | <b>Safety belts</b> , when used properly, <b>reduce risk of death</b> to front seat occupants by <b>45% in cars</b> , and by <b>60% in light trucks</b> .                                                            |
| "Traffic is light"                     | <b>Nearly 1 of 2 deaths occur in single-vehicle crashes</b> , many when no other vehicles are around.                                                                                                                |
| "Belts wrinkle my clothes"             | Possibly, but a serious crash can do much more than wrinkle your clothes, particularly if you are unbelted.                                                                                                          |
| "The people I'm with don't wear belts" | Set the example, teen deaths occur 4 times more often in vehicles with TWO or MORE people. Children and younger brothers/sisters imitate behavior they see.                                                          |

## Seating and Safety Restraints

| Reasons given...             | Consider...                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| "I have an airbag"           | Airbags offer greater protection when used with safety belts. Frontal airbags are not designed to inflate in rear and side crashes or rollovers.       |
| "I'd rather be thrown clear" | Not a good idea. <b>People</b> who are <b>ejected are 40 times more likely to DIE</b> . Safety belts help prevent ejection, WE CAN'T "PICK OUR CRASH". |



Do not sit on top of a buckled safety belt to avoid the BeltMinder® chime. Sitting on the safety belt will increase the risk of injury in an accident. To disable (one-time) or deactivate the BeltMinder® feature please follow the directions stated below.

### **One time disable**

If at any time the driver/front passenger quickly buckles then unbuckles the safety belt for that seating position, the BeltMinder® is disabled for the current ignition cycle. The BeltMinder® feature will enable during the same ignition cycle if the occupant buckles and remains buckled for approximately 30 seconds. Confirmation is not given for the one time disable.

### **Deactivating/activating the BeltMinder® feature**

**The driver and front passenger BeltMinder® are deactivated/activated independently. When deactivating/activating one seating position, do not buckle the other position as this will terminate the process.**

*Read Steps 1 - 4 thoroughly before proceeding with the deactivation/activation programming procedure.*

**Note:** The driver and front passenger BeltMinder® features must be disabled/enabled separately. Both cannot be disabled/enabled during the same key cycle.



## Seating and Safety Restraints

The driver and front passenger BeltMinder® features can be deactivated/activated by performing the following procedure:

Before following the procedure, make sure that:

- The parking brake is set
- The gearshift is in P (Park) (automatic transmission)
- The ignition switch is in the OFF position
- The driver and front passenger safety belts are unbuckled



To reduce the risk of injury, do not deactivate/activate the BeltMinder® feature while driving the vehicle.

1. Turn the ignition switch to the RUN (or ON) position. (DO NOT START THE ENGINE)
2. Wait until the safety belt warning light turns off. (Approximately 1 minute)
  - Step 3 must be completed within 50 seconds after the safety belt warning light turns off.
3. For the seating position being disabled, at a moderate speed, buckle then unbuckle the safety belt 9 times, ending in the unbuckled state. (Step 3 must be completed within 50 seconds after the safety belt warning light turns off.)
  - After Step 3, the restraint system warning light (airbag light) will be turned on for three seconds.
4. Within 10 seconds of the light turning on, at a moderate speed, buckle then unbuckle the safety belt.
  - This will disable the BeltMinder® feature for that seating position if it is currently enabled. As confirmation, the restraint system warning light will flash 4 times per second for 3 seconds.
  - This will enable the BeltMinder® feature for that seating position if it is currently disabled. As confirmation, the restraint system warning light will flash 4 times per second for 3 seconds, followed by 3 seconds with the light off, then followed by the restraint system warning light flashing 4 times per second for 3 seconds again.

## Seating and Safety Restraints

### Safety belt maintenance

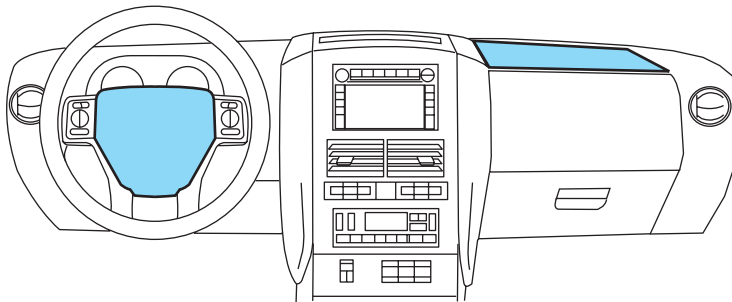
Inspect the safety belt systems periodically to make sure they work properly and are not damaged. Inspect the safety belts to make sure there are no nicks, tears or cuts. Replace if necessary. All safety belt assemblies, including retractors, buckles, front safety belt buckle assemblies, buckle support assemblies (slide bar-if equipped), shoulder belt height adjusters (if equipped), shoulder belt guide on seatback (if equipped), child safety seat LATCH and tether anchors, and attaching hardware, should be inspected after a collision. Ford Motor Company recommends that all safety belt assemblies in use in vehicles involved in a collision be replaced. However, if the collision was minor and an authorized dealer finds that the belts do not show damage and continue to operate properly, they do not need to be replaced. Safety belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.



Failure to inspect and if necessary replace the safety belt assembly under the above conditions could result in severe personal injuries in the event of a collision.

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

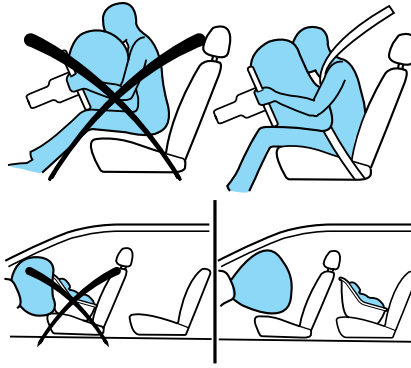
### AIRBAG SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



## Seating and Safety Restraints

### Important SRS precautions

The SRS is designed to work with the safety belt 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.



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



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



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



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

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.



Do not put anything on or over the airbag module. Placing objects 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.

## Seating and Safety Restraints



Do not attempt to service, repair, or modify the airbag supplemental restraint systems or its fuses. See your authorized dealer.



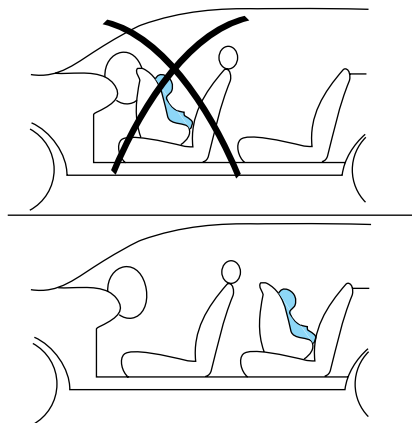
Modifications to the front end of the vehicle, including frame, bumper, front end body structure and non-Ford tow hooks may effect the performance of the airbag sensors increasing the risk of injury. Do not modify the front end of the vehicle with anything other than authorized Ford accessories for your vehicle.



Additional 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.

### Children and airbags

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



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.

## Seating and Safety Restraints

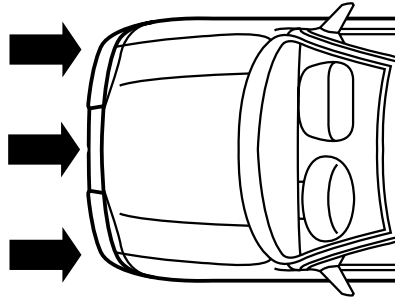
### How does the airbag supplemental restraint system work?

The airbag SRS is designed to activate when the vehicle sustains longitudinal deceleration sufficient to cause the sensors to close an electrical circuit that initiates airbag inflation.

The fact that the airbags did not inflate in a collision does not mean that something is wrong with the system. Rather, it means the forces were not of the type sufficient to cause activation. Front airbags are designed to activate in frontal and near-frontal collisions, not rollover, side-impact, or rear-impacts unless the collision causes sufficient longitudinal deceleration.

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

While the system is designed to help reduce serious injuries, contact with a deploying airbag may also cause abrasions, swelling or temporary hearing loss. 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.



## Seating and Safety Restraints



Several air bag system components get hot after inflation. Do not touch them after inflation.



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

The SRS consists of:

- driver and passenger airbag modules (which include the inflators and airbags).
- seat-mounted side airbags (if equipped). Refer to *Seat-mounted side airbag system* later in this chapter
- Safety Canopy™ system (if equipped). Refer to *Safety Canopy™ system* later in this chapter.
- one or more impact and safing sensors.
- a readiness light and tone.
- diagnostic module.
- and the electrical wiring which connects the components.
- Front passenger sensing system. Refer to *Front passenger sensing system.* later in this chapter.
- “Passenger airbag off” or “pass airbag off” indicator lamp. Refer to *Front passenger sensing system* later in this chapter.

The diagnostic module monitors its own internal circuits and the supplemental airbag electrical system wiring (including the impact sensors), the system wiring, the airbag system readiness light, the airbag back up power and the airbag ignitors.

### Front passenger sensing system

The front passenger sensing system is designed to meet the regulatory requirements of Federal Motor Vehicle Safety Standard (FMVSS) 208 and is designed to disable (will not inflate) the front passenger's frontal airbag under certain conditions.

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

## Seating and Safety Restraints

The front passenger sensing system will disable (will not inflate) the front passenger's frontal airbag if:

- the front passenger seat is unoccupied, or has small/medium objects in the front seat,
- the system determines that an infant is present in a rear-facing infant seat that is installed according to the manufacturer's instructions,
- the system determines that a small child is present in a forward-facing child restraint that is installed according to the manufacturer's instructions,
- the system determines that a small child is present in a booster seat,
- a front passenger takes his/her weight off of the seat for a period of time,

For side airbag equipped vehicles, the front passenger sensing system will turn off the passenger seat side airbag if:

- the seat is empty and safety belt is unbuckled.

The front passenger sensing system uses a "passenger airbag off" or "pass airbag off" indicator which will illuminate and stay lit to remind you

PASSENGER AIRBAG OFF

that the front passenger frontal airbag is disabled. The indicator lamp is located in the center stack of the instrument panel above the radio.

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

When the front passenger seat is not occupied (empty seat) or in the event that the front passenger frontal airbag is enabled (may inflate), the indicator lamp will be unlit.

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

- When the front passenger sensing system disables (will not inflate) the front passenger frontal airbag, the indicator lamp will illuminate and stay lit to remind you that the front passenger frontal airbag is disabled.
- If the child restraint has been installed and the indicator lamp is not lit, then turn the vehicle off, remove the child restraint from the vehicle and reinstall the restraint following the child restraint manufacturer's instructions.

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

## Seating and Safety Restraints

- When the front passenger sensing system enables the front passenger frontal airbag (may inflate), the indicator will be unlit and stay unlit. If a person of adult size is sitting in the front passenger's seat, but the "passenger airbag off" or "pass airbag off" indicator lamp is lit, it is possible that the person isn't sitting properly in the seat. If this happens:
- Turn the vehicle off and ask the person to place the seatback in the full upright position.
- Have the person sit upright in the seat, centered on the seat cushion, with the person's legs comfortably extended.
- Restart the vehicle and have the person remain in this position for about two minutes. This will allow the system to detect that person and enable the passenger's frontal airbag.
- If the indicator lamp remains lit even after this, the person should be advised to ride in the rear seat.

| Occupant                                          | Pass Airbag Off Indicator Lamp | Passenger Airbag |
|---------------------------------------------------|--------------------------------|------------------|
| Empty seat                                        | Unlit                          | Disabled         |
| Small child in child safety seat or booster       | Lit                            | Disabled         |
| Small child with safety belt buckled or unbuckled | Lit                            | Disabled         |
| Adult                                             | Unlit                          | Enabled          |



Even with Advanced Restraints Systems, children 12 and under should be properly restrained in the back seat.

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



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



## Seating and Safety Restraints

The front passenger sensing system may detect small or medium objects placed on the seat cushion. For most objects that are in the front passenger seat, the passenger airbag will be disabled. Even though the passenger airbag is disabled, the "pass airbag off" lamp may or may not be illuminated according to the table below.

| Objects                                                     | Pass Airbag Off Indicator Lamp | Passenger Airbag |
|-------------------------------------------------------------|--------------------------------|------------------|
| Small (i.e. 3 ring binder, small purse, bottled water)      | Unlit                          | Disabled         |
| Medium (i.e. heavy briefcase, fully packed luggage)         | Lit                            | Disabled         |
| Empty seat, Small or medium object with safety belt buckled | Lit                            | Disabled         |

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

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

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

## Seating and Safety Restraints



To reduce the risk of possible serious injury:

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

In case there is a problem with the front passenger sensing system, the airbag readiness lamp in the instrument cluster will stay lit.



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

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

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

- Pull the vehicle over.
- Turn the vehicle off.
- Driver and/or adult passengers should check for any objects lodged underneath the front passenger seat or cargo interfering with the seat.
- Remove the obstruction(s) (if found).
- Restart the vehicle.
- Wait at least 2 minutes and verify that the airbag readiness lamp is no longer illuminated
- If the airbag readiness lamp remains illuminated, this may or may/not be a problem due to the front passenger sensing system.

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

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

## Seating and Safety Restraints



Any alteration/modification to the front passenger seat may affect the performance of the front passenger sensing system.

### Determining if the system is operational

The SRS uses a readiness light in the instrument cluster or a tone to indicate the condition of the system. Refer to *Airbag readiness* section in the *Instrument Cluster* chapter. Routine maintenance of the airbag is not required.

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

- The readiness light will either flash or stay lit.
- The readiness light will not illuminate immediately after ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and/or light are repaired.



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

### Seat-mounted side airbag system



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



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.



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



## Seating and Safety Restraints

 Do not attempt to service, repair, or modify the airbag SRS, its fuses or the seat cover on a seat containing an airbag. See your authorized dealer.

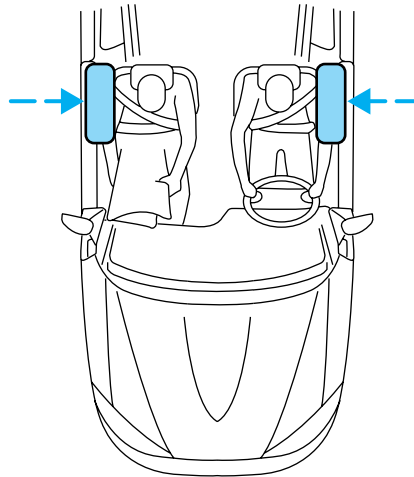
 All occupants of the vehicle should always wear their safety belts even when an airbag SRS is provided.

### **How does the side airbag system work?**

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.

The side airbag system consists of the following:

- An inflatable nylon bag (airbag) with an inflator concealed behind the outboard bolster of the driver and front passenger seatbacks.
- A special seat cover designed to allow airbag deployment.
- The same warning light, electronic control and diagnostic unit as used for the front airbags.
- Crash sensors located on the front doors and C pillars (one sensor on each pillar on each side of the vehicle).



Side airbags, in combination with safety belts, can help reduce the risk of severe injuries in the event of a significant side impact collision.

The side airbags are fitted on the outboard side of the seatbacks of the front seats. In certain lateral collisions, the airbag on the side affected by the collision will be inflated. If the front passenger sensing system detects an empty seat, the front passenger seat-mounted side airbag will be deactivated. The airbag was designed to inflate between the door panel and occupant to further enhance the protection provided occupants in side impact collisions.

## Seating and Safety Restraints

The airbag SRS is designed to activate when the vehicle sustains lateral deceleration sufficient to cause the sensors to close an electrical circuit that initiates airbag inflation.

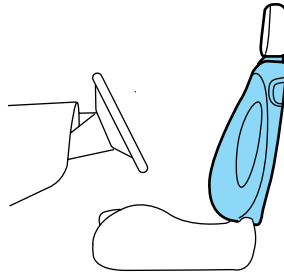
The fact that the airbags did not inflate in a collision does not mean that something is wrong with the system. Rather, it means the forces were not of the type sufficient to cause activation. Side airbags are designed to inflate in side-impact collisions, not roll-over, rear-impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration.



Several air bag system components get hot after inflation. Do not touch them after inflation.



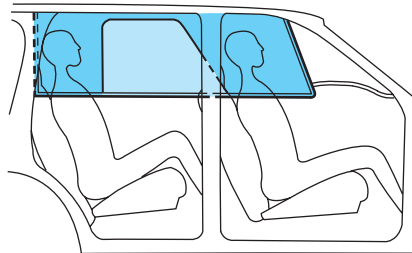
If the side airbag has deployed, **the airbag will not function again. The side airbag system (including the seat) must be inspected and serviced by an authorized dealer**. If the airbag is not replaced, the unrepaired area will increase the risk of injury in a collision.



### Safety Canopy™ system (if equipped)



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



## Seating and Safety Restraints



Do not lean your head on the door. The Safety Canopy™ could injure you as it deploys from the headliner.



Do not attempt to service, repair, or modify the Safety Canopy™ system, its fuses, the A, B, or C pillar trim, or the headliner on a vehicle containing a Safety Canopy™. See your authorized dealer.



All occupants of the vehicle including the driver should always wear their safety belts even when an airbag SRS and Safety Canopy™ system is provided.



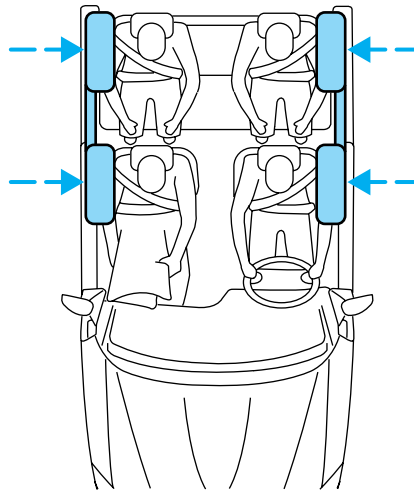
To reduce risk of injury, do not obstruct or place objects in the deployment path of the inflatable Safety Canopy™.

### How does the Safety Canopy™ system work?

The design and development of the Safety Canopy™ 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 (including the Safety Canopy™).

The Safety Canopy™ system consists of the following:

- An inflatable nylon curtain with an inflator concealed behind the headliner and above the doors (one on each side of the vehicle).



## Seating and Safety Restraints

- A headliner that will flex to open above the side doors to allow Safety Canopy™ deployment.
- The same warning light, electronic control and diagnostic unit as used for the front airbags.
- Two side crash sensors mounted at the front doors (one on each side of the vehicle).
- Two side crash sensors located at the c-pillar behind the rear doors (one on each side of the vehicle).
- Roll over sensor in the restraints control module (RCM).

The Safety Canopy™ system, in combination with safety belts, can help reduce the risk of severe injuries in the event of a significant side impact collision or rollover event.

Children 12 years old and under should always be properly restrained in the second or third row seats (if equipped). 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 openings.

The Safety Canopy™ system is designed to activate when the vehicle sustains lateral deceleration sufficient to cause the side crash sensor to close an electrical circuit that initiates Safety Canopy™ inflation or when a certain likelihood of a rollover event is detected by the rollover sensor.

The Safety Canopy™ is mounted to the roof side-rail sheet metal, behind the headliner, above the first and second row seats. In certain lateral collisions or rollover events, the Safety Canopy™ system will be activated, regardless of which seats are occupied. The Safety Canopy™ is designed to inflate between the side window area and occupants to further enhance protection provided in side impact collisions and rollover events.

The fact that the Safety Canopy™ system did not activate in a collision does not mean that something is wrong with the system. Rather, it means the forces were not of the type sufficient to cause activation. The Safety Canopy™ is designed to inflate in certain side impact collisions or rollover events, not in rear impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration or rollover likelihood.

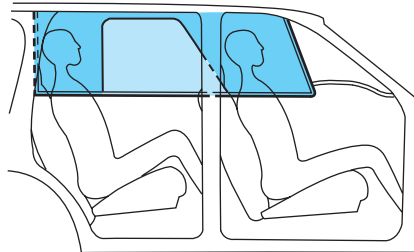


Several Safety Canopy™ system components get hot after inflation. Do not touch them after inflation.



## Seating and Safety Restraints

 If the Safety Canopy™ system has deployed, the **Safety Canopy™ will not function again. The Safety Canopy™ system (including the A, B and C pillar trim) must be inspected and serviced by an authorized dealer.** If the Safety Canopy™ is not replaced, the unrepaired area will increase the risk of injury in a collision.



### ***Determining if the system is operational***

The SRS uses a readiness light in the instrument cluster or a tone to indicate the condition of the system. Refer to the *Airbag readiness* section in the *Instrument Cluster* chapter. Routine maintenance of the airbag is not required.

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

- The readiness light (same light as for front airbag system) will either flash or stay lit.
- The readiness light will not illuminate immediately after ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and light are repaired.

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

### **Disposal of airbags and airbag equipped vehicles (including pretensioners)**

See your authorized dealer. Airbags **MUST BE** disposed of by qualified personnel.

### **SAFETY RESTRAINTS FOR CHILDREN**

See the following sections for directions on how to properly use safety restraints for children. Also see *Airbag supplemental restraint system (SRS)* in this chapter for special instructions about using airbags.

## Seating and Safety Restraints

### Important child restraint precautions

You are required by law to use safety restraints for children in the U.S. and Canada. If small children (generally children who are four years old or younger and who weigh 40 lb. [18 kg] or less) ride in your vehicle, you must put them in safety seats made especially for children. Many states require that children use approved booster seats until they are eight years old. Check your local and state or provincial laws for specific requirements regarding the safety of children in your vehicle. When possible, always place children under age 12 in the rear seat of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position.



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

Always follow the instructions and warnings that come with any infant or child restraint you might use.

### Children and safety belts

If the child is the proper size, restrain the child in a safety seat. Children who are too large for child safety seats (as specified by your child safety seat manufacturer) should always wear safety belts.

Follow all the important safety restraint and airbag precautions that apply to adult passengers in your vehicle.

If the shoulder belt portion of a combination lap and shoulder belt can be positioned so it does not cross or rest in front of the child's face or neck, the child should wear the lap and shoulder belt. Moving the child closer to the center of the vehicle may help provide a good shoulder belt fit.

Belt comfort guides are provided at the 2nd row outboard seats to improve belt comfort for smaller occupants. The belt comfort guide is not a substitute for a booster seat, and is only intended to improve the comfort of the safety belt if it rests against the neck. Most children still need a booster seat to encourage upright posture and improve lap belt fit. Refer to *Second row comfort guide* earlier in this chapter.



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

## Seating and Safety Restraints

### Child booster seats

Children outgrow a typical convertible or toddler seat when they weigh 40 lb. (18 kg) and are around 4 years of age. Although the lap/shoulder belt will provide some protection, these children are still too small for lap/shoulder belts to fit properly, which could increase the risk of serious injury in a crash.

To improve the fit of both the lap and shoulder belt on children who have outgrown child safety seats, Ford Motor Company recommends use of a belt-positioning booster.

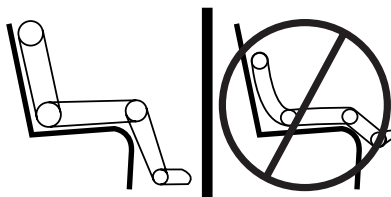
Booster seats position a child so that safety belts fit better. They lift the child up so that the lap belt rests low across the hips and the knees bend comfortably. Booster seats may also make the shoulder belt fit better and more comfortably. Try to keep the belt near the middle of the shoulder.

### When children should use booster seats

Children need to use booster seats from the time they outgrow the toddler seat until they are big enough for the vehicle seat and lap/shoulder belt to fit properly. Generally this is when they weigh about 80 lb. (36 kg) (about 8 to 12 years old).

Booster seats should be used until you can answer YES to ALL of these questions:

- Can the child sit all the way back against the vehicle seat back with knees bent comfortably at the edge of the seat 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?

## Seating and Safety Restraints

### **Types of booster seats**

There are two types of belt-positioning booster seats:

- Those that are backless.

If your backless booster seat has a removable shield, remove the shield and use the lap/shoulder belt. If a seating position has a low seat back and no head restraint, a backless booster seat may place your child's head (top of ear level) above the top of the seat. In this case, move the backless booster to another seating position with a higher seat back and lap/shoulder belts.



- Those with a high back.

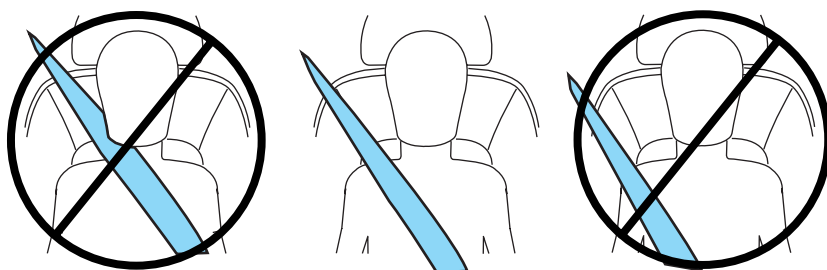
If, with a backless booster seat, you cannot find a seating position that adequately supports your child's head, a high back booster seat would be a better choice.



Either type can be used at any seating position equipped with lap/shoulder belts if your child is over 40 lb. (18 kg).

## Seating and Safety Restraints

Children and booster seats vary widely 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 drawings below compare the ideal fit (center) to a shoulder belt uncomfortably close to the neck and a shoulder belt that could slip off the shoulder.



If the booster seat slides on the vehicle seat, placing a rubberized mesh sold as shelf or carpet liner under the booster seat may improve this condition.

### The importance of shoulder belts

Using a booster without a shoulder belt increases the risk of a child's head hitting a hard surface in a collision. For this reason, you should never use a booster seat with a lap belt only. It is best to use a booster seat with lap/shoulder belts in the back seat- the safest place for children to ride.



Move a child to a different seating location if the shoulder belt does not stay positioned on the shoulder during use.



Follow all instructions provided by the manufacturer of the booster seat.



Never put the shoulder belt under a child's arm or behind the back because it eliminates the protection for the upper part of the body and may increase the risk of injury or death in a collision.



## Seating and Safety Restraints



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

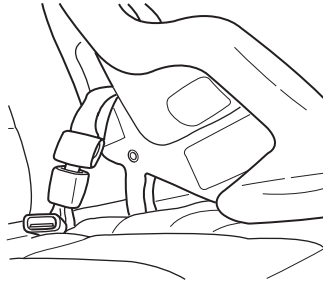
### SAFETY SEATS FOR CHILDREN

#### Child and infant or child safety seats

Use a safety seat that is recommended for the size and weight of the child. Carefully follow all of the manufacturer's instructions with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.

When installing a child safety seat:

- Review and follow the information presented in the *airbag supplemental restraint system* (SRS) section in this chapter.
- Use the correct safety belt buckle for that seating position (the buckle closest to the direction the tongue is coming from).
- 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 seat back in upright position.
- Put the safety belt in the automatic locking mode. Refer to *Automatic locking mode* (passenger side front and outboard rear seating positions) (if equipped) section in this chapter.
- LATCH lower anchors are recommended for use by children up to 48 lb. (22 kg) in a child restraint. Top tether anchors can be used for children up to 60 pounds (27 kg) in a child restraint, and to provide upper torso restraint for children up to 80 lb. (36 kg) using an upper torso harness and a belt-positioning booster.



## Seating and Safety Restraints

Ford recommends the use of a child safety seat having a top tether strap. Install the child safety seat in a seating position with LATCH and tether anchors. For more information on top tether straps and anchors, refer to *Attaching safety seats with tether straps* in this chapter. For more information of LATCH anchors refer to *Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments* in this chapter.



Carefully follow all of the manufacturer's instructions included with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.



Rear-facing child seats or infant carriers should never be placed in front of an active passenger airbag.

### Installing child safety seats with combination lap and shoulder belts



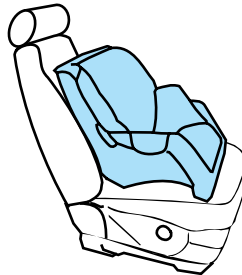
Airbags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.



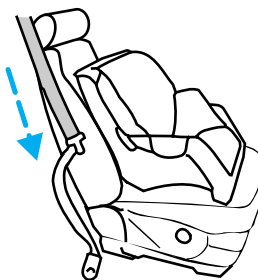
Children 12 and under should be properly restrained in the rear seat whenever possible.

## Seating and Safety Restraints

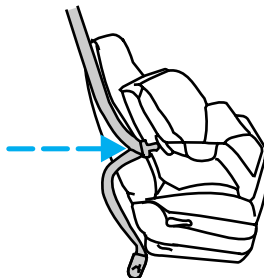
1. Position the child safety seat in a seat with a combination lap and shoulder belt.



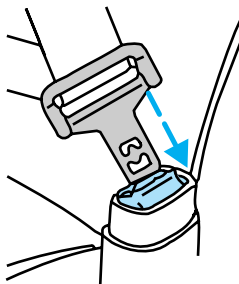
2. Pull down on the shoulder belt and then grasp the shoulder belt and lap belt together.



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.

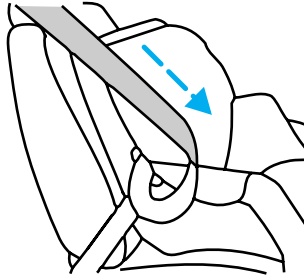


4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.



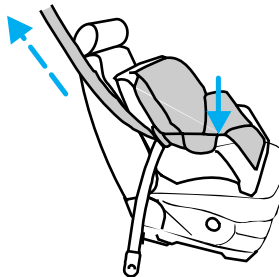
## Seating and Safety Restraints

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 and a click is heard.



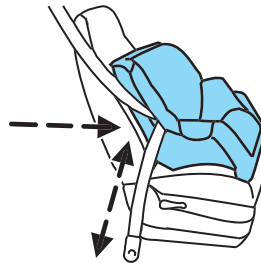
6. Allow the belt to retract. The belt will click as it retracts to indicate it is in the automatic locking mode.

7. Pull the lap belt portion across the child seat toward the buckle and pull up on the shoulder belt while pushing down with your knee on the child seat.



8. Allow the safety belt to retract to remove any slack in the belt.

9. 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. There should be no more than one inch of movement for proper installation.



10. 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 2 through 9.

Check to make sure the child seat is properly secured before each use.

## Seating and Safety Restraints

### Attaching child safety seats with tether straps

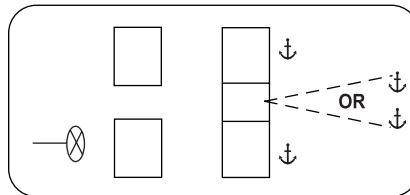
Most new forward-facing child safety seats include a tether strap which goes over the back of the seat and hooks to an anchoring point. Tether straps are available as an accessory for many older safety seats. Contact the manufacturer of your child seat for information about ordering a tether strap.

The rear seats of your vehicle are equipped with built-in tether strap anchors located behind the seats as shown below.

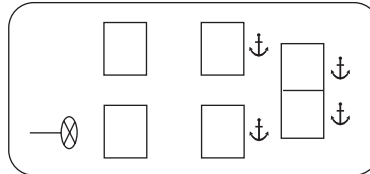
The tether strap anchors in your vehicle are in the following positions (shown from top view):

- 5 passenger vehicle

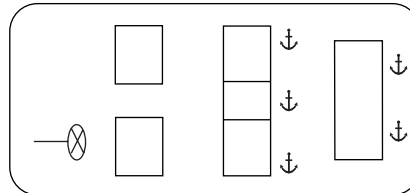
For the center seat, use either of the two tether anchors/cargo tie-downs in the scuff plate along the back edge of the floor.



- 6 passenger vehicle



- 7 passenger vehicle



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.



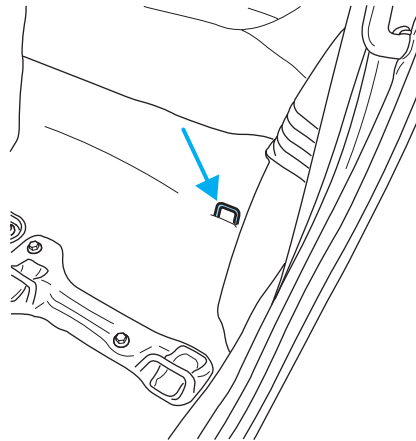
Do not tie down cargo with anchors if the anchors are in use as child tethers.

## Seating and Safety Restraints

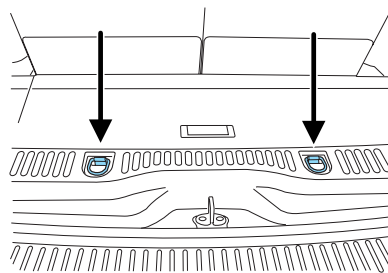
1. Position the child safety seat on the rear seat cushion.
2. Route the tether strap under the head restraint and between the head restraint posts.
3. Locate the correct anchor for the selected rear seating position.

When placing a child safety seat in the 2nd row center seating position of the 5 passenger vehicle, the tether straps may be attached to either of the tether anchors located at the rear of the cargo area.

- Behind 2nd row seat

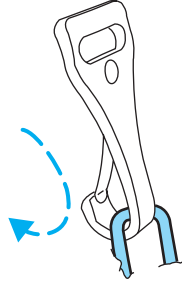


- At the rear of the cargo area



## Seating and Safety Restraints

4. Clip the tether strap to the anchor.



If the tether strap is clipped incorrectly, the child safety seat may not be retained properly in the event of a collision.

5. Install the child safety seat tightly using the LATCH anchors or safety belts. Follow the instructions in this chapter.
6. Tighten the child safety seat tether strap according to the manufacturer's instructions.



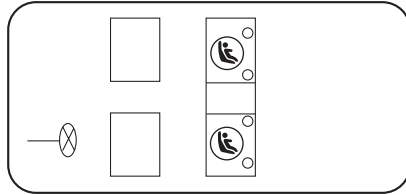
If the safety seat is not anchored properly, the risk of a child being injured in a collision greatly increases.

### Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments for child seat anchors

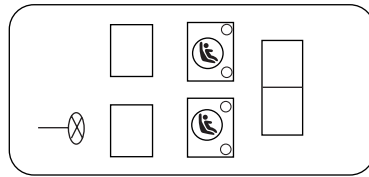
Some child safety seats have two rigid or webbing mounted attachments that connect to two anchors at certain seating positions in your vehicle. This type of child seat eliminates the need to use safety belts to attach the child seat. For forward-facing child seats, the tether strap must also be attached to the proper tether anchor. See *Attaching child safety seats with tether straps* in this chapter.

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

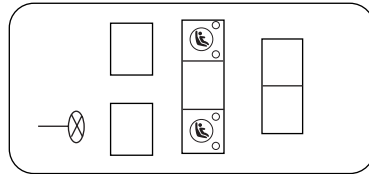
## Seating and Safety Restraints



- 5 passenger vehicle



- 6 passenger vehicle



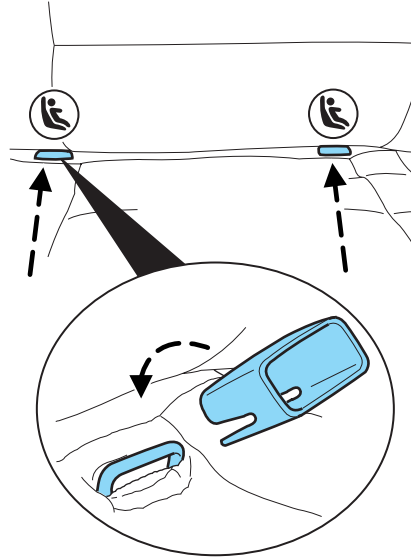
- 7 passenger vehicle



Never attach two LATCH 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.

## Seating and Safety Restraints

The lower anchors for child seat installation are located at the rear section of the second row seat between the cushion and seat back. The LATCH anchors are below the locator symbols on the seat back.



The anchors on the 2nd row outboard seats are provided only to install child seats at the outboard seats. DO NOT install a child seat at the center 2nd row seat using LATCH attachments (rigid or mounted on belt webbing) mounted to the inboard lower anchors at the outboard seats. If you install a child seat at the center 2nd row position, use the vehicle belt and the top tether anchor.

Follow the child seat manufacturer's instructions to properly install a child seat with LATCH attachments. The plastic LATCH guides can be obtained from an authorized dealer. They snap onto the LATCH lower anchors in the seat to help attach a child seat with rigid attachments. The guides hold the seat trim away to expose the anchor and make it easier to attach some child seats.



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

## Seating and Safety Restraints

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.

Each time you use the safety seat, check that the seat is properly attached to the lower anchors and tether anchor. Try to move the child seat from side to side. Also try to tug the seat forward. Check to see if the anchors hold the seat in place.



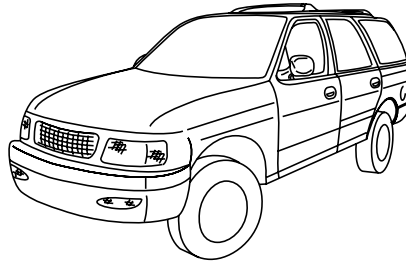
If the safety seat is not anchored properly, the risk of a child being injured in a crash greatly increases.



## Tires, Wheels and Loading

### NOTICE TO UTILITY VEHICLE AND TRUCK OWNERS

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.



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/infants must use appropriate restraints to minimize the risk of injury or ejection.

Study your *Owner's Guide* 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.

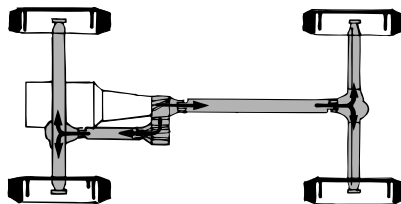
### VEHICLE CHARACTERISTICS

#### 4WD and AWD Systems (if equipped)

A vehicle equipped with AWD or 4WD (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.

## Tires, Wheels and Loading

Power is supplied to all four wheels through a transfer case or power transfer unit. 4WD vehicles allow you to select different drive modes as necessary. Information on transfer case operation and shifting procedures can be found in the *Driving* chapter. Information on transfer case maintenance can be found in the *Maintenance and Specifications* chapter. You should become thoroughly familiar with this information before you operate your vehicle.



On some 4WD models, the initial shift from two-wheel drive to 4WD 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 is not cause for concern.

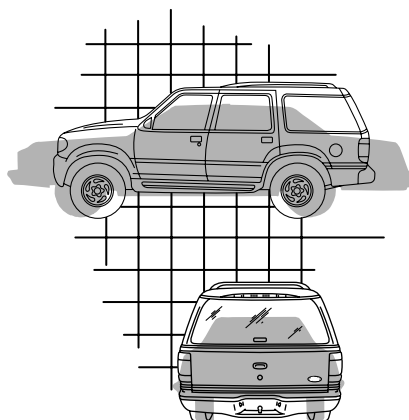


Do not become overconfident in the ability of 4WD and AWD vehicles. Although a 4WD or AWD vehicle may accelerate better than two-wheel drive vehicle in low traction situations, it won't stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

### How your vehicle differs from other vehicles

SUV 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.

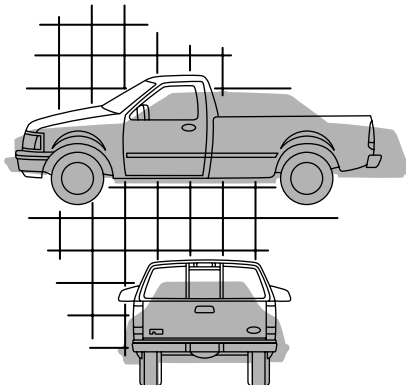


## Tires, Wheels and Loading

- Narrower — to provide greater maneuverability in tight spaces, particularly in off-road use.

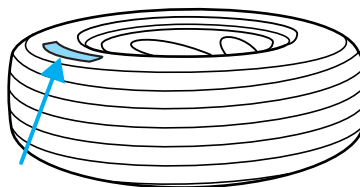
As a result of the above dimensional differences, SUV's and trucks often will have a higher center of gravity and a greater difference in center of gravity between the loaded and unloaded condition.

These differences that make your vehicle so versatile also make it handle differently than an ordinary passenger car.



### INFORMATION ABOUT UNIFORM TIRE QUALITY GRADING

New vehicles are fitted with tires that have a rating on them called Tire Quality Grades. The Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:



- **Treadwear 200 Traction AA Temperature A**

These Tire Quality Grades are determined by standards that the United States Department of Transportation has set.

Tire Quality Grades apply to new pneumatic tires for use on passenger cars. They do not apply to deep tread, winter-type snow tires, space-saver or temporary use spare 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

## Tires, Wheels and Loading

government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climate.

### Traction AA A B C

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.



The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning or peak traction characteristics.

### Temperature A B C

The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.



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.

## TIRES

Tires are designed to give many thousands of miles of service, but they must be maintained in order to get the maximum benefit from them.

### Glossary of tire terminology

- **Tire label:** A label showing the OE (Original Equipment) tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.



## Tires, Wheels and Loading

- **Tire Identification Number (TIN):** A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.
- **Inflation pressure:** A measure of the amount of air in a tire.
- **Standard load:** A class of P-metric or Metric tires designed to carry a maximum load at 35 psi [37 psi (2.5 bar) for Metric tires]. Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.
- **Extra load:** A class of P-metric or Metric tires designed to carry a heavier maximum load at 41 psi [43 psi (2.9 bar) for Metric tires]. Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.
- **kPa:** Kilopascal, a metric unit of air pressure.
- **PSI:** Pounds per square inch, a standard unit of air pressure.
- **Cold inflation pressure:** The tire pressure when the vehicle has been stationary and out of direct sunlight for an hour or more and prior to the vehicle being driven for 1 mile (1.6 km).
- **Recommended inflation pressure:** The cold inflation pressure found on the Safety Compliance Certification Label 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.

### 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.

180

*2006 Explorer (exp)*  
*Owners Guide (post-2002-fmt)*  
*USA (fus)*

## Tires, Wheels and Loading

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.

Use a tire gauge to check the tire inflation pressure, including the spare (if equipped), at least monthly and before long trips. 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.



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 Tire Label which is located on the B-Pillar or the edge of the driver's door. Failure to follow the tire pressure recommendations can cause uneven treadwear patterns and adversely affect the way your vehicle handles.

**Maximum Permissible Inflation Pressure** is the tire manufacturer's maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the Safety Compliance Certification Label or Tire Label.

When weather temperature changes occur, tire inflation pressures also change. A 10° F (6° C) temperature drop can cause a corresponding drop of 1 psi (7 kPa) in inflation pressure. Check your tire pressures frequently and adjust them to the proper pressure which can be found on the Safety Compliance Certification Label or Tire Label.

## Tires, Wheels and Loading

If you are checking tire pressure when the tire is hot, (i.e. driven more than 1 mile [1.6 km]), never “bleed” or reduce air pressure. The tires are hot from driving and it is normal for pressures to increase above recommended cold pressures. A hot tire at or below recommended cold inflation pressure could be significantly under-inflated.

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 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. Never “bleed” or reduce air pressure when tires are hot.

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 pushing 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 *T-Type/Mini-Spare Tire Information* section for description): Store and maintain at 60psi (4.15 bar). For Full Size and Dissimilar spare tires (see *Dissimilar Spare Tire/Wheel Information* section for description): Store and maintain at the higher of the front and rear inflation pressure as shown on Safety Compliance Certification Label or the Tire Label.

6. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.

7. Check the sidewalls to make sure there are no gouges, cuts or bulges.

### INFORMATION CONTAINED ON THE TIRE SIDEWALL

Both U.S. and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

## Tires, Wheels and Loading

### Information on “P” type tires

P215/65R15 95H is an example of a tire size, load index and speed rating. The definitions of these items are listed below. (Note that the tire size, load index and speed rating for your vehicle may be different from this example.)

1. **P:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that may be used for service on cars, SUVs, minivans and light trucks.

**Note:** If your tire size does not begin with a letter this may mean it is designated by either ETRTO (European Tire and Rim Technical Organization) or JATMA (Japan Tire Manufacturing Association).

2. **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.

3. **65:** Indicates the aspect ratio which gives the tire’s ratio of height to width.

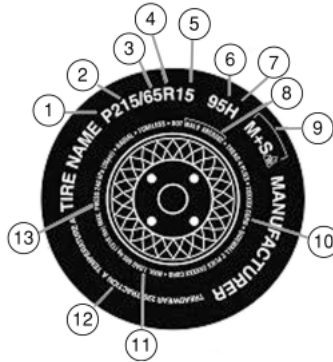
4. **R:** Indicates a “radial” type tire.

5. **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.

6. **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 Guide*. 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.

7. **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.



## Tires, Wheels and Loading

**Note:** You may not find this information on all tires because it is not required by federal law.

| Letter rating | Speed rating - mph (km/h) |
|---------------|---------------------------|
| M             | 81 mph (130 km/h)         |
| N             | 87 mph (140 km/h)         |
| Q             | 99 mph (159 km/h)         |
| R             | 106 mph (171 km/h)        |
| S             | 112 mph (180 km/h)        |
| T             | 118 mph (190 km/h)        |
| U             | 124 mph (200 km/h)        |
| H             | 130 mph (210 km/h)        |
| V             | 149 mph (240 km/h)        |
| W             | 168 mph (270 km/h)        |
| Y             | 186 mph (299 km/h)        |

**Note:** For tires with a maximum speed capability over 149 mph (240 km/h), tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 186 mph (299 km/h), tire manufacturers always use the letters ZR.

**8. U.S. DOT Tire Identification Number (TIN):** This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

**9. M+S or M/S:** Mud and Snow, or

**AT:** All Terrain, or

**AS:** All Season.

**10. 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.

**11. Maximum Load:** Indicates the maximum load in kilograms and pounds that can be carried by the tire. Refer to the Safety Compliance Certification Label, which is located on the B-Pillar or the edge of the driver's door, for the correct tire pressure for your vehicle.

## Tires, Wheels and Loading

### 12. Treadwear, Traction and Temperature Grades

- **Treadwear:** The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half ( $1\frac{1}{2}$ ) 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.

13. **Maximum Permissible Inflation Pressure:** Indicates the tire manufacturers' maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load, radial tubeless, etc.

## Tires, Wheels and Loading

### Additional information contained on the tire sidewall for “LT” type tires

“LT” type tires have some additional information beyond those of “P” type tires; these differences are described below:

1. **LT:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that is intended for service on light trucks.

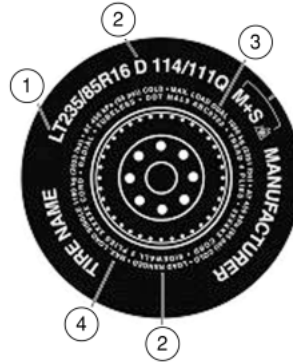
#### 2. Load Range/Load Inflation

**Limits:** Indicates the tire's load-carrying capabilities and its inflation limits.

#### 3. 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).

4. **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.



## Tires, Wheels and Loading

### Information on “T” type tires

“T” type tires have some additional information beyond those of “P” type tires; these differences are described below:

T145/80D16 is an example of a tire size.

**Note:** The temporary tire size for your vehicle may be different from this example.

1. **T:** Indicates a type of tire, designated by the Tire and Rim Association (T&RA), that is intended for temporary service on cars, SUVs, minivans and light trucks.

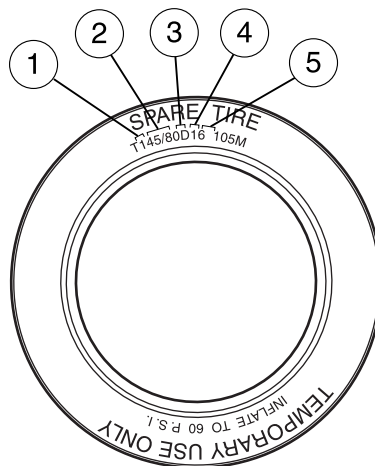
2. **145:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

3. **80:** Indicates the aspect ratio which gives the tire’s ratio of height to width. Numbers of 70 or lower indicate a short sidewall.

4. **D:** Indicates a “diagonal” type tire.

**R:** Indicates a “radial” type tire.

5. **16:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.



### Location of the tire label

You will find a Tire Label containing tire inflation pressure by tire size and other important information located on the B-Pillar or the edge of the driver's door. Refer to the payload description and graphic in the *Vehicle loading — with and without a trailer* section.

### TIRE CARE

#### Inspecting your tires

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

## Tires, Wheels and Loading

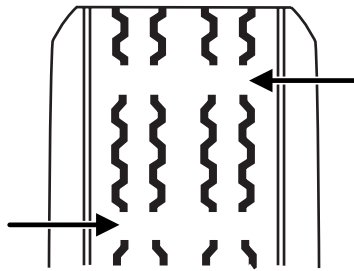
tread grooves. Check for holes or cuts that may permit air leakage from the tire and make necessary repairs. Also inspect the tire sidewalls for cracking, cuts, bruises and other signs of damage or excessive wear. If internal damage to the tire is suspected, have the tire demounted and inspected in case it needs to be repaired or replaced. For your safety, tires that are damaged or show signs of excessive wear should not be used because they are more likely to blow out or fail.

Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Inspect all your tires, including the spare, frequently, and replace them if one or more of the following conditions exist:

### Tire wear

When the tread is worn down to 1/16th of an inch (2 mm), tires must be replaced to help prevent your vehicle from skidding and hydroplaning. Built-in treadwear indicators, or “wear bars”, which look like narrow strips of smooth rubber across the tread will appear on the tire when the tread is worn down to 1/16th of an inch (2 mm).

When the tire tread wears down to the same height as these “wear bars”, the tire is worn out and must be replaced.



### Damage

Periodically inspect the tire treads and sidewalls for damage (such as bulges in the tread or sidewalls, cracks in the tread groove and separation in the tread or sidewall). If damage is observed or suspected have the tire inspected by a tire professional. Tires can be damaged during off-road use, so inspection after off-road use is also recommended.



### Age

Tires degrade over time, even when they are not being used. It is recommended that tires generally be replaced after 6 years of normal service. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process.

You should replace the spare tire when you replace the other road tires due to the aging of the spare tire.



## Tires, Wheels and Loading

### U.S. DOT Tire Identification Number (TIN)

Both U.S. and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

### Tire Replacement Requirements

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.



Only use replacement tires and wheels that are the same size and type (such as P-metric versus LT-metric or all-season versus all-terrain) as those originally provided by Ford. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. Additionally the use of non-recommended tires and wheels could cause steering, suspension, axle or transfer case/power transfer unit failure. If you have questions regarding tire replacement, see an authorized dealer.

**Important:** Remember to replace the wheel valve stems when the road tires are replaced on your vehicle.

It is recommended that the two front tires or two rear tires generally be replaced as a pair.

The tire pressure sensors mounted in the wheels (originally installed on your vehicle) are not designed to be used in aftermarket wheels.

The installation of replacement tires with steel cord body plies in the tire sidewall may cause malfunction of the Tire Pressure Monitoring System (TPMS), and is not recommended (cord material information is molded

## Tires, Wheels and Loading

on the tire sidewall). Additionally, if your vehicle was originally equipped with run-flat tires, replacing them with tires that are not identical to those originally fitted may cause malfunction of the TPMS, and is not recommended. Run-flat tires should not be used to replace regular tires. Always check your TPMS indicator immediately after replacing one or more tires on your vehicle. If the TPMS indicator is flashing, your TPMS is malfunctioning. Your replacement tire might be incompatible with your TPMS, or some component of the TPMS may be damaged.

### Safety practices

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



If your vehicle is stuck in snow, mud, sand, etc., **do not** rapidly spin the tires; spinning the tires can tear the tire and cause an explosion. A tire can explode in as little as three to five seconds.



Never spin the tires in excess of the 35 mph (55 km/h) point indicated on the speedometer.

### 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

## Tires, Wheels and Loading

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.

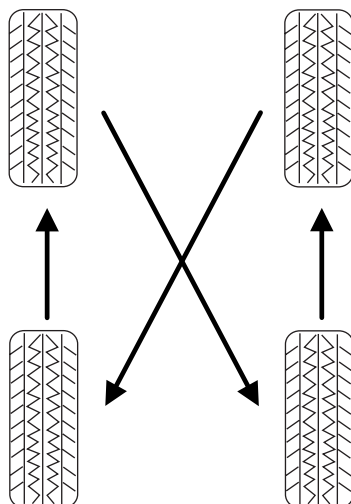
Wheel misalignment in the front or the rear can cause uneven and rapid treadwear of your tires and should be corrected by an authorized dealer. Front wheel drive (FWD) vehicles and those with an independent rear suspension (if equipped) may require alignment of all four wheels.

The tires should also be balanced periodically. An unbalanced tire and wheel assembly may result in irregular tire wear.

### Tire rotation

Rotating your tires at the recommended interval (as indicated in the *scheduled maintenance information* that comes with your vehicle) will help your tires wear more evenly, providing better tire performance and longer tire life. Unless otherwise specified, rotate the tires approximately every 5,000 miles (8,000 km).

- Rear Wheel Drive (RWD) vehicles/Four Wheel Drive (4WD)/ All Wheel Drive (AWD) vehicles (front tires at top of diagram)



Sometimes irregular tire wear can be corrected by rotating the tires.

**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.

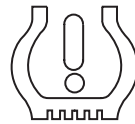
## Tires, Wheels and Loading

**Note:** Your vehicle may be equipped with a dissimilar spare tire/wheel. A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels. If you have a dissimilar spare tire/wheel it is intended for temporary use only and should not be used in a tire rotation.

**Note:** After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.

### TIRE PRESSURE MONITORING SYSTEM (TPMS)

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.

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.

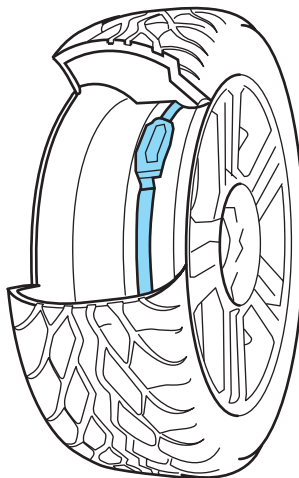


The Tire Pressure Monitoring System is NOT a substitute for manually checking tire pressure. The tire pressure should be checked periodically (at least monthly) using a tire gauge, see *Inflating your tires* in this chapter. Failure to properly maintain your tire pressure could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.

## Tires, Wheels and Loading

### Changing tires with TPMS

**Each road tire is equipped with a tire pressure sensor fastened to the inside rim of the wheel. The pressure sensor is covered by the tire and is not visible unless the tire is removed. The pressure sensor is located opposite (180 degrees) from the valve stem. Care must be taken when changing the tire to avoid damaging the sensor.** It is recommended that you always have your tires serviced by an authorized dealer.



The tire pressure should be checked periodically (at least monthly) using an accurate tire gauge, refer to *Inflating your tires* in this chapter.

When replacing valve caps, use the same nylon valve caps that came with your vehicle. Do not use chrome-plated valve caps because they may corrode to the valve stems and damage the TPMS sensors.

### Understanding your Tire Pressure Monitoring System (TPMS)

The Tire Pressure Monitoring System measures pressure in your four road tires and sends the tire pressure readings to your vehicle every minute while you are driving and once every 6 hours when your vehicle is parked. The Low Tire Warning Lamp will turn ON if the tire pressure is 25% below the pressure listed on the Safety Compliance Certification Label (approximately 6 to 9 psi below the manufacturer's recommended tire pressure). If the tire pressure increases 2 psi above the "Light ON" threshold, then the TPMS light will turn OFF. Once the light is illuminated, your tires are underinflated 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.

In short, once the light has turned ON, at least one tire may be underinflated.

## Tires, Wheels and Loading

### ***When your temporary spare tire is installed (if equipped)***

When one of your road tires needs to be replaced with the temporary spare (T-type spare/Mini spare or Dissimilar spare), the TPMS system will continue to identify an issue to remind you that the damaged road wheel/tire needs to be repaired and put back on your vehicle. During this time, the low tire warning light can periodically return or stay on, depending on the state of the damaged road wheel/tire. This will include messages from the message center (if equipped).

To restore the full functionality of the Tire Pressure Monitoring System, have the damaged road wheel/tire repaired and remounted on your vehicle. For additional information, refer to *Changing tires with TPMS* in this section.

### ***When you believe your system is not operating properly***

The main function of the Tire Pressure Monitoring System is to warn you when your tires need air. It can also warn you in the event the system is no longer capable of functioning as intended. Please refer to the following chart for information concerning your Tire Pressure Monitoring System:

## Tires, Wheels and Loading

| Low Tire Pressure Warning Light | Possible cause         | Customer Action Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solid Warning Light             | Tire(s) under-inflated | <p>1. Check your tire pressure to ensure tires are properly inflated; refer to <i>Inflating your tires</i> in this chapter. Ford Motor Company recommends the use of a digital or dial-type tire pressure gauge rather than a stick-type tire pressure gauge for increased accuracy.</p> <p>2. After inflating your tires to the manufacturer's recommended inflation pressure shown on the Safety Compliance Certification 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 will turn OFF.</p> |
|                                 | Spare tire in use      | Your temporary spare tire is in use. Repair the damaged road wheel/tire and reinstall it on the vehicle to restore system functionality. For a description on how the system functions, refer to <i>Changing Tires with TPMS</i> in this section.                                                                                                                                                                                                                                                                                                                                                      |
|                                 | TPMS malfunction       | If your tires are properly inflated and your spare tire is not in use and the light remains ON, have the system inspected by your authorized dealer.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Tires, Wheels and Loading

| Low Tire Pressure Warning Light                                                       | Possible cause    | Customer Action Required                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flashing Warning Light (flashes for a short time either at start-up or while driving) | Spare tire in use | Your temporary spare tire is in use. Repair the damaged road wheel and re-mount it on the vehicle to restore system functionality. For a description of how the system functions under these conditions, refer to <i>Changing tires with TPMS</i> in this section. |
|                                                                                       | TPMS malfunction  | If your tires are properly inflated and your spare tire is not in use and a flashing TPMS warning light is still ON, have the system inspected by your authorized dealer.                                                                                          |

### 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. Here are the details:

- The tire pressure sensors mounted in your wheels updates your vehicle with tire pressure information only once every minute, therefore 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 tire pressure.
- If your vehicle has been parked for over 30 minutes, the sensors go into a low power mode to conserve battery life and therefore only transmit about once every 6 hours. If you inflate your tires under these conditions, 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 tire pressure.

For these reasons, the low tire pressure warning light is NOT a substitute for using an accurate tire gauge when checking and filling your tires.

## Tires, Wheels and Loading

### ***How temperature affects your tire pressure***

The Tire Pressure Monitoring System (TPMS) monitors tire pressure in each pneumatic tire. The pressure in each tire is dependent upon several factors, one of them being the contained air temperature (temperature of the air inside the tire). As the contained air temperature increases, the tire pressure also increases. While driving in a normal manner, a typical passenger tire inflation pressure may increase approximately 2 to 4 psi (14 to 28 kPa) from a cold start situation. This increase in tire pressure is due to an increase in the contained air temperature. Contained air temperature is dependent upon several factors such as rate of tire rotation, tire deflection, amount of braking, etc. In a similar manner, the tire pressure will decrease if the contained air temperature decreases. For example, if the vehicle is stationary over night with the outside temperature significantly lower than the daytime temperature, the tire pressure may decrease approximately 3 psi (20.7 kPa) for a drop of 30° F (16.6° C) in ambient temperature. This lower pressure value may be detected by the TPMS as being significantly lower than the cold pressure indicated on your vehicles Safety Compliance Certification Label, and activate the TPMS warning for low tire pressure. If the low tire pressure warning light is ON, visually check each tire to verify that no tire is flat. If one or more tires are flat, repair as necessary. Check air pressure in the road tires. If any tire is underinflated, carefully drive the vehicle to the nearest location where air can be added to the tires. Turn the ignition to the OFF position. Inflate all the tires to the recommended inflation pressure.



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 an accurate 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.

### **USING SNOW TIRES AND TRACTION DEVICES**



Snow tires must be the same size and grade as the tires you currently have on your vehicle.



## Tires, Wheels and Loading

The tires on your vehicle have all-weather treads to provide traction in rain and snow. However, in some climates, using snow tires or traction devices may be necessary. Ford offers tire cables as a Ford approved accessory and recommends use of these or SAE class “S” tire cables. See your authorized dealer for more information on tire cables for your vehicle.

Follow these guidelines when using snow tires and traction devices:

- Cables or chains should only be used on the rear wheels.
- Install cables or chains securely, verifying that the cables or chains do not touch any wiring, brake lines or fuel lines.
- Drive cautiously. If you hear the cables or chains rub or bang against the vehicle, stop and retighten them. If this does not work, remove the cables or chains to prevent vehicle damage.
- Avoid overloading your vehicle.
- Remove the cables or chains when they are no longer needed.
- Do not use cables or chains on dry roads.
- Do not exceed 30 mph (48 km/h) with tire cables or chains on your vehicle.

Consult your authorized dealer for information on other Ford Motor Company approved methods of traction control.

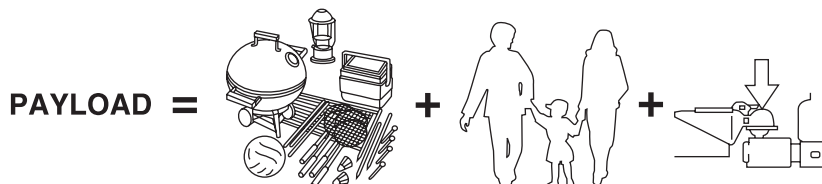
### VEHICLE LOADING – WITH AND WITHOUT A TRAILER

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle’s weight ratings, with or without a trailer, from the vehicle’s Tire Label or Safety Compliance Certification Label:

**Base Curb Weight** – is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

## Tires, Wheels and Loading

**Vehicle Curb Weight** – is the weight of your new vehicle when you picked it up from your authorized dealer plus any aftermarket equipment.



**Payload** – is the combined weight of cargo and passengers that the vehicle is carrying. The maximum payload for your vehicle can be found on the Tire Label on the B-Pillar or the edge of the driver's door (vehicles exported outside the US and Canada may not have a Tire Label). Look for **“THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED XXX kg OR XXX lb.”** for maximum payload. The payload listed on the Tire Label is the maximum payload for the vehicle as built by the assembly plant. If any aftermarket or authorized-dealer installed equipment has been installed on the vehicle, the weight of the equipment must be subtracted from the payload listed on the Tire Label in order to determine the new payload.



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.



## Tires, Wheels and Loading

Example only:

| TIRE AND LOADING INFORMATION                                                        |                          |                                    |                                              |
|-------------------------------------------------------------------------------------|--------------------------|------------------------------------|----------------------------------------------|
| SEATING CAPACITY                                                                    |                          | TOTAL 5                            | FRONT 2 REAR 3                               |
| The combined weight of occupants and cargo should never exceed : XXX kg or XXX lbs. |                          |                                    |                                              |
| TIRE                                                                                | SIZE                     | COLD TIRE PRESSURE                 | SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION |
| FRONT                                                                               | LT225/75R 16.5E          | 200 KPA, 29 PSI                    |                                              |
| REAR                                                                                | LT225/75R 16.5E          | 200 KPA, 29 PSI                    |                                              |
| SPARE                                                                               | T145/80D16<br>P225/60R17 | 420 KPA, 60 PSI<br>200 KPA, 29 PSI |                                              |

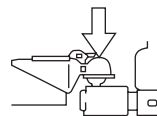
| TIRE AND LOAD INFORMATION                                                                                                                                   |                          |                                     |                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| SEATING CAPACITY                                                                                                                                            |                          | TOTAL XX                            | FRONT XX REAR X                                                                                                      |
| NOMBRE DE PLACES                                                                                                                                            |                          | TOTAL XX                            | AVANT XX ARRIERE X                                                                                                   |
| The combined weight of occupants and cargo should never exceed : XXX kg.<br>La charge du véhicule (occupants et bagages) ne doit jamais dépasser : XXX lbs. |                          |                                     |                                                                                                                      |
| TIRE PNEUS                                                                                                                                                  | SIZE DIMENSIONS          | COLD TIRE PRESSURE PRESSION A FROID | SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION<br>CONSULTER LE GUIDE DU PROPRIETAIRE POUR DE PLUS AMPLES RESEIGNEMENTS |
| FRONT/ AVANT                                                                                                                                                | LT225/75R 16.5E          | 200 KPA, 29 PSI                     |                                                                                                                      |
| REAR/ ARRIERE                                                                                                                                               | LT225/75R 16.5E          | 200 KPA, 29 PSI                     |                                                                                                                      |
| SPARE/ PNEU DE SECOURS                                                                                                                                      | T145/80D16<br>P225/60R17 | 420 KPA, 60 PSI<br>200 KPA, 29 PSI  |                                                                                                                      |

CARGO

=



+



**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.

200

2006 Explorer (exp)  
Owners Guide (post-2002-fmt)  
USA (fus)

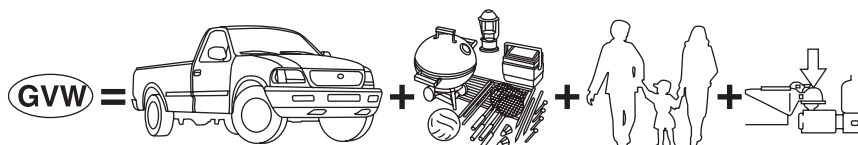
## Tires, Wheels and Loading

**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 located on the B-Pillar or the edge of the driver's door. The total load on each axle must never exceed its GAWR.**



Exceeding the Safety Compliance Certification Label axle 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.

**Note:** For trailer towing information refer to *Trailer towing* found in this chapter or the *RV and Trailer Towing Guide* provided by your authorized dealer.



**GVW (Gross Vehicle Weight)** – is the Vehicle Curb Weight + cargo + passengers.

## Tires, Wheels and Loading

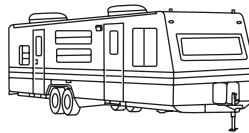
**GVWR (Gross Vehicle Weight Rating)** – is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label located on the B-Pillar or the edge of the driver's door. The GVW must never exceed the GVWR.**

| MFD. BY FORD MOTOR CO.                                                                                                                                |        |                        |    |                   |     |             |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|----|-------------------|-----|-------------|---------|
| DATE: XX/XX                                                                                                                                           |        | GVWR: XXXXXLB/ XXXXXKG |    |                   |     |             |         |
| FRONT GAWR: XXXXL                                                                                                                                     |        | WITH XXXXKG            |    | REAR GAWR: XXXXLB |     | WITH XXXXKG |         |
| XXXXXX                                                                                                                                                |        | TIRES XXXXX            |    | XXXXXX            |     | TIRES XXXXX |         |
| XXXXXX                                                                                                                                                |        | RIMS XXXX              |    | XXXXXX            |     | RIMS XXXX   |         |
| AT XXX kPa/XX                                                                                                                                         |        | PSI COLD               |    | AT XXX kPa/XX     |     | PSI COLD    |         |
| THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. |        |                        |    |                   |     |             |         |
| VIN: XXXXXXXXXXXXXXXX                                                                                                                                 |        |                        |    |                   |     | XXXXX       |         |
| TYPE: XXX                                                                                                                                             |        |                        |    |                   |     | XXXXX       |         |
|                                                                     |        |                        |    |                   |     |             |         |
| EXT PNT: XX                                                                                                                                           |        | RC: XX                 |    | DSO: XXXXX        |     |             |         |
| WB ' BRK                                                                                                                                              | INT TR | 'TP/PS                 | 'R | 'AXLE             | 'TR | SPR         | ' XXXXX |
| XXX X                                                                                                                                                 | XX     | X                      | XX | X                 | XX  | XXX         | XXX     |
| XXXXXXXXXXXXX XXX XXXX-XXXXXX-XX                                                                                                                      |        |                        |    |                   |     |             |         |



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.

$$\text{GCW} = \text{GVW} +$$



**GCW (Gross Combined Weight)** – is the weight of the loaded vehicle (GVW) plus the weight of the fully loaded trailer.

**GCWR (Gross Combined Weight Rating)** – is the maximum allowable weight of the vehicle and the loaded trailer – including all cargo and passengers – that the vehicle can handle without risking damage. (Important: The towing vehicle's braking system is rated for operation at GVWR, not at GCWR.) Separate functional brakes should be used for safe control of towed vehicles and for trailers where the GCW of the towing vehicle plus the trailer exceed the GVWR of the towing vehicle. **The GCW must never exceed the GCWR.**

## Tires, Wheels and Loading

**Maximum Loaded Trailer Weight** – is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with only mandatory options, no cargo (internal or external), a tongue load of 10–15% (conventional trailer) or king pin weight of 15–25% (fifth wheel trailer), and driver only (150 lb. [68 kg]). **Consult your authorized dealer (or the *RV and Trailer Towing Guide* provided by your authorized dealer) for more detailed information.**

**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 5,000 lb. (2,268 kg) conventional trailer, multiply 5,000 by 0.10 and 0.15 to obtain a proper tongue load range of 500 to 750 lb. (227 to 340 kg). For an 11,500 lb. (5,216 kg) fifth wheel trailer, multiply by 0.15 and 0.25 to obtain a proper king pin load range of 1,725 to 2,875 lb. (782 to 1,304 kg)



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 originals because they may lower the vehicle's GVWR and GAWR limitations. Replacement tires with a higher limit than the originals 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 lbs.” on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400–750 (5 x 150) = 650 lb.). In metric units (635–340 (5 x 68) = 295 kg.)



## Tires, Wheels and Loading

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

The following gives you a few examples on how to calculate the available amount of cargo and luggage load capacity:

- Another example for your vehicle with 1400 lb. (635 kg) of cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, 4 of your friends and all the golf bags? You and four friends average 220 lb. (99 kg) each and the golf bags weigh approximately 30 lb. (13.5 kg) each. The calculation would be:  $1400 - (5 \times 220) - (5 \times 30) = 1400 - 1100 - 150 = 150$  lb. Yes, you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be:  $635 \text{ kg} - (5 \times 99 \text{ kg}) - (5 \times 13.5 \text{ kg}) = 635 - 495 - 67.5 = 72.5$  kg.
- A final example for your vehicle with 1400 lb. (635 kg) of cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past 2 years. Measuring the inside of the vehicle with the rear seat folded down, you have room for 12-100 lb. (45 kg) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 lb. (99 kg), the calculation would be:  $1400 - (2 \times 220) - (12 \times 100) = 1400 - 440 - 1200 = -240$  lb. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be:  $635 \text{ kg} - (2 \times 99 \text{ kg}) - (12 \times 45 \text{ kg}) = 635 - 198 - 540 = -103$  kg. You will need to reduce the load weight by at least 240 lb. (104 kg). If you remove 3-100 lb. (45 kg) cement bags, then the load calculation would be:  
 $1400 - (2 \times 220) - (9 \times 100) = 1400 - 440 - 900 = 60$  lb. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be:  $635 \text{ kg} - (2 \times 99 \text{ kg}) - (9 \times 45 \text{ kg}) = 635 - 198 - 405 = 32$  kg.

The above calculations also assume that the loads are positioned in your vehicle in a manner that does not overload the Front or the Rear Gross Axle Weight Rating specified for your vehicle on the Safety Compliance Certification Label found on the edge of the driver's door.

## Tires, Wheels and Loading

### Special loading instructions for owners of pickup trucks and utility-type vehicles



For important information regarding safe operation of this type of vehicle, see the *Preparing to drive your vehicle* section in the *Driving* chapter of this *Owner's Guide*.



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.

### Calculating the load your vehicle can carry/tow

1. Use the appropriate maximum GCWR chart (in the *Trailer towing* section in this chapter) for your type of engine and rear axle ratio.
2. Weigh your vehicle without cargo. To obtain correct weights, take your vehicle to a shipping company or an inspection station for trucks.
3. Subtract your loaded weight from the maximum GCWR in the chart. This is the maximum trailer weight your vehicle can tow. It must be below the maximum trailer weight shown in the chart.

### TRAILER TOWING

Trailer towing with your vehicle may require the use of a trailer tow option package.

Trailer towing puts additional loads on your vehicle's engine, transmission, axle, brakes, tires, and suspension. For your safety and to maximize vehicle performance, be sure to use the proper equipment while towing.



## Tires, Wheels and Loading

Follow these guidelines to ensure safe towing procedure:

- Stay within your vehicle's load limits.
- Thoroughly prepare your vehicle for towing. Refer to *Preparing to tow* in this chapter.
- Use extra caution when driving while trailer towing. Refer to *Driving while you tow* in this chapter.
- Service your vehicle more frequently if you tow a trailer. Refer to the severe duty schedule in the *scheduled maintenance information*.
- Do not tow a trailer until your vehicle has been driven at least 500 miles (800 km).
- Refer to the instructions included with towing accessories for the proper installation and adjustment specifications.

Do not exceed the maximum loads listed on the Safety Compliance Certification label. For load specification terms found on the label, refer to *Vehicle loading* in this chapter when figuring the total weight of your vehicle.

Your vehicle is equipped with a standard Class II integrated hitch and requires only a draw bar and ball with a 19 mm (3/4 inch) shank diameter. An optional Class III/Class IV hitch is also available.

**Note:** 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.



## Tires, Wheels and Loading

| 4x2                                                                                                                                                                                                                                                                                                                                                                                          |                 |                       |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-------------------------------------------|
| GCWR (Gross Combined Weight Rating)/Trailer Weight                                                                                                                                                                                                                                                                                                                                           |                 |                       |                                           |
| Engine                                                                                                                                                                                                                                                                                                                                                                                       | Rear axle ratio | Maximum GCWR-lb. (kg) | Trailer weight range-lb. (kg) (0-Maximum) |
| 4.0L SOHC Class II towing                                                                                                                                                                                                                                                                                                                                                                    | 3.55            | 8500 (3856)           | 0-3500 (0-1588)                           |
| 4.6L* Class II towing                                                                                                                                                                                                                                                                                                                                                                        | 3.55            | 8500 (3856)           | 0-3500 (0-1588)                           |
| 4.0L SOHC Class III/IV towing                                                                                                                                                                                                                                                                                                                                                                | 3.73            | 10000 (4536)          | 0-5390 (0-2444)                           |
| 4.6L* Class III/IV towing                                                                                                                                                                                                                                                                                                                                                                    | 3.55            | 12000 (5443)          | 0-7300 (0-3311)                           |
| <b>Notes:</b> - For high altitude operation, reduce GCW by 2% per 1,000 ft. (300 meters) elevation. For definitions of terms used in this table and instructions on how to calculate your vehicle load, refer to <i>Vehicle loading</i> in this chapter. Maximum trailer weights shown. The combined weight of the completed towing vehicle and the loaded trailer must not exceed the GCWR. |                 |                       |                                           |
| * -When towing maximum loads under high outside temperatures and on steep grades, the A/C system may cycle on and off to protect the engine from overheating. This may result in a temporary increase of interior temperatures.                                                                                                                                                              |                 |                       |                                           |

## Tires, Wheels and Loading

| 4WD                                                                                                                                                                                                                                                                                                                                                                                         |                 |                       |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-------------------------------------------|
| GCWR (Gross Combined Weight Rating)/Trailer Weight                                                                                                                                                                                                                                                                                                                                          |                 |                       |                                           |
| Engine                                                                                                                                                                                                                                                                                                                                                                                      | Rear axle ratio | Maximum GCWR-lb. (kg) | Trailer weight range-lb. (kg) (0-Maximum) |
| 4.0L SOHC Class II towing                                                                                                                                                                                                                                                                                                                                                                   | 3.55            | 8500 (3856)           | 0-3500 (0-1588)                           |
| 4.6L* Class II towing                                                                                                                                                                                                                                                                                                                                                                       | 3.55            | 8500 (3856)           | 0-3500 (0-1588)                           |
| 4.0L SOHC Class III/IV towing                                                                                                                                                                                                                                                                                                                                                               | 3.73            | 10000 (4536)          | 0-5210 (0-2363)                           |
| 4.6L* Class III/IV towing                                                                                                                                                                                                                                                                                                                                                                   | 3.55            | 12000 (5443)          | 0-7120 (0-3330)                           |
| <b>Notes:</b> - For high altitude operation, reduce GCW by 2% per 1,000 ft. (300 meters) elevation. For definitions of terms used in this table and instructions on how to calculate your vehicle load, refer to <i>Vehicle loading</i> in this chapter. Maximum trailer weights shown. The combined weight of the completed towing vehicle and the loaded trailer must not exceed the GCWR |                 |                       |                                           |
| * -When towing maximum loads under high outside temperatures and/or on steep grades, the A/C system may cycle on and off to protect the engine from overheating. This may result in a temporary increase of interior temperatures.                                                                                                                                                          |                 |                       |                                           |

### Preparing to tow

Use the proper equipment for towing a trailer and make sure it is properly attached to your vehicle. See your authorized dealer or a reliable trailer dealer if you require assistance.

### Hitches

Do not use hitches that clamp onto the vehicle bumper. Use a load carrying hitch. You must distribute the load in your trailer so that 10-15% of the total weight of the trailer is on the tongue, not to exceed the maximum tongue loads as stated:

- Class II receiver: 350 lb. (159 kg)
- Class III/IV receiver: 500 lb. (227 kg) (weight carrying); 740 lb. (336 kg) (weight distributing)

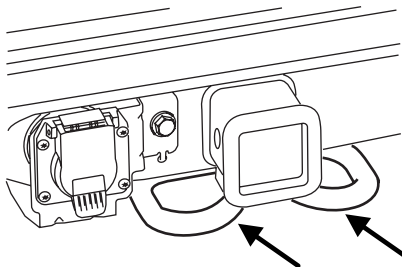
## Tires, Wheels and Loading

### Safety chains

Always connect the trailer's safety chains to the frame or hook retainers of the vehicle hitch. To connect the trailer's safety chains, cross the chains under the trailer tongue and allow slack for turning corners.

If you use a rental trailer, follow the instructions that the rental agency gives to you.

Class III Trailer Hitch Safety Chain  
Loops can be used as recovery hooks.



**Do not attach safety chains to the bumper.**

### Trailer brakes

Electric brakes and manual, automatic or surge-type trailer brakes are safe if installed properly and adjusted to the manufacturer's specifications. The trailer brakes must meet local and Federal regulations.



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.

The braking system of the tow vehicle is rated for operation at the GVWR not GCWR.

### Trailer lamps

Trailer lamps are required on most towed vehicles. Make sure all running lights, brake lights, turn signals and hazard lights are working. See your authorized dealer or trailer rental agency for proper instructions and equipment for hooking up trailer lamps.



Never connect any trailer lighting to the vehicle's taillamp circuits, because it may damage the electrical system resulting in fire. Contact your authorized dealer for assistance in proper trailer tow wiring installation. Additional electrical equipment may be required.



## Tires, Wheels and Loading

### Driving while you tow

When towing a trailer:

- Keep your speed no faster than 70 mph (112 km/h) during the first 500 miles (800 km) of towing a trailer, and don't make full throttle starts.
- Turn off the speed control. The speed control may shut off automatically when you are towing on long, steep grades.
- Consult your local motor vehicle speed regulations for towing a trailer.
- To eliminate excessive shifting, use a lower gear. This will also assist in transmission cooling. (For additional information, refer to the *Driving with an automatic transmission* section in the *Driving* chapter.)
- Under extreme conditions with large frontal trailers, high outside temperatures and highway speeds, the coolant gauge may indicate higher than normal coolant temperatures. If this occurs, reduce speed until the coolant temperature returns to the normal range. Refer to *Engine coolant temperature gauge* in the *Instrument Cluster* chapter.
- Anticipate stops and brake gradually.
- Do not exceed the GCWR rating or transmission damage may occur.

### Servicing after towing

If you tow a trailer for long distances, your vehicle will require more frequent service intervals. Refer to your *Scheduled Maintenance Information* for more information.

### Trailer towing tips

- Practice turning, stopping and backing up before starting on a trip to get the feel of the vehicle trailer combination. When turning, make wider turns so the trailer wheels will clear curbs and other obstacles.
- Allow more distance for stopping with a trailer attached.
- If you are driving down a long or steep hill, shift to a lower gear. Do not apply the brakes continuously, as they may overheat and become less effective.
- The trailer tongue weight should be 10–15% of the loaded trailer weight.

## Tires, Wheels and Loading

- If you will be towing a trailer frequently in hot weather, hilly conditions, at GCW, or any combination of these factors, consider refilling your rear axle with synthetic gear lube if not already so equipped. Refer to the *Maintenance and Specifications* chapter for the lubricant specification. Remember that regardless of the rear axle lube used, do not tow a trailer for the first 500 miles (800 km) of a new vehicle, and that the first 500 miles (800 km) of towing be done at no faster than 70 mph (112 km/h) with no full throttle starts.
- After you have traveled 50 miles (80 km), thoroughly check your hitch, electrical connections and trailer wheel lug nuts.
- To aid in engine/transmission cooling and A/C efficiency during hot weather while stopped in traffic, place the gearshift lever in P (Park).
- Vehicles with trailers should not be parked on a grade. If you must park on a grade, place wheel chocks under the trailer's wheels.

### Launching or retrieving a boat

**Disconnect the wiring to the trailer before backing the trailer into the water. 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 cm) 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 any time the axle has been submerged in water. Rear axle lubricant quantities are not to be checked or changed unless a leak is suspected or repair required.

## Tires, Wheels and Loading

### RECREATIONAL TOWING (ALL WHEELS ON THE GROUND)

Follow these guidelines for your specific powertrain combination to tow your vehicle with all four wheels on the ground (such as behind a recreational vehicle).

These guidelines are designed to ensure that your transmission is not damaged due to insufficient lubrication.

#### **Rear Wheel Drive (RWD) 4x2 vehicles:**

This applies to all 4x2 trucks/sport utilities with rear wheel drive capability.

- Place the transmission in N (Neutral).
- Maximum speed is 35 mph (56 km/h).
- Maximum distance is 50 miles (80 km).

If a distance of 50 miles (80 km) or a speed of 35 mph (56 km/h) must be exceeded, you must disconnect the driveshaft. Ford recommends the driveshaft be removed/installed only by a qualified technician at an authorized dealer. See your authorized dealer for driveshaft removal/installation.

**Improper removal/installation of the driveshaft can cause transmission fluid loss, damage to the driveshaft and internal transmission components.**

#### **4WD vehicles with electronic shift transfer case (Neutral tow kit accessory):**

On vehicles equipped with 4WD, an accessory is available that allows you to tow your vehicle, behind another vehicle, with all the wheels on the ground. Contact your authorized dealer for more details. Do not tow your vehicle with all wheels on the ground unless you install the neutral tow kit as vehicle damage may occur.

### STARTING

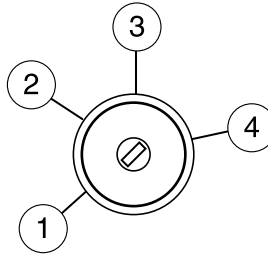
#### Positions of the ignition

1. OFF/LOCK, shuts off the engine and all accessories/locks the steering wheel, gearshift lever and allows key removal.

2. ACC, allows the electrical accessories such as the radio to operate while the engine is not running. This position also unlocks the steering wheel.

3. ON, all electrical circuits operational. Warning lights illuminated. Key position when driving.

4. START, cranks the engine. Release the key as soon as the engine starts.



#### Important safety precautions

When the engine starts, the idle RPM runs faster to warm the engine. If the engine idle speed does not slow down automatically, have the vehicle checked.

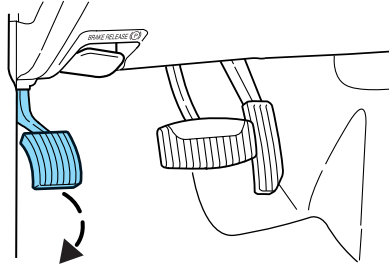
If the vehicle is operated in a heavy snow storm or blowing snow conditions, the engine air induction may become partially clogged with snow and/or ice. If this occurs the engine may experience a significant reduction in power output. At the earliest opportunity, clear all snow and/or ice away for the air induction inlet.

Before starting the vehicle:

1. Make sure all occupants buckle their safety belts. For more information on safety belts and their proper usage, refer to the *Seating and Safety Restraints* chapter.
2. Make sure the headlamps and electrical accessories are off.

## Driving

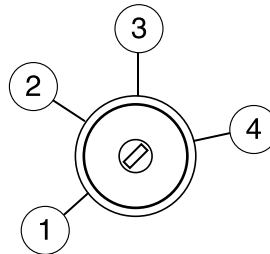
- Make sure the parking brake is set.



- Make sure the gearshift is in P (Park).

**P RND321**

3. Turn the key to 3 (ON) without turning the key to 4 (START).



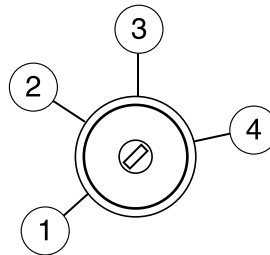
Some warning lights will briefly illuminate. See *Warning lights and chimes* in the *Instrument Cluster* chapter for more information regarding the warning lights.

### Starting the engine

1. Turn the key to 3 (ON) without turning the key to 4 (START). If there is difficulty in turning the key, rotate the steering wheel until the key turns freely. This condition may occur when:

- the front wheels are turned
- a front wheel is against the curb

2. Turn the key to 4 (START), then release the key as soon as the engine starts. Excessive cranking could damage the starter.



## Driving

**Note:** If the engine does not start within five seconds on the first try, turn the key to OFF, wait 10 seconds and try again. If the engine still fails to start, press the accelerator to the floor and try again; this will allow the engine to crank with the fuel shut off in case the engine is flooded with fuel.

### Guarding against exhaust fumes

Carbon monoxide is present in exhaust fumes. Take precautions to avoid its dangerous effects.



If you smell exhaust fumes inside your vehicle, have your dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

### Important ventilating information

If the engine is idling while the vehicle is stopped for a long period of time, open the windows at least one inch (2.5 cm) or adjust the heating or air conditioning to bring in fresh air.

### USING THE ENGINE BLOCK HEATER (IF EQUIPPED)

An engine block heater warms the engine coolant which aids in starting and heater/defroster performance. Use of an engine block heater is strongly recommended if you live in a region where temperatures reach -10°F (-23°C) or below. For best results, plug the heater in at least three hours before starting the vehicle. The heater can be plugged in the night before starting the vehicle.



To reduce the risk of electrical shock, do not use your heater with ungrounded electrical systems or two-pronged (cheater) adapters.

## BRAKES

Occasional brake noise is normal. If a metal-to-metal, continuous grinding or continuous squeal sound is present, the brake linings may be worn-out and should be inspected by an authorized dealer. If the vehicle has continuous vibration or shudder in the steering wheel while braking, the vehicle should be inspected by an authorized dealer.

## Driving

Refer to *Brake system warning light* in the *Instrument Cluster* chapter for information on the brake system warning light.



### Four-wheel anti-lock brake system (ABS)

Your vehicle is equipped with an Anti-lock Braking System (ABS). This system helps you maintain steering control during emergency stops by keeping the brakes from locking. Noise from the ABS pump motor and brake pedal pulsation may be observed during ABS braking and the brake pedal may suddenly travel a little farther as soon as ABS braking is done and normal brake operation resumes. These are normal characteristics of the ABS and should be no reason for concern.

#### ABS warning lamp

The ABS lamp in the instrument cluster momentarily illuminates when the ignition is turned on. If the light does not illuminate during start up, remains on or flashes, the ABS may be disabled and may need to be serviced.

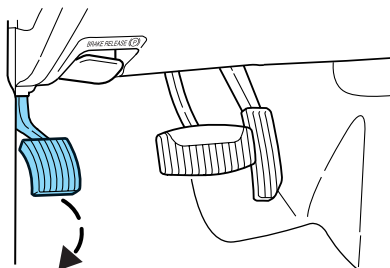


Even when the ABS is disabled, normal braking is still effective. (If your BRAKE warning lamp illuminates with the parking brake released, have your brake system serviced immediately.)



### Parking brake

Apply the parking brake whenever the vehicle is parked. To set the parking brake, press the parking brake pedal down until the pedal stops.



## Driving

The BRAKE warning lamp in the instrument cluster illuminates and remains illuminated (when the ignition is turned ON) until the parking brake is released.



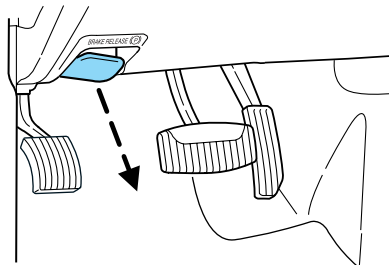
Always set the parking brake fully and make sure that the gearshift is securely latched in P (Park).



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.

The parking brake is not recommended to stop a moving vehicle. However, if the normal brakes fail, the parking brake can be used to stop your vehicle in an emergency. Since the parking brake applies only the rear brakes, the vehicle's stopping distance will increase greatly and the handling of your vehicle will be adversely affected.

Pull the release lever to release the brake. Driving with the parking brake on will cause the brakes to wear out quickly and reduce fuel economy.



### **ADVANCETRAC® WITH ROLL STABILITY CONTROL™ (RSC) STABILITY ENHANCEMENT SYSTEM**

The AdvanceTrac® with RSC system provides stability enhancement features such as Roll Stability Control™ (RSC), Electronic Stability Control (ESC) and Traction Control (TCS) for certain driving situations. The system includes an AdvanceTrac® with RSC on/off button, and a “sliding car” icon in the instrument cluster.

## Driving

Some drivers may notice a slight movement of the brake pedal when the AdvanceTrac® with RSC performs a system self-check. During AdvanceTrac® with RSC operation you may experience the following:

- A rumble, grunting, or grinding noise after startup and when driving off
- A slight deceleration of the vehicle
- The AdvanceTrac® with RSC indicator light will flash when the system is activated.
- If your foot is on the brake pedal, you will feel a vibration in the pedal.
- If the driving condition is severe and your foot is not on the brake, the brake pedal will move to apply higher brake forces. You may also hear a whoosh of air from under the instrument panel during this severe condition.

### Traction Control

Traction Control helps your vehicle maintain traction, when driving on slippery and/or hilly road surfaces, by detecting and controlling wheel spin. Excessive wheel spin is controlled by momentarily reducing engine power and/or applying the anti-lock brakes. Traction Control is a driver aid that helps your vehicle.

If your vehicle should become stuck in deep snow or mud, try switching the AdvanceTrac® with RSC system off by pressing the AdvanceTrac® with RSC button momentarily. This will allow your tires to “dig” for traction.

If the AdvanceTrac® with RSC system is activated excessively in a short period of time, the brake portion of the system will disable to allow the brakes to cool down. In this situation, Traction Control will use only engine power reduction to help control the wheels from over-spinning. When the brakes have cooled down, the system will again function normally. Anti-lock braking, RSC and ESC are not affected by this condition and will function normally during the cool-down period.

If the vehicle is stuck in snow or mud or when driving in deep sand, switching off the AdvanceTrac with RSC system may be beneficial so the wheels are allowed to spin. If your vehicle seems to lose engine power while driving in deep sand or very deep snow, switching off the AdvanceTrac with RSC stability enhancement feature will restore full engine power and will enhance momentum through the obstacle.

During Traction Control events the “sliding car” icon in the instrument cluster will flash momentarily.

### **Electronic Stability Control (ESC)**

The Electronic Stability Control (ESC) with RSC system may enhance your vehicle's stability during adverse maneuvers.

The AdvanceTrac® with RSC system helps the driver maintain steering control. AdvanceTrac® with RSC will attempt to correct the vehicle motion by applying brake force at individual tires and, if necessary, by reducing engine power.

During Electronic Stability Control events the “sliding car” icon in the instrument cluster will flash momentarily.

Driving maneuvers which may activate AdvanceTrac® with RSC system include:

- Taking a turn too fast.
- Maneuvering quickly to avoid an accident, pedestrian or obstacle.
- Driving over a patch of ice.
- Changing lanes on a snow-rutted road.
- Entering a snow-free road from a snow-covered side street, or vice versa.
- Entering a paved road from a gravel road, or vice versa.
- Driving on slick surfaces.
- Cornering while towing a heavily loaded trailer (refer to *Trailer towing* in the *Tires, Wheels and Loading* chapter.)

### **Roll Stability Control™ (RSC)**

The RSC system works in conjunction with the AdvanceTrac® system to help maintain roll stability of the vehicle during aggressive maneuvers by applying brake force to one or more wheels.

During Roll Stability Control™ (RSC) events the “sliding car” icon in the instrument cluster will flash momentarily.

Driving conditions that may activate AdvanceTrac® with RSC include:

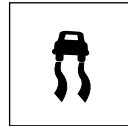
- Emergency lane-change
- Taking a turn too fast
- Quick maneuvering to avoid an accident, pedestrian or obstacle

## Driving

### **AdvanceTrac® with RSC button and icon functionality**

The AdvanceTrac® with RSC system automatically turns on each time the engine is started, even if it was turned off when the engine was last shut down. The “sliding car” icon which is located with the warning lights in the instrument cluster will illuminate during bulb check at initial start-up and then go off. This tells you that the system is normal and active. All functions of the AdvanceTrac® with RSC (RSC, ESC, Engine Traction Control, and Brake Traction Control) will be activated at start up. When the system is left active, the “sliding car” icon will flash only when any of the components of the system are affecting the vehicles performance, otherwise the light will remain off. Consequently, the “sliding car” icon will not be illuminated during most of your normal driving.

The AdvanceTrac® with RSC button, located on the center stack of the instrument panel, allows the driver to control certain features of the AdvanceTrac® with RSC system below 25 mph (40 km/h). If the



vehicle is below 25 mph (40 km/h), momentarily pressing the AdvanceTrac® with RSC button will disable RSC, ESC and Engine Traction Control and steadily illuminate the “sliding car” icon. Pressing and holding the AdvanceTrac® with RSC button for more than five seconds will further disable the brake portion of the Traction Control feature and the “sliding car” icon will flash momentarily and then illuminate steady.

If the vehicle is above 25 mph (40 km/h), momentarily pressing the AdvanceTrac® with RSC button will steadily illuminate the “sliding car” icon, however, the AdvanceTrac® with RSC system will remain enabled until the vehicle speed drops below 25 mph. If the vehicle speed decreases below 25 mph (40 km/h), the system will become deactivated, but if the vehicle speed subsequently increases to above 25 mph (40 km/h), the system will again become active. In general, the system will be active at all times the vehicle speed is above 25 mph (40 km/h).

In R (Reverse), ABS and the Traction Control feature will continue to function, however ESC and RSC are disabled.

All these conditions are normal during AdvanceTrac® with RSC operation. Refer to the following table.

220

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Driving

| AdvanceTrac® with RSC Features                 |                                |                                 |                                 |                                 |                                 |
|------------------------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Button functions                               | “Sliding car” icon             | RSC                             | ESC                             | Engine Traction Control         | Brake Traction Control          |
| Default at start-up                            | Illuminated during bulb check  | Enabled                         | Enabled                         | Enabled                         | Enabled                         |
| Button pressed momentarily                     | Illuminated solid              | Disabled below 25 mph (40 km/h) | Disabled below 25 mph (40 km/h) | Disabled below 25 mph (40 km/h) | Enabled                         |
| Button pressed and held more than five seconds | Flashes then illuminated solid | Disabled below 25 mph (40 km/h) | Disabled below 25 mph (40 km/h) | Disabled below 25 mph (40 km/h) | Disabled below 25 mph (40 km/h) |



Do not alter or modify your vehicle's suspension or steering; the resulting changes to the vehicle's handling can adversely affect the AdvanceTrac® with RSC system.



Aggressive driving in any road conditions can cause you to lose control of your vehicle increasing the risk of severe personal injury or property damage. The occurrence of a AdvanceTrac® with RSC event is an indication that at least some of the tires have exceeded their ability to grip the road; this may lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. If you experience a severe road event, SLOW DOWN.

If a failure is detected in the AdvanceTrac® with RSC system, and the AdvanceTrac® with RSC button has not been pushed, the warning indicator light in the instrument cluster will stay on. If the warning indicator light in the instrument cluster remains on while the engine is running, have the system serviced by an authorized dealer immediately.

### STEERING

To 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

## Driving

- 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 the noise is excessive, check for low power steering pump fluid level before seeking service by your authorized dealer.
- Heavy or uneven steering efforts may be caused by low power steering pump fluid level. Check for low power steering pump fluid level before seeking service by your authorized 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. 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 steering alignment

A high crown in the road or high crosswinds may also make the steering seem to wander/pull.

### PREPARING TO DRIVE



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



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

Your vehicle has larger tires and increased ground clearance, giving the vehicle a higher center of gravity than a passenger car.



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.

## Driving

 Loaded vehicles, with a higher center of gravity, 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.

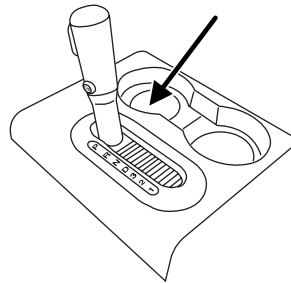
### AUTOMATIC TRANSMISSION OPERATION

#### Brake-shift interlock

This vehicle is equipped with a brake-shift interlock feature that prevents the gearshift lever from being moved from P (Park) when the ignition is in the ON position unless brake pedal is depressed.

If you cannot move the gearshift lever out of P (Park) with ignition in the ON position and the brake pedal depressed:

1. Apply the parking brake, turn ignition key to LOCK, then remove the key.
2. Remove the rubber pad at the bottom of the cup holder to locate the access cap of the floor shifter assembly.
3. Using a screwdriver (or equivalent), remove the access panel and depress the shifter lever on the shift mechanism.



4. Apply the brake and shift into N (Neutral).
  5. Return the cover plug to the console access hole. Start the vehicle.
- If it is necessary to use the above procedure to move the gearshift lever, it is possible that a fuse has blown or the vehicle's brakelamps are not operating properly. Refer to *Fuses and relays* in the *Roadside Emergencies* chapter.

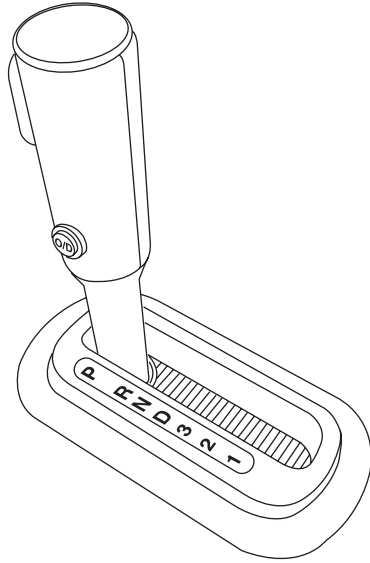
 Do not drive your vehicle until you verify that the brakelamps are working.

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

## Driving

 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.

### Driving with a 5-speed automatic transmission (if equipped)



This vehicle is equipped with an Adaptive Transmission Control Strategy. This Adaptive Transmission Control Strategy offers the optimal transmission operation and shift quality. When the vehicle's battery has been disconnected for any type of service or repair, the transmission will need to relearn the normal shift strategy parameters, much like having to reset your radio stations when your vehicle battery has been disconnected. The Adaptive Transmission Control Strategy allows the transmission to relearn these operating parameters. This learning process could take several transmission upshifts and downshifts; during this learning process, slightly firmer shifts may occur. After this learning process, normal shift feel and shift scheduling will resume.

### **P (Park)**

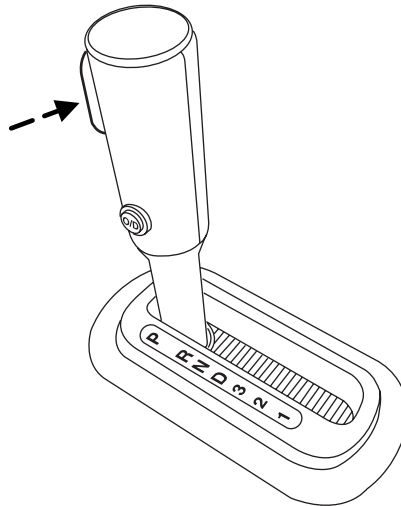
This position locks the transmission and prevents the rear wheels from turning.

To put your vehicle in gear:

- Start the engine
- Depress the brake pedal
- Press the gearshift release button on the front of the lever and move the gearshift lever into the desired gear

To put your vehicle in P (Park):

- Come to a complete stop
- Move the gearshift lever and securely latch it in P (Park)



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

### **R (Reverse)**

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

### **N (Neutral)**

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

### **D (Drive) with Overdrive**

The normal driving position for the best fuel economy. Transmission operates in gears one through five.

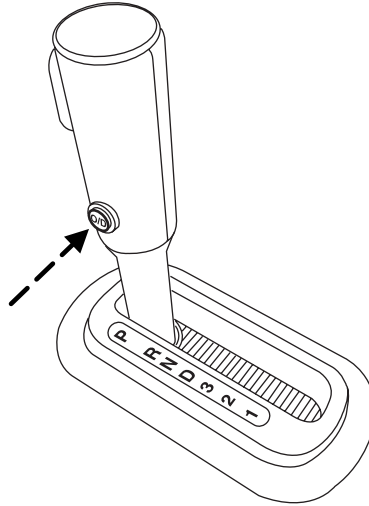


## Driving

### D (Drive) without Overdrive

Overdrive can be deactivated by pressing the transmission control switch on the side of the gearshift lever.

- This position allows for all forward gears (1-4) except overdrive.
- Provides engine braking.
- Use when driving conditions cause excessive shifting from O/D to other gears. Examples: city traffic, hilly terrain, heavy loads, trailer towing and when engine braking is required.



- O/D OFF lamp is illuminated.

**O/D  
OFF**

- To return to O/D (overdrive mode), press the transmission control switch. The O/D OFF lamp will not be illuminated.
- O/D (Overdrive) is automatically returned each time the key is turned off.

### 3 (Third)

Transmission operates in third gear only.

Used for improved traction on slippery roads. Selecting 3 (Third) provides engine braking.

### 2 (Second)

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

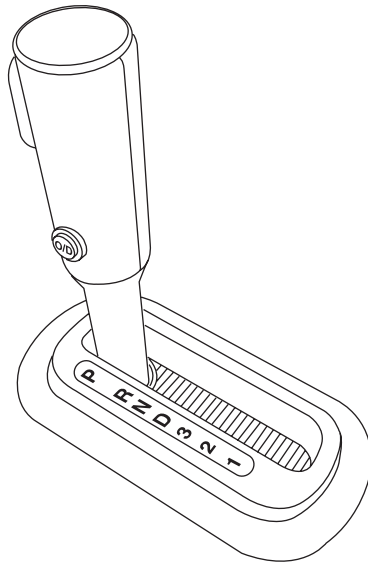
### 1 (First)

- Provides maximum engine braking.
- Allows upshifts by moving gearshift lever.
- Will not downshift into 1 (First) at high speeds; allows for 1 (First) when vehicle reaches slower speeds.

### Forced downshifts

- Allowed in D (Overdrive) or Drive.
- Depress the accelerator to the floor.
- Allows transmission to select an appropriate gear.

### Driving with a 6–speed automatic transmission (if equipped)



This vehicle is equipped with an Adaptive Transmission Control Strategy. This Adaptive Transmission Control Strategy offers the optimal transmission operation and shift quality. The transmission is equipped with a Transmission Control Module (TCM) located within the transmission assembly. When the battery is disconnected for any type of service or repair, the Adaptive Transmission Control Strategy parameters will be unaffected.

## Driving

### P (Park)

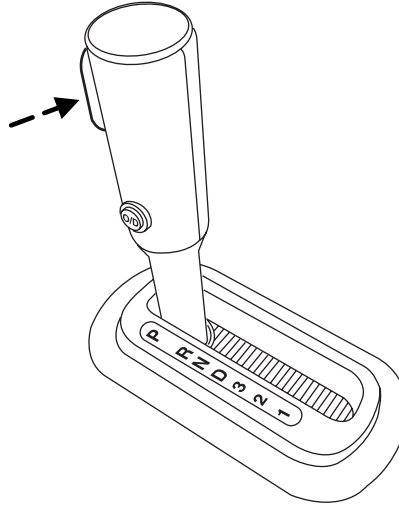
This position locks the transmission and prevents the rear wheels from turning.

To put your vehicle in gear:

- Depress the brake pedal
- Start the engine
- Press the gearshift lever release button (on the front of the lever) and shift into the desired gear

To put your vehicle in P (Park):

- Come to a complete stop
- Move the gearshift lever and securely latch it in P (Park)



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

### R (Reverse)

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

### N (Neutral)

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

### D (Drive) with Overdrive

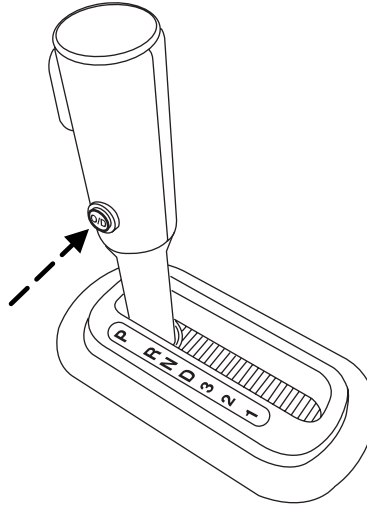
The normal driving position for the best fuel economy. Transmission operates in gears one through six except in 4WD Low where transmission operates in gears two through six.



### **D (Drive) without Overdrive**

Overdrive can be deactivated by pressing the transmission control switch on the side of the shift lever.

- This position allows for all forward gears (1-4) except overdrive.
- Provides engine braking.
- Use when driving conditions cause excessive shifting from O/D to other gears. Examples: city traffic, hilly terrain, heavy loads, trailer towing and when engine braking is required.



- O/D OFF lamp is illuminated.

**O/D  
OFF**

- To return to O/D (overdrive mode), press the transmission control switch. The O/D OFF lamp will not be illuminated.
- O/D (Overdrive) is automatically returned each time the key is turned off.

### **3 (Third)**

Transmission operates in third gear only.

Used for improved traction on slippery roads. Selecting 3 (Third) provides engine braking.

### **2 (Second)**

Transmission operates in 2nd gear only.

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

### **1 (First)**

- Transmission operates in 1st gear only.
- Provides maximum engine braking.

## Driving

- Allows upshifts by moving gearshift lever.
- Will not downshift into 1 (First) at high speeds; allows for 1 (First) when vehicle reaches slower speeds.

### **Forced downshifts**

- Allowed in D (Drive) only.
- Depress the accelerator to the floor.
- Allows transmission to select an appropriate gear.

### **If your vehicle gets stuck in mud or snow**

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.

**Do not rock the vehicle if the engine is not at normal operating temperature or damage to the transmission may occur.**

**Do not rock the vehicle for more than a minute or damage to the transmission and tires may occur, or the engine may overheat.**

### **REVERSE SENSING SYSTEM (IF EQUIPPED)**

The Reverse Sensing System (RSS) sounds a tone to warn the driver of obstacles near the rear bumper when the R (Reverse) is selected and the vehicle is moving at speeds less than 3 mph (5 km/h). The system is not effective at speeds above 3 mph (5 km/h) and may not detect certain angular or moving objects.



To help avoid personal injury, please read and understand the limitations of the reverse sensing system as contained in this section. Reverse sensing is only an aid for some (generally large and fixed) objects when moving in reverse on a flat surface at “parking speeds”. Inclement weather may also affect the function of the RSS; 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 RSS.



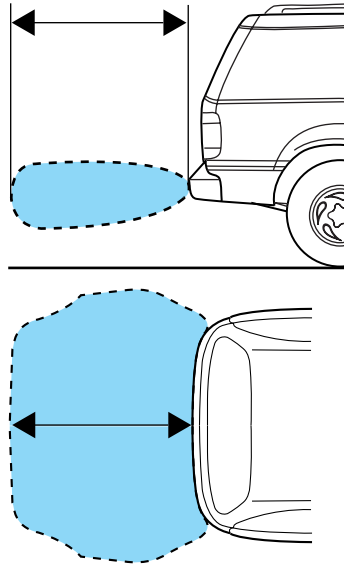
This system is not designed to prevent contact with small or moving objects. The system is designed to provide a warning to assist the driver in detecting large stationary objects to avoid damaging the vehicle. The system may not detect smaller objects, particularly those close to the ground.

## Driving



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 RSS system may create false beeps.

The RSS detects obstacles up to six feet (two meters) from the rear bumper with a decreased coverage area at the outer corners of the bumper, (refer to the figures for approximate zone coverage areas). As you move closer to the obstacle, the rate of the tone increases. When the obstacle is less than 10 inches (25.0 cm) away, the tone will sound continuously. If the RSS detects a stationary or receding object further than 10 inches (25.0 cm) from the side of the vehicle, the tone will sound for only three seconds. Once the system detects an object approaching, the tone will sound again.



The RSS automatically turns on when the gear selector is placed in R (Reverse) and the ignition is ON. A control in the message center allows the driver to disable the system only when the ignition is ON and the gear selector is in R (Reverse). Refer to *Message center* in the *Driver Controls* chapter for more information.

**Keep the RSS sensors (located on the rear bumper/fascia) free from snow, ice and large accumulations of dirt (do not clean the sensors with sharp objects). If the sensors are covered, it will affect the accuracy of the RSS.**

**If your vehicle sustains damage to the rear bumper/fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.**



## Driving

### FOUR-WHEEL DRIVE (4WD) OPERATION (IF EQUIPPED)



For important information regarding safe operation of this type of vehicle, see **Preparing to drive your vehicle** in this chapter.

Four-wheel drive (4WD) supplies power to all four wheels. 4WD should not be operated on dry pavement; driveline damage may occur.

**If equipped with the Electronic Shift 4WD System, and 4WD Low is selected while the vehicle is moving above 3 mph (5 km/h), the 4WD system will not engage. This is normal and should be no reason for concern.** Refer to *Shifting to/from 4WD Low* for proper operation.

#### System indicator lights

- **4X4** - momentarily illuminates when the vehicle is started. Illuminates when 4X4 HIGH (4WD High) is selected. **4x4**
- **4X4 LOW** - momentarily illuminates when the vehicle is started. Illuminates when 4X4 LOW (4WD Low) is selected. **4x4 LOW**

#### Using the Control Trac 4WD system

|             |             |            |
|-------------|-------------|------------|
| 4X4<br>AUTO | 4X4<br>HIGH | 4X4<br>LOW |
|-------------|-------------|------------|

**4X4 AUTO** - Power to all four wheels; used for normal street and highway driving.

**4X4 HIGH (4WD High)** - Used for extra traction such as in snow or icy roads or in off-road situations. Not intended for use on dry pavement.

**4X4 LOW (4WD Low)** - Uses extra gearing to provide maximum power to all four wheels. Intended only for off-road applications such as deep sand, steep grades or pulling heavy objects. The accelerator pedal is less sensitive than in 4X4 HIGH (4WD High) range. This is to improve vehicle control when operating on very rough terrain. 4X4 LOW (4WD Low) will not engage while the vehicle is moving; this is normal and should be no reason for concern. Refer to *Shifting to/from 4X4 LOW (4WD Low)* for proper operation.

### **Shifting between 4X4 AUTO (4WD Auto) and 4X4 HIGH (4WD High)**

- Select 4X4 AUTO (4WD Auto) or 4X4 HIGH (4WD High) at any forward speed.

**Note:** Do not perform this operation if the rear wheels are slipping.

### **Shifting to/from 4X4 LOW (4WD Low)**

1. Bring the vehicle to a complete stop
  2. Depress the brake
  3. Place the transmission in N (Neutral).
  4. Press the desired 4WD position.
- If shifting into 4X4 LOW (4WD Low), wait for the 4X4 LOW light in the instrument cluster to turn **on** indicating the shift is complete.
  - If shifting out of 4X4 LOW (4WD Low), wait for the 4X4 LOW light in the instrument cluster to turn **off** indicating the shift is complete.

### **Driving off-road with truck and utility vehicles**

4WD 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.

#### **How your vehicle differs from other vehicles**

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.

#### **Basic operating principles**

- Do not use 4WD High or 4WD Low on dry, hard surfaced roads. Doing so will produce excessive noise, increase tire wear and may damage drive components. 4WD modes are only intended for consistently slippery or loose surfaces.

## Driving

- Drive slower in strong crosswinds which can affect the normal steering characteristics of your vehicle.
- Be extremely careful when driving on pavement made slippery by loose sand, water, gravel, snow or ice.

### ***If your vehicle goes off the edge of the pavement***

- If your vehicle goes off the edge of the pavement, slow down, but avoid severe brake application, ease the vehicle back onto the pavement only after reducing your speed. Do not turn the steering wheel too sharply while returning to the road surface.
- It may be safer to stay on the apron or shoulder of the road and slow down gradually before returning to the pavement. You may lose control if you do not slow down or if you turn the steering wheel too sharply or abruptly.
- It often may be less risky to strike small objects, such as highway reflectors, with minor damage to your vehicle rather than attempt a sudden return to the pavement which could cause the vehicle to slide sideways out of control or roll over. Remember, your safety and the safety of others should be your primary concern.



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.

### ***If your vehicle gets stuck***

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.

**Do not rock the vehicle if the engine is not at normal operating temperature or damage to the transmission may occur.**

**Do not rock the vehicle for more than a few minutes or damage to the transmission and tires may occur or the engine may overheat.**

## Driving



Do not spin the wheels at over 35 mph (56 km/h). The tires may fail and injure a passenger or bystander.

### Emergency maneuvers

- In an unavoidable emergency situation where a sudden sharp turn must be made, remember to avoid “over-driving” your vehicle, i.e., turn the steering wheel only as rapidly and as far as required to avoid the emergency. Excessive steering will result in less vehicle control, not more. Additionally, smooth variations of the accelerator and/or brake pedal pressure should be utilized if changes in vehicle speed are called for. Avoid abrupt steering, acceleration or braking which could result in an increased risk of loss of vehicle control, vehicle rollover and/or personal injury. Use all available road surface to return the vehicle to a safe direction of travel.
- In the event of an emergency stop, avoid skidding the tires and do not attempt any sharp steering wheel movements.



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.

- If the vehicle goes from one type of surface to another (i.e., from concrete to gravel) there will be a change in the way the vehicle responds to a maneuver (steering, acceleration or braking). Again, avoid these abrupt inputs.

### Parking

On some 4WD 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.



## Driving

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

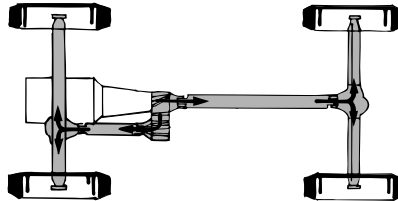
 If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer.

### 4WD Systems

4WD 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.

Power is supplied to all four wheels through a transfer case. On 4WD vehicles, the transfer case allows you to select 4WD when necessary.

Information on transfer case operation and shifting procedures can be found in the *Driving* chapter. Information on transfer case maintenance can be found in the *Maintenance and Specifications* chapter. You should become thoroughly familiar with this information before you operate your vehicle.



### Normal characteristics

On some 4WD models, the initial shift from two-wheel drive to 4x4 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.

### Sand

When driving over sand, try to keep all four wheels on the most solid area of the trail. Avoid reducing the tire pressures but shift to a lower gear and drive steadily through the terrain. Apply the accelerator slowly and avoid spinning the wheels.

**Note:** If your vehicle is equipped with the Tire Pressure Monitoring System (TPMS), the system indicator light may illuminate depending on how much air is released from your tires and/or how long you drive the vehicle under these conditions.

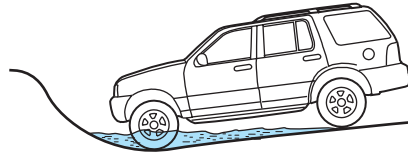
## Driving

Avoid excessive speed because vehicle momentum can work against you and cause the vehicle to become stuck to the point that assistance may be required from another vehicle. Remember, you may be able to back out the way you came if you proceed with caution.

### **Mud and water**

If you must drive through high water, drive slowly. Traction or brake capability may be limited.

When driving through water, determine the depth; avoid water higher than the bottom of the hubs (if possible) and proceed slowly. If the ignition system gets wet, the vehicle may stall.



Once through water, always try the brakes. Wet brakes do not stop the vehicle as effectively as dry brakes. Drying can be improved by moving your vehicle slowly while applying light pressure on the brake pedal.

Be cautious of sudden changes in vehicle speed or direction when you are driving in mud. Even 4WD vehicles can lose traction in slick mud. As when you are driving over sand, apply the accelerator slowly and avoid spinning your wheels. If the vehicle does slide, steer in the direction of the slide until you regain control of the vehicle.

If the transmission, transfer case or front axle are submerged in water, their fluids should be checked and changed, if necessary.

### **Driving through deep water may damage the transmission.**

If the front or rear axle is submerged in water, the axle lubricant should be replaced.

After driving through mud, clean off residue stuck to rotating driveshafts and tires. Excess mud stuck on tires and rotating driveshafts causes an imbalance that could damage drive components.

“Tread Lightly” is an educational program designed to increase public awareness of land-use regulations and responsibilities in our nations wilderness areas. Ford Motor

Company joins the U.S. Forest Service and the Bureau of Land Management in encouraging you to help preserve our national forest and other public and private lands by “treading lightly.”



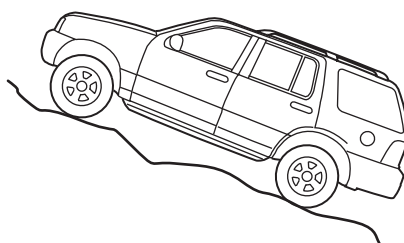
## Driving

### ***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. **Avoid driving crosswise or turning on steep slopes or hills.** A danger lies in losing traction, slipping sideways and possibly rolling over. Whenever driving on a hill, determine beforehand the route you will use. Do not drive over the crest of a hill without seeing what conditions are on the other side. Do not drive in reverse over a hill without the aid of an observer.

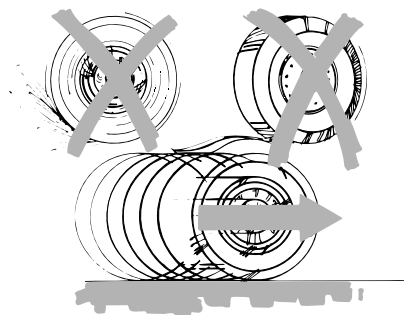
When climbing a steep slope or hill, start in a lower gear rather than downshifting to a lower gear from a higher gear once the ascent has started. This reduces strain on the engine and the possibility of stalling.

If you do stall out, do not try to turn around because you might roll over. It is better to back down to a safe location.



Apply just enough power to the wheels to climb the hill. Too much power will cause the tires to slip, spin or lose traction, resulting in loss of vehicle control.

Descend a hill in the same gear you would use to climb up the hill to avoid excessive brake application and brake overheating. Do not descend in neutral; instead, disengage overdrive or manually shift to a lower gear. When descending a steep hill, avoid sudden hard braking as you could lose control. When you brake hard, the front wheels can't turn and if they aren't turning, you won't be able to steer. The front wheels have to be turning in order to steer the vehicle. Rapid pumping of the brake pedal will help you slow the vehicle and still maintain steering control.



If your vehicle has anti-lock brakes, apply the brakes steadily. Do not "pump" the brakes.



### ***Driving on snow and ice***

4WD vehicles have advantages over 2WD vehicles in snow and ice but can skid like any other vehicle.

Should you start to slide while driving on snowy or icy roads, turn the steering wheel in the direction of the slide until you regain control.

Avoid sudden applications of power and quick changes of direction on snow and ice. Apply the accelerator slowly and steadily when starting from a full stop.

Avoid sudden braking as well. Although a 4WD vehicle may accelerate better than a two-wheel drive vehicle in snow and ice, it won't stop any faster, because as in other vehicles, braking occurs at all four wheels. Do not become overconfident as to road conditions.

Make sure you allow sufficient distance between you and other vehicles for stopping. Drive slower than usual and consider using one of the lower gears. In emergency stopping situations, avoid locking of the wheels. Use a "squeeze" technique, push on the brake pedal with a steadily increasing force which allows the wheels to brake yet continue to roll so that you may steer in the direction you want to travel. If you lock the wheels, release the brake pedal and repeat the squeeze technique. If your vehicle is equipped with a Four Wheel Anti-Lock Brake System (ABS), apply the brake steadily. Do not "pump" the brakes. Refer to the *Brakes* section of this chapter for additional information on the operation of the anti-lock brake system.

Never drive with chains on the front tires of 4WD vehicles without also putting them on the rear tires. This could cause the rear to slide and swing around during braking.

### ***Maintenance and Modifications***

The suspension and steering systems on your vehicle have been designed and tested to provide predictable performance whether loaded or empty and durable load carrying capability. For this reason, Ford Motor Company strongly recommends that you do not make modifications such as adding or removing parts (such as lift kits or stabilizer bars) or by using replacement parts not equivalent to the original factory equipment.

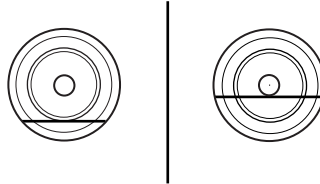
Any modifications to a vehicle that raise the center of gravity can make it more likely the vehicle will roll over as a result of a loss of control. Ford Motor Company recommends that caution be used with any vehicle equipped with a high load or device (such as ladder racks or pickup box cover).

## Driving

Failure to maintain your vehicle properly may void the warranty, increase your repair cost, reduce vehicle performance and operational capabilities and adversely affect driver and passenger safety. Frequent inspection of vehicle chassis components is recommended if the vehicle is subjected to heavy off-road usage.

### DRIVING THROUGH WATER

If driving through deep or standing water is unavoidable, proceed very slowly especially when the depth is not known. 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. **Driving through deep water where the transmission vent tube is submerged may allow water into the transmission and cause internal transmission damage.**

**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.

## Roadside Emergencies

### ROADSIDE ASSISTANCE

#### 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 New Vehicle Limited Warranty period of three years or 36,000 miles (60,000 km), whichever occurs first on Ford and Mercury vehicles, and four years or 50,000 miles (80,000 km) on Lincoln vehicles.

Roadside assistance will cover:

- a flat tire change with a good spare (except Ford GT which has a tire inflation kit)
- battery jump start
- lock-out assistance (key replacement cost is the customer's responsibility)
- fuel delivery – Independent Service Contractors, if not prohibited by state, local or municipal law shall deliver up to 2.0 gallons (7.5L) of gasoline or 5 gallons (18.9L) of diesel fuel to a disabled vehicle.
- winch out – available within 100 feet (30.5 meters) of a paved or county maintained road, no recoveries.
- towing – Ford/Mercury/Lincoln eligible vehicle towed to an authorized dealer within 35 miles (56.3 km) of the disablement location or to the nearest authorized dealer. If a member requests to be towed to an authorized dealer more than 35 miles (56.3 km) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 miles (56.3 km).

Trailers shall be covered up to \$100 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.

## Roadside Emergencies

**Canadian customers refer to your Owner Information Guide for information on:**

- coverage period
- exact fuel amounts
- towing of your disabled vehicle
- emergency travel expense reimbursement
- travel planning benefits

### Using roadside assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. In the United States, this card is found in the Owner Guide portfolio in the glove compartment. In Canada, the card is found in the *Owner Information Guide* in the glove compartment.

U.S. Ford or Mercury vehicle customers who require roadside assistance, call 1-800-241-3673; Lincoln vehicle customers call 1-800-521-4140.

Canadian customers who require roadside assistance, call 1-800-665-2006.

If you need to arrange roadside assistance for yourself, Ford Motor Company will reimburse a reasonable amount. To obtain reimbursement information, U.S. Ford or Mercury vehicles customers call 1-800-241-3673; Lincoln vehicle customers call 1-800-521-4140.

Canadian customers who need to obtain reimbursement information, call 1-800-665-2006.

### Roadside coverage beyond basic warranty

In the United States, you may purchase additional roadside assistance coverage beyond this period through the Ford Auto Club by contacting your authorized dealer.

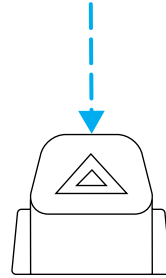
Similarly in Canada, for uninterrupted Roadside Assistance coverage, you may purchase extended coverage prior to your Basic Warranty's Roadside Assistance expiring. For more information and enrollment, contact 1-877-294-2582 or visit our website at [www.ford.ca](http://www.ford.ca).

## Roadside Emergencies

### HAZARD FLASHER

The hazard flasher is located on the steering column, just behind the steering wheel. The hazard flashers will operate when the ignition is in any position or if the key is not in the ignition.

Push in the flasher control and all front and rear direction signals will flash. Press the flasher control again to turn them off. Use it when your vehicle is disabled and is creating a safety hazard for other motorists.



**Note:** With extended use, the flasher may run down your battery.

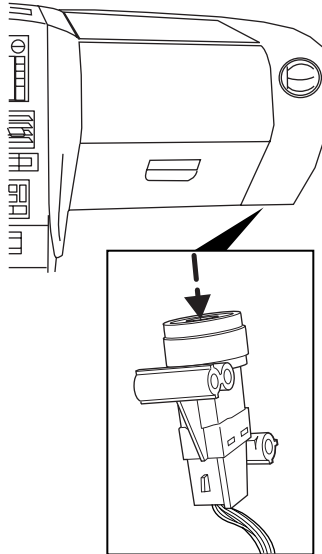
### FUEL PUMP SHUT-OFF SWITCH FUEL RESET

The fuel pump shut-off switch is a device intended to stop the electric fuel pump when your vehicle has been involved in a substantial jolt.

After a collision, if the engine cranks but does not start, the fuel pump shut-off switch may have been activated.

## Roadside Emergencies

The fuel pump shut-off switch is located in the passenger's foot well, by the kick panel.



Use the following procedure to reset the fuel pump shut-off switch.

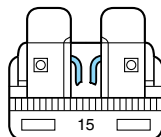
1. Turn the ignition to the OFF position.
2. Check the fuel system for leaks.
3. If no fuel leak is apparent, reset the fuel pump shut-off switch by pushing in on the reset button.
4. Turn the ignition to the ON position. Pause for a few seconds and return the key to the OFF position.
5. Make a further check for leaks in the fuel system.

## Roadside Emergencies

### FUSES AND RELAYS

#### Fuses

If electrical components in the vehicle are not working, a fuse may have blown. Blown fuses are identified by a broken wire within the fuse. Check the appropriate fuses before replacing any electrical components.



**Note:** Always replace a fuse with one that has the specified amperage rating. Using a fuse with a higher amperage rating can cause severe wire damage and could start a fire.

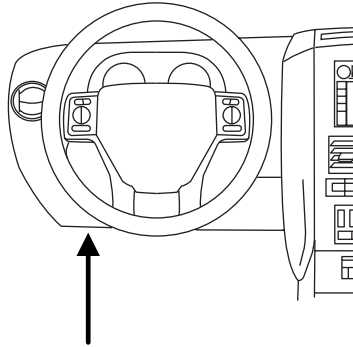
#### Standard fuse amperage rating and color

| COLOR       |            |                |            |                      |
|-------------|------------|----------------|------------|----------------------|
| Fuse rating | Mini fuses | Standard fuses | Maxi fuses | Cartridge maxi fuses |
| 2A          | Grey       | Grey           | —          | —                    |
| 3A          | Violet     | Violet         | —          | —                    |
| 4A          | Pink       | Pink           | —          | —                    |
| 5A          | Tan        | Tan            | —          | —                    |
| 7.5A        | Brown      | Brown          | —          | —                    |
| 10A         | Red        | Red            | —          | —                    |
| 15A         | Blue       | Blue           | —          | —                    |
| 20A         | Yellow     | Yellow         | Yellow     | Blue                 |
| 25A         | Natural    | Natural        | —          | —                    |
| 30A         | Green      | Green          | Green      | Pink                 |
| 40A         | —          | —              | Orange     | Green                |
| 50A         | —          | —              | Red        | Red                  |
| 60A         | —          | —              | Blue       | Yellow               |
| 70A         | —          | —              | Tan        | —                    |
| 80A         | —          | —              | Natural    | —                    |

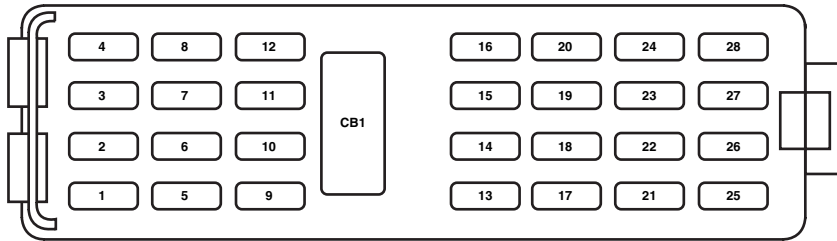
## Roadside Emergencies

### Passenger compartment fuse panel

The fuse panel is located below the instrument panel on the driver's side.



To remove a fuse use the fuse puller tool provided on the fuse panel box.



The fuses are coded as follows:

| Fuse/Relay Location | Fuse Amp Rating | Passenger Compartment Fuse Panel Description          |
|---------------------|-----------------|-------------------------------------------------------|
| 1                   | 20A             | Moonroof, Adjustable pedals, DSM, Memory lumbar motor |
| 2                   | 5A              | Microcontroller power (SJB)                           |
| 3                   | 20A             | Radio                                                 |
| 4                   | 20A             | OBD II connector                                      |
| 5                   | 5A              | Moonroof                                              |

## Roadside Emergencies

| Fuse/Relay Location | Fuse Amp Rating | Passenger Compartment Fuse Panel Description                                                                                           |
|---------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 6                   | 20A             | Liftglass release motor, Door unlock/lock                                                                                              |
| 7                   | 15A             | Trailer stop/turn                                                                                                                      |
| 8                   | 15A             | Ignition switch power, PATS                                                                                                            |
| 9                   | 2A              | 6R TCM/PCM (Ignition RUN/START), Fuel pump relay                                                                                       |
| 10                  | 5A              | Front wiper RUN/ACC relay in PDB                                                                                                       |
| 11                  | 5A              | Radio start                                                                                                                            |
| 12                  | 5A              | Rear wiper motor RUN/ACC, Trailer battery charge relay in PDB, Radio                                                                   |
| 13                  | 15A             | Heated mirror, Rear defrost indicator                                                                                                  |
| 14                  | 20A             | Horn                                                                                                                                   |
| 15                  | 10A             | Reverse lamps                                                                                                                          |
| 16                  | 10A             | Trailer reverse lamps                                                                                                                  |
| 17                  | 10A             | RCM, PAD lamp, OCS module                                                                                                              |
| 18                  | 10A             | Reverse park aid, IVD switch, IVD, 4x4 module, 4x4 switch, Heated seat switches, Compass, Electrochromatic mirror, AUX climate control |
| 19                  | —               | Not used                                                                                                                               |
| 20                  | 10A             | Manual climate, DEATC, Brake shift                                                                                                     |
| 21                  | —               | Not used                                                                                                                               |
| 22                  | 15A             | Brake switch, Bi-color stop lamps, CHMSL all turn                                                                                      |
| 23                  | 15A             | Power mirrors, Interior lamps, Puddle lamps, Battery saver, Instrument illumination, Homelink                                          |

## Roadside Emergencies

| Fuse/Relay Location | Fuse Amp Rating | Passenger Compartment Fuse Panel Description                   |
|---------------------|-----------------|----------------------------------------------------------------|
| 24                  | 10A             | Cluster, Theft LED                                             |
| 25                  | 15A             | Trailer park, Trailer electronic brake module                  |
| 26                  | 15A             | License plate/rear park lamp, Front park lamps, Manual climate |
| 27                  | 15A             | Tri-color stop lamps                                           |
| 28                  | 10A             | Manual/DEATC                                                   |
| CB1                 | 25A             | Windows                                                        |

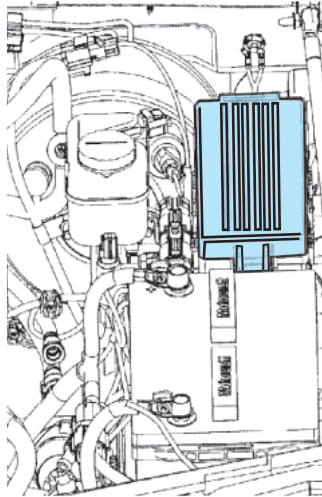
The following relays are located on either side of the passenger compartment fuse panel. See your authorized dealer for service of these relays.

| Fuse/Relay Location | Description  |
|---------------------|--------------|
| Relay 1             | Delayed ACC  |
| Relay 2             | Rear defrost |
| Relay 3             | Park lamps   |
| Relay 4             | RUN/START    |

## Roadside Emergencies

### Power distribution box

The power distribution box is located in the engine compartment. The power distribution box contains high-current fuses that protect your vehicle's main electrical systems from overloads.



Always disconnect the battery before servicing high current fuses.

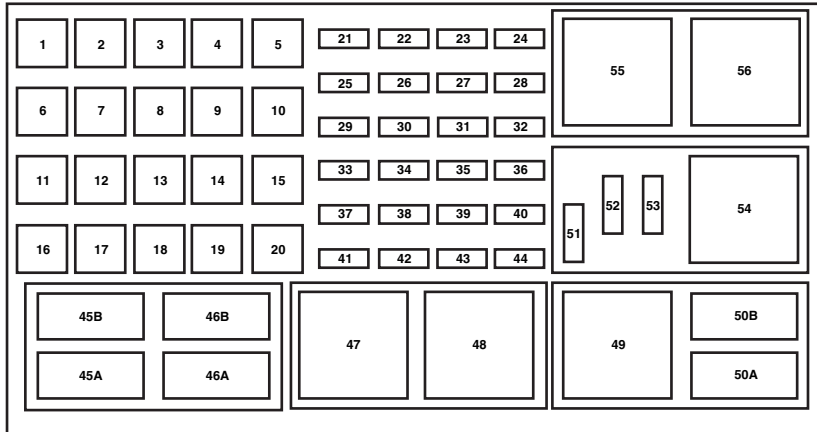


To reduce risk of electrical shock, always replace the cover to the Power Distribution Box before reconnecting the battery or refilling fluid reservoirs.

If the battery has been disconnected and reconnected, refer to the *Battery* section of the *Maintenance and Specifications* chapter.



## Roadside Emergencies



The high-current fuses are coded as follows:

| Fuse/Relay Location | Fuse Amp Rating | Power Distribution Box Description |
|---------------------|-----------------|------------------------------------|
| 1                   | 50A**           | BATT 2 (SJB)                       |
| 2                   | 50A**           | BATT 3 (SJB)                       |
| 3                   | 50A**           | BATT 1 (SJB)                       |
| 4                   | 30A**           | Fuel pump, Injectors               |
| 5                   | 30A**           | Third row seat (left)              |
| 6                   | 40A**           | IVD module                         |
| 7                   | 40A**           | Powertrain Control Module (PCM)    |
| 8                   | —               | Not used                           |
| 9                   | —               | Not used                           |
| 10                  | 30A**           | Power seat (right)                 |
| 11                  | 30A**           | Starter                            |
| 12                  | 30A**           | Third row seat (right)             |
| 13                  | 30A**           | Trailer tow battery charger        |

## Roadside Emergencies

| Fuse/Relay Location | Fuse Amp Rating | Power Distribution Box Description              |
|---------------------|-----------------|-------------------------------------------------|
| 14                  | 30A**           | Memory seats (DSM)                              |
|                     | 40A**           | Non-memory seats                                |
| 15                  | 40A**           | Rear defrost, Heated mirrors                    |
| 16                  | 40A**           | Blower motor                                    |
| 17                  | 30A**           | Trailer electronic brakes                       |
| 18                  | 30A**           | Auxiliary blower motor                          |
| 19                  | —               | Not used                                        |
| 20                  | —               | Not used                                        |
| 21                  | 20A*            | Rear power point                                |
| 22                  | 20A*            | Subwoofer                                       |
| 23                  | 20A*            | 4x4                                             |
| 24                  | 10A*            | Powertrain Control Module (PCM) KAP, CAN vent   |
| 25                  | 20A*            | Front power point/Cigar lighter                 |
| 26                  | 20A*            | 4x4 module                                      |
| 27                  | 20A*            | 6R Transmission module                          |
| 28                  | 20A*            | Heated seats                                    |
| 29                  | 20A*            | Headlamps (right)                               |
| 30                  | 25A*            | Rear wiper                                      |
| 31                  | 15A*            | Fog lamps                                       |
| 32                  | —               | Not used                                        |
| 33                  | 30A*            | IVD module                                      |
| 34                  | 20A*            | Headlamps (left)                                |
| 35                  | 10A*            | AC clutch                                       |
| 36                  | —               | Not used                                        |
| 37                  | 30A*            | Front wiper                                     |
| 38                  | 15A*            | 5R Transmission                                 |
| 39                  | 15A*            | PCM power                                       |
| 40                  | 15A*            | Fan clutch, PCV valve, AC clutch relay, GCC fan |
| 41                  | 15A*            | SDARS/DVD                                       |

## Roadside Emergencies

| Fuse/Relay Location | Fuse Amp Rating | Power Distribution Box Description                                   |
|---------------------|-----------------|----------------------------------------------------------------------|
| 42                  | 15A*            | Redundant brake switch, EVMV, MAFS, HEGO, EVR, VCT1, VCT2, CMCV, CMS |
| 43                  | 15A*            | Coil on plug (4.6L engine only), Coil tower (4.0L engine only)       |
| 44                  | 15A*            | Injectors                                                            |
| 45A                 | —               | Not used                                                             |
| 45B                 | —               | GCC fan relay                                                        |
| 46A                 | —               | Not used                                                             |
| 46B                 | —               | Not used                                                             |
| 47                  | —               | Front wiper relay                                                    |
| 48                  | —               | PCM relay                                                            |
| 49                  | —               | Fuel pump relay                                                      |
| 50A                 | —               | Fog lamps relay                                                      |
| 50B                 | —               | AC clutch relay                                                      |
| 51                  | —               | Not used                                                             |
| 52                  | —               | A/C clutch (diode)                                                   |
| 53                  | —               | Not used                                                             |
| 54                  | —               | Trailer battery charger relay                                        |
| 55                  | —               | Starter relay                                                        |
| 56                  | —               | Blower relay                                                         |

\* Mini Fuses \*\* Cartridge Fuses

### CHANGING THE TIRES

If you get a flat tire while driving:

- do not brake heavily.
- gradually decrease the vehicle's speed.
- hold the steering wheel firmly.
- slowly move to a safe place on the side of the road.

**Note:** The tire pressure monitoring system (TPMS) indicator light will illuminate when the spare is in use. To restore the full functionality of the monitoring system, all road wheels equipped with tire pressure monitoring sensors must be mounted on the vehicle.

252

2006 Explorer (exp)  
Owners Guide (post-2002-fmt)  
USA (fus)

## Roadside Emergencies

Have a flat serviced by an authorized dealer in order to prevent damage to the TPMS sensor, refer to *Changing tires with TPMS* in the *Tires, Wheels and Loading* chapter. Replace the spare tire with a road tire as soon as possible.



The use of tire sealants may damage your tires. The use of tire sealants may also damage your Tire Pressure Monitoring System and should not be used.



Refer to *Tire Pressure Monitoring System (TPMS)* in the *Tires, Wheels and Loading* chapter for important information. If the tire pressure monitor sensor becomes damaged, it will no longer function.

### Dissimilar spare tire/wheel information



Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

If you have a dissimilar spare tire/wheel, then it is intended for temporary use only. This means that if you need to use it, you should replace it as soon as possible with a road tire/wheel that is the same size and type as the road tires and wheels that were originally provided by Ford. If the dissimilar spare tire or wheel is damaged, it should be replaced rather than repaired.

A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels and can be one of three types:

1. **T-type mini-spare:** This spare tire begins with the letter “T” for tire size and may have “Temporary Use Only” molded in the sidewall
2. **Full-size dissimilar spare with label on wheel:** This spare tire has a label on the wheel that states: “THIS TIRE AND WHEEL FOR TEMPORARY USE ONLY”

When driving with one of the dissimilar spare tires listed above, **do not:**

- Exceed 50 mph (80 km/h)
- Load the vehicle beyond maximum vehicle load rating listed on the Safety Compliance Label
- Tow a trailer

## Roadside Emergencies

- Use snow chains on the end of the vehicle with the dissimilar spare tire
- Use more than one dissimilar spare tire at a time
- Use commercial car washing equipment
- Try to repair the dissimilar spare tire

Use of one of the dissimilar spare tires listed above at any one wheel location can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability

For vehicles equipped with 4WD, it is not recommended that the vehicle be operated in 4WD modes with a temporary emergency spare tire. If 4WD operation is necessary, do not operate above speeds of 10 mph (16 km/h) or for distances above 50 miles (80 km).

### 3. Full-size dissimilar spare without label on wheel

When driving with the full-size dissimilar spare tire/wheel, **do not:**

- Exceed 70 mph (113 km/h)
- Use more than one dissimilar spare tire/wheel at a time
- Use commercial car washing equipment
- Use snow chains on the end of the vehicle with the dissimilar spare tire/wheel

The usage of a full-size dissimilar spare tire/wheel can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability
- All-Wheel driving capability (if applicable)
- Load leveling adjustment (if applicable)

## Roadside Emergencies

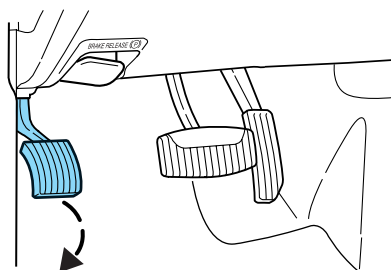
When driving with the full-size dissimilar spare tire/wheel additional caution should be given to:

- Towing a trailer
- Driving vehicles equipped with a camper body
- Driving vehicles with a load on the cargo rack

Drive cautiously when using a full-size dissimilar spare tire/wheel and seek service as soon as possible.

### **Stopping and securing the vehicle**

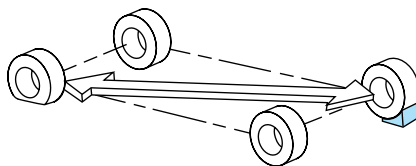
1. If you get a flat tire while driving, do not apply the brake heavily; instead, gradually decrease your speed. Hold the steering wheel firmly and slowly move to a safe place on the side of the road.
2. Park on a level surface, activate the hazard flashers and set the parking brake.
3. Place gearshift lever in P (Park) and turn engine OFF.



When one of the rear wheels is off the ground, the transmission alone will not prevent the vehicle from moving or slipping off the jack, even if the transmission is in P (Park).

**Note:** Passengers should not remain in the vehicle when the vehicle is being jacked.

4. Block the wheel that is diagonally opposite of the flat tire using the wheel chock provided with your vehicle.



## Roadside Emergencies

### Location of the spare tire and tools

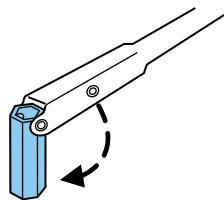
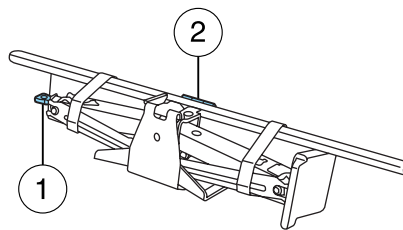
Have a flat tire serviced by an authorized dealer in order to prevent damage to the TPMS sensor, refer to *Changing tires with TPMS* in the *Tires, Wheels and Loading* chapter. Replace the spare tire with a road tire as soon as possible.

The spare tire and tools for your vehicle are stowed in the following locations:

| Tool                                           | Location                                                                                                                                         |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Spare tire                                     | Under the vehicle, just in front of the rear bumper. The spare tire winch drive nut is located at the rear center of the cargo area under a lid. |
| Jack, lug nut wrench, jack handle, wheel chock | Behind the rear seat under the carpeted floor lid in the cargo floor. The tools are located in a bag attached to the jack.                       |

### Removing the jack and tools

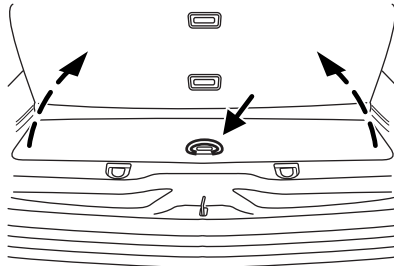
1. Open liftgate and remove the carpeted floor lid.
2. Turn the jack screw eyelet (1) counterclockwise to release pressure.
3. Rotate the locking pin (2) clockwise until loose then pull out until it stops and remove the jack and tool bag from the bracket.
4. Remove the chock and jack tools from the provided bag and rotate the wrench socket out from the handle.



## Roadside Emergencies

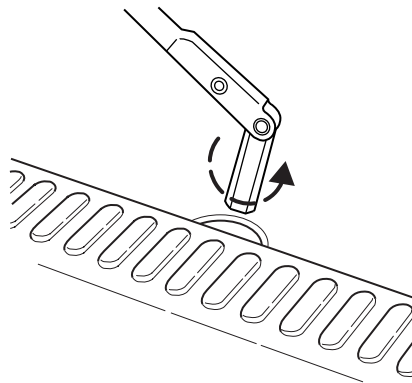
### ***Removing the spare tire***

**Do not use an impact wrench on the winch drive nut. This will damage the spare tire winch.**



1. Open the cover from the carpeting on cargo floor to expose the winch drive nut.
2. Insert the lug wrench on the winch drive nut.

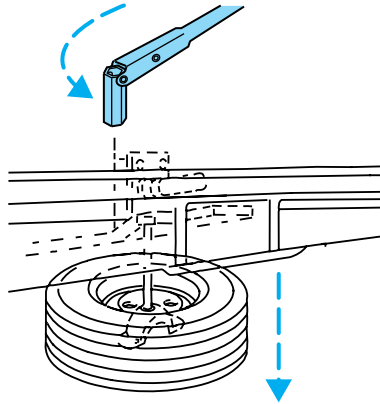
The wrench will stop moving and forward resistance to turning will be felt when properly engaged.



## Roadside Emergencies

3. Turn the wrench counterclockwise until the tire is lowered to the ground and the cable has slack. When turning the wrench, make sure that it does not scuff the kick plate.

4. Slide the tire rearward, lift one side and remove the retainer from the spare tire.



### Changing the spare tire



To help prevent the vehicle from moving when you change a tire, be sure the parking brake is set, then block the wheel that is diagonally opposite (other end of the vehicle) to the tire being changed.



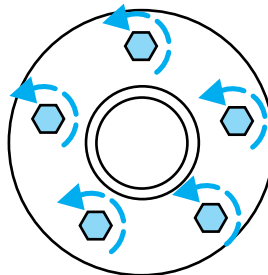
If the vehicle slips off the jack, you or someone else could be seriously injured.



Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to avoid the danger of being hit when operating the jack or changing the wheel.

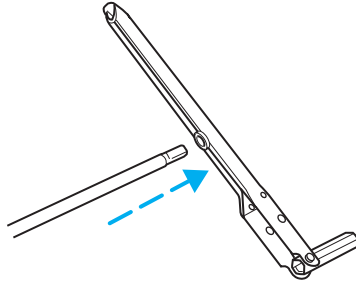
1. Use the tip of the lug wrench to remove the beauty cap by twisting the tip under the cap. On 5-passenger vehicles, the carpeted floor lid can be used as a kneeling pad.

2. Loosen each wheel lug nut by half a turn, but do not remove them until the wheel is raised off the ground.

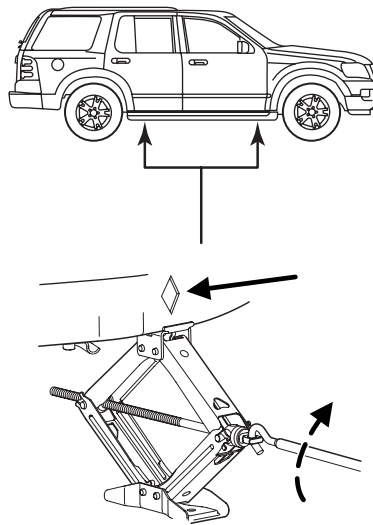


## Roadside Emergencies

3. Assemble the jack handle extension on the lug nut wrench by sliding the square end of the jack handle through the plastic grommet on the lug nut wrench and into the square hole on the other side.



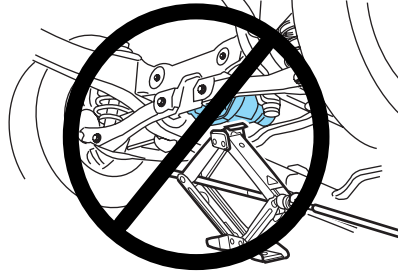
4. Position the jack according to the illustrated guides and turn the jack handle clockwise until the tire is a maximum of 1 inch (25 mm) off the ground.



## Roadside Emergencies

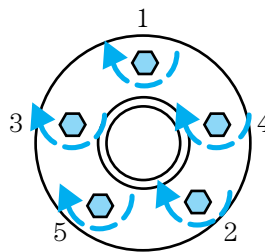


To lessen the risk of personal injury, do not put any part of your body under the vehicle while changing a tire. Do not start the engine when your vehicle is on the jack. The jack is only meant for changing the tire.



- **Never use the front or rear differential as a jacking point.**

5. Remove the lug nuts with the lug wrench.
6. Replace the flat tire with the spare tire, making sure the valve stem is facing outward. Reinstall the lug nuts, cone side in, until the wheel is snug against the hub. Do not fully tighten the lug nuts until the wheel has been lowered.
7. Lower the wheel by turning the jack handle counterclockwise.
8. Remove the jack and fully tighten the lug nuts in the order shown. Refer to *Wheel lug nut torque specifications* later in this chapter for the proper lug nut torque specification.



### Stowing the flat/spare tire

**Note:** Failure to follow spare tire stowage instructions may result in failure of cable or loss of spare tire.

1. Lay the tire on the ground with the valve stem facing up, toward the vehicle.
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 lug wrench clockwise until the tire is raised to its stowed position underneath the vehicle. The effort to turn the jack handle

260

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**



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## Roadside Emergencies

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/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. If your vehicle is equipped with a spare tire lock and key, be sure to install the spare tire lock into the bumper drive tube with the spare tire lock key and jack handle.

6. Repeat this tightness check procedure when servicing the spare tire pressure (every six months, per *scheduled maintenance information*), or at any time that the spare tire is disturbed through service of other components.

### **Re-stowing the jack and tools**

1. Unblock the wheels.
2. Stow the wheel ornament (if removed) in a safe location in the vehicle (such as the glove box or jack stowage compartment) so it will not become damaged. Re-install the wheel ornament onto the wheel once the tire is repaired or replaced.
3. Stow the jack and tools in their respective locations, making sure they are fully secured so they do not rattle when you drive.

### **WHEEL LUG NUT TORQUE SPECIFICATIONS**

Retighten the lug nuts to the specified torque at 50–100 miles (80–160 km) after any wheel disturbance (rotation, flat tire, wheel removal, etc.).

| Lug nut socket size/Bolt size                                                                                                | Wheel lug nut torque* |     |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|
|                                                                                                                              | lb.ft.                | N•m |
| Lug nut socket size:<br>¾" (19 mm) hex<br>Bolt size: ½ x 20                                                                  | 100                   | 135 |
| * Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners. |                       |     |

## Roadside Emergencies



When a wheel is installed, always remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Ensure that any fasteners that attach the rotor to the hub are secured so they do not interfere with the mounting surfaces of the wheel. Installing wheels without correct metal-to-metal contact at the wheel mounting surfaces can cause the wheel nuts to loosen and the wheel to come off while the vehicle is in motion, resulting in loss of control.

**Note:** If there is corrosion on the area where the wheel contacts the hub, apply a thin film of grease or anti-seize compound on that area.

### JUMP STARTING



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.

**Do not attempt to push-start your vehicle. Automatic transmissions do not have push-start capability; doing so may damage the catalytic converter.**

### Preparing your vehicle

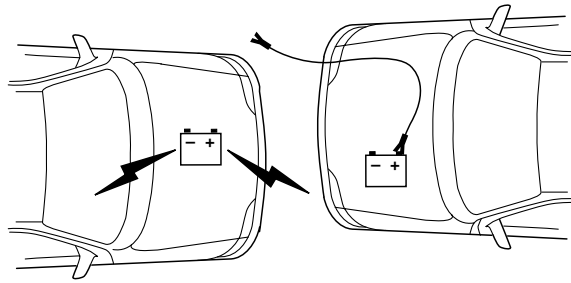
When the battery is disconnected or a new battery is installed, the transmission must relearn its shift strategy. As a result, the transmission may have firm and/or soft shifts. This operation is considered normal and will not affect function or durability of the transmission. Over time, the adaptive learning process will fully update transmission operation.

1. **Use only a 12-volt supply to start your vehicle.**
2. Do not disconnect the battery of the disabled vehicle as this could damage the vehicle's electrical system.
3. Park the booster vehicle close to the hood of the disabled vehicle making sure the two vehicles **do not** touch. Set the parking brake on both vehicles and stay clear of the engine cooling fan and other moving parts.
4. Check all battery terminals and remove any excessive corrosion before you attach the battery cables. Ensure that vent caps are tight and level.

## Roadside Emergencies

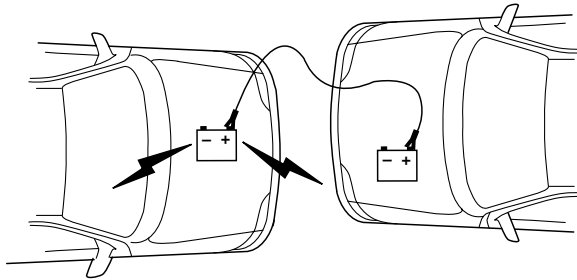
5. Turn the heater fan on in both vehicles to protect any electrical surges. Turn all other accessories off.

### Connecting the jumper cables



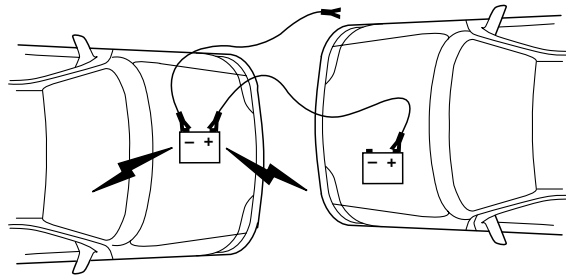
1. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.

**Note:** In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.

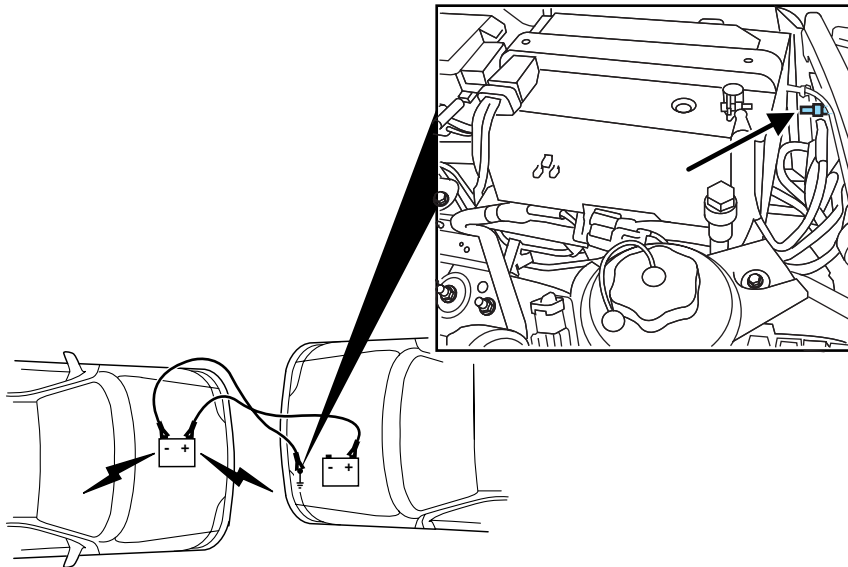


2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.

## Roadside Emergencies



3. Connect the negative (-) cable to the negative (-) terminal of the assisting battery.



4. Make the final connection of the negative (-) cable to the ground stud located toward the front of the vehicle (forward of the battery) on the radiator support. Keep the negative (-) cable away from the battery and the carburetor/fuel injection system. **Do not** use fuel lines, engine rocker covers or the intake manifold as *grounding* points. Ensure that the battery shield is properly installed before jump starting the vehicle.

## Roadside Emergencies



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.

5. Ensure that the cables are clear of fan blades, belts, moving parts of both engines, or any fuel delivery system parts.

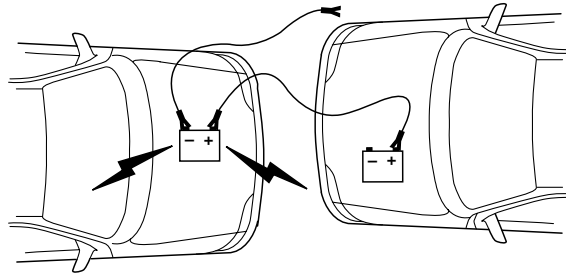
### Jump starting

1. Start the engine of the booster vehicle and run the engine at moderately increased speed.
2. Start the engine of the disabled vehicle.
3. Once the disabled vehicle has been started, run both engines for an additional three minutes before disconnecting the jumper cables.

### Removing the jumper cables

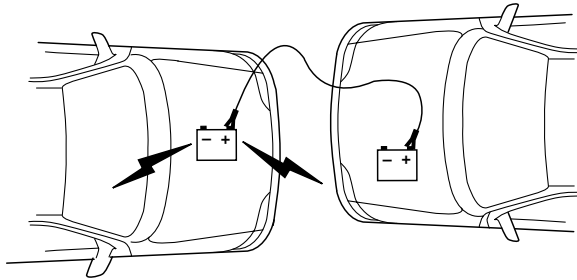
**Remove the jumper cables in the reverse order that they were connected.**

1. Remove the jumper cable from the *ground* metal surface.

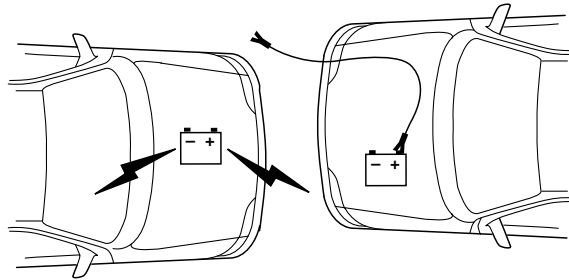


2. Remove the jumper cable on the negative (-) connection of the booster vehicle's battery.

## Roadside Emergencies



3. Remove the jumper cable from the positive (+) terminal of the booster vehicle's battery.

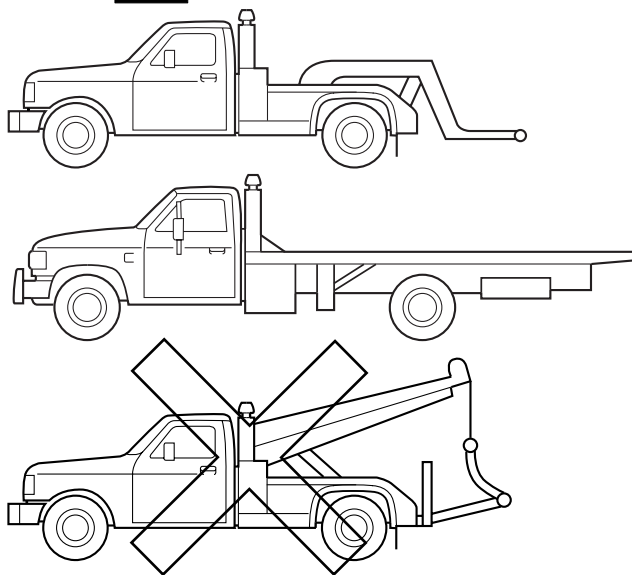


4. Remove the jumper cable from the positive (+) terminal of the disabled vehicle's battery.

After the disabled vehicle has been started and the jumper cables removed, allow it to idle for several minutes so the engine computer can relearn its idle conditions.

## Roadside Emergencies

### WRECKER TOWING



If you need to have your vehicle towed, contact a professional towing service or, if you are a member of a roadside assistance program, your roadside assistance service provider.

It is recommended that your vehicle be towed with a wheel lift or flatbed equipment. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure.

If the vehicle's battery is discharged, refer to *Automatic transmission operation* in the *Driving* chapter for directions on how to move the gearshift lever out of the P (Park) position, for proper towing.

On 4x2 vehicles, it is acceptable to tow the vehicle with the front wheels on the ground (without dollies) and the rear wheels off the ground.

On 4x4/AWD vehicles, it is recommended that your vehicle be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground.

**If the vehicle is towed by other means or incorrectly, vehicle damage may occur.**

Ford Motor Company produces a towing manual for all authorized tow truck operators. Have your tow truck operator refer to this manual for proper hook-up and towing procedures for your vehicle.

## Customer Assistance

### GETTING THE SERVICES YOU NEED

#### At home

You must take your Ford vehicle to an authorized dealer for warranty repairs. 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/or 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.

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 or procedures, please contact the Ford Customer Relationship Center at 1-800-392-3673 (FORD).

#### Away from home

If you own a Ford or Mercury vehicle and are away from home when your vehicle needs service, or if you need more help than the authorized dealer could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealer to help you.

In the United States:

Ford Motor Company  
Customer Relationship Center  
P.O. Box 6248  
Dearborn, MI 48121  
1-800-392-3673 (FORD)  
(TDD for the hearing impaired: 1-800-232-5952)  
[www.customersaskford.com](http://www.customersaskford.com)

In Canada:

Customer Relationship Centre

268

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Customer Assistance

Ford Motor Company of Canada, Limited  
P.O. Box 2000  
Oakville, Ontario L6J 5E4  
1-800-565-3673 (FORD)  
[www.ford.ca](http://www.ford.ca)

If you own a Lincoln vehicle and are away from home when your vehicle needs service, or if you need more help than the authorized dealer could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealer to help you.

In the United States:  
Ford Motor Company  
Customer Relationship Center  
P.O. Box 6248  
Dearborn, MI 48121  
1-800-521-4140  
(TDD for the hearing impaired: 1-800-232-5952)  
[www.customersaskford.com](http://www.customersaskford.com)

In Canada:  
Lincoln Centre  
Ford Motor Company of Canada, Limited  
P.O. Box 2000  
Oakville, Ontario L6J 5E4  
1-800-387-9333  
[www.lincolncanada.com](http://www.lincolncanada.com)

In order to help you service your Lincoln vehicle, please have the following information available when contacting the Lincoln Centre:

- Your telephone number (home and business)
- The name of the authorized dealer and the city where the authorized dealer is located
- The year and make of your vehicle
- The date of vehicle purchase
- The current odometer reading
- The vehicle identification number (VIN)

### **Additional Assistance**

If you still have a complaint involving a warranty dispute, you may wish to contact the Better Business Bureau (BBB) AUTO LINE program (U.S. only).

In some states (in the U.S.) 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.

## Customer Assistance

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

### THE BETTER BUSINESS BUREAU (BBB) AUTO LINE PROGRAM (U.S. ONLY)

Your satisfaction is important to Ford Motor Company and to your dealer. Experience has shown that our customers have been very successful in

270

*2006 Explorer (exp)*  
*Owners Guide (post-2002-fmt)*  
*USA (fus)*

## Customer Assistance

achieving satisfaction by following the three-step procedure outlined on the front page of the Warranty Guide. However, if your warranty concern has not been resolved using the three-step procedure, you may be eligible to participate in the BBB AUTO LINE program.

The BBB AUTO LINE program consists of two parts – mediation and arbitration. Initially, the BBB will try to resolve your question or concern through mediation. Mediation is a process through which a representative of the BBB will contact the parties and explore options for settlement of your claim. If mediation is not successful, customers with eligible claims may participate in the BBB AUTO LINE 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. You are not bound by the decision but may choose to accept it. If you choose to accept the BBB AUTO LINE decision then Ford must abide by the accepted decision as well. If the arbitrator has decided in your favor and you accept the decision, the BBB AUTO LINE program will contact you to ensure that Ford has complied with the decision in a timely manner. Disputes submitted to the BBB AUTO LINE program are usually decided within forty days after you file your claim with the BBB.

To file a claim with the BBB AUTO LINE, you will be asked for your name and address, information about your vehicle, information about your concerns and any steps you have already taken to try to resolve them.

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

**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).

## Customer Assistance

The CAMVAP program is a straight-forward and relatively speedy alternative to resolve a disagreement when all other efforts to produce a settlement have failed. This procedure is without cost to you and is designed to eliminate the need for lengthy and expensive legal proceedings.

In the CAMVAP program, impartial third-party arbitrators conduct hearings at mutually convenient times and places in an informal environment. These impartial arbitrators review the positions of the parties, make decisions and, when appropriate, render awards to resolve disputes. CAMVAP decisions are fast, fair, and final as the arbitrator's award is binding both to you and Ford of Canada.

CAMVAP services are available in all territories and provinces. For more information, without charge or obligation, call your CAMVAP Provincial Administrator directly at 1-800-207-0685.

### FORD EXTENDED SERVICE PLAN

You can get more protection for your new car or light truck by purchasing Ford Extended Service Plan (Ford ESP) coverage. It provides the following:

- Benefits during the warranty period depending on the plan you purchase (such as: reimbursement for rentals; coverage for certain maintenance and wear items).
- Protection against covered repair costs after your Bumper-to-Bumper Warranty expires.

You may purchase Ford ESP from any participating authorized dealer. There are several plans available in various time, distance and deductible combinations which can be tailored to fit your own driving needs. Ford ESP also offers reimbursement benefits for towing and rental coverage.

When you buy Ford ESP, you receive Peace-of-Mind protection throughout the United States and Canada, provided by a network of more than 4,600 participating authorized dealers.

If you did not take advantage of the Ford Extended Service Plan at the time of purchasing your vehicle, you may still be eligible. Since this information is subject to change, please ask your authorized dealer for complete details about Ford Extended Service Plan coverage options, or visit the Ford ESP website at [www.ford-esp.com](http://www.ford-esp.com).

## Customer Assistance

### GETTING ASSISTANCE OUTSIDE THE U.S. AND CANADA

Before exporting your vehicle to a foreign country, contact the appropriate foreign embassy or consulate. These officials can inform you of local vehicle registration regulations and where to find unleaded fuel.

If you cannot find unleaded fuel or can only get fuel with an anti-knock index lower than is recommended for your vehicle, contact a regional office or owner relations/customer relationship office.

The use of leaded fuel in your vehicle without proper conversion may damage the effectiveness of your emission control system and may cause engine knocking or serious engine damage. Ford Motor Company/Ford of Canada is not responsible for any damage caused by use of improper fuel. Using leaded fuel may also result in difficulty importing your vehicle back into the U.S.

If your vehicle must be serviced while you are traveling or living in Central America, the Caribbean, or the Middle East, contact the nearest authorized dealer. If the authorized dealer cannot help you, write or call:

FORD MOTOR COMPANY  
WORLDWIDE DIRECT MARKET OPERATIONS  
1555 Fairlane Drive  
Fairlane Business Park #3  
Allen Park, Michigan 48101  
U.S.A.  
Telephone: (313) 594-4857  
FAX: (313) 390-0804

If you are in another foreign country, contact the nearest authorized dealer. If the authorized dealer employees cannot help you, they can direct you to the nearest Ford affiliate office.

If you buy your vehicle in North America and then relocate outside of the U.S. or Canada, register your vehicle identification number (VIN) and new address with Ford Motor Company Worldwide Direct Market Operations.

**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  
P.O. Box 07150  
Detroit, Michigan 48207

## Customer Assistance

Or call:

**For a free publication catalog, order toll free: 1-800-782-4356**

Monday-Friday 8:00 a.m. - 6:00 p.m. EST

Helm, Incorporated can also be reached by their website:  
[www.helminc.com](http://www.helminc.com).

*(Items in this catalog may be purchased by credit card, check or money order.)*

### Obtaining a French owner's guide

French Owner's Guides can be obtained from your authorized dealer or by writing to Ford Motor Company of Canada, Limited, Service Publications, P.O. Box 1580, Station B, Mississauga, Ontario L4Y 4G3.

### REPORTING SAFETY DEFECTS (U.S. ONLY)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety



Administration (NHTSA) in addition to notifying Ford Motor Company.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ford Motor Company.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to:

Administrator  
NHTSA  
400 Seventh Street, SW  
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

### WASHING THE EXTERIOR

Wash your vehicle regularly with cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash (ZC-3-A), which is available from your authorized dealer.

- 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.
- Always use a clean sponge or car wash mitt with plenty of water for best results.
- Dry the vehicle with a chamois or soft terry cloth towel in order to eliminate water spotting.
- It is especially important to wash the vehicle regularly during the winter months, as dirt and road salt are difficult to remove and cause damage to the vehicle.
- Immediately remove items such as gasoline, diesel fuel, bird droppings and insect deposits because they can cause damage to the vehicle's paintwork and trim over time.
- Remove any exterior accessories, such as antennas, before entering a car wash.
- **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.**
- **If your vehicle is equipped with running boards, do not use rubber, plastic and vinyl protectant products on the running board surface, as the area may become slippery.**

#### Exterior chrome

- Wash the vehicle first, using cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash (ZC-3-A).
- Use Custom Brite Metal Cleaner (ZC-15), available from your authorized dealer. 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.
- **Never use abrasive materials such as steel wool or plastic pads as they can scratch the chrome surface.**

## Cleaning

### WAXING

Applying Motorcraft Paint Sealant (ZC-45) to your vehicle every six months will assist in reducing minor scratches and paint damage.

- Wash the vehicle first.
- Do not use waxes that contain abrasives; use Motorcraft Premium Liquid Wax (ZC-53-A), which is available from your authorized dealer, or an equivalent quality product.
- Do not allow paint sealant to come in contact with any non-body (low-gloss black) colored trim, such as grained door handles, roof racks, bumpers, side moldings, mirror housings or the windshield cowl area. The paint sealant will “gray” or stain the parts over time.

### PAINT CHIPS

Your authorized dealer has touch-up paint and sprays 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.

### ALUMINUM WHEELS AND WHEEL COVERS

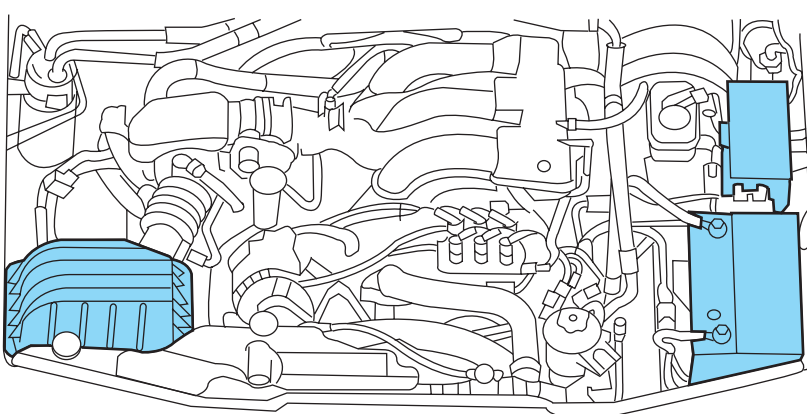
Aluminum wheels and wheel covers are coated with a clearcoat paint finish. In order to maintain their shine:

- Clean weekly with Motorcraft Wheel and Tire Cleaner (ZC-37-A), which is available from your authorized dealer. Heavy dirt and brake dust accumulation may require agitation with a sponge. Rinse thoroughly with a strong stream of water.
- Never apply any cleaning chemical to hot or warm wheel rims or covers.
- Some automatic car washes may cause damage to the finish on your wheel rims or covers. Chemical-strength cleaners, or cleaning chemicals, in combination with brush agitation to remove brake dust and dirt, could wear away the clearcoat finish over time.
- Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergent.
- To remove tar and grease, use Motorcraft Bug and Tar Remover (ZC-42), available from your authorized dealer.

### ENGINE

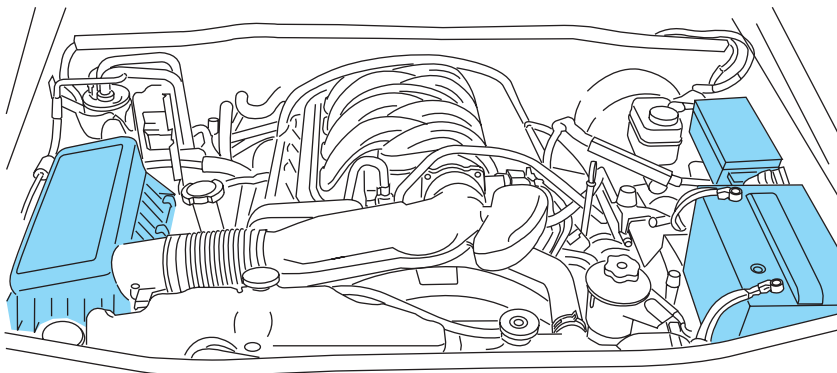
Engines are more efficient when they are clean because grease and dirt buildup keep the engine warmer than normal. When washing:

- Take care when using a power washer to clean the engine. The high pressure fluid could penetrate the sealed parts and cause damage.
- Do not spray a hot engine with cold water to avoid cracking the engine block or other engine components.
- Spray Motorcraft Engine Shampoo and Degreaser (ZC-20) on all parts that require cleaning and pressure rinse clean.
- Cover the highlighted areas to prevent water damage when cleaning the engine.



## Cleaning

### 4.0L SOHC V6 Engine



### 4.6L V8 Engine

- Never wash or rinse the engine while it is running; water in the running engine may cause internal damage.

#### PLASTIC (NON-PAINTED) EXTERIOR PARTS

Use only approved products to clean plastic parts. These products are available from your authorized dealer.

- For routine cleaning, use Motorcraft Detail Wash (ZC-3-A).
- If tar or grease spots are present, use Motorcraft Bug and Tar Remover (ZC-42).
- For plastic headlamp lenses, use Motorcraft Ultra Clear Spray Glass Cleaner (ZC-23).

#### WINDOWS AND WIPER BLADES

The windshield, rear and side windows and the wiper blades should be cleaned regularly. If the wipers do not wipe properly, substances on the vehicle's glass or the wiper blades may be the cause. These may include hot wax treatments used by commercial car washes, water repellent

278

*2006 Explorer (exp)*  
*Owners Guide (post-2002-fmt)*  
*USA (fus)*

## Cleaning

coatings, tree sap, or other organic contamination; these contaminants may cause squeaking or chatter noise from the blades, and streaking and smearing of the windshield. To clean these items, follow these tips:

- The windshield, rear windows and side windows may be cleaned with a non-abrasive cleaner such as Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23), available from your authorized dealer.
- The wiper blades can be cleaned with isopropyl (rubbing) alcohol or Motorcraft Premium Windshield Washer Concentrate (ZC-32-A), available from your authorized dealer. This washer fluid contains special solution in addition to alcohol which helps to remove the hot wax deposited on the wiper blade and windshield from automated car wash facilities. Be sure to replace wiper blades when they appear worn or do not function properly.
- Do not use abrasives, as they may cause scratches.
- Do not use fuel, kerosene, or paint thinner to clean any parts.

**Do not use sharp objects, such as a razor blade, to clean the inside of the rear window or to remove decals, as it may cause damage to the rear window defroster's heated grid lines.**

### INSTRUMENT PANEL AND CLUSTER LENS

Clean the instrument panel with a damp cloth, then with a clean, dry cloth, or use Motorcraft Dash & Vinyl Cleaner (ZC-38-A).

- Avoid cleaners or polish that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect the driver from undesirable windshield reflection.



Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.

- 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.

### INTERIOR TRIM

- Clean the interior trim areas with a damp cloth, then with a clean, dry cloth.
- Do not use household or glass cleaners as these may damage the finish.

## Cleaning

### INTERIOR

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 (ZC-54).
- If grease or tar is present on the material, spot-clean the area first with Motorcraft Spot and Stain Remover (ZC-14).
- 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.



Do not use cleaning solvents, bleach or dye on the vehicle's safety belts, as these actions may weaken the belt webbing.



Do not use chemical solvents or strong detergents when cleaning the seat-mounted side airbag (if equipped). Such products could contaminate the side airbag system and affect performance of the side airbag in a collision.

### LEATHER SEATS (IF EQUIPPED)

Your leather seating surfaces have a clear, protective coating over the leather.

- To clean, use a soft cloth with Motorcraft Deluxe Leather and Vinyl Cleaner (ZC-11-A). Dry the area with a soft cloth.
- To help maintain its resiliency and color, use the Motorcraft Deluxe Leather Care Kit (ZC-11-D), available from your authorized dealer.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing of the clear, protective coating.

**Note:** In some instances, color or dye transfer can occur when wet clothing comes in contact with leather upholstery. If this occurs, the leather should be cleaned immediately to avoid permanent staining.

### UNDERBODY

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

### FORD AND LINCOLN MERCURY CAR CARE PRODUCTS

Your Ford or Lincoln Mercury authorized dealer has many quality products available to clean your vehicle and protect its finishes. These quality products have been specifically engineered to fulfill your automotive needs; they are custom designed to complement the style and appearance of your vehicle. Each product is made from high quality materials that meet or exceed rigid specifications. For best results, use the following products or products of equivalent quality:

Motorcraft Bug and Tar Remover (ZC-42)  
Motorcraft Car Care Kit (ZC-26)  
Motorcraft Car Wash (Canada only) (CXC-21)  
Motorcraft Custom Bright Metal Cleaner (ZC-15)  
Motorcraft Custom Clear Coat Polish (ZC-8-A)  
Motorcraft Custom Vinyl Protectant (U.S. only) (ZC-40-A)  
Motorcraft Dash and Vinyl Cleaner (ZC-38-A)  
Motorcraft Deluxe Leather and Vinyl Cleaner (U.S. only) (ZC-11-A)  
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 One Step Wash and Wax Concentrate (ZC-6-A)  
Motorcraft Paint Sealant (ZC-45)  
Motorcraft Premium Car Wash Concentrate (U.S. only) (ZC-17-B)  
Motorcraft Premium Glass Cleaner (Canada only) (CXC-100)  
Motorcraft Premium Liquid Wax (ZC-53-A)  
Motorcraft Premium Windshield Washer Concentrate (ZC-32-A)  
Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54)  
Motorcraft Spot and Stain Remover (U.S. only) (ZC-14)  
Motorcraft Tire Clean and Shine (ZC-28)  
Motorcraft Triple Clean (U.S. only) (ZC-13)  
Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23)  
Motorcraft Vinyl Cleaner (Canada only) (CXC-93)  
Motorcraft Vinyl Conditioner (Canada only) (CXC-94)  
Motorcraft Wheel and Tire Cleaner (ZC-37-A)

## Maintenance and Specifications

### SERVICE RECOMMENDATIONS

- Use the *scheduled maintenance information* to track routine service.
- Use only recommended fuels, lubricants, fluids and service parts conforming to specifications.
- Your authorized dealer can provide parts and service.

### PRECAUTIONS WHEN SERVICING YOUR VEHICLE

- 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 lit material 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.
3. Block the wheels.

### Working with the engine on

1. Set the parking brake and shift to P (Park).
2. Block the wheels.



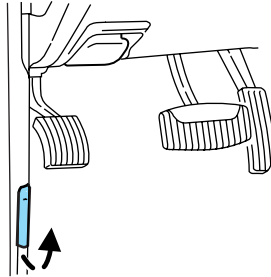
To reduce the risk of vehicle damage and/or personal burn injuries do not start your engine with the air cleaner removed and do not remove it while the engine is running.



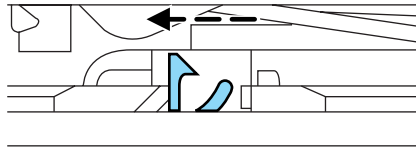
## Maintenance and Specifications

### OPENING THE HOOD

1. Inside the vehicle, pull the hood release handle located under the bottom left corner of the instrument panel.



2. Go to the front of the vehicle and release the auxiliary latch that is located under the front center of the hood.

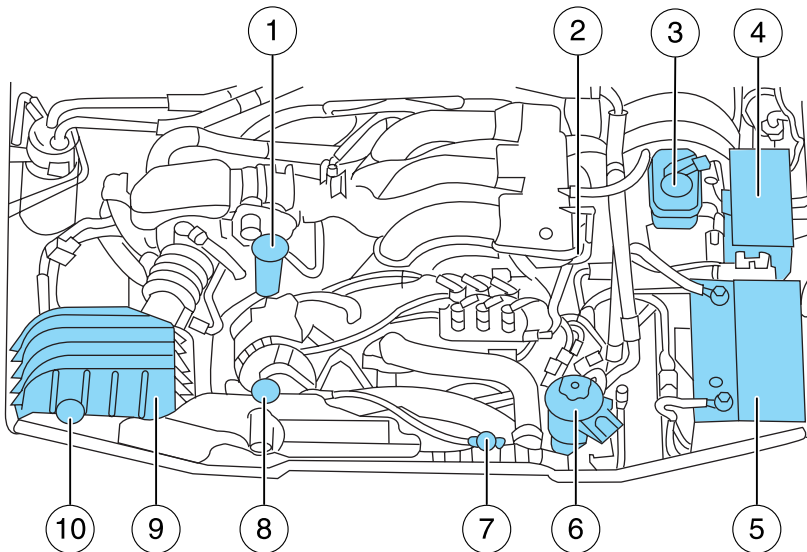


3. Lift the hood.

## Maintenance and Specifications

### IDENTIFYING COMPONENTS IN THE ENGINE COMPARTMENT

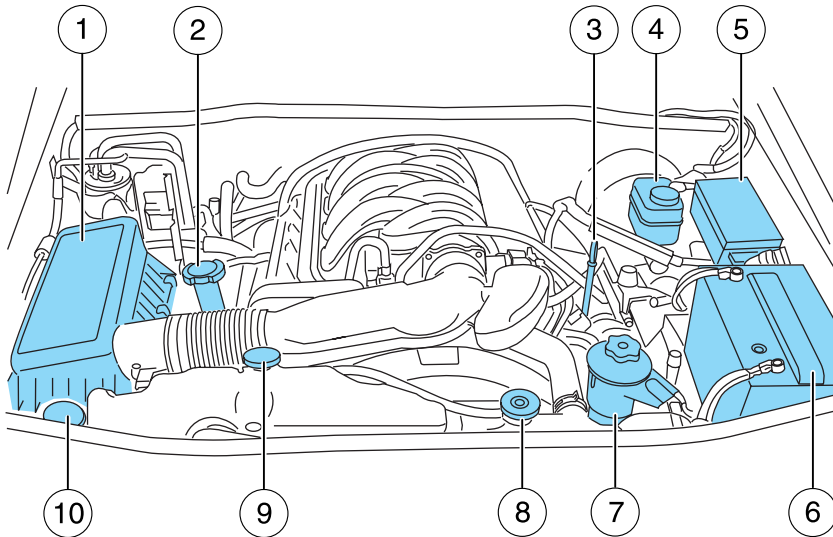
#### 4.0L SOHC V6 engine



1. Engine oil filler cap
2. Engine oil dipstick (out of view)
3. Brake fluid reservoir
4. Power distribution box
5. Battery
6. Power steering fluid reservoir
7. Radiator cap
8. Engine coolant reservoir
9. Air filter assembly
10. Washer fluid reservoir

## Maintenance and Specifications

### 4.6L V8 engine

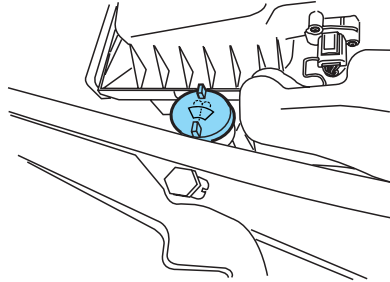


1. Air filter assembly
2. Engine oil filler cap
3. Engine oil dipstick
4. Brake fluid reservoir
5. Power distribution box
6. Battery
7. Power steering fluid reservoir
8. Radiator cap
9. Engine coolant reservoir
10. Windshield washer fluid reservoir

## Maintenance and Specifications

### WINDSHIELD WASHER FLUID

Add fluid to fill the reservoir if the level is low. In very cold weather, do not fill the reservoir completely.



Only use a washer fluid that meets Ford specification WSB-M8B16-A2. Do not use any special washer fluid such as windshield water repellent type fluid or bug wash. They may cause squeaking, chatter noise, streaking and smearing. Refer to *Lubricant specifications* later in this chapter.

State or local regulations on volatile organic compounds may restrict the use of methanol, a common windshield washer antifreeze additive. Washer fluids containing non-methanol antifreeze agents should be used only if they provide cold weather protection without damaging the vehicle's paint finish, wiper blades or washer system.



If you operate your vehicle in temperatures below 40° F (4.5°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.

**Do not put washer fluid in the engine coolant reservoir. Washer fluid placed in the cooling system may harm engine and cooling system components.**

### Checking and adding washer fluid for the liftgate

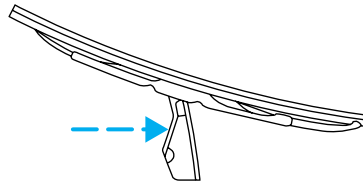
Washer fluid for the liftgate is supplied by the same reservoir as the windshield.



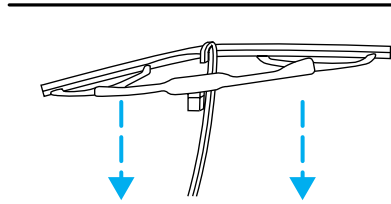
## Maintenance and Specifications

### CHANGING THE WIPER BLADES

1. Pull the wiper arm away from the vehicle. Turn the blade at an angle from the wiper arm. Push the lock pin manually to release the blade and pull the wiper blade down toward the windshield to remove it from the arm.



2. Attach the new wiper to the wiper arm and press it into place until a click is heard.



Replace wiper blades at least once per year for optimum performance.

Poor wiper quality can be improved by cleaning the wiper blades and the windshield, refer to *Windows and wiper blades* in the *Cleaning* chapter.

To prolong the life of the wiper blades, it is highly recommended to scrape off the ice on the windshield before turning on the wipers. The layer of ice has many sharp edges and can damage the micro edge of the wiper rubber element.

### ENGINE OIL

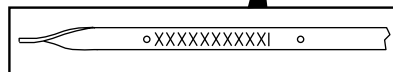
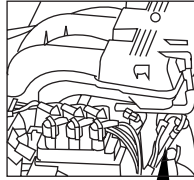
#### Checking the engine oil

Refer to the *scheduled maintenance information* for the appropriate intervals for checking the engine oil.

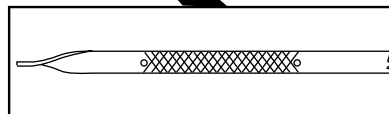
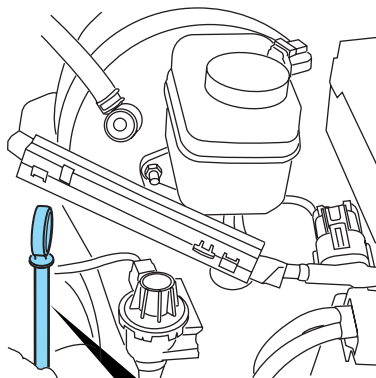
1. Make sure the vehicle is on level ground.
2. Turn the engine off and wait a few minutes for the oil to drain into the oil pan.
3. Set the parking brake and ensure the gearshift is securely latched in P (Park).
4. Open the hood. Protect yourself from engine heat.
5. Locate and carefully remove the engine oil level indicator (dipstick).

## Maintenance and Specifications

- 4.0L V6 engine



- 4.6L V8 engine

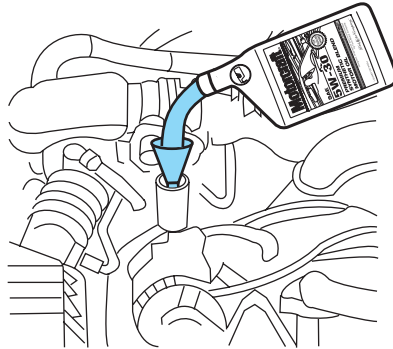


6. Wipe the indicator clean. Insert the indicator fully, then remove it again.

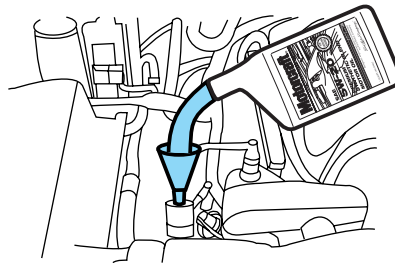
- If the oil level is **between the lower and upper holes**, the oil level is acceptable, **DO NOT ADD OIL.**
- If the oil level is below the lower hole, add enough oil to raise the level within the lower and upper holes.

## Maintenance and Specifications

- 4.0L V6 engine



- 4.6L V8 engine



- 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 indicator back in and ensure it is fully seated.

### Adding engine oil

1. Check the engine oil. For instructions, refer to *Checking the engine oil* in this chapter.
2. If the engine oil level is not within the normal range, add only certified engine oil of the recommended viscosity. Remove the engine oil filler cap and use a funnel to pour the engine oil into the opening.
3. Recheck the engine oil level. Make sure the oil level is not above the upper hole on the engine oil level indicator (dipstick).
4. Install the indicator and ensure it is fully seated.
5. Fully install the engine oil filler cap by turning the filler cap clockwise until three clicks can be heard.

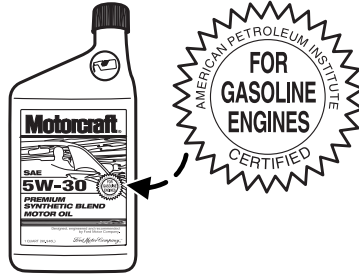
## Maintenance and Specifications

To avoid possible oil loss, DO NOT operate the vehicle with the engine oil level indicator and/or the engine oil filler cap removed.

### Engine Oil Recommendations

#### 4.0L Engine

Look for this certification trademark.



#### ***Use SAE 5W-30 engine oil.***

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 Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

To protect your engine’s warranty use Motorcraft SAE 5W-30 or an equivalent 5W-30 oil meeting Ford specification WSS-M2C929-A.

Do not use supplemental engine oil additives, cleaners or other engine treatments. They are unnecessary and could lead to engine damage that is not covered by Ford warranty.

Change your engine oil according to the appropriate schedule listed in the *scheduled maintenance information*.

## Maintenance and Specifications

### 4.6L Engine

Look for this certification trademark.



#### **Use SAE 5W-20 engine oil.**

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 Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

To protect your engine’s warranty use Motorcraft SAE 5W-20 or an equivalent 5W-20 oil meeting Ford specification WSS-M2C930-A. **SAE 5W-20 oil provides optimum fuel economy and durability performance meeting all requirements for your vehicle’s engine.**

Do not use supplemental engine oil additives, cleaners or other engine treatments. They are unnecessary and could lead to engine damage that is not covered by Ford warranty.

Change your engine oil according to the appropriate schedule listed in the *scheduled maintenance information*.

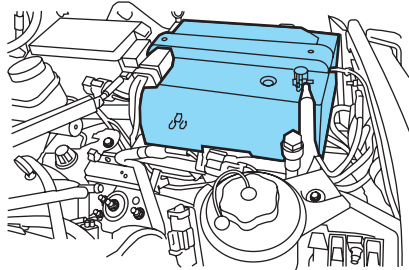
Ford production and aftermarket (Motorcraft) oil filters are designed for added engine protection and long life. If a replacement oil filter is used that does not meet Ford material and design specifications, start-up engine noises or knock may be experienced.

It is recommended you use the appropriate Motorcraft oil filter (or another brand meeting Ford specifications) for your engine application.

## Maintenance and Specifications

### BATTERY

Your vehicle is equipped with a Motorcraft maintenance-free battery which normally does not require additional water during its life of service.



However, for severe usage or in high temperature climates, check the battery electrolyte level. Refer to *scheduled maintenance information* for the service interval schedules.

**Keep the electrolyte level in each cell up to the “level indicator”. Do not overfill the battery cells.**

If the electrolyte level in the battery is low, you can add plain tap water to the battery, as long as you do not use hard water (water with a high mineral or alkali content). If possible, however, try to only fill the battery cells with distilled water. If the battery needs water often, have the charging system checked.

**If your battery has a cover/shield, make sure it is reinstalled after the battery has been cleaned or replaced.**

For longer, trouble-free operation, keep the top of the battery clean and dry. Also, make certain the battery cables are always tightly fastened to the battery terminals.

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.



Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide proper ventilation.

## Maintenance and Specifications

 When lifting a plastic-cased battery, excessive pressure on the end walls could cause acid to flow through the vent caps, resulting in personal injury and/or damage to the vehicle or battery. Lift the battery with a battery carrier or with your hands on opposite corners.

 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.

 Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**

Because your vehicle's engine is electronically controlled by a computer, some control conditions are maintained by power from the battery. When the battery is disconnected or a new battery is installed, the engine must relearn its idle and fuel trim strategy for optimum driveability and performance. To begin this process:

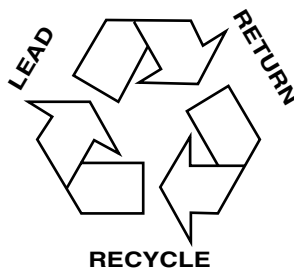
1. With the vehicle at a complete stop, set the parking brake.
  2. Put the gearshift lever in P (Park), turn off all accessories and start the engine.
  3. Run the engine until it reaches normal operating temperature.
  4. Allow the engine to idle for at least one minute.
  5. Turn the A/C on and allow the engine to idle for at least one minute.
  6. Drive the vehicle to complete the relearning process.
- The vehicle may need to be driven to relearn the idle and fuel trim strategy.
  - **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.**

When the battery is disconnected or a new battery installed, the transmission must relearn its adaptive strategy. As a result of this, the transmission may shift firmly. 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 to its optimum shift feel.

## Maintenance and Specifications

If the battery has been disconnected or a new battery has been installed, the clock and the preset radio stations 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.



### ENGINE COOLANT

#### Checking engine coolant

The concentration and level of engine coolant should be checked at the intervals listed in *scheduled maintenance information*. The coolant concentration should be maintained at 50/50 coolant and distilled water, which equates to a freeze point of -34°F (-36°C). Coolant concentration testing is possible with a hydrometer or antifreeze tester (such as the Rotunda Battery and Antifreeze Tester, 014-R1060). The level of coolant should be maintained at the "FULL COLD" level in the coolant reservoir. If the level falls below, add coolant per the instructions in the *Adding engine coolant* section.

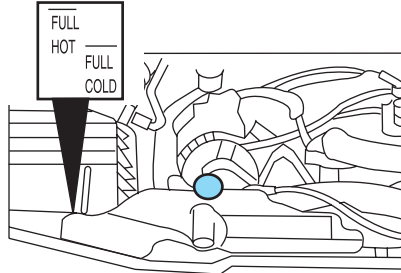
Your vehicle was factory-filled with a 50/50 engine coolant and water concentration. If the concentration of coolant falls below 40% or above 60%, the engine parts could become damaged or not work properly. **A 50-50 mixture of coolant and water provides the following:**

- **Freeze protection down to -34°F (-36°C).**
- **Boiling protection up to 265°F (129°C).**
- **Protection against rust and other forms of corrosion.**
- **Enables calibrated gauges to work properly.**

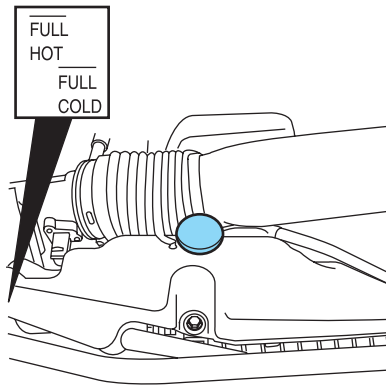
When the engine is cold, check the level of the engine coolant in the reservoir.

## Maintenance and Specifications

- 4.0L V6 engine



- 4.6L V8 engine



- The engine coolant should be at the “FULL COLD” level as listed on the engine coolant reservoir (depending upon application).
- Refer to *scheduled maintenance information* for service interval schedules.
- Be sure to read and understand *Precautions when servicing your vehicle* in this chapter.

If the engine coolant has not been checked at the recommended interval, the engine coolant reservoir may become low or empty. If the reservoir is low or empty, add engine coolant to the reservoir. Refer to *Adding engine coolant* in this chapter.

**Note:** Automotive fluids are not interchangeable; do not use engine coolant, antifreeze or windshield washer fluid outside of its specified function and vehicle location.

## Maintenance and Specifications

### Adding engine coolant

When adding coolant, make sure it is a 50/50 mixture of engine coolant and distilled water. Add the mixture to the coolant reservoir, **when the engine is cool**, until the appropriate fill level is obtained.



Do not add engine coolant when the engine is hot. Steam and scalding liquids released from a hot cooling system can burn you badly. Also, you can be burned if you spill coolant on hot engine parts.



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.

- **Add antifreeze/coolant that meets the material and design specifications for your vehicle.** Refer to *Lubricant specifications* in this chapter.

**Note:** Use of Motorcraft Cooling System Stop Leak Pellets or an equivalent product meeting Ford specification, WSS-M99B37-B6, may darken the color of Motorcraft Premium Gold Engine Coolant from yellow to golden tan.

- **Do not add/mix an orange-colored, extended life coolant such as Motorcraft Specialty Orange Engine Coolant, meeting Ford specification WSS-M97B44-D, with the factory-filled coolant.** Mixing Motorcraft Specialty Orange Engine Coolant or any orange-colored extended life product with your factory filled coolant can result in degraded corrosion protection.
- A large amount of water without engine coolant may be added, in case of emergency, to reach a vehicle service location. In this instance, the cooling system must be drained and refilled with a 50/50 mixture of engine coolant and distilled water 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.

## Maintenance and Specifications

For vehicles with overflow coolant systems with a non-pressurized cap on the coolant recovery system, add coolant to the coolant recovery reservoir when the engine is cool. Add the proper mixture of coolant and water to the “FULL COLD” level. For all other vehicles, which have a coolant degas system with a pressurized cap, or if it is necessary to remove the coolant pressure relief cap on the radiator of a vehicle with an overflow system, follow these steps to add engine coolant.



To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure; steam and hot liquid can come out forcefully when the cap is loosened slightly.

1. Before you begin, turn the engine off and let it cool.
2. When the engine is cool, wrap a thick cloth around the coolant pressure relief cap on the coolant reservoir (a translucent plastic bottle). Slowly turn cap counterclockwise (left) until pressure begins to release.
3. Step back while the pressure releases.
4. When you are sure that all the pressure has been released, use the cloth to turn it counterclockwise and remove the cap.
5. Fill the coolant reservoir slowly with the proper coolant mixture (see above), to within the “COLD FILL RANGE” or the “FULL COLD” level on the reservoir. If you removed the radiator cap in an overflow system, fill the radiator until the coolant is visible and radiator is almost full.
6. Replace the cap. Turn until tightly installed (until “clicks” are heard). (Cap must be tightly installed to prevent coolant loss.)

After any coolant has been added, check the coolant concentration, refer to *Checking engine coolant* section. If the concentration is not 50/50 (protection to -34° F/-36° C), drain some coolant and adjust the concentration. It may take several drains and additions to obtain a 50/50 coolant concentration.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough 50/50 concentration of engine coolant and distilled water to bring the liquid level to the proper level.

If you have to add more than 1.0 quart (1.0 liter) of engine coolant per month, have your authorized dealer check the engine cooling system. Your cooling system may have a leak. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

## Maintenance and Specifications

### Recycled engine coolant

Ford Motor Company does NOT recommend the use of recycled engine coolant in vehicles originally equipped with Motorcraft Premium Gold 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.

### Coolant refill capacity

To find out how much fluid your vehicle's cooling system can hold, refer to *Refill capacities* in this section.

Fill your engine coolant reservoir as outlined in *Adding engine coolant* in this section.

### Severe climates

If you drive in extremely cold climates (less than  $-34^{\circ}\text{F}$  [ $-36^{\circ}\text{C}$  ]):

- **It may be necessary to increase the coolant concentration above 50%.**
- **NEVER increase the coolant concentration above 60%.**
- **Increased engine coolant concentrations above 60% will decrease the overheat protection characteristics of the engine coolant and may cause engine damage.**
- **Refer to the chart on the coolant container to ensure the coolant concentration in your vehicle will provide adequate freeze protection at the temperatures in which you drive in the winter months.**

If you drive in extremely hot climates:

- **It is still necessary to maintain the coolant concentration above 40%.**
- **NEVER decrease the coolant concentration below 40%.**
- **Decreased engine coolant concentrations below 40% will decrease the corrosion protection characteristics of the engine coolant and may cause engine damage.**
- **Decreased engine coolant concentrations below 40% will decrease the freeze protection characteristics of the engine coolant and may cause engine damage.**

## Maintenance and Specifications

- **Refer to the chart on the coolant container to ensure the coolant concentration in your vehicle will provide adequate protection at the temperatures in which you drive.**

Vehicles driven year-round in non-extreme climates should use a 50/50 mixture of engine coolant and distilled water for optimum cooling system and engine protection.

### **What you should know about fail-safe cooling (4.6L V8 engine only)**

If the engine coolant supply is depleted, this feature allows the vehicle to be driven temporarily before incremental component damage is incurred. The “fail-safe” distance depends on ambient temperatures, vehicle load and terrain.

#### **Fail-safe cooling and engine oil overheat mode (4.6L V8 only)**

If the engine coolant and/or engine oil overheat, the vehicle's fail-safe modes will reduce engine power to limit engine damage, even with a total loss of coolant. The vehicle's range and/or speed will be reduced, depending on vehicle load, terrain, and outside temperatures.

The instrument cluster provides warnings for each mode.

- **Fail-Safe Cooling Mode:** The  (Service engine soon), , and  (Engine coolant temperature) indicators will be on.

Along with these warning indicators, the engine coolant temperature gauge will read in the Hot (H) area.

If the engine coolant reaches even hotter temperatures, fail-safe cooling mode limits engine power more and disables air conditioning. The engine will switch to alternating cylinder operation to help cool the engine. The engine will run rough in this mode.

If continued operation increases the engine coolant temperature to a critical range, the engine will shut down. Steering and braking effort will increase. Once engine coolant temperature cools, the engine can be restarted.

- **Engine Oil Overheat Mode:** The  (Engine coolant temperature) indicator will be on. The instrument cluster has no separate oil temperature indicator.

Along with the  (Engine coolant temperature) indicator, the engine coolant temperature gauge will read in the Hot (H) area.

## Maintenance and Specifications

Oil overheat can be triggered in severe driving conditions, such as towing heavy loads over mountainous terrain in extreme hot temperatures. As oil temperature increases, engine and vehicle speed will be limited. The transmission will also shift differently.

When the engine oil has cooled, the vehicle will perform normally.

### **When fail-safe cooling mode is activated**

You have limited engine power when in the fail-safe mode, so drive the vehicle with caution. Remember that the engine is capable of completely shutting down automatically to prevent engine damage, therefore:

1. Pull off the road as soon as safely possible and turn off the engine.
2. Arrange for the vehicle to be taken to an authorized dealer.
3. If this is not possible, wait approximately 15 minutes for the engine to cool.
4. Check the coolant level and replenish if low. Look for coolant leakage in the engine compartment and under the vehicle.



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

5. Restart the engine and take your vehicle to an authorized dealer.

**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.**

### **FUEL FILTER**

For fuel filter replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the fuel filter.

**Replace the fuel filter with an authorized Motorcraft part. The customer warranty may be void for any damage to the fuel system if an authorized Motorcraft fuel filter is not used.**

## Maintenance and Specifications

### WHAT YOU SHOULD KNOW ABOUT AUTOMOTIVE FUELS

#### Important safety precautions



Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.



If you do not use the proper fuel filler cap, excessive pressure or vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in possible personal injury.



Automotive fuels can cause serious injury or death if misused or mishandled.



Gasoline may contain benzene, which is a cancer-causing agent.

Observe the following guidelines when handling automotive fuel:

- Extinguish all smoking materials and any open flames before refueling your vehicle.
- Always turn off the vehicle before refueling.
- Automotive fuels can be harmful or fatal if swallowed. Fuel such as gasoline is highly toxic and if swallowed can cause death or permanent injury. If fuel is swallowed, call a physician immediately, even if no symptoms are immediately apparent. The toxic effects of fuel may not be visible for hours.
- Avoid inhaling fuel vapors. Inhaling too much fuel vapor of any kind can lead to eye and respiratory tract irritation. In severe cases, excessive or prolonged breathing of fuel vapor can cause serious illness and permanent injury.
- Avoid getting fuel liquid in your eyes. If fuel is splashed in the eyes, remove contact lenses (if worn), flush with water for 15 minutes and seek medical attention. Failure to seek proper medical attention could lead to permanent injury.



## Maintenance and Specifications

- Fuels can also be harmful if absorbed through the skin. If fuel is splashed on the skin and/or clothing, promptly remove contaminated clothing and wash skin thoroughly with soap and water. Repeated or prolonged skin contact with fuel liquid or vapor causes skin irritation.
- Be particularly careful if you are taking “Antabuse” or other forms of disulfiram for the treatment of alcoholism. Breathing gasoline vapors, or skin contact could cause an adverse reaction. In sensitive individuals, serious personal injury or sickness may result. If fuel is splashed on the skin, promptly wash skin thoroughly with soap and water. Consult a physician immediately if you experience an adverse reaction.



When refueling always shut the engine off and never allow sparks or open flames near the filler neck. Never smoke while refueling. Fuel vapor is extremely hazardous under certain conditions. Care should be taken to avoid inhaling excess fumes.



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

### Refueling



Fuel vapor burns violently and a fuel fire can cause severe injuries. To help avoid injuries to you and others:

- Read and follow all the instructions on the pump island;
- Turn off your engine when you are refueling;
- Do not smoke if you are near fuel or refueling your vehicle;
- Keep sparks, flames and smoking materials away from fuel;
- Stay outside your vehicle and do not leave the fuel pump unattended when refueling your vehicle — this is against the law in some places;
- Keep children away from the fuel pump; never let children pump fuel

## Maintenance and Specifications

Use the following guidelines to avoid static 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.

### Fuel Filler Cap

Your fuel tank filler cap has an indexed design with a 1/4 turn on/off feature.

When fueling your vehicle:

1. Turn the engine off.
2. Carefully turn the filler cap counterclockwise 1/4 of a turn to unscrew the cap.
3. Pull to remove the cap from the fuel filler pipe.
4. Reinstall the cap on the filler pipe and turn it clockwise until at least one click is heard.

After refueling, if the “CHECK FUEL CAP” indicator comes on and stays on when you start the engine, the fuel filler cap may not be properly installed. Turn off the engine, remove the fuel filler cap, align the cap properly and reinstall it securely. The “CHECK FUEL CAP” indicator should turn off after three driving cycles with the fuel filler cap properly installed. A driving cycle consists of a cold engine start-up followed by mixed city/highway driving.

**If you must replace the fuel filler cap, replace it with a fuel filler cap that is designed for your vehicle. The customer warranty may be void for any damage to the fuel tank or fuel system if the correct genuine Ford or Motorcraft fuel filler cap is not used.**

## Maintenance and Specifications



If you do not use the proper fuel filler cap, excessive vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in possible personal injury.

**FORD RECOMMENDS BP**



### Choosing the right fuel

Use only UNLEADED FUEL. The use of leaded fuel is prohibited by law and could damage your vehicle.

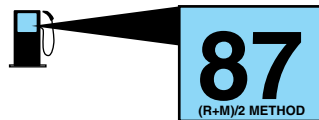
Your vehicle was not designed to use fuel or fuel additives with metallic compounds, including manganese-based additives. Studies indicate that these additives can cause your vehicle's emission control system to deteriorate more rapidly. In Canada, premium grade fuel generally contains more metallic additives than regular grade fuel. We recommend using regular grade fuel. In Canada, many fuels contain metallic additives, but fuels free of such additives may be available; check with your local fuel dealer.

Do not use fuel containing methanol. It can damage critical fuel system components.

Repairs to correct the effects of using a fuel for which your vehicle was not designed may not be covered by your warranty.

### Octane recommendations

Your vehicle is designed to use "Regular" unleaded gasoline with pump (R+M)/2 octane rating of 87. We do not recommend the use of gasolines labeled as "Regular" that are sold with octane ratings of 86 or lower in high altitude areas.



304

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Maintenance and Specifications

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.

### Fuel quality

If you are experiencing starting, rough idle or hesitation driveability problems, try a different brand of unleaded gasoline. “Premium” unleaded gasoline is not recommended for vehicles designed to use “Regular” unleaded gasoline because it may cause these problems to become more pronounced. If the problems persist, see your authorized dealer.

It should not be necessary to add any aftermarket products to your fuel tank if you continue to use high quality fuel of the recommended octane rating. Aftermarket products could cause damage to the fuel system. Repairs to correct the effects of using an aftermarket product in your fuel may not be covered by your warranty.

Many of the world’s automakers approved the World-wide Fuel Charter that recommends gasoline specifications to provide improved performance and emission control system protection for your vehicle. Gasolines that meet the World-wide Fuel Charter should be used when available. Ask your fuel supplier about gasolines that meet the World-wide Fuel Charter.

### Cleaner air

Ford endorses the use of reformulated “cleaner-burning” gasolines to improve air quality.

### Running out of fuel

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

If you have run out of fuel:

- You may need to cycle the ignition from off to on several times after refueling, to allow the fuel system to pump the fuel from the tank to the engine.
- The  indicator may come on. For more information on the “check engine” or the “service engine soon” indicator, refer to *Warning lights and chimes* in the *Instrument Cluster* chapter.

## Maintenance and Specifications

### ESSENTIALS OF GOOD FUEL ECONOMY

#### Measuring techniques

Your best source of information about actual fuel economy is you, the driver. You must gather information as accurately and consistently as possible. Fuel expense, frequency of fill-ups or fuel gauge readings are NOT accurate as a measure of fuel economy. We do not recommend taking fuel economy measurements during the first 1,000 miles (1,600 km) of driving (engine break-in period). You will get a more accurate measurement after 2,000 miles-3,000 miles (3,000 km–5,000 km).

#### Filling the tank

The advertised fuel capacity of the fuel tank on your vehicle is equal to the rated refill capacity of the fuel tank as listed in the *Refill capacities* section of this chapter.

The advertised capacity is the amount of the indicated capacity and the empty reserve combined. Indicated capacity is the difference in the amount of fuel in a full tank and a tank when the fuel gauge indicates empty. Empty reserve is the small amount of fuel remaining in the fuel 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. When refueling your vehicle after the fuel gauge indicates empty, you might not be able to refuel the full amount of the advertised capacity of the fuel tank due to the empty reserve still present in the tank.**

For consistent results when filling the fuel tank:

- Turn the engine/ignition switch to the off position prior to refueling, an error in the reading will result if the engine is left running.
- Use the same filling rate setting (low — medium — high) each time the tank is filled.
- Allow no more than two automatic click-offs when filling.
- Always use fuel with the recommended octane rating.
- Use a known quality gasoline, preferably a national brand.
- Use the same side of the same pump and have the vehicle facing the same direction each time you fill up.
- Have the vehicle loading and distribution the same every time.

Your results will be most accurate if your filling method is consistent.

## Maintenance and Specifications

### Calculating fuel economy

1. Fill the fuel tank completely and record the initial odometer reading (in miles or kilometers).
2. Each time you fill the tank, record the amount of fuel added (in gallons or liters).
3. After at least three to five tank fill-ups, fill the fuel tank and record the current odometer reading.
4. Subtract your initial odometer reading from the current odometer reading.
5. Follow one of the simple calculations in order to determine fuel economy:

Calculation 1: **Divide total miles traveled by total gallons used.**

Calculation 2: **Multiply liters used by 100, then divide by total kilometers traveled.**

Keep a record for at least one month and record the type of driving (city or highway). This will provide an accurate estimate of the vehicle's fuel economy under current driving conditions. Additionally, keeping records during summer and winter will show how temperature impacts fuel economy. In general, lower temperatures give lower fuel economy.

### Driving style — good driving and fuel economy habits

Give consideration to the lists that follow and you may be able to change a number of variables and improve your fuel economy.

#### **Habits**

- Smooth, moderate operation can yield up to 10% savings in fuel.
- Steady speeds without stopping will usually give the best fuel economy.
- Idling for long periods of time (greater than one minute) may waste fuel.
- Anticipate stopping; slowing down may eliminate the need to stop.
- Sudden or hard accelerations may reduce fuel economy.
- Slow down gradually.
- Driving at reasonable speeds (traveling at 55 mph [88 km/h] uses 15% less fuel than traveling at 65 mph [105 km/h]).
- Revving the engine before turning it off may reduce fuel economy.
- Using the air conditioner or defroster may reduce fuel economy.

## Maintenance and Specifications

- You may want to turn off the speed control in hilly terrain if unnecessary shifting between third and fourth gear occurs. Unnecessary shifting of this type could result in reduced fuel economy.
- Warming up a vehicle on cold mornings is not required and may reduce fuel economy.
- Resting your foot on the brake pedal while driving may reduce fuel economy.
- Combine errands and minimize stop-and-go driving.

### Maintenance

- Keep tires properly inflated and use only recommended size.
- Operating a vehicle with the wheels out of alignment will reduce fuel economy.
- Use recommended engine oil. Refer to *Lubricant specifications* in this chapter.
- Perform all regularly scheduled maintenance items. Follow the recommended maintenance schedule and owner maintenance checks found in *scheduled maintenance information*.

### 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 lb [180 kg] of weight carried).
- Adding certain accessories to your vehicle (for example bug deflectors, rollbars/light bars, running boards, ski/luggage racks) may reduce fuel economy.
- Fuel economy may decrease with lower temperatures during the first 8–10 miles (12–16 km) 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.
- Four-wheel-drive operation (if equipped) is less fuel efficient than two-wheel-drive operation.
- Close windows for high speed driving.

### EPA window sticker

Every new vehicle should have the EPA window sticker. Contact your authorized dealer if the window sticker is not supplied with your vehicle.

308

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Maintenance and Specifications

The EPA window sticker should be your guide for the fuel economy comparisons with other vehicles.

It is important to note the box in the lower left corner of the window sticker. These numbers represent the Range of MPG (L/100 km) expected on the vehicle under optimum conditions. Your fuel economy may vary depending upon the method of operation and conditions.

### EMISSION CONTROL SYSTEM

Your vehicle is equipped with various emission control components and a catalytic converter which will enable your vehicle to comply with applicable exhaust emission standards. To make sure that the catalytic converter and other emission control components continue to work properly:

- Use only the specified fuel listed.
- Avoid running out of fuel.
- Do not turn off the ignition while your vehicle is moving, especially at high speeds.
- Have the items listed in *scheduled maintenance information* performed according to the specified schedule.

The scheduled maintenance items listed in *scheduled maintenance information* are essential to the life and performance of your vehicle and to its emissions system.

If other than Ford, Motorcraft or Ford-authorized parts are used for maintenance replacements or for service of components affecting emission control, such non-Ford parts should be equivalent to genuine Ford Motor Company parts in performance and durability.



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.

Illumination of the  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.

## Maintenance and Specifications



Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment.

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 identifies engine displacement and gives some tune up specifications.

Please consult your *Warranty Guide* for complete emission warranty information.

### On board diagnostics (OBD-II)

Your vehicle is equipped with a computer that monitors the engine's emission control system. This system is commonly known as the On Board Diagnostics System (OBD-II). This OBD-II system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists your authorized dealer in properly servicing your vehicle. When the  indicator illuminates, the OBD-II system has detected a malfunction. Temporary malfunctions may cause the  indicator to illuminate. Examples are:

1. The vehicle has run out of fuel—the engine may misfire or run poorly.
2. Poor fuel quality or water in the fuel.
3. The fuel cap may not have been securely tightened. See *Fuel filler cap* in this chapter.

These temporary malfunctions can be corrected by filling the fuel tank with good quality fuel and/or properly tightening the fuel cap. After three driving cycles without these or any other temporary malfunctions present, the  indicator should turn off—A driving cycle consists of a cold engine startup followed by mixed city/highway driving. No additional vehicle service is required.

If the  indicator remains on, have your vehicle serviced at the first available opportunity.

### Readiness for Inspection/Maintenance (I/M) testing

In some localities, it may be a legal requirement to pass an I/M test of the on-board diagnostics system. If the  indicator is on, refer to the

## Maintenance and Specifications

description in the *Warning lights and chimes* section of the *Instrument Cluster* chapter. Your vehicle may not pass the I/M test with the  indicator on.

If the vehicle's powertrain system or its battery has just been serviced, the on-board diagnostics system is reset to a "not ready for I/M test" condition. To ready the on-board diagnostics system for I/M testing, a minimum of 30 minutes of city and highway driving is necessary as described below:

- First, at least 10 minutes of driving on an expressway or highway.
- Next, at least 20 minutes driving in stop-and-go, city-type traffic with at least four 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.

### POWER STEERING FLUID

Check the power steering fluid. Refer to the *scheduled maintenance guide* for the service interval schedules. If adding fluid is necessary, use only MERCON® ATF.

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).

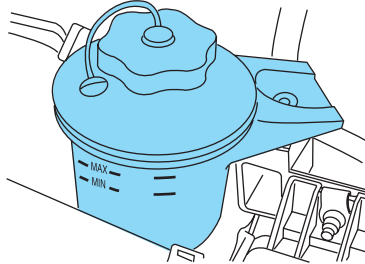
2. While the engine idles, turn the steering wheel left and right several times.

3. Turn the engine off.

4. Check the fluid level in the reservoir.

5. The fluid level should be between the MIN and MAX lines. Do not add fluid if the level is in this range.

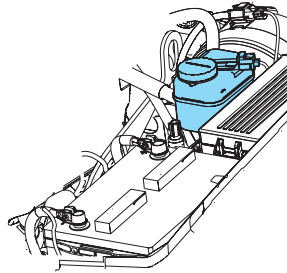
6. If the fluid is low, add fluid in small amounts, continuously checking the level until it reaches the correct operating range. Be sure to put the cap back on the reservoir.



## Maintenance and Specifications

### BRAKE FLUID

The fluid level will drop slowly as the brakes wear, and will rise when the brake components are replaced. Fluid levels below the “MAX” line that do not trigger the brake system warning lamp 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 your brake system could be compromised, seek service from your authorized dealer immediately.



### TRANSMISSION FLUID

#### Checking automatic transmission fluid

The automatic transmission does not have an underhood 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.

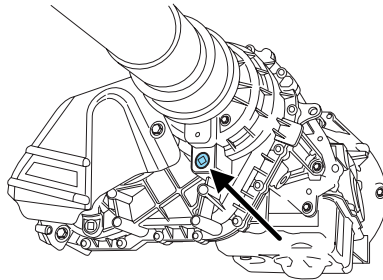
**Transmission fluid should be checked and, if required, fluid should be added by an authorized dealer.**

Do not use supplemental transmission fluid additives, treatments or cleaning agents. The use of these materials may affect transmission operation and result in damage to internal transmission components.

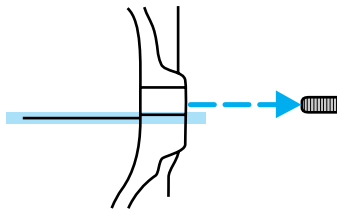
## Maintenance and Specifications

### TRANSFER CASE FLUID (IF EQUIPPED)

1. Clean the filler plug.
2. Remove the filler plug and inspect the fluid level.



3. Add only enough fluid through the filler opening so that the fluid level is at the bottom of the opening.



Use only fluid that meets Ford specifications. Refer to *Lubricant specifications* in this chapter.

### DRIVELINE UNIVERSAL JOINT AND SLIP YOKE

If the original universal joints are replaced with universal joints equipped with grease fittings, lubrication will be necessary.

Note: Your vehicle's driveshaft is balanced. If undercoating the vehicle, protect the driveshaft and universal joints to prevent overspray of any undercoating material.

### AIR FILTER

Refer to *scheduled maintenance information* for the appropriate intervals for changing the air filter element.

When changing the air filter element, use only the Motorcraft air filter element listed. Refer to *Motorcraft part numbers* in this chapter.

## Maintenance and Specifications



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.

### Changing the air filter element

1. Release the clamps that secure the air filter housing cover.
2. Carefully separate the two halves of the air filter housing.
3. Remove the air filter element from the air filter housing.
4. Wipe the air filter housing and cover clean to remove any dirt or debris and to ensure good sealing.
5. Install a new air filter element. Be careful not to crimp the filter element edges between the air filter housing and cover. This could cause filter damage and allow unfiltered air to enter the engine if not properly seated.
6. Replace the air filter housing cover and secure the clamps.

**Note:** Failure to use the correct air filter element may result in severe engine damage. The customer warranty may be voided for any damage to the engine if the correct air filter element is not used.

### MOTORCRAFT PART NUMBERS

| Component          | 4.0L SOHC V6 engine | 4.6L 3V V8 engine |
|--------------------|---------------------|-------------------|
| Air filter element | FA-1695             | FA-1780           |
| Fuel filter        | 2C5E-9155-BB        | 2C5E-9155-BB      |
| Battery            | BXT-65-650          | BXT-65-650        |
| Oil filter         | FL-820S             | FL-820S           |
| PCV valve          | <sup>1</sup>        |                   |
| Spark plugs        | <sup>2</sup>        |                   |

<sup>1</sup>The PCV valve is a critical emission component. It is one of the items listed in *scheduled maintenance information* and is essential to the life and performance of your vehicle and to its emissions system. For PCV valve replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the PCV valve.

**Replace the PCV valve with one that meets Ford material and design specifications for your vehicle, such as a Motorcraft or equivalent replacement part. The customer warranty may be void for any damage to the emissions system if such a PCV valve is not used.**

## Maintenance and Specifications

<sup>2</sup>For spark plug replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the spark plugs.

**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.**

### REFILL CAPACITIES

| Fluid                                             | Ford Part Name                                                                                                       | Application | Capacity                  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------|---------------------------|
| Brake fluid                                       | Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid                                                          | All         | Fill to line on reservoir |
| Engine oil (including filter change) <sup>4</sup> | Motorcraft SAE 5W-30 Premium Synthetic Blend Motor Oil (US)<br>Motorcraft SAE 5W-30 Super Premium Motor Oil (Canada) | 4.0L engine | 5.0 quarts (4.7L)         |
|                                                   | Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil (US)<br>Motorcraft SAE 5W-20 Super Premium Motor Oil (Canada) | 4.6L engine | 6.0 quarts (5.7L)         |
| Fuel tank                                         | N/A                                                                                                                  | All         | 22.5 gallons (85.2L)      |

## Maintenance and Specifications

| Fluid                              | Ford Part Name                                          | Application                                             | Capacity                                        |
|------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|
| Power steering fluid               | Motorcraft MERCON® ATF                                  | All                                                     | Fill between the MIN and MAX lines on reservoir |
| Transmission fluid <sup>1</sup>    | Motorcraft MERCON® V ATF                                | Automatic transmission (5R55S)                          | 13.0 quarts (12.3L) <sup>2</sup>                |
| Transmission fluid <sup>1</sup>    | Motorcraft MERCON® SP ATF                               | Automatic transmission (6R60)                           | 11.2 quarts (10.6L) <sup>2</sup>                |
| Transfer case                      | Motorcraft MERCON® ATF                                  | 4WD                                                     | 1.5 quarts (1.4L)                               |
| Engine coolant <sup>3</sup>        | Motorcraft Premium Gold Engine Coolant (yellow-colored) | 4.0L V6 engine <b>without</b> auxiliary climate control | 12.2 quarts (11.5L)                             |
|                                    |                                                         | 4.0L V6 engine <b>with</b> auxiliary climate control    | 13.9 quarts (13.2L)                             |
|                                    |                                                         | 4.6L V8 engine <b>without</b> auxiliary climate control | 13.9 quarts (13.2L)                             |
|                                    |                                                         | 4.6L V8 engine <b>with</b> auxiliary climate control    | 15.7 quarts (14.9L)                             |
| Front axle lubricant (if equipped) | Motorcraft SAE 80W-90 Premium Rear Axle Lubricant       | 4WD                                                     | 2.7 pints (1.3L)                                |

## Maintenance and Specifications

| Fluid                   | Ford Part Name                                               | Application | Capacity             |
|-------------------------|--------------------------------------------------------------|-------------|----------------------|
| Rear axle lubricant     | Motorcraft<br>75W-140<br>Synthetic Rear<br>Axle Lubricant    | All         | 3.5 pints (1.7L)     |
| Windshield washer fluid | Motorcraft<br>Premium<br>Windshield<br>Washer<br>Concentrate | All         | 4.2 quarts<br>(4.0L) |

<sup>1</sup>Ensure the correct automatic transmission fluid is used. MERCON®, MERCON® V and MERCON® SP are not interchangeable. DO NOT mix MERCON®, MERCON® V and MERCON® SP. Use of dual usage fluids in an automatic transmission application requiring MERCON® SP may cause transmission damage. Use of a transmission fluid other than the recommended fluid may cause transmission damage. Refer to your *scheduled maintenance information* to determine the correct service interval.

<sup>2</sup>Indicates only approximate dry-fill capacity. Some applications may vary based on cooler size and if equipped with an in-tank cooler. The amount of transmission fluid and fluid level should be checked by a qualified technician.

<sup>3</sup>Add the coolant type originally equipped in your vehicle.

<sup>4</sup>Use of synthetic or synthetic blend motor oil is not mandatory. Engine oil need only have the API Certification mark and meet the requirements of Ford specification WSS-M2C929-A (4.0L) or WSS-M2C930-A (4.6L).

## Maintenance and Specifications

### LUBRICANT SPECIFICATIONS

| Item                                                                                                                                           | Ford Part Name or equivalent                                | Ford Part Number                                      | Ford Specification         |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|----------------------------|
| Brake fluid                                                                                                                                    | Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid | PM-1 or PM-1-C                                        | ESA-M6C25-A or WSS-M6C62-A |
| Body hinges, latches, door striker plates and rotors, seat tracks, fuel filler door hinge and spring, hood latch, auxiliary latch, seat tracks | Multi-Purpose Grease                                        | XG-4 or XL-5                                          | ESB-M1C93-B                |
| Door weatherstrips                                                                                                                             | Silicone Spray Lubricant                                    | XL-6                                                  | ESR-M13P4-A                |
| Lock cylinders                                                                                                                                 | Motorcraft Penetrating and Lock Lubricant                   | XL-1                                                  | none                       |
| Driveshaft, slip spline, universal joints                                                                                                      | Premium Long Life Grease                                    | XG-1-C                                                | ESA-M1C75-B                |
| Engine coolant                                                                                                                                 | Motorcraft Premium Gold Engine Coolant (yellow-colored)     | VC-7-A (except CA, OR and NM), VC-7-B (CA, OR and NM) | WSS-M97B51-A1              |
| Cooling system stop leak pellets                                                                                                               | Motorcraft Cooling System Stop Leak Pellets                 | VC-6                                                  | WSS-M99B37-B6              |

## Maintenance and Specifications

| Item                                        | Ford Part Name or equivalent                                                                                         | Ford Part Number                             | Ford Specification                       |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------|
| Engine oil (4.0L)                           | Motorcraft SAE 5W-30 Premium Synthetic Blend Motor Oil (US)<br>Motorcraft SAE 5W-30 Super Premium Motor Oil (Canada) | XO-5W30-QSP (US)<br>CXO-5W30-LSP12 (Canada)  | WSS-M2C929-A with API Certification Mark |
| Engine oil (4.6L)                           | Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil (US)<br>Motorcraft SAE 5W-20 Super Premium Motor Oil (Canada) | XO -5W20-QSP (US)<br>CXO-5W20-LSP12 (Canada) | WSS-M2C930-A with API Certification Mark |
| Automatic transmission (5R55S) <sup>1</sup> | Motorcraft MERCON® V ATF                                                                                             | XT-5-QM                                      | MERCON®V                                 |
| Automatic transmission (6R60) <sup>1</sup>  | Motorcraft MERCON® SP ATF                                                                                            | XT-6-QSP                                     | MERCON® SP                               |
| Power steering fluid                        | Motorcraft MERCON® Multi-Purpose ATF                                                                                 | XT-2-QDX                                     | MERCON®                                  |
| Rear axle                                   | Motorcraft 75W-140 Synthetic Rear Axle Lubricant                                                                     | XY-75W140-QL                                 | WSL-M2C192-A                             |

## Maintenance and Specifications

| Item                                        | Ford Part Name or equivalent                      | Ford Part Number | Ford Specification |
|---------------------------------------------|---------------------------------------------------|------------------|--------------------|
| Front axle (4WD)                            | Motorcraft SAE 80W-90 Premium Rear Axle Lubricant | XY-80W90-QL      | WSP-M2C197-A       |
| Transfer case (4WD)                         | Motorcraft MERCON® Multi-Purpose ATF              | XT-2-QDX         | MERCON®            |
| Transfer case Front Output Slip Shaft (4WD) | Premium Long-Life Grease                          | XG-1-C           | ESA-M1C75-B        |
| Windshield washer fluid                     | Motorcraft Premium Windshield Washer Concentrate  | ZC-32-A          | WSB-M8B16-A2       |

<sup>1</sup>Ensure the correct automatic transmission fluid is used. MERCON®, MERCON® V and MERCON® SP are not interchangeable. DO NOT mix MERCON®, MERCON® V and MERCON® SP. Use of dual usage fluids in an automatic transmission application requiring MERCON® SP may cause transmission damage. Use of a transmission fluid other than the recommended fluid may cause transmission damage. Refer to your *scheduled maintenance information* to determine the correct service interval.

## Maintenance and Specifications

### ENGINE DATA

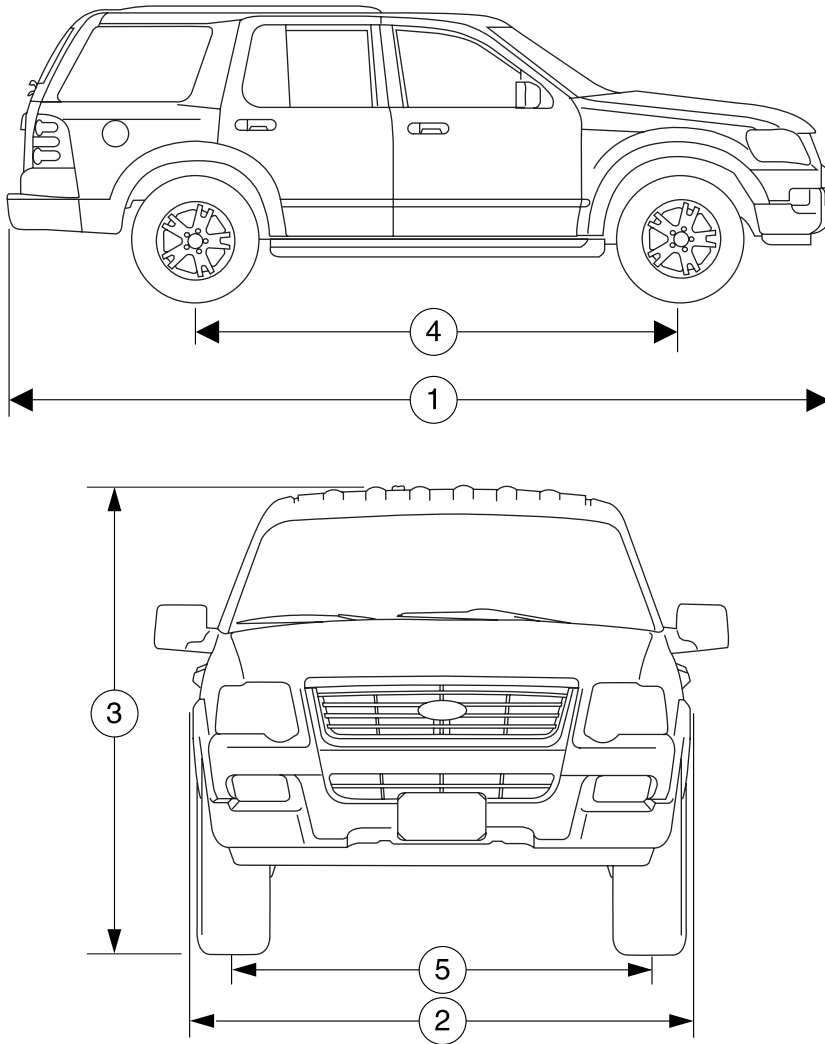
| Engine                                        | 4.0L SOHC V6 engine                | 4.6L 3V V8 engine                               |
|-----------------------------------------------|------------------------------------|-------------------------------------------------|
| Cubic inches                                  | 245                                | 281                                             |
| Required fuel                                 | 87 octane                          | 87 octane                                       |
| Firing order                                  | 1-4-2-5-3-6                        | 1-3-7-2-6-5-4-8                                 |
| Ignition system                               | EDIS                               | Coil on Plug                                    |
| Spark plug gap                                | 0.052–0.056 inch<br>(1.32–1.42 mm) | 0.040–0.050 inch<br>(1.02–1.27 mm) <sup>1</sup> |
| Compression ratio                             | 9.7:1                              | 9.8:1                                           |
| <sup>1</sup> Spark plug gap is not adjustable |                                    |                                                 |

### VEHICLE DIMENSIONS

| Dimensions             | 4-Door 4x2 or 4x4 XLT Model - Inches (mm) |
|------------------------|-------------------------------------------|
| (1) Overall length     | 193.4 (4912.3)                            |
| (2) Overall width      | 73.7 (1872.5)                             |
| (3) Maximum height*    | 72.8 (1849.1)                             |
| (4) Wheelbase          | 113.7 (2888.7)                            |
| (5) Track width, front | 60.9 (1547.5)                             |
| (5) Track width, rear  | 62 (1574.3)                               |

\* Height includes roof rack and cross bars with P235/65R18 tire

## Maintenance and Specifications



## Maintenance and Specifications

### IDENTIFYING YOUR VEHICLE

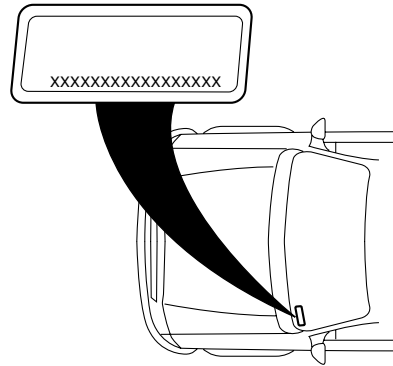
#### Safety Compliance Certification Label

The National Highway Traffic Safety Administration Regulations require that a Safety Compliance Certification Label be affixed to a vehicle and prescribe where the Safety Compliance Certification Label may be located. The Safety Compliance Certification Label is located on the structure by the trailing edge of the driver's door or the edge of the driver's door.

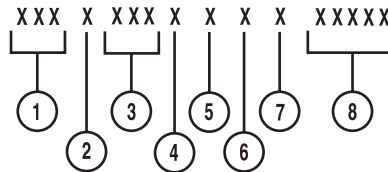
| MFD. BY FORD MOTOR CO.                                                                                                                                |                                 |                   |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|------------------------|
| DATE: XX/XX                                                                                                                                           | GVWR: XXXXXLB/ XXXXXKG          |                   |                        |
| FRONT GAWR: XXXXL                                                                                                                                     | WITH                            | REAR GAWR: XXXXLB | WITH                   |
| XXXXKG                                                                                                                                                | TIRES                           | XXXXKG            | TIRES                  |
| XXXX/XXXXXX                                                                                                                                           | RIMS                            | XXXX/XXXXXX       | RIMS                   |
| XXXX.XX                                                                                                                                               | AT XXX kPa/XX PSI COLD          | XXXX.XX           | AT XXX kPa/XX PSI COLD |
| THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. |                                 |                   |                        |
| VIN: XXXXXXXXXXXXXXXX                                                                                                                                 |                                 |                   | XXXXX                  |
| TYPE: XXX                                                                                                                                             |                                 |                   | XXXXX                  |
|                                                                     |                                 |                   |                        |
| EXT PNT: XX                                                                                                                                           | RC: XX                          | DSO: XXXXX        |                        |
| WB BRK INT TR TP/PS R AXLE TR SPR                                                                                                                     | XXXXX                           |                   |                        |
| XXX X XX X XX X XX XXX                                                                                                                                | XXXXXXXXXXXX XXX XXXX-XXXXXX-XX |                   |                        |

#### Vehicle identification number

The vehicle identification number (VIN) is a 17 digit combination of letters and numbers. The VIN is attached to a metal tag and is located on the driver side instrument panel. The VIN number is also found on the Certification label. (Please note that in the graphic XXXX is representative of your vehicle identification number.)



1. World manufacturer identifier
2. Brake type and gross vehicle weight rating (GVWR)
3. Vehicle line, series, body type
4. Engine type
5. Check digit



## Maintenance and Specifications

6. Model year
7. Assembly plant
8. Production sequence number

### TRANSMISSION/TRANSAXLE CODE DESIGNATIONS

You can find a transmission/transaxle code on the Safety Compliance Certification Label. The following table tells you which transmission or transaxle each code represents.

**MFD. BY FORD MOTOR CO.**

DATE: XX/XX GVWR: XXXXXLB/ XXXXXKG  
 FRONT GAWR: XXXXL WITH REAR GAWR: XXXXLB  
 XXXXKG WITH XXXXKG WITH  
 XXXX/XXXXXXX TIRES: XXXX/XXXXXXX TIRES  
 XXXX.XX RIMS: XXXX.XX RIMS  
 AT XXX kPa/XX PSI COLD AT XXX kPa/XX PSI COLD

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR  
 VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN  
 EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VIN: XXXXXXXXXXXXXXXX XXXXX  
 TYPE: XXX XXXXX

EXT PNT: XX RC: XX DSO: XXXXX  
 WB<sup>1</sup> BRK<sup>1</sup> INT TR<sup>1</sup> TP/PS<sup>1</sup> R<sup>1</sup> AXLE<sup>1</sup> TR<sup>1</sup> SPR<sup>1</sup> XXXXX  
 XXX X XX X XX X XX XXX

XXXXXXXXXXXXX XX XXXX-XXXXXX-XX

| Description                  | Code |
|------------------------------|------|
| Five-speed automatic (5R55S) | V    |
| Six-speed automatic (6R60)   | X    |

## Accessories

### GENUINE FORD ACCESSORIES FOR YOUR VEHICLE

A wide selection of Genuine Ford Accessories are available for your vehicle through your local Ford or Ford of Canada dealer. These quality accessories have been specifically engineered to fulfill your automotive needs; they are custom designed to complement the style and aerodynamic appearance of your vehicle. In addition, each accessory is made from high quality materials and meets or exceeds Ford's rigorous engineering and safety specifications. Ford Motor Company will repair or replace any properly dealer-installed Genuine Ford Accessories found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessory. The accessories will be warranted for whichever provides you the greatest benefit:

- 12 months or 12,000 miles (20,000 km) (whichever occurs first), or
- the remainder of your new vehicle limited warranty.

This means that Genuine Ford Accessories purchased along with your new vehicle and installed by a dealer are covered for the full length of your New Vehicle's Limited Warranty — 3 years or 36,000 miles (60,000 km) (whichever occurs first). Contact your dealer for details and a copy of the warranty.

#### **Not all accessories are available for all models.**

The following is a list of several Genuine Ford Accessories. Not all accessories are available for all models. For a complete listing of the accessories that are available for your vehicle, please contact your dealer or visit our online store at: [www.fordaccessoriesstore.com](http://www.fordaccessoriesstore.com).

#### **Exterior style**

Bug shields

Deflectors

Running boards

Splash guards

Step Bars

#### **Interior style**

Electrochromatic compass/temperature interior mirrors

Floor mats

Scuff plates

## Accessories

### Lifestyle

Cargo organization and management

Neutral tow kit

Trailer hitches and accessories

### Peace of mind

Mobile-Ease<sup>™</sup> hands-free communication system

Remote start

Vehicle security systems

Wheel locks

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Consult your authorized dealer for specific weight information.
- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems — such as two-way radios, telephones and theft alarms - that are equipped with radio transmitters. Any such equipment installed in your vehicle should comply with FCC or CRTC regulations and should be installed only by a qualified service technician.
- Mobile communications systems may harm the operation of your vehicle, particularly if they are not properly designed for automotive use.
- To avoid interference with other vehicle functions, such as anti-lock braking systems, amateur radio users who install radios and antennas onto their vehicle should not locate the Amateur Radio Antennas in the area of the driver's side hood.
- Electrical or electronic accessories or components that are added to the vehicle by the authorized dealer or the owner may adversely affect battery performance and durability.

## Index

### A

Accessory delay .....64  
 AdvanceTrac .....217  
 Air cleaner filter .....313–314  
 Air conditioning .....43  
 Airbag supplemental restraint system .....147–148, 156, 158  
   and child safety seats .....149  
   description .....148, 156, 158  
   disposal .....161  
   driver airbag .....150, 157, 159  
   indicator light .....156, 161  
   operation .....150, 157, 159  
   passenger airbag .....150, 157, 159  
   side airbag .....156  
 Ambulance packages .....8  
 Antifreeze  
   (see Engine coolant) .....294  
 Anti-lock brake system  
   (see Brakes) .....216  
 Anti-theft system .....117  
 Audio system  
   (see Radio) .....21, 26, 31  
 Automatic transmission  
   driving an automatic  
   overdrive .....224, 227  
   fluid, adding .....312  
   fluid, checking .....312  
   fluid, refill capacities .....315  
   fluid, specification .....321  
 Auxiliary power point .....61  
 Axle  
   lubricant specifications ..318, 321  
   refill capacities .....315

### B

Battery .....292

acid, treating emergencies .....292  
 jumping a disabled battery ....262  
 maintenance-free .....292  
 replacement, specifications ...314  
 servicing .....292  
 BeltMinder .....142  
 Brakes .....215  
   anti-lock .....216  
   anti-lock brake system (ABS)  
     warning light .....216  
     fluid, checking and adding ...312  
     fluid, refill capacities .....315  
     fluid, specifications .....318, 321  
     lubricant specifications ..318, 321  
     parking .....216  
     shift interlock .....223

### C

Calculating load .....205  
 Capacities for refilling fluids ....315  
 Cargo cover .....100  
 Cargo management system .....101  
 Cassette tape player .....21, 26  
 Cell phone use .....9  
 Changing a tire .....252  
 Child safety restraints .....162  
   child safety belts .....162  
 Child safety seats .....166  
   attaching with tether straps ..170  
   in front seat .....167  
   in rear seat .....167  
 Cleaning your vehicle  
   engine compartment .....277  
   instrument panel .....279  
   interior .....280  
   interior trim .....279  
   plastic parts .....278

327

**2006 Explorer (exp)  
 Owners Guide (post-2002-fmt)  
 USA (fus)**

## Index

washing .....275  
waxing .....276  
wheels .....276  
wiper blades .....278  
Climate control (see Air conditioning or Heating) .....43  
Clock adjust  
    6-CD in dash .....32  
    AM/FM/CD .....22  
    AM/FM/Tape/CD .....27  
Compass, electronic .....82  
    calibration .....83  
    set zone adjustment .....83, 95  
Console .....62–63  
    overhead .....60  
    rear .....63  
Controls  
    power seat .....122  
    steering column .....69  
Coolant  
    checking and adding .....294  
    refill capacities .....298, 315  
    specifications .....318, 321  
Cruise control  
    (see Speed control) .....66  
Customer Assistance .....241  
    Ford Extended Service Plan .....272  
    Getting assistance outside the U.S. and Canada .....273  
    Getting roadside assistance ...241  
    Getting the service you need .....268  
    Ordering additional owner's literature .....273  
    Utilizing the Mediation/Arbitration Program .....271

## D

Daytime running lamps (see Lamps) .....49  
Defrost  
    rear window .....47  
Dipstick  
    automatic transmission fluid .....312  
    engine oil .....287  
Doors  
    lubricant specifications .....318  
Driveline universal joint and slip yoke .....313  
Driving under special conditions .....230, 234, 238  
    sand .....236  
    snow and ice .....239  
    through water .....237, 240  
Dual automatic temperature control (DATC) .....43  
DVD system .....40

## E

Electronic message center ...76, 87  
Emergencies, roadside  
    jump-starting .....262  
Emergency Flashers .....243  
Emission control system .....309  
Engine .....321  
    cleaning .....277  
    coolant .....294  
    fail-safe cooling .....299  
    idle speed control .....292  
    lubrication  
        specifications .....318, 321  
        refill capacities .....315

328

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Index

- service points .....284–285
- starting after a collision .....243
- Engine block heater .....215
- Engine oil .....287
  - checking and adding .....287
  - dipstick .....287
  - filter, specifications .....290, 314
  - recommendations .....290
  - refill capacities .....315
  - specifications .....318, 321
- Exhaust fumes .....215
- F**
- Fail safe cooling .....299
- Floor mats .....100
- Fluid capacities .....315
- Foglamps .....48
- Four-Wheel Drive vehicles .....232
  - driving off road .....233
  - indicator light .....232
  - preparing to drive your vehicle .....222
- Fuel .....301
  - calculating fuel economy .....78, 89, 306
  - cap .....303
  - capacity .....315
  - choosing the right fuel .....304
  - comparisons with EPA fuel economy estimates .....308
  - detergent in fuel .....305
  - filling your vehicle with fuel .....301, 303, 306
  - filter, specifications .....300, 314
  - fuel pump shut-off switch .....243
  - improving fuel economy .....306
  - octane rating .....304, 321
  - quality .....305
  - running out of fuel .....305
  - safety information relating to automotive fuels .....301
- Fuses .....245–246
- G**
- Garage door opener .....61
- Gas cap (see Fuel cap) .....303
- Gas mileage (see Fuel economy) .....306
- Gauges .....18
- GAWR (Gross Axle Weight Rating)
  - calculating .....205
- GVWR (Gross Vehicle Weight Rating)
  - calculating .....205
- H**
- Hazard flashers .....243
- Head restraints .....120
- Headlamps
  - aiming .....50
  - bulb specifications .....53
  - daytime running lights .....49
  - flash to pass .....49
  - high beam .....49
- Heating
  - heating and air conditioning system .....41, 43
- Homelink wireless control system .....72
- Hood .....283
- I**
- Ignition .....213, 321

329

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Index

Illuminated visor mirror .....59  
 Infant seats  
   (see Safety seats) .....166  
 Inspection/maintenance (I/M)  
   testing .....310  
 Instrument panel  
   cleaning .....279  
   cluster .....12

### J

Jack .....252, 256  
   positioning .....252, 258  
   storage .....252, 256  
 Jump-starting your vehicle .....262

### K

Keyless entry system .....112  
   autolock .....114–115  
   keypad .....112  
   locking and unlocking doors ..113  
   programming entry code .....112  
 Keys .....118  
   positions of the ignition .....213

### L

Lamps  
   bulb replacement  
     specifications chart .....52–53  
   daytime running light .....49  
   fog lamps .....48  
   interior lamps .....52  
 Liftgate .....101  
   remote release .....108  
 Lights, warning and indicator ....12  
   anti-lock brakes (ABS) .....216  
 Load limits .....198  
 Loading instructions .....205

330

Locks  
   autolock .....114–115  
   childproof .....106  
   doors .....104  
 Lubricant specifications ...318, 321  
 Lug nuts .....261  
 Luggage rack .....102  
 Lumbar support, seats .....122, 125

### M

Message center .....76, 87–88  
   english/metric button .....80, 92  
   system check button .....79, 91  
   warning messages .....84, 97  
 Mirrors .....65  
   automatic dimming rearview  
     mirror .....65  
   fold away .....66  
   heated .....66  
   side view mirrors (power) .....65  
 Moon roof .....71  
 Motorcraft parts .....281, 300, 314

### N

Navigation system .....40

### O

Octane rating .....304  
 Oil (see Engine oil) .....287

### P

Parking brake .....216  
 Parts (see Motorcraft parts) ....314  
 Passenger Occupant  
   Classification Sensor .....133

**2006 Explorer (exp)**  
**Owners Guide (post-2002-fmt)**  
**USA (fus)**

## Index

- Pedals (see Power adjustable foot pedals) .....66
- Power adjustable foot pedals .....66
- Power distribution box (see Fuses) .....249
- Power door locks .....104
- Power mirrors .....65
- Power point .....61–62
- Power steering .....221
  - fluid, checking and adding ....311
  - fluid, refill capacity .....315
  - fluid, specifications .....318, 321
- Power Windows .....63
- Preparing to drive your vehicle .....222
- R**
- Radio .....21, 26, 31
- Rear window defroster .....47
- Relays .....245
- Remote entry system .....106–107
  - illuminated entry .....111
  - locking/unlocking doors .....107–108
  - panic alarm .....108
  - replacing the batteries .....109
- Reverse sensing system .....230
- Roadside assistance .....241
- Roof rack .....102
- S**
- Safety Belt Maintenance .....147
- Safety belts (see Safety restraints) .....132, 135–140
- Safety Canopy .....156, 158–159
- Safety defects, reporting .....274
- Safety restraints .....132, 135–140
  - belt minder .....142
  - extension assembly .....141
  - for adults .....136–139
  - for children .....161–162
  - Occupant Classification Sensor .....133
  - safety belt maintenance .....147
  - warning light and chime .....141–142
- Safety seats for children .....166
- Safety Compliance Certification Label .....323
- Seat belts (see Safety restraints) .....132
- Seats .....120
  - child safety seats .....166
  - front seats .....121
  - heated .....125
  - memory seat .....108, 124
- SecuriLock passive anti-theft system .....117
- Setting the clock
  - AM/FM single CD .....22
  - AM/FM/In-dash 6 CD .....32
  - AM/FM/Tape/CD .....27
- Snowplowing .....8
- Spark plugs, specifications .....314, 321
- Special notice
  - ambulance conversions .....8
  - utility-type vehicles .....8
- Specification chart, lubricants .....318, 321
- Speed control .....66
- Starting your vehicle .....213–214
  - jump starting .....262

## Index

- Steering wheel
  - controls .....69
  - tilting .....59
- T**
- Tilt steering wheel .....59
- Tire Pressure Monitoring System (TPMS)
  - Driving .....236
  - Roadside Emergencies .....252
  - Tires, Wheels and Loading ....192
  - Warning Displays .....12, 84, 97
- Tires .....178–179, 252
  - alignment .....190
  - care .....187
  - changing .....252, 258
  - checking the pressure .....182
  - inflating .....180
  - label .....187
  - replacing .....189, 258
  - rotating .....191
  - safety practices .....190
  - sidewall information .....182
  - snow tires and chains .....197
  - spare tire .....253, 256–257
  - terminology .....179
  - tire grades .....179
  - treadwear .....178, 188
- Towing .....205
  - recreational towing .....212
  - trailer towing .....205
  - wrecker .....267
- Transfer case
  - fluid checking .....313
- Transmission .....223
  - brake-shift interlock (BSI) ....223
  - fluid, checking and adding (automatic) .....312
  - fluid, refill capacities .....315
  - lubricant specifications ..318, 321
- Turn signal .....51
- V**
- Vehicle dimensions .....321
- Vehicle Identification Number (VIN) .....323
- Vehicle loading .....198
- Ventilating your vehicle .....215
- W**
- Warning lights (see Lights) .....12
- Washer fluid .....286
- Water, Driving through .....240
- Windows .....108
  - power .....63
  - rear wiper/washer .....59
- Windshield washer fluid and wipers .....58
  - checking and adding fluid ....286
  - liftgate reservoir .....286
  - replacing wiper blades .....287
- Wrecker towing .....267







