

**AUTOLAMP (SEC)**

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

Press RESET to select the new Autolamp delay values of 0, 10, 20, 30, 60, 90, 120 or 180 seconds.

**AUTOLOCK**

This feature automatically locks all vehicle doors when the vehicle is shifted into any gear and driven.

Press RESET to turn autolock on or off.

**AUTOUNLOCK**

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

Press RESET to turn autounlock on or off.

**REAR PARK AID**

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.

Press RESET to turn it off or on.

**CREATE MYKEY / MYKEY SETUP/ CLEAR MYKEY**

For more information refer to the *MyKey*<sup>®</sup> chapter.

**LANGUAGE = ENGLISH / SPANISH / FRENCH**

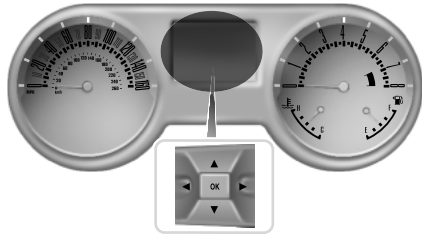
Allows you to choose which language for the information display. Selectable languages are English, Spanish, or French.

Waiting four seconds or pressing the RESET button cycles through each of the language choices.

Press and hold RESET for two seconds to set the language choice.

**Information messages**

See *Information messages* later in this chapter for more information.

**Information Display Controls (Type 2)**

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

**Main menu**

You can access the menus using the information display control.



- Gauge Mode



- Trip A/B



- Fuel Economy



- Track Apps (Track use only)



- Settings



- Information

| †Gauge Mode   |  |                            |
|---------------|--|----------------------------|
| Gauges Detail | Air/Fuel Ratio   | Virtual gauge shown        |
|               | Vacuum inHG / Boost psi (Shelby® GT500®)                               | Virtual gauge shown        |
|               | Cyl Head   | Virtual gauge shown        |
|               | Inlet Air  | Virtual gauge shown        |
|               | Oil Press.   | No virtual gauge available |
|               | Oil Temp.  | Virtual gauge shown        |
|               | Trans temp (auto transmission only)                                    | Virtual gauge shown        |
|               | Voltage  | Virtual gauge shown        |
|               | †See <i>Virtual gauges</i> later in this section for more information. |                            |

| †Trip A/ B  |  |
|---|--|
| Trip time   |  |
| Trip distance   |  |
| Fuel used   |  |
| Avg mpg(L/100km)  |  |
| Odometer (displays in lower line and may display in other menus)      |  |
| †See <i>Trip computer</i> later in this section for more information. |  |

| Fuel Economy   |   |
|--|---|
| Fuel Econ.   | Instant MPG (L/100km)   |
|  | mi (km) to E  |
|  | AVG MPG (L/100km)   |
| Fuel Hist.: shows fuel usage as a bar graph based on time. The duration time can be changed. | Duration: 5 Minutes, 10 Minutes, 30 Minutes, Last 5 Resets. The graph is updated each minute with the fuel economy that was achieved during the prior 5, 10, 30 minutes of driving. |

| †Track Apps  |                                       |  |               |  |
|--|---------------------------------------|--|---------------|--|
| Accelerometer  |                                       |  |               |  |
| Acceleration timer   |                                       |  |               |  |
| Brake Performance  |                                       |  |               |  |
| Dashboard<br>Screen (Shelby®<br>GT500®)                            | Launch Control<br>(Shelby®<br>GT500®) | Off/On / RPM Setting   |               |  |
| View/Clear Results   |                                       |  |               |  |
| †See <i>Track apps</i> later in this section for more information. |                                       |  |               |  |
| Settings   |                                       |  |               |  |
| Driver Assist  | Rear Park Aid                         | On/Off   |               |  |
| Vehicle  | Autolamp Delay                        | Off or XXX seconds   |               |  |
|  | Locks                                 | Autolock   | On/Off        |  |
|  |                                       | Autounlock   | On/Off        |  |
|  | Menu Control                          | Standard: with standard set, pressing the up/down arrows from a lower level menu will escape to the main menu.<br>Memory On: with memory on set, pressing the up/down arrows will navigate to the previous lower level menu. |               |  |
|  | Oil Life Reset                        | Set to XXX% (Hold OK to Reset).  |               |  |
|  | Shiftpoint<br>(Shelby®<br>GT500®)     | Shiftlamp  | On/Off        |  |
|  |                                       | Shiftpoint   | 1500–7000 RPM |  |
| Shifttone  |                                       | On/Off   |               |  |

| Settings |                                |                |   |
|----------|--------------------------------|----------------|---|
| Vehicle  | Dampers<br>(Shelby®<br>GT500®) | Sport / Normal |   |
|          | Steering Feel                  | Standard       |   |
|          |                                | Sport          | Sport Locked:<br>This will display<br>when<br>AdvanceTrac®<br>sport mode is<br>on or when<br>AdvanceTrac®<br>and traction<br>control are off.<br>The steering<br>feel will be<br>locked in sport<br>mode and<br>steering feel<br>will not be<br>selectable. |
|          |                                | Comfort        |   |

| Settings  |  |  |  |  |
|---|--|--|--|--|
| †MyColor  | Gauge Color  | Ice Blue, White, Green, Purple, Blue, Orange, Red, MyColor 1, 2, 3 |  |  |
|   | Halo   | Halo Light   | On/Off   |  |
|   |  | Halo Color   | Ice Blue, White, Green, Purple, Blue, Orange, Red, MyColor 1, 2, 3 |  |
|   | Ambient Light  | Ambient Light  | On/Off   |  |
|   |  | Ambient Dim  | High/Low   |  |
|   |  | Ambient Color  | Ice Blue, White, Green, Purple, Blue, Orange, Red, MyColor 1, 2, 3 |  |
|   | Set MyColor 1, 2, 3 (create your own color by adjusting the levels (1–5) of the three primary colors – red, green, and blue. | Red  | 1–5  |  |
|   |  | Green  |  |  |
|   |  | Blue   |  |  |
|   | MyKey  | Create MyKey   | Hold OK to create MyKey  |  |
| *The following only display if MyKey is programmed: |  |  |  |  |
| *AdvanceTrac  |  | Always On / Selectable   |  |  |
| *MAX Speed  |  | 80 MPH (130 km/h) or Off   |  |  |
| *Speed Warning                                      |  | 45, 55 or 65 MPH (75, 90 or 105 km/h), Off                         |  |  |
| *Volume Limiter                                     |  | On/Off   |  |  |
| *Clear MyKey  |  | Hold OK to Clear MyKey   |  |  |
| *Language   | English, Español, Français   |  |  |  |

| Settings   |   |
|--|---|
| Units  | English or Metric   |
| System Reset   | Hold OK to Reset System to Factory Default  |
| †The instrument cluster gauges are backlit white when the headlamps are off. When the headlamps are on, you can select one of the preset colors or MyColor 1, 2, 3 for the nighttime gauge backlighting. A gauge in a warning condition will be backlit red when the headlamps are on. |   |
| *Track Application features and messages in the information display are only available in English.   |   |
| Information  |   |
| MyKey  | Admin Keys (Number of admin keys)   |
|  | MyKeys (Number of MyKeys programmed)  |
|  | MyKey Miles (km) (Distance traveled using a programmed MyKey)   |
| System Check   | Some items will only display during a system check if a problem has been detected. If an issue exists on one of the monitored systems, the number of warnings that need immediate attention will display in red and the number of informational warnings will display in amber. Use the up/down arrow buttons to scroll through the list; press the right arrow button to display specific information on the highlighted warning |

**TRIP COMPUTER (Trip A and B)**

**Resetting or pausing the trip computer**

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

**Trip time**

Registers the time of individual journeys.

**Trip distance**

Registers the mileage of individual journeys.

**Fuel used**

Shows the amount of fuel used for a given trip.

**Average MPG (L/100km)**

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

**Odometer**

Registers the total mileage of the vehicle.

**VIRTUAL GAUGES**

**Note:** In order to provide real-time values, some gauges may display more value fluctuation than others during normal operation.

Some gauges shown in standard measure. Metric similar.

**AIR FUEL RATIO**

Displays the current air to fuel mixture in the engine.

**VACUUM inHG / BOOST psi (Shelby® GT500®)**

See the *Shelby GT500 Supplement*.

**CYLINDER HEAD TEMP (IF EQUIPPED)**

Displays the engine's cylinder head temperature.



**INLET AIR TEMP**



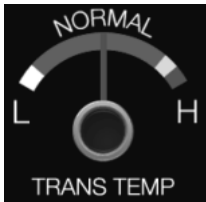
Displays the temperature of the air in the cold air inlet tube.

**OIL TEMP**



Displays the engine oil temperature. If the temperature rises to the red area, stop in a safe place and let the vehicle cool. If the problem persists, see your authorized dealer.

**TRANS TEMP (Automatic Transmission only)**



Displays the transmission fluid operating temperature. If the temperature rises to the red area, stop in a safe place and let the transmission cool. If the problem persists, see your authorized dealer.

**VOLTS**



Displays the vehicle's battery voltage. If the voltage is consistently too high or very low, see your authorized dealer.

**TRACK APPS (IF EQUIPPED)**

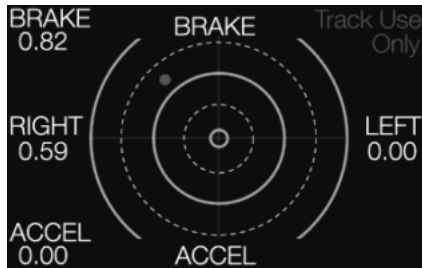
**WARNING:** Track Apps is for track use only. Remember that even advanced technology cannot defy the laws of physics. It's always possible to lose control of a vehicle due to inappropriate driver input for the conditions. Aggressive driving on any road condition can cause you to lose control of your vehicle increasing the risk of personal injury or property damage.

**Note:** Track Apps are for track use only. They are not to be used under any other driving conditions.

**Note:** Viewed or cleared results cannot be used unless the vehicle is at a complete stop. The right arrow on the display menu will be inactive. 1/4 mile results may not be displayed if the vehicle does not reach 100 mph (160 kph) during the track run.

**Accelerometer**

Displays the vehicle rate of acceleration/deceleration.



- The red dot will move toward the area of acceleration/deceleration. When accelerating/decelerating left, the red dot will move to the right on the accelerometer. This is considered LEFT acceleration/deceleration. When accelerating/decelerating right, the red dot will move to the left on the accelerometer. This is considered RIGHT acceleration/deceleration
- The rates of acceleration/deceleration are shown on the screen.

**Acceleration timer**

Displays the vehicle's rate of acceleration.

1. Choose desired speed or distance.
2. Choose Automatic Start or Countdown Start.
3. Follow the on-screen prompts.

**Brake Performance**

Displays the vehicle’s rate of deceleration.

1. Choose desired speed to start recording data.
2. Follow the on-screen prompts.

**Dashboard Screen (Shelby® GT500®)**

For dashboard screen information, see the *Shelby GT500 Supplement*.

**Launch Control (Shelby® GT500®)**

For launch control information, see the *Shelby GT500 Supplement*.

**INFORMATION MESSAGES**

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

Press the RESET button for Type 1 displays or the OK button for Type 2 displays to acknowledge and remove some messages from the information display. Other messages will be removed automatically after a short time. Certain messages need to be confirmed before you can access the menus.

| AdvanceTrac® /<br>Traction Control<br>Messages | Action / Description   |
|--|--|
| <b>SERVICE<br/>ADVANCETRAC</b>                 | Displayed when the AdvanceTrac® system has detected a condition that requires service. Contact your authorized dealer as soon as possible. |
| <b>ADVANCETRAC<br/>OFF</b>                     | Displayed when the AdvanceTrac® system has been disabled by the driver.  |
| <b>ADVANCETRAC ON</b>                          | Displayed when the AdvanceTrac® system has been enabled by the driver.   |
| <b>TRACTION<br/>CONTROL OFF</b>                | Displayed when the traction control system has been turned off.  |

| <b>Alarm/Security Messages</b>              | <b>Action / Description</b>   |
|---|---|
| <b>TO STOP ALARM START VEHICLE</b>          | Displayed when the perimeter alarm system is armed and the vehicle is entered using the key on the driver's side door. In order to prevent the perimeter alarm system from triggering, the ignition must be turned to start or on before the 12 second chime expires. |
| <b>SECURITY EVENT OCCURRED</b>              | Displayed when the active anti-theft system was activated since the prior ignition cycle.   |
| <b>Battery and Charging System Messages</b> | <b>Action / Description</b>   |
| <b>CHECK CHARGING SYSTEM</b>                | Displayed when the charging system needs servicing. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.  |
| <b>Brake System Messages</b>                | <b>Action / Description</b>   |
| <b>BRAKE FLUID LEVEL LOW</b>                | Indicates the brake fluid level is low and the brake system should be inspected immediately.  |
| <b>CHECK BRAKE SYSTEM</b>                   | Displayed when the brake system needs servicing. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.   |
| <b>PARK BRAKE ENGAGED</b>                   | Displayed when the parking brake is set and the vehicle is in motion.   |
| <b>Door Messages</b>                        | <b>Action / Description</b>   |
| <b>X DOOR AJAR</b>                          | Displayed when the corresponding door is not completely closed.   |
| <b>TRUNK AJAR</b>                           | Displayed when the trunk is not completely closed.  |

| <b>Fuel Messages</b>                    | <b>Action / Description</b>   |
|---|---|
| <b>CHECK FUEL FILL INLET</b>            | Displayed when the fuel fill inlet may not be properly closed.  |
| <b>FUEL LEVEL LOW</b>                   | Displayed as an early reminder of a low fuel condition.   |
| <b>Key Messages</b>                     | <b>Action / Description</b>   |
| <b>COULD NOT PROGRAM INTEGRATED KEY</b> | Displayed when an attempt is made to program a fifth integrated key. For more information, refer to the <i>Security</i> chapter.  |
| <b>Maintenance Messages</b>             | <b>Action / Description</b>   |
| <b>ENGINE OIL CHANGE SOON</b>           | Displayed when the engine oil life is nearing its end.  |
| <b>OIL CHANGE REQUIRED</b>              | Displayed when the oil life left reaches 0%.  |
| <b>ENGINE OIL LEVEL LOW</b>             | Displayed when the oil level is low. Stop the vehicle in a safe place and check the oil level. Refill if needed. If the oil level remains low or becomes low again, see your authorized dealer. |
| <b>SERVICE POWER STEERING</b>           | The power steering system has detected a condition that requires service. See your authorized dealer.   |
| <b>SERVICE POWER STEERING NOW</b>       | The power steering system has detected a condition within the power steering system that requires service immediately. See your authorized dealer.  |
| <b>POWER STEERING ASSIST FAULT</b>      | The power steering system has disabled power steering assist due to a system error. See your authorized dealer.   |

## Information Displays

| <b>MyKey® Messages</b>               | <b>Action / Description</b>   |
|--------------------------------------|---|
| <b>MYKEY ACTIVE<br/>DRIVE SAFELY</b> | Displayed when MyKey® is active.  |
| <b>ADVTRAC ON<br/>MYKEY SETTING</b>  | Displayed when a MyKey® is in use when trying to disable the AdvanceTrac® system and the optional setting is on.          |
| <b>VEHICLE SPEED<br/>80 MPH MAX</b>  | Displayed when a MyKey® is in use and the MyKey speed limit is on and the vehicle speed is 80 mph (130 km/h).             |
| <b>VEHICLE NEAR<br/>TOP SPEED</b>    | Displayed when a MyKey® is in use and the MyKey speed limit is on and the vehicle speed is approaching 80 mph (130 km/h). |
| <b>TOP SPEED MYKEY<br/>SETTING</b>   | Displayed when a MyKey® is in use and the MyKey speed limit is on and the vehicle speed is 80 mph (130 km/h).             |
| <b>SPEED LIMITED TO<br/>80 MPH</b>   | Displayed when starting the vehicle and MyKey® is in use and the MyKey speed limit is on.                                 |
| <b>CHECK SPEED<br/>DRIVE SAFELY</b>  | Displayed when a MyKey® is in use and the optional setting is on and the vehicle exceeds a preselected speed.             |
| <b>BUCKLE UP TO<br/>UNMUTE AUDIO</b> | Displayed when a MyKey® is in use and Belt-Minder® is activated.  |
| <b>MYKEY COULD NOT<br/>PROGRAM</b>   | Displayed when an attempt is made to program a spare key using two existing MyKeys.                                       |
| <b>Park Aid Messages</b>             | <b>Action / Description</b>   |
| <b>CHECK REAR PARK<br/>AID</b>       | Displayed when the transmission is in R (Reverse) and the park aid is disabled.   |

| Tire Messages                         | Action / Description  |
|---------------------------------------|---|
| <b>LOW TIRE PRESSURE</b>              | Displays when one or more tires on your vehicle have low tire pressure.   |
| <b>TIRE PRESSURE MONITOR FAULT</b>    | Displays when the tire pressure monitoring system is malfunctioning. If the warning stays on or continues to come on, contact your authorized dealer.   |
| <b>TIRE PRESSURE SENSOR FAULT</b>     | 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. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible. |
| Track Key Messages                    | Action / Description  |
| <b>TRACKKEY ACTIVE TRACK USE ONLY</b> | Displayed when a trackkey is in use. Refer to the <i>Boss® 302</i> supplement for more information.   |
| <b>TRACKKEY IDLE ENABLED</b>          | Displayed when a trackkey is in use. Refer to the <i>Boss® 302</i> supplement for more information.   |

**ELECTRONIC COMPASS**

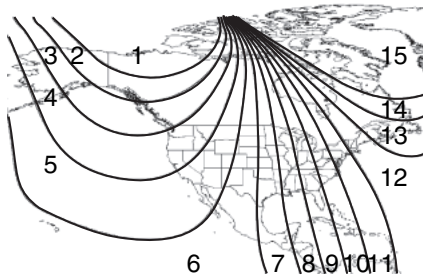
The compass heading is displayed in the center integrated display (CID).

**Note:** 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 calibration adjustment*.

### Compass Zone Adjustment

When something affects the compass readings, typically the compass corrects 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.



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. Press and hold the 7 and 9 radio preset buttons together for approximately five seconds until ZONE XX appears in the CID.
4. Press and release the 7 and 9 radio preset buttons together, repeatedly until ZONE XX changes to the correct zone (1–15) in the CID.
5. The direction displays after the buttons are released. The zone is now updated.

### Compass Calibration Adjustment

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 becomes noticeable as the vehicle crosses multiple zones. A correct zone setting eliminates this error.

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 the vehicle's doors are shut.

1. Start the vehicle.
2. Press and hold the 7 and 9 radio preset buttons together for approximately 10 seconds until CAL appears. Release the buttons.
3. Drive the vehicle in a circle slowly (under than 3 mph [5 km/h]); it may take up to five circles to complete calibration.
4. When the CAL display changes to the direction value (N, S, E, W, etc.), the compass is calibrated.



**GENERAL AUDIO INFORMATION**

**Radio Frequencies and Reception Factors**

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

AM: 530, 540–1700, 1710 kHz

FM: 87.9–107.7, 107.9 MHz

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

**CD/CD Player Information**

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

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

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

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

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

**MP3 Track and Folder Structure**

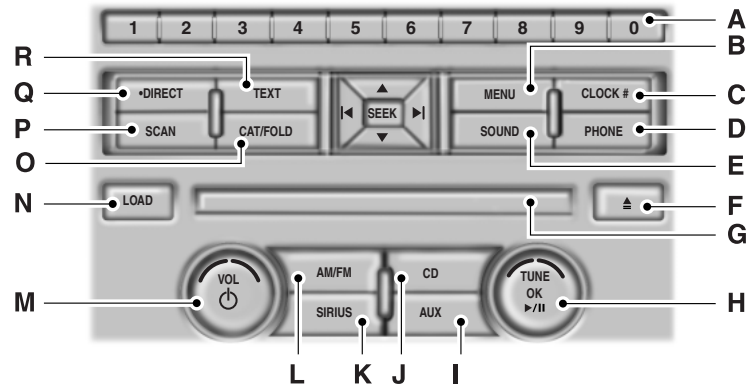
Audio systems capable of recognizing and playing MP3 individual tracks and folder structures work as follows:

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

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

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

AM/FM SINGLE CD/MP3 SATELLITE-COMPATIBLE SOUND SYSTEM



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

**Note:** Some features such as SIRIUS satellite radio may not be available in your location. Check with your authorized dealer.

| When you select:  | You can:  |
|-------------------|---|
| A. Memory presets | <p>Store your favorite stations for later access. When tuned to any station, press and hold a preset button until sound returns and PRESET # SAVED appears in the display. Save presets automatically by using the autosee feature. Press MENU repeatedly until AUTO PRESET ON/OFF appears in the display. Use the SEEK buttons to turn AUTO PRESET to ON, and either wait five seconds for the search to initiate or press OK to immediately start the search. If you press another control within those five seconds, the search does not start. The 10 strongest stations will be filled and the station stored in preset 1 begins playing. If there are fewer than 10 strong stations, the system stores the last one in the remaining presets.</p> <p><b>Note:</b> Autosee does not delete your original preset stations.</p> <p><b>Note:</b> In order to re-run the autosee features, you must first turn it off before turning it back on.</p> |
| B. MENU           | <p>Access different audio features:</p> <p><b>Compression</b> can be turned on or off. When compression is on, the soft and loud CD passages are brought together for a more consistent listening level.</p> <p><b>Shuffle</b> can be turned on or off. Turning shuffle on plays the current CD tracks in random order.</p> <p><b>RDS Radio</b> allows you to search RDS-equipped stations for a certain category of music format: CLASSIC, COUNTRY, JAZZ/RB, ROCK, etc.</p> <p><b>In SIRIUS mode</b>, access different satellite radio options and follow the prompts.</p>   |
| C. CLOCK          | <p>Set the time. Use the memory presets buttons to enter the time, then press OK.</p>   |

| When you select: | You can:  |
|------------------|---|
| D. PHONE         | Access the phone features of the SYNC® system. Refer to the SYNC® chapter for more information.<br>If your vehicle is not equipped with SYNC®, the display will read NO PHONE.  |
| E. SOUND         | Allows you to adjust the sound settings using the SEEK buttons:<br><b>Bass</b> levels can be increased or decreased. Can also be adjusted by turning the TUNE control.<br><b>Treble</b> levels can be increased or decreased. Can also be adjusted by turning the TUNE control.<br><b>Balance</b> adjust the sound between left and right speakers. Can also be adjusted by turning the TUNE control.<br><b>Fade</b> adjust the sound between the front and back speakers. Can also be adjusted by turning the TUNE control.<br><b>Speed Compensated Volume</b> adjusts the volume to compensate for speed and wind noise. You can set the system between off and +7.<br><b>All Seat Mode/Driver Seat Mode/Top Down Mode (if equipped)</b> optimizes sound quality for the chosen seating position.<br><b>DSP Mode (if equipped)</b> allows you to choose between STEREO SURROUND mode and STEREO mode. |
| F. Eject         | Eject the CD.   |
| G. CD slot       | Insert a CD.  |

| When you select:         | You can:   |
|--------------------------|--|
| H.<br>TUNE/OK/Play/Pause | <p><b>In radio mode</b>, TUNE allows you to scan the frequency band in individual increments.</p> <p><b>In SIRIUS mode</b>, TUNE allows you to find the next or previous available SIRIUS® satellite station.</p> <p><b>OK</b> allows you to confirm commands with special phone and media features. If your vehicle is equipped with SYNC, refer to the SYNC chapter for more information.</p> <p><b>Play/Pause</b> allows you to play or pause a track when listening to a CD.</p> |
| I. AUX                   | Access Line In (auxiliary audio mode) and SYNC®. If your vehicle is equipped with SYNC, refer to the SYNC chapter for more information.  |
| J. CD                    | <p>Press the CD button to access CD/MP3 mode. The CD/MP3 begin to play where it left off. If no CD is loaded, NO DISC appears in the display.</p> <p>Press the seek buttons to access the previous or next track. Press and hold the seek buttons to quickly reverse or advance within the same track.</p>   |
| K. SIRIUS                | <p>Access SIRIUS satellite radio mode. Press repeatedly to cycle through SAT1, SAT2 and SAT3.</p> <p><b>Note:</b> SIRIUS® satellite radio is available only with a valid SIRIUS® radio subscription. Check with your authorized dealer for availability.</p>   |
| L. AM/FM                 | Select AM, FM1 or FM2.   |
| M. On/Off/VOL            | <p>Press the power control to turn the system on and off.</p> <p>Turn to adjust the volume.</p>  |
| N. LOAD                  | This control is not operational. To load a CD, insert the disc, label side up, into the CD slot.   |

| When you select: | You can:   |
|------------------|--|
| O. CAT/FOLD      | <p><b>In SIRIUS mode</b>, switch between turning the most recently selected satellite radio category on or off.</p> <p><b>In MP3 mode</b>, use the SEEK buttons to access the previous or next folder.</p>   |
| P. SCAN          | <p><b>In radio mode</b>, hear a brief sampling of all radio stations.</p> <p><b>In SIRIUS mode</b>, hear a brief sampling of all available channels. If a specific category is selected, press SCAN for a brief sampling of all available channels within the selected category.</p> <p><b>In CD/MP3 mode</b>, hear a brief sampling of all tracks on the current disc or MP3 folder.</p>  |
| Q. DIRECT        | <p><b>In radio mode</b>, select the desired radio frequency (i.e. 93.9) using the memory preset numbers (0–9).</p> <p><b>In SIRIUS mode</b>, enter the desired channel (i.e. 002) using the memory preset buttons. If you only enter one digit, press OK and the system goes to that channel. If you enter three digits, the system automatically goes to that channel, if available. You may cancel your entry by pressing DIRECT. If an invalid station number is entered, INVALID CHANNEL appears in the display and the system continues playing the current station.</p> <p><b>In CD mode</b>, enter the desired track number using the memory preset buttons (0–9). The system then begins playing that track.</p> <p><b>In MP3 mode</b>, enter a memory preset button of the desired folder. The system advances to that specific folder.</p> |

| When you select: | You can:  |
|------------------|---|
| R. TEXT          | <p><b>In MP3 mode</b>, allows you to view Album (AL), Folder (FL), Song (SO) and Artist (AR) in the display, if available.</p> <p><b>Note:</b> In text mode, sometimes the display requires additional text to be displayed. When the &lt; / &gt; indicator is on, press TEXT and then use the SEEK buttons to view the additional display text.</p>  |
| S. SEEK          | <p><b>In radio mode</b>, select a frequency band and press one of the seek buttons. The system stops at the first station it finds in that direction.</p> <p><b>In SIRIUS mode</b>, select the previous or next channel. If a specific category is selected, (Jazz, Rock, News, etc.), use the SEEK buttons find to the previous or next channel in the selected category.</p> <p><b>In CD/MP3 mode</b>, select the previous or next track.</p> |

#### AUXILIARY INPUT JACK



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



**WARNING:** For safety reasons, do not connect or adjust the settings on your portable music player while the vehicle is moving.

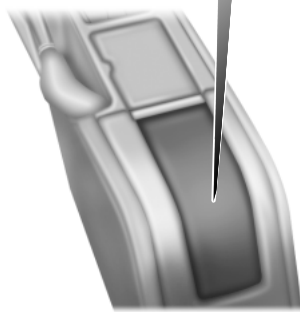




**WARNING:** Store the portable music player in a secure location, such as the center console or the glove box, when the vehicle is in motion. Hard objects may become projectiles in a collision or sudden stop, which may increase the risk of serious injury. The audio extension cable must be long enough to allow the portable music player to be safely stored while the vehicle is in motion.



The auxiliary input jack (AIJ) allows you to connect and play music from your portable music player through the vehicle speakers. You can use any portable music player designed for use with headphones. Your audio extension cable must have male 1/8 in. (3.5 mm) connectors at each end.



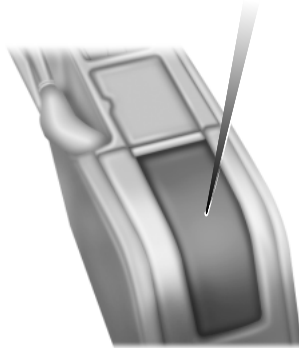
1. Make sure the vehicle, radio and portable music player are turned off and the vehicle is in P (Park).
2. Plug the extension cable from the portable music player into the AIJ.
3. Turn on the radio. Select either a tuned FM station or a CD.
4. Adjust the volume as desired.
5. Turn on your portable music player and adjust its volume to 1/2.
6. Press AUX until LINE or LINE IN appears in the display. You should hear music from your device even if it is low.
7. Adjust the volume on your portable music player until it reaches the volume level of the FM station or CD. Do this by switching back and forth between the AUX and FM or CD controls.

**USB PORT**

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



The USB port allows you to plug in media playing devices, memory sticks and charge devices (if supported). Refer to the SYNC® chapter for more information.



**SATELLITE RADIO INFORMATION (IF EQUIPPED)**

**Satellite Radio Channels**

SIRIUS® broadcasts a variety of music, news, sports, weather, traffic and entertainment satellite radio channels. For more information and a complete list of SIRIUS® satellite radio channels, visit [www.siriusxm.com](http://www.siriusxm.com) in the United States, [www.siriuscanada.ca](http://www.siriuscanada.ca) in Canada, or call SIRIUS® at 1-888-539-7474.

**Satellite Radio Reception Factors**

| <b>Potential satellite radio reception issues</b> |  |
|---|--|
| <b>Antenna obstructions</b>                       | For optimal reception performance, keep the antenna clear of snow and ice build-up and keep luggage and other material as far away from the antenna as possible. |
| <b>Terrain</b>                                    | Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception. |
| <b>Station overload</b>                           | When you pass a ground-based broadcast repeating tower, a stronger signal may overtake a weaker one and the audio system may mute.                               |
| <b>Satellite radio signal interference</b>        | Your display may show ACQUIRING . . . to indicate the interference and the audio system may mute.  |

**SIRIUS® Satellite Radio Service**

**Note:** SIRIUS® reserves the unrestricted right to change, rearrange, add or delete programming including canceling, moving or adding particular channels, and its prices, at any time, with or without notice to you. Ford Motor Company shall not be responsible for any such programming changes.



SIRIUS® satellite radio is a subscription-based satellite radio service that broadcasts a variety of music, sports, news, weather, traffic and entertainment programming. Your factory-installed SIRIUS® satellite radio system includes

hardware and a limited subscription term which begins on the date of sale or lease of the vehicle. Refer to your authorized dealer for availability.

For more information on extended subscription terms (a service fee is required), the online media player and a complete list of SIRIUS® satellite radio channels, and other features, please visit [www.siriusxm.com](http://www.siriusxm.com) in the United States, [www.sirius.ca](http://www.sirius.ca) in Canada, or call SIRIUS® at 1-888-539-7474.

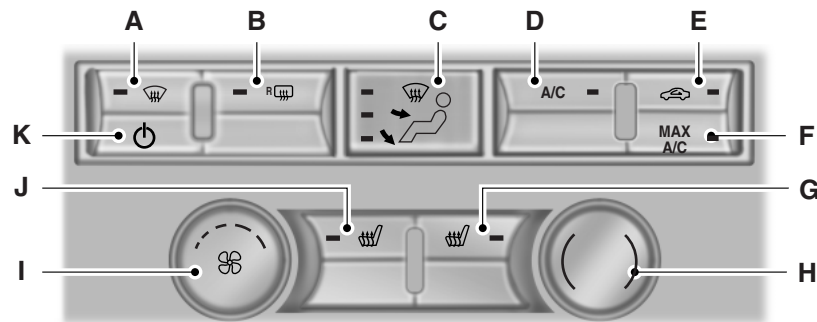
**Satellite Radio Electronic Serial Number (ESN)**

You need your ESN to activate, modify or track your satellite radio account. When in satellite radio mode, you can view this number by pressing SIRIUS and memory preset 1 at the same time.

Troubleshooting

| <b>SIRIUS® troubleshooting tips</b> |  |  |
|-------------------------------------|--|--|
| <b>Radio Display</b>                | <b>Condition</b>   | <b>Possible Action</b>   |
| Acquiring                           | Radio requires more than two seconds to produce audio for the selected channel.    | No action required. This message should disappear shortly.   |
| Sat Fault/SIRIUS® system failure    | Internal module or system failure present.   | If this message does not clear shortly, or with an ignition key cycle, your receiver may have a fault. See your authorized dealer for service. |
| Invalid Channel                     | Channel no longer available.   | Tune to another channel or choose another preset.  |
| Unsubscribed Channel                | Subscription not available for this channel.                                       | Contact SIRIUS® at 1-888-539-7474 to subscribe to the channel, or tune to another channel.   |
| No Signal                           | Loss of signal from the SIRIUS® satellite or SIRIUS® tower to the vehicle antenna. | The signal is currently being blocked. When you move into an open area, the signal should return.  |
| Updating                            | Update of channel programming in progress.   | No action required. The process may take up to three minutes.  |
| Call SIRIUS® 1-888-539-7474         | Satellite service has been deactivated by SIRIUS® Satellite Radio.                 | Call SIRIUS® at 1-888-539-7474 to reactivate or resolve subscription issues.   |
| No Channels Available               | All the channels in the selected category are skipped or locked.                   | Using the channel guide, unlock or unskip the channels.  |
| Subscription Updated                | SIRIUS® has updated the channels available for your vehicle.                       | No action required.  |

## MANUAL HEATING AND AIR CONDITIONING SYSTEM



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

B. **Rear defrost:** Turns the heated rear window on and off. Refer to *Heated rear window* later in this chapter for more information.

C. **Air distribution control:** You can set the air distribution control to any position between the symbols.



Distributes air through the windshield defroster vents, de-mister vents and floor vents.



Distributes air through the instrument panel vents.



Distributes air through the instrument panel vents, floor vents, and de-mister vents.



Distributes air through the floor vents.

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

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

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

G. **Passenger heated seat control (if equipped):** Turns the passenger heated seat on and off. Refer to *Heated seats* in the *Seats* chapter for more information.

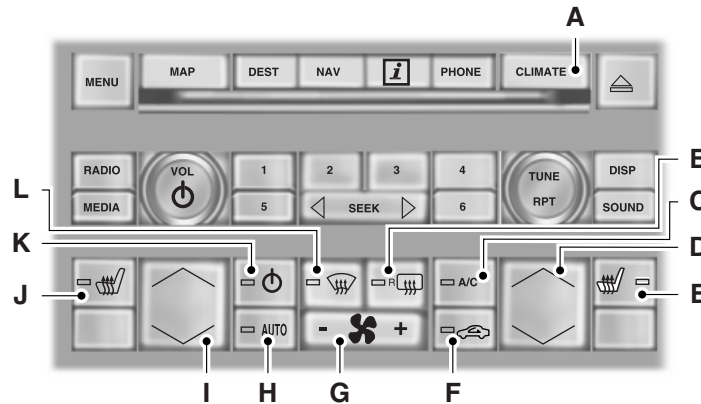
H. **Temperature control:** Controls the temperature of the air circulated in your vehicle. Turn to select the desired temperature.

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

J. **Driver heated seat control (if equipped):** Turns the driver heated seat on and off. Refer to *Heated seats* in the *Seats* chapter for more information.

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

### DUAL ZONE AUTOMATIC TEMPERATURE CONTROL SYSTEM (WITH NAVIGATION SYSTEM)



**Note:** To use the touchscreen controls, refer to the *Touchscreen climate controls* in the *Navigation System* chapter.

A. **CLIMATE:** Control the system through the touchscreen display. See *Touchscreen functions* later in this section.

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

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

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

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

D. **Passenger temperature control:** Press to increase or decrease the air temperature on the passenger side of the vehicle.

E. **Passenger heated seat control (if equipped):** Turn the passenger heated seat on and off. Refer to *Heated seats* in the *Seats* chapter for more information.



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

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

G. **Fan speed control:** Press + or - to increase or decrease the volume of air circulated in your vehicle.

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

I. **Driver temperature control:** Press to increase or decrease the air temperature on the driver side of the vehicle. This control also adjusts the passenger side temperature when dual zone operation is disengaged.

J. **Driver heated seat control (if equipped):** Turn the driver heated seat on and off. Refer to *Heated seats* in the *Seats* chapter for more information.

K. **Power:** Press to turn the climate control system on and off. When the system is off, outside air is prevented from entering the vehicle. The system status in the touchscreen is also turned off. When the power is turned back on, the system defaults to fully automatic control.

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

**GENERAL OPERATING TIPS****Manual Heating and Air Conditioning System**

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

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

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

For maximum cooling performance in panel or panel/floor modes:

1. Move temperature control to the coolest setting.
2. Select A/C and recirculated air to provide colder airflow.
3. Set the fan to the highest speed initially, then adjust to maintain comfort.

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

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

**Dual Zone Automatic Temperature Control**

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

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

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

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

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

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

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

**HEATED REAR WINDOW**

**Note:** The vehicle must be running to use this feature.

Press the control to clear the rear window of thin ice and fog. Press the control again within 15 minutes to switch it off. It turns off automatically after 15 minutes, or when you switch the ignition off.

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

**CABIN AIR FILTER**

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

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

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

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

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

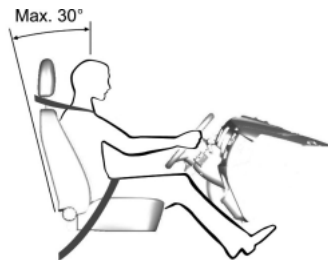
For additional cabin air filter information, or to replace the filter, see an authorized dealer.

**SITTING IN THE CORRECT POSITION**

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

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

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




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


- Sit in an upright position with the base of your spine as far back as possible.


- Do not recline the seatback more than 30 degrees.
- Adjust the head restraint so that the top of it is level with the top of your head and as far forward as possible, remaining comfortable.
- Keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 10 inches (250 mm) between your breastbone and the airbag cover.
- Hold the steering wheel with your arms slightly bent.
- Bend your legs slightly so that you can press the pedals fully.
- Position the shoulder strap of the safety belt over the center of your shoulder and position the lap strap tightly across your hips.

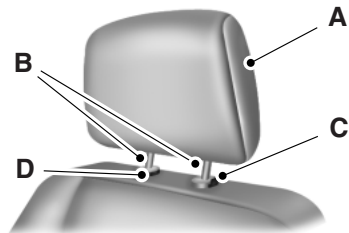
Make sure that your driving position is comfortable and that you can maintain full control of your vehicle.

**HEAD RESTRAINTS**

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

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

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

**Front seat head restraints (if equipped)**

The head restraints consist of:

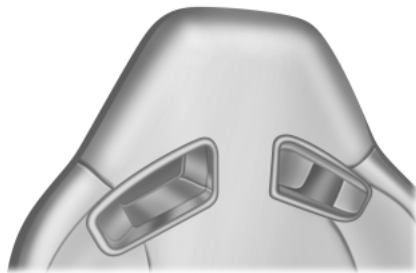
- A. An energy absorbing head restraint
- B. Two steel stems
- C. Guide sleeve adjust/release button
- D. Guide sleeve unlock/remove button

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

- **Raise:** pull up on the head restraint (A).
- **Lower:** press and hold the guide sleeve adjust/release button (C) and push down on the head restraint (A).

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

**Front seat non-adjustable head restraints (if equipped)**

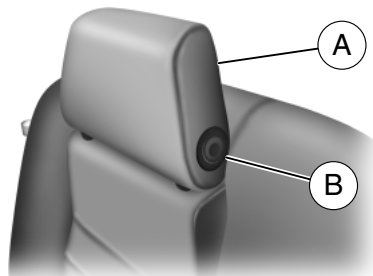


The non-adjustable head restraints consist of a trimmed foam covering over the upper structure of the seatback.

Properly adjust the seatback to an upright driving/riding position, so that the head restraint is positioned as close as possible to the back of your head.

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

The second row outboard non-adjustable head restraints can be rotated forward to improve rear vision when there are no rear occupants.



The non-adjustable head restraints consist of:

- A. a trimmed energy absorbing foam and structure,
- B. and a rotation button.

Press the rotation button to rotate the head restraint forward in order to improve rear vision when there are no rear seat occupants.

Properly adjust the head restraint to an upright driving/riding position by lifting up on the head restraint until it locks into its original position.

**Tilting Head Restraints (if equipped)**

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



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

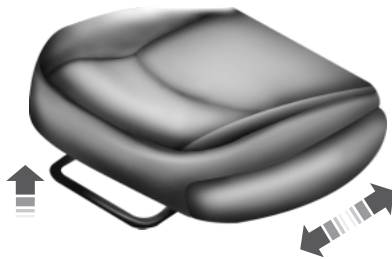
After the head restraint reaches the forward-most tilt position, pivoting it forward again will then release it to the rearward, un-tilted position.

**MANUAL SEATS**

**WARNING:** Do not adjust the driver's seat or seatback while the vehicle is moving.



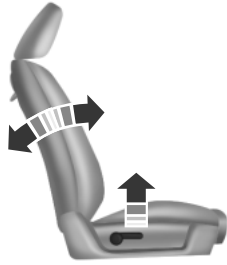
**WARNING:** Rock the seat backwards and forwards after releasing the lever to make sure that it is fully engaged.



**Moving the seats backward and forward**

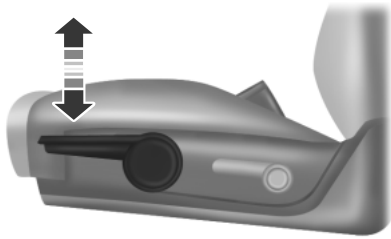


Recline adjustment



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

Adjusting the height of the driver's seat

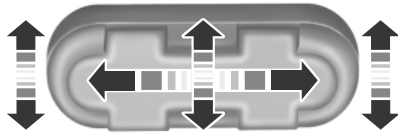


**POWER SEATS (IF EQUIPPED)**

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



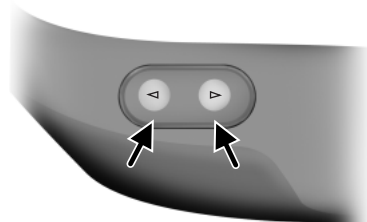
**WARNING:** Before returning the seatback to its original position, make sure that cargo or any objects are not trapped behind the seatback.



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

**Power lumbar (if equipped)**

The power lumbar control is located on the top of the driver's seat side shield.



- Press one side of the control to increase lower back firmness.
- Press the other side of the control to decrease lower back firmness.

**HEATED SEATS (IF EQUIPPED)**

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

The heated seats will only function when the ignition is in the on position.

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

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

The heated seat control is located in the lower center of the instrument panel.

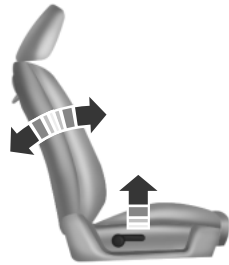
To operate the heated seats:



- Press control to activate.
- Press again to deactivate.

**REAR SEATS****Rear seat entry/exit**

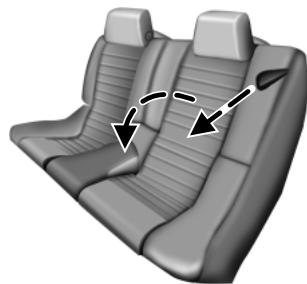
Use the seatback release to fold the back of the front seat forward for rear seat access. This release handle is located on the upper back of the front seat. The seatback locks automatically when returned to the normal position.



Use the recliner handle to return the seatback to the desired position.


**2nd row seat/split-folding rear seat (if equipped)**

One or both rear seatbacks (coupe only) can be folded down to provide additional cargo space.




To lower the seatback(s) from inside the vehicle, be sure the head restraint is in the upright position, pull the strap to release the seatback and then fold the seatback down.

When raising the seatback(s), make sure you hear the seat latch into place. Pull down on the seatback to ensure that it has latched.

 **WARNING:** 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.

#### Rear seat delete (if equipped)

 **WARNING:** In a collision, passengers who are unbelted are significantly 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.



This is not a seating position. Persons or child seats cannot be placed in the rear of vehicles with the rear seat delete option.

**CAR2U® HOME AUTOMATION SYSTEM (IF EQUIPPED)**

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



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

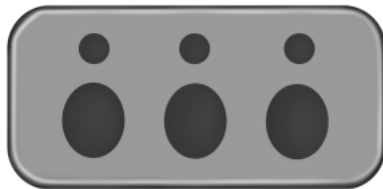
**Note:** Make sure you keep the original remote control transmitter for use in other vehicles as well as for future system programming.

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

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

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

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



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

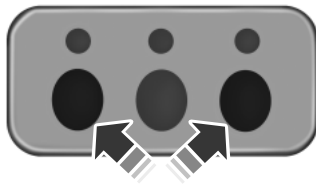
The system includes two primary features, a garage door opener and a platform for remote activation of devices with the home. As well as being programmed for garage doors, the system transmitter can be programmed to operate security devices and home lighting systems.

Additional system information can be found on-line at [www.learcar2U.com](http://www.learcar2U.com) or by calling the toll-free help line on 1-866-572-2728.

### Rolling code programming

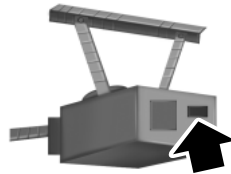
**Note:** If you do not follow the time-sensitive instructions, the device will time out and you will have to repeat the complete procedure.

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



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

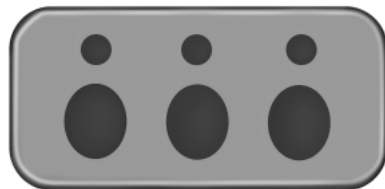
**Note:** You may need a ladder to reach the unit and you may need to remove the cover or lamp lens.



**Note:** If you cannot locate the learn button, refer to the Owner Manual of your garage door opener or call the toll-free help line on 1-866-572-2728.

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

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



4. Return to your car.
5. Press and hold the function button you would like to use to control the garage door. You may need to hold the button from

5–20 seconds, during which time the selected button LED lamp will flash slowly.

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

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

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

To program another rolling code device, repeat steps one through six substituting a different function button in step four.

### Fixed code programming

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



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

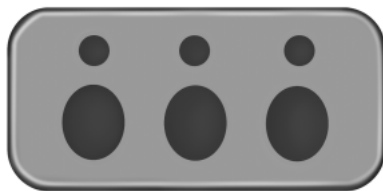
1. Switch the ignition on.

2. Open the battery cover and note all the switch settings from left to right.

When the switch is in the up, on, or + position, mark down “left button”.

When the switch is in the middle, neutral, or 0 position, mark down “middle button”.

When the switch is in the down, off, or – position, mark down “right button”.



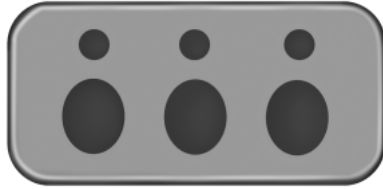
3. Press all three function buttons simultaneously for a few seconds and then release. The LED lamps will flash slowly.

**Note:** The following step must be completed within 2.5 minutes.

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



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



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

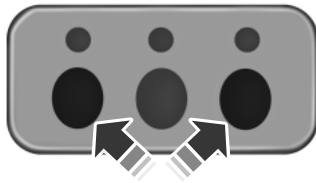
**Note:** You may need to hold the button from 5–55 seconds before observing movement of the garage door.

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

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

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

**Erasing the function button codes**



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

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

2. When the LED lamps flash, release the buttons. The codes for all buttons are erased.

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

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

**AUXILIARY POWER POINTS**

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

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

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

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

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

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

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

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

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

**Locations**

Power points may be found:

- on the instrument panel
- in the center console storage compartment.

### CENTER CONSOLE



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




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


- Cupholders in the front of the console (pull the door open to access). Remove the spacer from the cupholder to hold deeper cups.
- Lockable storage bin (use the ignition key to lock/unlock the console bin and press the latch to open the console)
- Auxiliary power point
- Coin holder slots
- Audio input jack
- USB port (if equipped)


## 152 Starting and Stopping the Engine


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### GENERAL INFORMATION

 **WARNING:** Extended idling at high engine speeds can produce very high temperatures in the engine and exhaust system, creating the risk of fire or other damage.

 **WARNING:** Do not park, idle, or drive your vehicle on dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, which can start a fire.

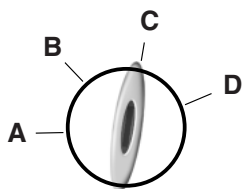
 **WARNING:** Do not start your vehicle in a closed garage or in other enclosed areas. Exhaust fumes can be toxic. Always open the garage door before you start the engine.

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

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

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

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

**IGNITION SWITCH**

A. Off – the ignition is off. **Note:** In order to switch off the engine while the vehicle is in motion, shift to neutral and use the brakes to bring the vehicle to a safe stop. After the vehicle has stopped, shift into park and turn the engine off. Then, turn the key to the accessory or off position.

B. Accessory – allows the electrical accessories such as the radio to operate while the engine is not running.

C. On – all electrical circuits operational. Warning lights illuminated. Key position when driving.

D. Start – cranks the engine. The engine may continue cranking for up to 10 seconds or until the vehicle starts. Release the key as soon as the engine starts.

**Note:** Do not store the key in the ignition after the vehicle is turned off and you have left the vehicle. This could cause a drain on the battery.

**STARTING A GASOLINE ENGINE**

When the engine starts, the idle RPM runs faster to warm the engine. If the engine idle speed does not slow down automatically, have the vehicle checked.

Before starting the vehicle:

- Make sure all occupants buckle their safety belts.
- Make sure the headlamps and electrical accessories are off.
- If starting a vehicle with an automatic transmission, make sure the gearshift is in P (Park) and the parking brake is set.
- If starting a vehicle with a manual transmission, make sure the parking brake is set, then push the clutch pedal to the floor.
- Turn the key to on without turning the key to start.

Some warning lights will briefly illuminate.

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

1. Select park or neutral.
2. Fully press the brake pedal.

## 154 Starting and Stopping the Engine

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3. Turn the key to start the engine. The engine may continue cranking for up to 15 seconds or until the vehicle starts.

**Note:** If the engine does not start on the first try, wait for a short period of time and try again.

If you have difficulty starting the engine when the temperature is below -13°F (-25°C), press the accelerator pedal slightly and try again.

If the engine does not start after three attempts, wait 10 seconds and follow this flooded engine procedure.

1. Select park or neutral.
2. Fully press the accelerator pedal and hold it there.
3. Fully press the brake pedal.
4. Start the engine.

### Guarding Against Exhaust Fumes



**WARNING:** If you smell exhaust fumes inside your vehicle, have this checked immediately. Do not drive your vehicle if you smell exhaust fumes. Carbon monoxide is present in exhaust fumes. Take precautions to avoid its dangerous effects.

### Important Ventilating Information

If you stop your vehicle and leave the engine idling for long periods of time, we recommend that you do one of the following:

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

### ENGINE BLOCK HEATER (IF EQUIPPED)



**WARNING:** Failure to follow engine block heater instructions could result in property damage or physical injury.



**WARNING:** Do not use your heater with ungrounded electrical systems or two-pronged (cheater) adapters. There is a risk of electrical shock.

**Note:** The heater is most effective when outdoor temperatures are below 0°F (-18°C).

The heater acts as a starting aid by warming the engine coolant. This allows the climate control system to respond quickly. The equipment includes a heater element (installed in the engine block) and a wire harness. You can connect the system to a grounded 120 volt A/C electrical source.

We recommend that you do the following for safe and correct operation:

- Use a 16-gauge outdoor extension cord that is product certified by Underwriter's Laboratory or Canadian Standards Association. This extension cord must be able to be used outdoors, in cold temperatures, and be clearly marked *Suitable for Use with Outdoor Appliances*. Never use an indoor extension cord outdoors; it could result in an electric shock or become a fire hazard.
- Use as short an extension cord as possible.
- Do not use multiple extension cords.
- Make sure that when in operation, the extension cord plug and the heater cord plug connections are free and clear of water. This could cause an electric shock or fire.
- Make sure the vehicle is parked in a clean area, clear of combustibles.
- Make sure the heater, heater cord and extension cord are firmly connected.
- Check for heat anywhere in the electrical hookup once the system has been operating for approximately 30 minutes.
- Make sure the system is unplugged and properly stowed before driving your vehicle. Make sure the protective cover seals the prongs of the block heater cord plug when not in use.
- Make sure the heater system is checked for proper operation before winter.

#### **Using the Engine Block Heater**

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

The heater uses 0.4 to 1.0 kilowatt-hours of energy per hour of use. The system does not have a thermostat. It will achieve maximum temperature after approximately three hours of operation. If you use the heater longer than three hours, this will not improve system performance and will use unnecessary electricity.

**SAFETY PRECAUTIONS**

**WARNING:** Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.



**WARNING:** The fuel system may be under pressure. If you hear a hissing sound near the fuel filler door (Easy Fuel® “no cap” fuel system), do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.



**WARNING:** Automotive fuels can cause serious injury or death if misused or mishandled.



**WARNING:** The flow of fuel through a fuel pump nozzle can produce static electricity, which can cause a fire if fuel is pumped into an ungrounded fuel container.



**WARNING:** Fuel ethanol and gasoline may contain benzene, which is a cancer-causing agent.



**WARNING:** When refueling always shut the engine off and never allow sparks or open flames near the filler neck. Never smoke while refueling. Fuel vapor is extremely hazardous under certain conditions. Care should be taken to avoid inhaling excess fumes.

Observe the following guidelines when handling automotive fuel:

- Extinguish all smoking materials and any open flames before refueling your vehicle.
- Always turn off the vehicle before refueling.
- Automotive fuels can be harmful or fatal if swallowed. Fuel such as gasoline is highly toxic and if swallowed can cause death or permanent injury. If fuel is swallowed, call a physician immediately, even if no symptoms are immediately apparent. The toxic effects of fuel may not be visible for hours.
- Avoid inhaling fuel vapors. Inhaling too much fuel vapor of any kind can lead to eye and respiratory tract irritation. In severe cases, excessive or prolonged breathing of fuel vapor can cause serious illness and permanent injury.



- Avoid getting fuel liquid in your eyes. If fuel is splashed in the eyes, remove contact lenses (if worn), flush with water for 15 minutes and seek medical attention. Failure to seek proper medical attention could lead to permanent injury.
- Fuels can also be harmful if absorbed through the skin. If fuel is splashed on the skin and/or clothing, promptly remove contaminated clothing and wash skin thoroughly with soap and water. Repeated or prolonged skin contact with fuel liquid or vapor causes skin irritation.
- Be particularly careful if you are taking “Antabuse” or other forms of disulfiram for the treatment of alcoholism. Breathing gasoline vapors, or skin contact could cause an adverse reaction. In sensitive individuals, serious personal injury or sickness may result. If fuel is splashed on the skin, promptly wash skin thoroughly with soap and water. Consult a physician immediately if you experience an adverse reaction.

## FUEL QUALITY

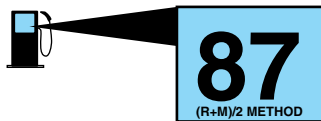
### Choosing the Right Fuel

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

Use only UNLEADED fuel or UNLEADED fuel blended with a maximum of 15% ethanol. Do not use fuel ethanol (E85), diesel, fuel methanol, leaded fuel or any other fuel because it could damage or impair the emission control system. The use of leaded fuel is prohibited by law.

Your vehicle was not designed to use fuel or fuel additives with metallic compounds, including manganese-based additives.

### Octane Recommendations



- 3.7L V6 engine

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

- 5.0L V8 engine

“Regular” unleaded gasoline with a pump (R+M)/2 octane rating of 87 is recommended. Some stations offer fuels posted as “Regular” with an octane rating below 87, particularly in high altitude areas. Fuels with octane levels below 87 are not recommended. Premium fuel will provide improved performance and is recommended for severe duty usage such as trailer tow.

- For Shelby GT500 octane requirements, see the Shelby GT500 Supplement
- For Boss® 302 octane requirements, see the Boss® 302 Supplement

Do not be concerned if your engine sometimes knocks lightly. However, if it knocks heavily while you are using fuel with the recommended octane rating, see your authorized dealer to prevent any engine damage.

#### **RUNNING OUT OF FUEL**

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

If you have run out of fuel:

- You may need to cycle the ignition from off to on several times after refueling to allow the fuel system to pump the fuel from the tank to the engine. On restarting, cranking time will take a few seconds longer than normal. With keyless ignition, just start the engine. Crank time will be longer than usual.
- Normally, adding 1 gallon (3.8L) of fuel is enough to restart the engine. If the vehicle is out of fuel and on a steep grade, more than 1 gallon (3.8L) may be required.
- The service engine soon indicator may come on. For more information on the service engine soon indicator, refer to *Warning lamps and indicators* in the *Instrument Cluster* chapter.

#### **Refilling with a Portable Fuel Container**



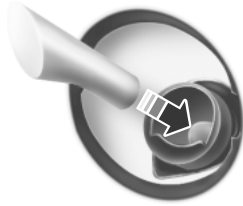
**WARNING:** Do not insert the nozzle of portable fuel containers or aftermarket funnels into the capless fuel system. This could damage the fuel system and its seal, and may cause fuel to run onto the ground instead of filling the tank, which could result in serious personal injury.



**WARNING:** Do not try to pry open or push open the capless fuel system with foreign objects. This could damage the fuel system and its seal and cause injury to you or others.

**Note:** Do not use aftermarket funnels; they will not work with the capless fuel system and can damage it. The included funnel has been specially designed to work safely with your vehicle.

When filling the vehicle's fuel tank from a portable fuel container, use the funnel included with the vehicle.



1. Locate the white plastic funnel in the spare tire compartment.
2. Slowly insert the funnel into the capless fuel system.
3. Fill the vehicle with fuel from the portable fuel container.

4. When done, clean the funnel or properly dispose of it. Extra funnels can be purchased from your authorized dealer if you choose to dispose of the funnel.

### REFUELING



**WARNING:** Fuel vapor burns violently and a fuel fire can cause severe injuries. To help avoid injuries to you and others:

- Read and follow all the instructions on the pump island;
- Turn off your engine when you are refueling;
- Do not smoke if you are near fuel or refueling your vehicle;
- Keep sparks, flames and smoking materials away from fuel;
- Stay outside your vehicle and do not leave the fuel pump unattended when refueling your vehicle — this is against the law in some places;
- Keep children away from the fuel pump; never let children pump fuel.
- Do not use personal electronic devices while refueling.

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

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

**Easy Fuel® “No cap” Fuel System**

**WARNING:** The fuel system may be under pressure. If you hear a hissing sound near the fuel filler door, do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.

When fueling your vehicle:

1. Turn the engine off.
2. Open the fuel filler door by pressing the center of the door about one inch from the door's rear edge.
3. Slowly insert the fuel filler nozzle fully into the fuel system, and leave the nozzle fully inserted until you are done pumping.
4. After you are done pumping fuel, slowly remove the fuel filler nozzle—allow about ten seconds after pumping fuel before removing the fuel filler nozzle. This allows residual fuel to drain back into the fuel tank and not spill onto the vehicle.

**Note:** A fuel spillage concern may occur if overfilling the fuel tank. Do not overfill the tank to the point that the fuel is able to bypass the fuel filler nozzle. The overfilled fuel may run down the drain located within the fuel filler housing and to the ground.

If the fuel fill inlet was not properly closed, a Check Fuel Fill Inlet message may appear on the information display.

At the next opportunity, do the following:

1. Safely pull off the road.
2. Turn off the engine.
3. Open the fuel filler door and remove any visible debris from the fuel fill opening.
4. Insert either the fuel fill nozzle or the fuel fill funnel provided with the vehicle several times to dislodge any debris and/or allow the inlet to close properly.

If this action corrects the problem, the message may not reset immediately. It may take several driving cycles for the message to turn off. A driving cycle consists of an engine start-up (after four or more hours with the engine off) followed by city/highway driving. Continuing to drive with the message on may cause the service engine soon lamp to turn on as well.

**FUEL CONSUMPTION****Filling the tank**

The advertised capacity is the indicated capacity and the empty reserve combined. Indicated capacity is the difference in the amount of fuel in a full tank and a tank when the fuel gauge indicates empty. Empty reserve is the amount of fuel in the tank after the fuel gauge indicates empty.

**Note:** The amount of usable fuel in the empty reserve varies and should not be relied upon to increase driving range. When refueling your vehicle after the fuel gauge indicates empty, you might not be able to refuel the full amount of the advertised capacity of the fuel tank due to the empty reserve still present in the tank.

For consistent results when filling the fuel tank:

- Turn the ignition off before fueling; an inaccurate reading results if the engine is left running.
- Use the same fill rate (low–medium–high) each time the tank is filled.
- Allow no more than two automatic click–offs when filling.

Results are most accurate when the filling method is consistent.

**Calculating fuel economy**

Do not measure fuel economy during the first 1,000 miles (1,600 km) of driving (this is your engine's break-in period); a more accurate measurement is obtained after 2,000 miles–3,000 miles (3,200 km–4,800 km). Also, fuel expense, frequency of fill-ups or fuel gauge readings are not accurate ways to measure fuel economy.

1. Fill the fuel tank completely and record the initial odometer reading.
2. Each time you fill the tank, record the amount of fuel added.
3. After at least three to five tank fill-ups, fill the fuel tank and record the current odometer reading.
4. Subtract your initial odometer reading from the current odometer reading.
5. Calculate fuel economy as follows:

Standard: Divide miles traveled by gallons used.

Metric: Multiply liters used by 100, then divide by kilometers traveled.

Keep a record for at least one month and record the type of driving (city or highway). This provides an accurate estimate of the vehicle's fuel economy under current driving conditions. Additionally, keeping records during summer and winter show how temperature impacts fuel economy. In general, lower temperatures mean lower fuel economy.

**EMISSION CONTROL SYSTEM**

**WARNING:** Do not park, idle, or drive your vehicle in dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, which can start a fire.



**WARNING:** Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment. If you smell exhaust fumes inside your vehicle, have your dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

Your vehicle is equipped with various emission control components and a catalytic converter which will enable your vehicle to comply with applicable exhaust emission standards. To make sure that the catalytic converter and other emission control components continue to work properly:

- Use only the specified fuel listed.
- Avoid running out of fuel.
- Do not turn off the ignition while your vehicle is moving, especially at high speeds.
- Have the items listed in *scheduled maintenance information* performed according to the specified schedule.

The scheduled maintenance items listed in *scheduled maintenance information* are essential to the life and performance of your vehicle and to its emissions system.

If other than Ford, Motorcraft® or Ford-authorized parts are used for maintenance replacements or for service of components affecting emission control, such non-Ford parts should be equivalent to genuine Ford Motor Company parts in performance and durability.

Illumination of the service engine soon indicator, charging system warning light or the temperature warning light, fluid leaks, strange odors, smoke or loss of engine power could indicate that the emission control system is not working properly.

An improperly operating or damaged exhaust system may allow exhaust to enter the vehicle. Have a damaged or improperly operating exhaust system inspected and repaired immediately.

Do not make any unauthorized changes to your vehicle or engine. By law, vehicle owners and anyone who manufactures, repairs, services, sells, leases, trades vehicles, or supervises a fleet of vehicles are not permitted to intentionally remove an emission control device or prevent it from working. Information about your vehicle's emission system is on the Vehicle Emission Control Information Decal located on or near the engine. This decal also lists engine displacement.

Please consult your *Warranty Guide* for complete emission warranty information.

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

Your vehicle is equipped with a computer that monitors the engine's emission control system. This system is commonly known as the on-board diagnostics system (OBD-II). The OBD-II system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists your authorized dealer in properly servicing your vehicle.



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

Examples are:

1. The vehicle has run out of fuel—the engine may misfire or run poorly.
2. Poor fuel quality or water in the fuel—the engine may misfire or run poorly.
3. The fuel fill inlet may not have been properly closed. See *Easy Fuel® “no cap” fuel system* in this chapter.
4. Driving through deep water—the electrical system may be wet.

These temporary malfunctions can be corrected by filling the fuel tank with good quality fuel, properly closing the fuel fill inlet or letting the electrical system dry out. After three driving cycles without these or any other temporary malfunctions present, the service engine soon indicator should stay off the next time the engine is started. A driving cycle consists of a cold engine startup followed by mixed city/highway driving. No additional vehicle service is required.

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

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

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



If the service engine soon indicator is on or the bulb does not work, the vehicle may need to be serviced. Refer to *On-board diagnostics (OBD-II)* in this chapter.

Your vehicle may not pass the I/M test if the service engine soon indicator is on or not working properly (bulb is burned out), or if the OBD-II system has determined that some of the emission control systems have not been properly checked. In this case, the vehicle is considered not ready for I/M testing.

If the vehicle's engine or transmission has just been serviced, or the battery has recently run down or been replaced, the OBD-II system may indicate that the vehicle is not ready for I/M testing. To determine if the vehicle is ready for I/M testing, turn the ignition key to the on position for 15 seconds without cranking the engine. If the service engine soon indicator blinks eight times, it means that the vehicle is not ready for I/M testing; if the service engine soon indicator stays on solid, it means that the vehicle is ready for I/M testing.

The OBD-II system is designed to check the emission control system during normal driving. A complete check may take several days. If the vehicle is not ready for I/M testing, the following driving cycle consisting of mixed city and highway driving may be performed:

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

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



**AUTOMATIC TRANSMISSION (IF EQUIPPED)**

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

Your vehicle has been designed to improve fuel economy by reducing fuel usage while coasting or decelerating. When you take your foot off the accelerator pedal and the vehicle begins to slow down, the torque converter clutch locks up and aggressively shuts off fuel flow to the engine while decelerating. This fuel economy benefit may be perceived as a light to medium braking sensation when removing your foot from the accelerator pedal.

**P (Park)**

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

To put your vehicle in gear:

- Press the brake pedal
- Move the gearshift lever into the desired gear

To put your vehicle in P (Park):

- Come to a complete stop
- Move the gearshift lever and securely latch it in P (Park)

**R (Reverse)**

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

**N (Neutral)**

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

**D (Drive) with overdrive**

The normal driving position for the best fuel economy. Transmission operates in gears one through six. The automatic transmission shift strategy has the ability to detect hilly terrain or mountainous areas and will provide a limited amount of grade assist features automatically.

**S (Sport)**

Moving the gearshift lever to S (Sport):

- Provides additional grade (engine) braking and extends lower gear operation to enhance performance for uphill climbs, hilly terrain or mountainous areas. This will increase engine RPM during engine braking.
- Provides additional lower gear operation through the automatic transmission shift strategy which reacts to vehicle inputs (vehicle acceleration, accelerator pedal, brake pedal and vehicle speed).
- Gears are selected more quickly and at higher engine speeds.

**Note:** The system will stay in S (Sport) until the gear shift lever is moved into another gear for example P (park) or D (Drive).

**SelectShift Automatic™ Transmission**

Your SelectShift automatic transmission gives you the ability to manually change gears if you'd like. To use SelectShift, move the gearshift lever into S (Sport). Now you can use the thumb toggle on the side of your gearshift lever to select gears.



- Press (+) on the gearshift lever to manually upshift the transmission.
- Press (-) on the gearshift lever to manually downshift the transmission.

The information display in the instrument cluster will show the current selected gear you are in.

In order to prevent the engine from running at too low an RPM, which may cause it to stall, SelectShift will automatically make some downshifts even if it has determined that you have not downshifted in time.

Although the SelectShift will make some downshifts for you, it will still allow you to downshift at any time as long as the SelectShift determines that the engine will not be damaged from over-revving.

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

**Note:** Some models have a “blink” feature (if equipped). If manually selecting a gear that is out of the current vehicle speed range the vehicle will not make the requested shift and will “blink” the current gear.

### Brake-Shift Interlock



**WARNING:** Do not drive your vehicle until you verify that the brake lamps are working.



**WARNING:** When doing this procedure, you will be taking the vehicle out of park which means the vehicle can roll freely. To avoid unwanted vehicle movement, always fully set the parking brake prior to doing this procedure. Use wheel chocks if appropriate.



**WARNING:** If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer as soon as possible.

**Note:** See your authorized dealer as soon as possible if this procedure is used.

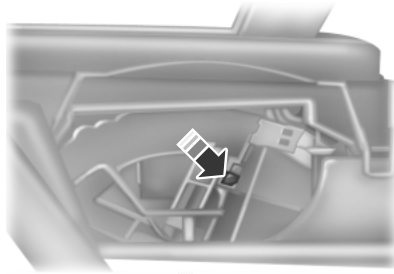
Use the BSI lever to move the gearshift lever from the park position in the event of an electrical malfunction or if your vehicle has a dead battery.

**Note:** For some markets this feature will be disabled.

Apply the parking brake and turn the ignition off before performing this procedure.



1. Remove the cup holder insert.
2. Using a screwdriver (or similar tool), remove the protective cover to the interlock release access hole on the console.



3. Insert the screwdriver (or similar tool) into the access hole and press while pulling the gearshift lever out of the P (Park) position and into the N (Neutral) position.
4. Remove the tool and reinstall the protective cover.
5. Start the vehicle and release the parking brake.

### If Your Vehicle Gets Stuck in Mud or Snow

**Note:** Do not rock the vehicle if the engine is not at normal operating temperature or damage to the transmission may occur.

**Note:** Do not rock the vehicle for more than a minute or damage to the transmission and tires may occur, or the engine may overheat.

If your vehicle gets stuck in mud or snow, it may be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.

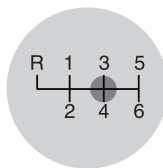
### MANUAL TRANSMISSION (IF EQUIPPED)

#### Using the Clutch

Manual transmission vehicles have a starter interlock that prevents cranking the engine unless the clutch pedal is fully pressed.

To start the vehicle:

1. Make sure the parking brake is fully set.
2. Press the clutch pedal to the floor, then put the gearshift lever in the neutral position.
3. Start the engine.
4. Press the brake pedal and move the gearshift lever to the desired gear; 1 (First) or R (Reverse).
5. Release the parking brake, then slowly release the clutch pedal while slowly pressing on the accelerator.



During each shift, the clutch pedal must be fully pressed to the floor. Make sure the floor mat is properly positioned so it doesn't interfere with the full extension of the clutch pedal.

**Note:** Failure to fully press the clutch pedal to the floor may cause increased shift efforts, prematurely wear transmission components or damage the transmission.

**Note:** Do not drive with your foot resting on the clutch pedal or use the clutch pedal to hold your vehicle at a standstill while waiting on a hill. These actions will reduce the life of the clutch.

### Recommended Shift Speeds

**Note:** Do not downshift into 1 (First) when your vehicle is moving faster than 15 mph (24 km/h). This may damage the clutch and/or transmission.

Upshift according to the following charts.

For the 3.7L V6 with 2.73 axle ratio, shift according to the following chart:

| Upshifts when accelerating<br>(recommended for best fuel economy) |                  |
|---|------------------|
| Shift from:   |                  |
| 1 - 2   | 15 mph (24 km/h) |
| 2 - 3   | 25 mph (40 km/h) |
| 3 - 4   | 40 mph (64 km/h) |
| 4 - 5   | 45 mph (72 km/h) |
| 5 - 6   | 50 mph (80 km/h) |

For the 3.7L V6 with 3.31 axle ratio, shift according to the following chart:

| Upshifts when accelerating<br>(recommended for best fuel economy) |                  |
|---|------------------|
| Shift from:   |                  |
| 1 - 2   | 13 mph (21 km/h) |
| 2 - 3   | 26 mph (42 km/h) |
| 3 - 4   | 37 mph (59 km/h) |
| 4 - 5   | 43 mph (69 km/h) |
| 5 - 6   | 59 mph (95 km/h) |

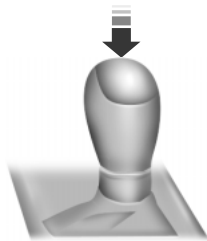
For the 5.0L V8, shift according to the following chart:

| Upshifts when accelerating<br>(recommended for best fuel economy) |                  |
|---|------------------|
| Shift from:   |                  |
| 1 - 2   | 17 mph (27 km/h) |
| 2 - 3   | 25 mph (40 km/h) |
| 3 - 4   | 40 mph (64 km/h) |
| 4 - 5   | 45 mph (72 km/h) |
| 5 - 6   | 50 mph (80 km/h) |

### Reverse

**Note:** The gearshift lever can only be moved to R (Reverse) by pushing the knob down before shifting to reverse. This is a lockout feature which protects the transmission from accidentally engaging R (Reverse) when intending to select 1 (First).

1. Make sure that your vehicle is at a complete stop before you shift into R (Reverse). Failure to do so may damage the transmission.
2. Press the clutch pedal to the floor to disengage clutch.
3. Shift into R (Reverse) by pushing the gearshift knob down, then moving the lever fully to the left, then forward.



**Note:** Do not press down on the shifter during any operation other than shifting to R (Reverse), as you may be inhibited from selecting your desired gear.

If R (Reverse) is not fully engaged, press the clutch pedal down and return the gearshift to the neutral position. Release the clutch pedal for a moment, then press it down and shift to R (Reverse) again.

**Parking Your Vehicle**

**WARNING:** Do not park your vehicle in Neutral, it may move unexpectedly and injure someone. Use 1 (First) gear and set the parking brake fully.

To park your vehicle:

1. Apply the brake and shift into the neutral position.
2. Fully apply the parking brake, hold the clutch pedal down, then shift into 1 (First).
3. Turn the ignition off.

**AXLE INFORMATION****Traction-Lok™ Axle (If Equipped)**

This axle provides added traction on slippery surfaces, particularly when one wheel is on a poor traction surface. Under normal conditions, the Traction-Lok™ axle functions like a standard rear axle.

Extended use of other than the manufacturer's specified size tires on a Traction-Lok™ rear axle could result in a permanent reduction in effectiveness. This loss of effectiveness does not affect normal driving and should not be noticeable to the driver.

**Axle with TORSEN® Differential (If Equipped)**

This axle provides added traction on slippery surfaces, particularly when one wheel is on a poor traction surface. Under normal conditions, the axle equipped with a TORSEN® differential functions like a standard rear axle.

Extended use of other than the manufacturer's specified size tires on a rear axle equipped with a TORSEN® differential could result in a permanent reduction in effectiveness. This loss of effectiveness does not affect normal driving and should not be noticeable to the driver.

**HILL START ASSIST (IF EQUIPPED)**

**WARNING:** The hill start assist feature does not replace the parking brake. When you leave the vehicle, always apply the parking brake and shift the transmission into P (Park) for automatic transmission or 1st gear for manual transmissions.



**WARNING:** You must remain in the vehicle once you have activated the hill start assist feature.



**WARNING:** During all times, you are responsible for controlling the vehicle, supervising the hill start assist system and intervening, if required.



**WARNING:** If the engine is revved excessively, or if a malfunction is detected when the hill start assist feature is active, the hill start assist feature will be deactivated.

This feature makes it easier to pull away when the vehicle is on a slope without the need to use the parking brake. When this feature is active, the vehicle will remain stationary on the slope for two to three seconds after you release the brake pedal. This allows you time to move your foot from the brake to the accelerator pedal. The brakes are released automatically once the engine has developed sufficient drive to prevent the vehicle from rolling down the slope. This is an advantage when pulling away on a slope, (for example from a car park ramp, traffic lights or when reversing uphill into a parking space).

This feature is activated automatically on any slope that can result in significant vehicle rollback. This feature will not operate if the parking brake is activated.

### Using Hill Start Assist

**Note:** If the engine is revved excessively, hill start assist will be deactivated.

1. Press the brake pedal to bring the vehicle to a complete standstill. Keep the brake pedal pressed.
2. If the sensors detect that the vehicle is on a slope, the hill start assist feature will be activated automatically.
3. When you remove your foot from the brake pedal, the vehicle will remain on the slope without rolling away for approximately two or three seconds. This hold time will automatically be extended if you are in the process of driving off.
4. Drive off in the normal manner. The brakes will be released automatically.



**GENERAL INFORMATION**

**Note:** Occasional brake noise is normal. If a metal-to-metal, continuous grinding or continuous squeal sound is present, the brake linings may be worn-out and should be inspected by an authorized dealer. If the vehicle has continuous vibration or shudder in the steering wheel while braking, the vehicle should be inspected by an authorized dealer.

**Note:** Brake dust may accumulate on the wheels, even under normal driving conditions. Some dust is inevitable as the brakes wear and does not contribute to brake noise. Refer to the *Vehicle Care* chapter for wheel cleaning instructions.



Refer to the *Instrument Cluster* chapter for information on the brake system warning light.

Wet brakes result in reduced braking efficiency. Gently press the brake pedal a few times when driving from a car wash or standing water to dry the brakes.

**Brake Over Accelerator**

In the event the accelerator pedal becomes stuck or entrapped, apply steady and firm pressure to the brake pedal to slow the vehicle and reduce engine power. If you experience this condition, apply the brakes and bring your vehicle to a safe stop. Turn the engine off, shift to P (Park) and apply the parking brake, and then inspect the accelerator pedal for any interferences. If none are found and the condition persists, have your vehicle towed to the nearest authorized dealer.

**Anti-lock Brake System (ABS)**

This system helps you maintain steering control during emergency stops by keeping the brakes from locking.



The ABS lamp momentarily illuminates when the ignition is turned on. If the light does not illuminate during start up, remains on or flashes, the ABS may be disabled and may need to be serviced.



If the ABS is disabled, normal braking is still effective. If the brake warning lamp illuminates with the parking brake released, have your brake system serviced immediately.

**HINTS ON DRIVING WITH ANTI-LOCK BRAKES**

When the system is operating, the brake pedal will pulse and may travel further. Maintain pressure on the brake pedal. You may also hear a noise from the system. This is normal.

The ABS will not eliminate the dangers inherent when:

- you drive too closely to the vehicle in front of you.
- your vehicle is hydroplaning.
- you take corners too fast.
- the road surface is poor.

**PARKING BRAKE**

**WARNING:** If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer as soon as possible.



**WARNING:** Always set the parking brake fully and make sure that the gearshift is securely latched in P (Park) (automatic transmission) or in 1 (First) (manual transmission).

To set the parking brake, pull the parking brake handle up as far as possible.

To release the parking brake, press and hold the button located at the end of the parking brake handle. Pull the handle up slightly, then push the handle down.

**PRINCIPLES OF OPERATION**

The traction control system helps avoid drive wheel spin and loss of traction.

If your vehicle begins to slide, the system applies the brakes to individual wheels and, when needed, reduces engine power at the same time. If the wheels spin when accelerating on slippery or loose surfaces, the system reduces engine power in order to increase traction.

**USING TRACTION CONTROL**

In certain situations (e.g. stuck in snow or mud), turning the traction control off may be beneficial as this allows the wheels to spin with full engine power. Turn off the traction control system by pressing the stability control button located on the center console.

**System indicator lights and messages**

**WARNING:** If a failure has been detected within the AdvanceTrac® system, the stability control light and the stability control off light will illuminate steadily. Verify that the traction control system was not manually disabled through using the information display control. If the stability control light still illuminates steadily, have the system serviced by an authorized dealer immediately. Operating your vehicle with AdvanceTrac® disabled could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.



The stability control light temporarily illuminates on engine start-up and flashes when a driving condition activates the stability system.



The stability control off light temporarily illuminates on engine start-up and stays on when the system is in sport mode, the traction control system is turned off, or AdvanceTrac® is turned off.

When the traction control system is turned off or on, a message appears in the information display showing system status.

**PRINCIPLES OF OPERATION**

**WARNING:** Vehicle modifications involving braking system, aftermarket roof racks, suspension, steering system, tire construction and/or wheel/tire size may change the handling characteristics of the vehicle and may adversely affect the performance of the AdvanceTrac® system. In addition, installing any stereo loudspeakers may interfere with and adversely affect the AdvanceTrac® system. Install any aftermarket stereo loudspeaker as far as possible from the front center console, the tunnel, and the front seats in order to minimize the risk of interfering with the AdvanceTrac® sensors. Reducing the effectiveness of the AdvanceTrac® system could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

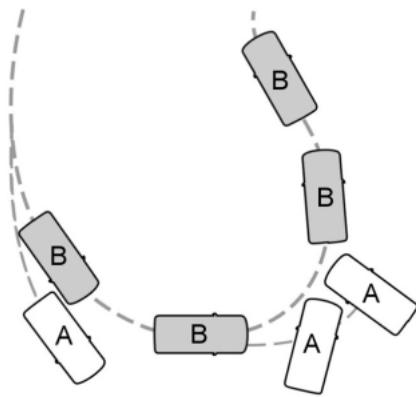


**WARNING:** Remember that even advanced technology cannot defy the laws of physics. It's always possible to lose control of a vehicle due to inappropriate driver input for the conditions. Aggressive driving on any road condition can cause you to lose control of your vehicle increasing the risk of personal injury or property damage. Activation of the AdvanceTrac® system is an indication that at least some of the tires have exceeded their ability to grip the road; this could reduce the operator's ability to control the vehicle potentially resulting in a loss of vehicle control, vehicle rollover, personal injury and death. If your AdvanceTrac® system activates, SLOW DOWN.

The AdvanceTrac® system helps you keep control of your vehicle when on a slippery surface. The electronic stability control (ESC) portion of the system helps avoid skids and lateral slides and the traction control system (TCS) helps avoid drive wheel spin and loss of traction. (For details on TCS operation, see the *Traction Control* chapter.)


**A** Vehicle without AdvanceTrac® skidding off its intended route.

**B** Vehicle with AdvanceTrac® maintaining control on a slippery surface.



**USING ADVANCETRAC®**


The system automatically is enabled when you start your engine. The ESC portion of the system is disabled when the transmission is in R (Reverse) or, on some models, if the stability control button is pressed and held for more than five seconds when the brakes are applied and the vehicle is at a stop. The traction control portion of the system can be turned off independently. See the *Traction Control* chapter.


| <b>AdvanceTrac® Features</b>   |                            |  |            |            |
|--|----------------------------|--|------------|------------|
| <b>Button functions</b>  | <b>Mode</b>                |  <b>icon status</b> | <b>ESC</b> | <b>TCS</b> |
| Default at start-up  | —                          | On during bulb check   | Enabled    | Enabled    |
| Button pressed momentarily   | Traction control off       | On   | Enabled    | Disabled   |
| Button pressed twice; brakes applied                                     | Sport mode (if equipped)   | On   | Enabled    | Enabled    |
| Button pressed and held more than 5 seconds; brakes applied; no throttle | AdvanceTrac® Disabled      | On   | Disabled   | Disabled   |
| Button pressed again after deactivation                                  | AdvanceTrac® fully enabled | Off  | Enabled    | Enabled    |


Some models may also come equipped with a sport mode which allows the driver to reduce normal AdvanceTrac® system intervention and provide a more spirited driving experience. To enter sport mode, press the stability control button twice rapidly with the brakes applied. The message appears in the information display that the system is now in sport mode.


**Note:** Sport mode is not intended to be used on public roadways.

**SENSING SYSTEM (IF EQUIPPED)**

 **WARNING:** To help avoid personal injury, please read and understand the limitations of the system as contained in this section. Sensing is only an aid for some (generally large and fixed) objects when moving in reverse on a flat surface at parking speeds. Traffic control systems, inclement weather, air brakes, and external motors and fans may also affect the function of the sensing system; this may include reduced performance or a false activation.

 **WARNING:** To help avoid personal injury, always use caution when in R (Reverse) and when using the sensing system.

 **WARNING:** This system is not designed to prevent contact with small or moving objects. The system is designed to provide a warning to assist the driver in detecting large stationary objects to avoid damaging the vehicle. The system may not detect smaller objects, particularly those close to the ground.

 **WARNING:** Certain add-on devices such as large trailer hitches, bike or surfboard racks and any device that may block the normal detection zone of the system, may create false beeps.

**Note:** Keep the sensors (located on the bumper/fascia) free from snow, ice and large accumulations of dirt. If the sensors are covered, the system's accuracy can be affected. Do not clean the sensors with sharp objects.

**Note:** If your vehicle sustains damage to the bumper/fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.

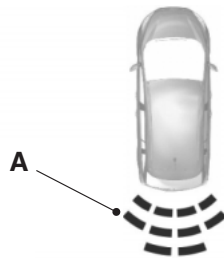
The sensing system warns the driver of obstacles within a certain range of the bumper area. The system turns on automatically whenever the ignition is switched on.

When receiving a detection warning, the radio volume is reduced to a predetermined level. After the warning goes away, the radio volume returns to the previous level.

The system can be turned off using the information display control. Refer to the *Information Display* chapter. If a fault is present in the system, a warning message appears in the information display and does not allow the driver to switch the faulted system on.

**Using the Rear Sensing System**

The rear sensors are only active when the transmission is in R (Reverse). As the vehicle moves closer to the obstacle, the rate of the audible warning increases. When the obstacle is fewer than 10 inches (25 centimeters) away, the warning sounds continuously. If a stationary or receding object is detected farther than 10 inches (25 centimeters) from the side of the vehicle, the tone sounds for only three seconds. Once the system detects an object approaching, the warning sounds again.



A. Coverage area of up to 6 feet (2 meters) from the rear bumper (with a decreased coverage area at the outer corners of the bumper).

The system detects certain objects while the transmission is in R (Reverse):

- and moving toward a stationary object at a speed of 3 mph (5 km/h) or less.
- but not moving, and a moving object is approaching the rear of the vehicle at a speed of 3 mph (5 km/h) or less.
- and moving at a speed of less than 3 mph (5 km/h) and a moving object is approaching the rear of the vehicle at a speed of less than 3 mph (5 km/h).


**REAR VIEW CAMERA SYSTEM (IF EQUIPPED)**


**WARNING:** The rear view camera system is a reverse aid supplement device that still requires the driver to use it in conjunction with the interior and exterior mirrors for maximum coverage.




**WARNING:** Objects that are close to either corner of the bumper or under the bumper, might not be seen on the screen due to the limited coverage of the camera system.



 **WARNING:** Back up as slow as possible since higher speeds might limit your reaction time to stop the vehicle.

 **WARNING:** Use caution when using the rear video camera and the trunk is ajar. If the trunk is ajar, the camera will be out of position and the video image may be incorrect. All guidelines (if enabled) have been removed when the trunk is ajar.

 **WARNING:** Use caution when turning camera features on or off while in R (Reverse). Make sure the vehicle is not moving.

The rear view camera system provides a video image of the area behind the vehicle.

During operation, lines appear in the display which represent your vehicle's path and proximity to objects behind the vehicle.



The camera is located on the trunk.

**Using the Rear View Camera System**

The rear view camera system displays what is behind your vehicle when you place the transmission in R (Reverse). The system uses fixed guidelines which show the actual path the vehicle is moving in while reversing in a straight line. This can be helpful when backing into a parking space or aligning the vehicle with another object behind the vehicle.

**Note:** Do not use the camera system if the trunk is ajar.

**Note:** If the image comes on while the transmission is not in R (Reverse), have the system inspected by your authorized dealer.

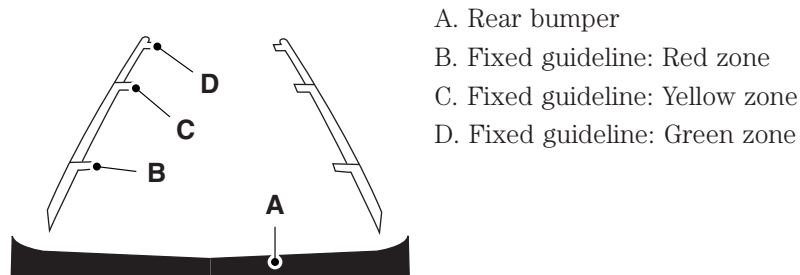
**Note:** When towing, the camera only sees what is being towed behind the vehicle. This might not provide adequate coverage as it usually provides in normal operation and some objects might not be seen. In some vehicles, the guidelines may disappear once the trailer tow connector is engaged.

**Note:** The camera may not operate correctly under the following conditions:

- Nighttime or dark areas if one or both reverse lamps are not operating.
- The camera's view is obstructed by mud, water or debris. Clean the lens with a soft, lint-free cloth and non-abrasive cleaner.
- The rear of the vehicle is hit or damaged, causing the camera to become misaligned.

### Guidelines

**Note:** The guidelines are only available when the transmission is in R (Reverse).



The fixed guidelines fade in and out depending on the steering wheel position.

Always use caution while reversing. Objects in the red zone are closest to your vehicle and objects in the green zone are further away. Objects are getting closer to your vehicle as they move from the green zone to the yellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of the vehicle.

### Rear Camera Delay

**On vehicles without a navigation system,** the camera image in the rear view mirror remains on for a few seconds to assist in parking or attaching a trailer.

**On vehicles with a navigation system,** the camera image remains in the display until the vehicle speed reaches 5 mph (8 km/h). This occurs when the rear camera delay feature is on, or until a radio button is selected. Selectable settings for this feature are ON and OFF. The default setting for the rear camera delay is OFF.

**PRINCIPLES OF OPERATION**

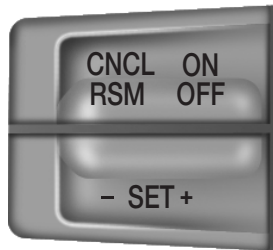
Cruise control lets you maintain a set speed without keeping your foot on the accelerator pedal.

**USING CRUISE CONTROL**

**WARNING:** Do not use cruise control in heavy traffic or on roads that are winding, slippery or unpaved.

**Note:** Vehicle speed may vary momentarily when driving up or down a steep hill. Apply the brakes if the vehicle speed increases above the set speed while driving downhill.

**Note:** Cruise control will disengage if the vehicle speed decreases more than 10 mph (16 km/h) below your set speed while driving uphill.



The speed controls are located on the steering wheel.

**Switching On Cruise Control**

Press and release ON.



The indicator will turn on in the instrument cluster.

**Setting a Speed**

1. Accelerate to the desired speed.
2. Press and release SET +.
3. Take your foot off the accelerator pedal.

The indicator will change colors in the instrument cluster.

**Changing the Set Speed**

- Press and hold SET + or SET -. Release the control when you reach the desired speed.
- Press and release SET + or SET -. The set speed will change in approximately 1 mph (2 km/h) increments.
- Press the accelerator or brake pedal until you reach the desired speed. Press and release SET +.

**Canceling a Set Speed**

Press CNCL or tap the brake pedal. The set speed will not be erased.

**Resuming a Set Speed**

Press and release RSM.

**Switching Off Cruise Control**

**Note:** The set speed is erased when you turn off cruise control.

Press and release OFF or turn off the ignition.

**STEERING****Electric Power Steering**

**WARNING:** The electric power steering system has diagnostic checks that continuously monitor the system to ensure proper operation. When a system error is detected the following message Service Power Steering, Service Power Steering Now or Power Steering Assist Fault may appear in the information display.



**WARNING:** The electric power steering system has diagnostics checks that continuously monitor the system to ensure proper operation of the electronic system. When an electronic error is detected, Power Steering Assist Fault will be displayed in the information display. If this happens, stop the vehicle in a safe place, and turn off the engine. After at least 10 seconds, reset the system by restarting the engine, and watch the information display for Power Steering Assist Fault. If the message returns, or returns while driving, take the vehicle to your dealer to have it checked. With the message displayed, the steering assist is turned off, making the vehicle harder to steer.



**WARNING:** If Service Power Steering is displayed in the information display, a problem with the system function has been detected. On the next key cycle Service Power Steering Now will be displayed and steering assist will be removed until the steering system is serviced. Have your vehicle taken to the nearest dealer as soon as possible.



**WARNING:** Obtain immediate service if a system error is detected. You may not notice any difference in the feel of your steering, but a serious condition may exist. Failure to do so may result in loss of steering control.

Your vehicle is equipped with an electric power-assisted steering system. There is no fluid reservoir to check or fill.

If your vehicle loses electrical power while you are driving (or if the ignition is turned off), you can steer the vehicle manually, but it takes more effort. Extreme continuous steering may increase the effort it takes for you to steer. This occurs to prevent internal overheating and permanent damage to your steering system. If this should occur, you will neither lose the ability to steer the vehicle manually nor will it cause permanent damage. Typical steering and driving maneuvers will allow the system to cool and steering assist will return to normal.

When a steering system error is detected, steering messages may appear in the information display.

### **Steering Tips**

If the steering wanders or pulls, check for:

- an improperly inflated tire
- uneven tire wear
- loose or worn suspension components
- loose or worn steering components
- improper vehicle alignment

A high crown in the road or high crosswinds may also make the steering seem to wander/pull.

### **Selectable steering**

**Note:** The steering setting defaults to standard if the battery is disconnected or removed.

Refer to the *Information Displays* chapter.

You can select the desired steering feel using the information display control. The settings are:

- Standard: Default factory setting.
- Sport: Slightly higher effort required for steering with more road force felt through the steering wheel.
- Comfort: Slightly less effort required for steering with less road force felt through the steering wheel.

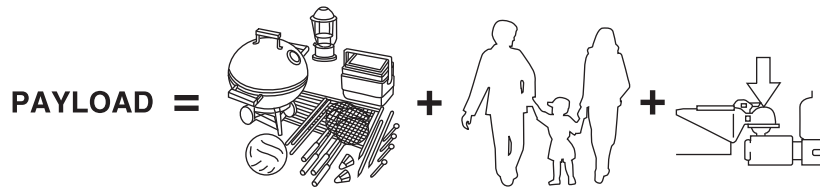
After selecting the desired setting, you may feel a soft feedback bump in the steering wheel when the changeover occurs.

**LOAD LIMIT****Vehicle Loading – With and Without a Trailer**

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, with or without a trailer, from the vehicle's Tire Label or Safety Compliance Certification Label:

**Base Curb Weight** – is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

**Vehicle Curb Weight** – is the weight of your new vehicle when you picked it up from your authorized dealer plus any aftermarket equipment.



**Payload** – is the combined weight of cargo and passengers that the vehicle is carrying. The maximum payload for your vehicle can be found on the Tire Label on the B-Pillar or the edge of the driver's door (vehicles exported outside the US and Canada may not have a Tire Label). Look for **“THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED XXX kg OR XXX lb.”** for maximum payload. The payload listed on the Tire Label is the maximum payload for the vehicle as built by the assembly plant. If any aftermarket or authorized-dealer installed equipment has been installed on the vehicle, the weight of the equipment must be subtracted from the payload listed on the Tire Label in order to determine the new payload.

**! WARNING:** The appropriate loading capacity of your vehicle can be limited either by volume capacity (how much space is available) or by payload capacity (how much weight the vehicle should carry). Once you have reached the maximum payload of your vehicle, do not add more cargo, even if there is space available. Overloading or improperly loading your vehicle can contribute to loss of vehicle control and vehicle rollover.

Example only:

**TIRE AND LOADING INFORMATION**

SEATING CAPACITY | TOTAL 5 | FRONT 2 | REAR 3

The combined weight of occupants and cargo should never exceed : **XXX kg or XXX lbs.**

| TIRE  | SIZE                     | COLD TIRE PRESSURE                 | SEE OWNERS<br>MANUAL FOR<br>ADDITIONAL<br>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 LOADING INFORMATION**  
**RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT**

SEATING CAPACITY | TOTAL 5 | FRONT 2 | REAR 3  
NOMBRE DE PLACES | TOTAL 5 | AVANT 2 | ARRIERE 3

The combined weight of occupants and cargo should never exceed 492 kg or 1085 lbs.  
Le poids total des occupants et du chargement ne doit jamais dépasser 492 kg ou 1085 lb.

| TIRE PNEU        | SIZE DIMENSIONS | COLD TIRE PRESSURE PRESSION DES PNEUS A FROID | SEE OWNER'S<br>MANUAL FOR<br>ADDITIONAL<br>INFORMATION<br><br>VOIR LE MANUEL<br>DE L'USAGER<br>POUR PLUS DE<br>RENSEIGNEMENTS |
|------------------|-----------------|---|---|
| FRONT AVANT      | P235/70R16      | 240 KPA, 35 PSI                               |   |
| REAR ARRIERE     | P235/70R16      | 240 KPA, 35 PSI                               |   |
| SPARE DE SECOURS | T145/90R17      | 415 KPA, 60 PSI                               |   |



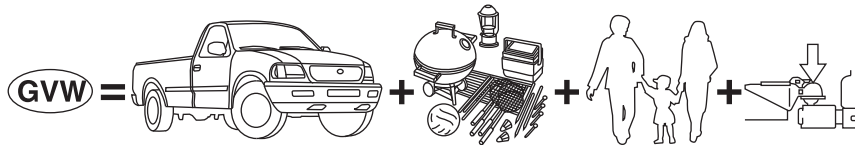
**Cargo Weight** – includes all weight added to the Base Curb Weight, including cargo and optional equipment. When towing, trailer tongue load weight is also part of cargo weight.

**GAW (Gross Axle Weight)** – is the total weight placed on each axle (front and rear) – including vehicle curb weight and all payload.



**GAWR (Gross Axle Weight Rating)** – is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label. The label shall be affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver’s seating position. The total load on each axle must never exceed its GAWR.**

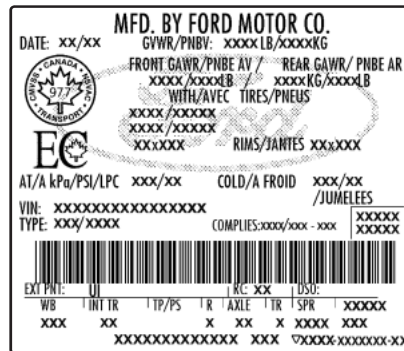
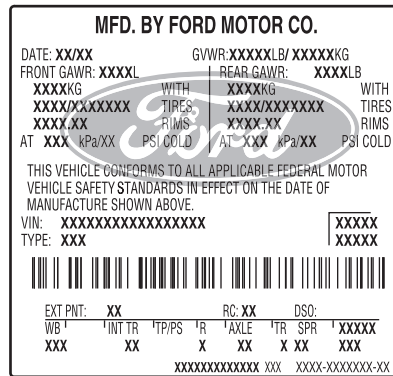
**Note:** For trailer towing information refer to *Trailer towing* found in this chapter or the *RV and Trailer Towing Guide* provided by your authorized dealer.



**GVW (Gross Vehicle Weight)** – is the Vehicle Curb Weight + cargo + passengers.

**GVWR (Gross Vehicle Weight Rating)** – is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label. The label shall be affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver’s seating position. The GVW must never exceed the GVWR.**

- Example only:



**!** **WARNING:** Exceeding the Safety Compliance Certification Label vehicle weight rating limits could result in substandard vehicle handling or performance, engine, transmission and/or structural damage, serious damage to the vehicle, loss of control and personal injury.



**GCW (Gross Combined Weight)** – is the weight of the loaded vehicle (GVW) plus the weight of the fully loaded trailer.

**GCWR (Gross Combined Weight Rating)** – is the maximum allowable weight of the vehicle and the loaded trailer – including all cargo and passengers – that the vehicle can handle without risking damage.

(Important: The towing vehicle's braking system is rated for operation at GVWR, not at GCWR. Separate functional brakes should be used for safe control of towed vehicles and for trailers where the GCW of the towing vehicle plus the trailer exceed the GVWR of the towing vehicle. **The GCW must never exceed the GCWR.**

**Maximum Loaded Trailer Weight** – is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with only mandatory options, no cargo (internal or external), a tongue load of 10–15% (conventional trailer), and driver only (150 lb. [68 kg]). **Consult your authorized dealer (or the *RV and Trailer Towing Guide* provided by your authorized dealer) for more detailed information.**



**WARNING:** Do not exceed the GVWR or the GAWR specified on the Safety Compliance Certification Label.



**WARNING:** Do not use replacement tires with lower load carrying capacities than the original tires because they may lower the vehicle's GVWR and GAWR limitations. Replacement tires with a higher limit than the original tires do not increase the GVWR and GAWR limitations.



**WARNING:** Exceeding any vehicle weight rating limitation could result in serious damage to the vehicle and/or personal injury.

**Steps for determining the correct load limit:**

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. ( $1400 - 750$  ( $5 \times 150$ ) = 650 lb.). In metric units ( $635 - 340$  ( $5 \times 68$ ) = 295 kg.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

The following gives you a few examples on how to calculate the available amount of cargo and luggage load capacity:

- Another example for your vehicle with 1,400 lb. (635 kg) of cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, 4 of your friends and all the golf bags? You and four friends average 220 lb. (99 kg) each and the golf bags weigh approximately 30 lb. (13.5 kg) each. The calculation would be:  
 $1,400 - (5 \times 220) - (5 \times 30) = 1,400 - 1,100 - 150 = 150$  lb. Yes, you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be:  
 $635 \text{ kg} - (5 \times 99 \text{ kg}) - (5 \times 13.5 \text{ kg}) = 635 - 495 - 67.5 = 72.5$  kg.

- A final example for your vehicle with 1,400 lb. (635 kg) of cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past 2 years. Measuring the inside of the vehicle with the rear seat folded down, you have room for 12-100 lb. (45 kg) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 lb. (99 kg), the calculation would be:  
 $1,400 - (2 \times 220) - (12 \times 100) = 1,400 - 440 - 1,200 = -240$  lb. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be:  
 $635 \text{ kg} - (2 \times 99 \text{ kg}) - (12 \times 45 \text{ kg}) = 635 - 198 - 540 = -103$  kg. You will need to reduce the load weight by at least 240 lb. (104 kg). If you remove 3-100 lb. (45 kg) cement bags, then the load calculation would be:  
 $1,400 - (2 \times 220) - (9 \times 100) = 1,400 - 440 - 900 = 60$  lb. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be:  
 $635 \text{ kg} - (2 \times 99 \text{ kg}) - (9 \times 45 \text{ kg}) = 635 - 198 - 405 = 32$  kg.

The above calculations also assume that the loads are positioned in your vehicle in a manner that does not overload the Front or the Rear Gross Axle Weight Rating specified for your vehicle on the Safety Compliance Certification Label. The label shall be affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position.

**TOWING A TRAILER**

**WARNING:** Do not exceed the GVWR or the GAWR specified on the certification label.



**WARNING:** Towing trailers beyond the maximum recommended gross trailer weight exceeds the limit of the vehicle and could result in engine damage, transmission damage, structural damage, loss of vehicle control, vehicle rollover and personal injury.

Your vehicle's load capacity is designated by weight, not by volume, so you cannot necessarily use all available space when loading a vehicle.

Towing a trailer places an additional load on your vehicle's engine, transmission, axle, brakes, tires and suspension. Inspect these components periodically during, and after, any towing operation.

**RECOMMENDED TOWING WEIGHTS**

Your vehicle is capable of towing a trailer up to 1000 lb (454 kg) gross trailer weight with a maximum tongue load of 100 lb (45 kg). **Do not tow** with the Boss 302, Boss 302 Laguna Seca, GT Deluxe or Shelby GT500 models; they are not rated to tow a trailer.

**ESSENTIAL TOWING CHECKS**

Follow these guidelines to ensure safe towing:

- Do not tow a trailer until your vehicle has been driven at least 1000 miles (1600 kilometers).
- Consult your local motor vehicle laws for towing a trailer.
- Refer to the instructions included with towing accessories for the proper installation and adjustment specifications.
- Service your vehicle more frequently if you tow a trailer. Refer to your scheduled maintenance information.

For load specification terms found on the label and instructions on calculating your vehicle's load, refer to the *Load Carrying* chapter. Remember to account for the trailer tongue weight as part of the vehicle load when calculating the total vehicle weight.

**Hitches**

Do not use a hitch that either clamps onto the bumper or attaches to the axle. Distribute the trailer load so 10–15% of the total trailer weight is on the tongue.

**Safety Chains**

Always connect the safety chains to the vehicle's hook retainers. To connect the safety chains, cross them under the trailer tongue and allow slack for turning corners.

If you use a rental trailer, follow the rental agency's instructions.

**Note:** Never attach safety chains to the bumper.

**Trailer Brakes**

**WARNING:** Do not connect a trailer's hydraulic brake system directly to your vehicle's brake system. Your vehicle may not have enough braking power and your chances of having a collision greatly increase.

Electric brakes and manual, automatic or surge-type trailer brakes are safe if installed properly and adjusted to the manufacturer's specifications. The trailer brakes must meet local and Federal regulations.

The braking system of the tow vehicle is rated for operation at the GVWR not GCWR.

**Trailer Lamps**

Trailer lamps are required on most towed vehicles. Ensure all running lights, brake lights, turn signals and hazard lights are working. Contact your authorized dealer or trailer rental agency for proper instructions and equipment for hooking up the lamps.

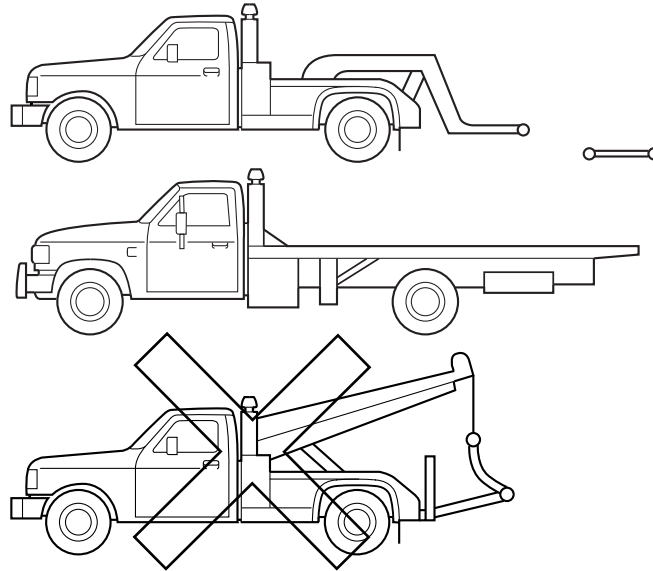
**Before Towing a Trailer**

Practice turning, stopping and backing-up to get the feel of the vehicle-trailer combination before starting on a trip. When turning, make wider turns so the trailer wheels will clear curbs and other obstacles.

**When Towing a Trailer**

- Do not drive faster than 70 mph (113 km/h) during the first 500 miles (800 kilometers) and do not make full-throttle starts.
- Check your hitch, electrical connections and trailer wheel lug nuts thoroughly after you have traveled 50 miles (80 kilometers).
- Place the gearshift lever in P (Park) to aid in engine and transmission cooling and A/C efficiency during hot weather while stopped in traffic.
- Turn off the speed control. The speed control may turn off automatically when you are towing on long, steep grades.

- Shift to a lower gear when driving down a long or steep hill. Do not apply the brakes continuously, as they may overheat and become less effective.
- If your transmission is equipped with the grade assist feature, use this feature when towing. This provides engine braking and helps eliminate excessive transmission shifting for optimum fuel economy and transmission cooling.
- Allow more distance for stopping with a trailer attached; anticipate stops and brake gradually.
- Avoid parking on a grade. However, if you must park on a grade, place wheel chocks under the trailer's wheels.

**WRECKER TOWING**

If you need to have your vehicle towed, contact a professional towing service or, if you are a member of a roadside assistance program, your roadside assistance service provider.

It is recommended that your vehicle be towed with a wheel lift and dollies or flatbed equipment. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure. If the vehicle is towed incorrectly, or by any other means, vehicle damage may occur.



Ford Motor Company produces a towing manual for all authorized tow truck operators. Have your tow truck operator refer to this manual for proper hook-up and towing procedures for your vehicle.

If your vehicle is to be towed from the front using wheel lift equipment, it is recommended that the rear wheels (drive wheels) be placed on a dolly to prevent damage to the transmission.

If your vehicle is to be towed from the rear using wheel lift equipment, it is recommended that the front wheels be placed on a dolly to prevent damage to the front fascia.

## TOWING THE VEHICLE ON FOUR WHEELS

### Emergency Towing

In the event your vehicle becomes disabled (without access to wheel dollies, car-hauling trailer, or flatbed transport vehicle), it can be flat-towed (all wheels on the ground, regardless of the powertrain/transmission configuration) under the following conditions:

- The vehicle is facing forward so that it is towed in a forward direction.
- The transmission is placed in N (Neutral). Refer to *Automatic transmission* in the *Transmission* chapter if you cannot move the transmission into N (Neutral).
- Maximum speed is 35 mph (56 km/h).
- Maximum distance is 50 miles (80 kilometers).

### Recreational Towing

**Note:** Put your climate control system in recirculated air mode to prevent exhaust fumes from entering the vehicle. Refer to the *Climate Control* chapter.

Follow these guidelines if you have a need for recreational (RV) towing. An example of recreational towing would be towing your vehicle behind a motorhome. These guidelines are designed to ensure that your transmission is not damaged.

Do not tow your vehicle with any wheels on the ground, as vehicle or transmission damage may occur. It is recommended to tow your vehicle with all four (4) wheels off the ground such as when using a car-hauling trailer. Otherwise, no recreational towing is permitted.

**OPENING THE CONVERTIBLE TOP (IF EQUIPPED)**

**Note:** Do not store articles behind rear seat. Articles stored in the convertible top stowage compartment may break the rear glass window when the top is opened.

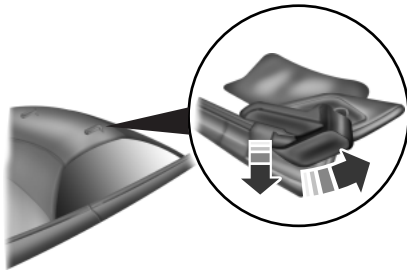
**Note:** Opening the convertible top when the top material is wet may cause mold or mildew.

The convertible top can be opened with the side windows down. The windows will automatically lower when opening or closing the top.

The convertible top will not operate unless the vehicle is stationary or traveling under 3 mph (5 km/h).

To open the convertible top:

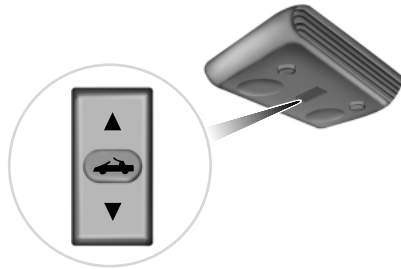
1. Bring the vehicle to a complete stop. The ignition must be on. It is recommended that the engine is running when opening the top to prevent draining the battery.
2. Check the convertible top stowage compartment behind the rear seat to be sure it is empty. Make sure the convertible top outer surface is free of debris.



**Note:** The latch handles must be pulled downward fully to allow the latch to fully rotate into the open position.

3. Unclamp the top from the windshield header by pulling each latch handle down and then rotating the latch to the rear until it clears the header.

**Note:** If the top has not been opened for some time and sticks to the windshield header, push the front of the top up slightly with your hand to loosen it.



4. Press and hold the convertible top switch on the overhead console until the windows are completely down and the top is completely stored.

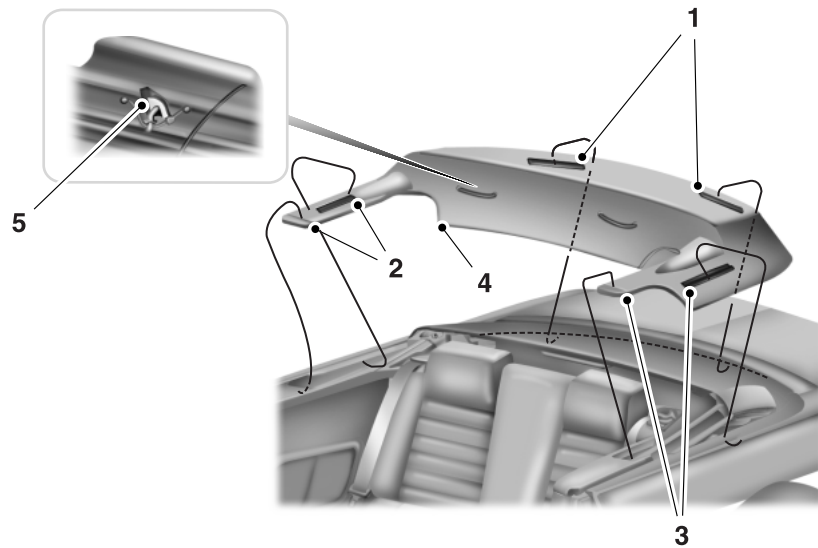
### USING THE BOOT

#### Installing the Boot



**WARNING:** Always secure the retaining clips and boot straps on the vehicle or the boot may come loose while driving.

**Note:** Be sure the boot is secure on the vehicle before driving. Improper installation can result in loss or damage of the boot.



1. Install the boot on the vehicle by hooking the boot retaining clips on the back panel.
2. Install the boot on the right side tucking in the front part of the boot in the quarter panel and hooking the retaining clip on the side.
3. Install the boot on the left side tucking in the front part of the boot in the quarter panel and hooking the retaining clip on the side.
4. Tuck the boot corners behind the shoulder belts.
5. Secure the boot straps on the rear seat hooks behind the rear seat.

### **Removing the Boot**

1. Unhook the boot straps from the rear seat hooks.
2. Push the boot down unhooking the boot retaining clips.
3. Lift the boot off the vehicle.