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Introduction

CALIFORNIA Proposition 65 Warning



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

CONGRATULATIONS

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

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

- In the United States: www.ford.com
- In Canada: www.ford.ca
- In Australia: www.ford.com.au
- In Mexico: www.ford.com.mx

Additional owner information is given in separate publications.

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

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



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

SAFETY AND ENVIRONMENT PROTECTION



Warning symbols in this guide

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

Introduction

Warning symbols on your vehicle

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



Protecting the environment

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



BREAKING-IN YOUR VEHICLE

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

Drive your new vehicle at least 500 miles (800 km) before towing a trailer. Additionally, during the first 500 miles (800 km) that you tow a trailer, do not drive over 70 mph (112 km/h) and do not make starts at full throttle. This style of driving will help the engine and other parts of your vehicle break in at the heavier loads. For more detailed information about towing a trailer, refer to *Trailer towing* in the *Tires, Wheels and Loading* chapter.

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

SPECIAL NOTICES

New Vehicle Limited Warranty

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

Special instructions

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

Introduction



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



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

Service Data Recording

Service data recorders in your vehicle are capable of collecting and storing diagnostic information about your vehicle. This potentially includes information about the performance or status of various systems and modules in the vehicle, such as engine, throttle, steering or brake systems. In order to properly diagnose and service your vehicle, Ford Motor Company, Ford of Canada, and service and repair facilities may access vehicle diagnostic information through a direct connection to your vehicle when diagnosing or servicing your vehicle.

Event Data Recording

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

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

To access this information, special equipment must be directly connected to the recording modules. Ford Motor Company and Ford of Canada do not access event data recorder information without obtaining consent, unless pursuant to court order or where required by law enforcement, other government authorities or other third parties acting with lawful authority. Other parties may seek to access the information independently of Ford Motor Company and Ford of Canada.

Using your vehicle with a snowplow

Do not use this vehicle for snowplowing.

Your vehicle is not equipped with a snowplowing package.

Introduction

Notice to owners of pickup trucks and utility type vehicles



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

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

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

Cell phone use

The use of Mobile Communications Equipment has become increasingly important in the conduct of business and personal affairs. However, drivers must not compromise their own or others' safety when using such equipment. Mobile Communications can enhance personal safety and security when appropriately used, particularly in emergency situations. Safety must be paramount when using mobile communications equipment to avoid negating these benefits.

Mobile Communication Equipment includes, but is not limited to cellular phones, pagers, portable email devices, in-vehicle communications systems, telematics devices and portable two-way radios.



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



Middle East/North Africa vehicle specific information

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

Introduction

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

Vehicle Symbol Glossary

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

Introduction

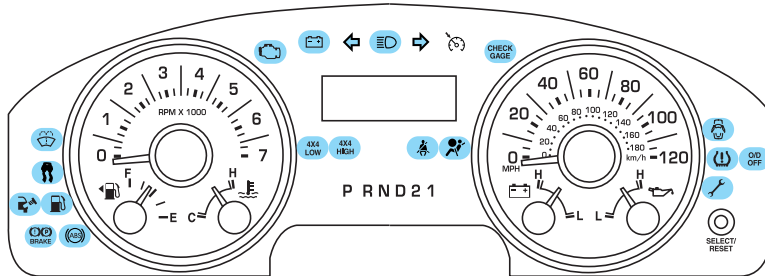
Vehicle Symbol Glossary

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

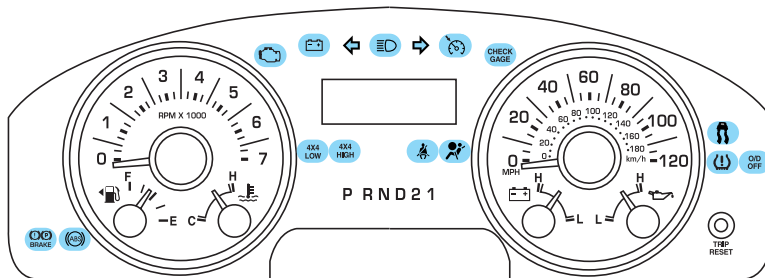
Instrument Cluster

WARNING LIGHTS AND CHIMES

Standard instrument cluster



Optional instrument cluster



Warning lights and gauges can alert you to a vehicle condition that may become serious enough to cause expensive repairs. A warning light may illuminate when a problem exists with one of your vehicle's functions. Many lights will illuminate when you start your vehicle to make sure the bulb works. If any light remains on after starting the vehicle, refer to the respective system warning light for additional information.

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



Instrument Cluster

heavy acceleration and deceleration) and have your vehicle serviced immediately by your authorized dealer.



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

Electronic throttle control (if equipped): Illuminates when the engine has defaulted to a 'limp-home' operation. Report the fault to a dealer at the earliest opportunity.



On vehicles equipped with a message center, "ENGINE FAILSAFE MODE" or "CHECK ELECTRONIC THROTTLE CONTROL" will be displayed, refer to *Message Center* in the *Driver Controls* chapter.

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



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

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



Instrument Cluster

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



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



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



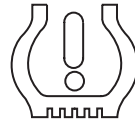
Check gage: Illuminates when any of the following conditions has occurred:

- The engine coolant temperature is high.
- The engine oil pressure is low.

**CHECK
GAGE**

Low tire pressure warning (if equipped with the Tire Pressure Monitoring System): Illuminates

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



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



Instrument Cluster

Check fuel cap (if equipped):

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



Low washer fluid (if equipped):

Illuminates when the windshield washer fluid is low.



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



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

O/D
OFF

AdvanceTrac®(if equipped):

Illuminates when the AdvanceTrac® with RSC system is active. If the light remains on, have the system serviced immediately, refer to the *Driving* chapter for more information.



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

4x4
LOW

Instrument Cluster

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

**4x4
HIGH**

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



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



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



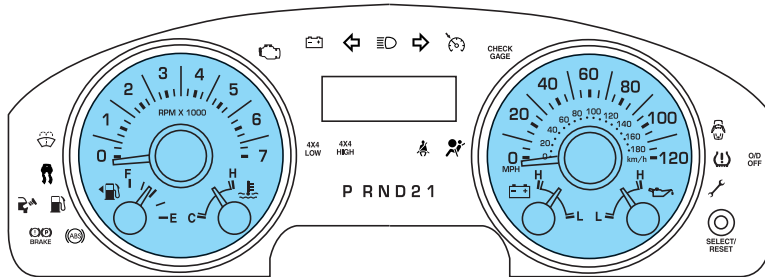
Key-in-ignition warning chime: Sounds when the key is left in the ignition in the OFF/LOCK or ACCESSORY position and the driver's door is opened.

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

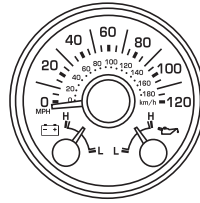
Door ajar warning chime: Sounds when any door, liftgate or the liftgate glass is opened (or not fully closed).

Instrument Cluster

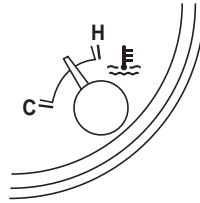
GAUGES



Speedometer: Indicates the current vehicle speed.



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



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

Instrument Cluster

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

- With Mini Message Center



- With Full Message Center

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



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

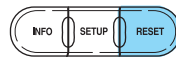
- With Mini Message Center



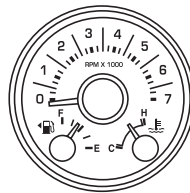
Press the SELECT/RESET control once to switch from the odometer to the trip odometer. Press the control again to select Trip 1 and Trip 2 features. To reset the trip, press and hold the control again until the trip reading is 0.0 miles.

- With Full Message Center

Press and release the message center INFO button until TRIP mode appears in the display. Press the control again to select Trip 1 and Trip 2 features. Press the RESET button to reset.

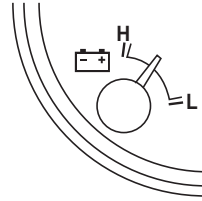


Tachometer: Indicates the engine speed in revolutions per minute. Driving with your tachometer pointer continuously at the top of the scale may damage the engine.



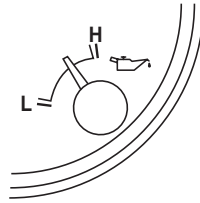
Instrument Cluster

Battery voltage gauge: Indicates the battery voltage when the ignition is in the ON position. If the pointer moves and stays outside the normal operating range, have the vehicle's electrical system checked by your authorized dealer as soon as possible.

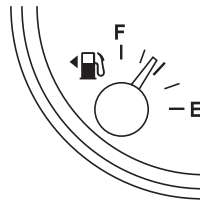


Engine oil pressure gauge:

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



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



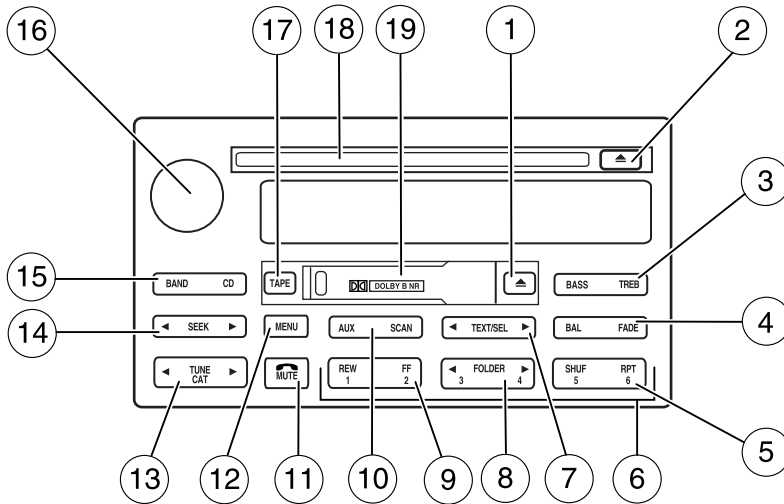
Refer to *Filling the tank* in the *Maintenance and Specifications* chapter for more information.

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

Entertainment Systems

AUDIO SYSTEMS

Premium Satellite Compatible AM/FM Stereo/Cassette/Single CD/MP3 radio (if equipped)



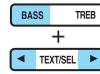
1. **EJ (Eject):** Press to stop and eject a tape.



2. **EJ (Eject):** Press to stop and eject a CD.



3. **BASS:** Allows you to increase or decrease the audio system's bass output. Press BASS then press TEXT/SEL to decrease ◀ or increase ▶ the bass levels.



TREB (Treble): Allows you to increase or decrease the audio system's treble output. Press TREB then press TEXT/SEL to decrease ◀ or increase ▶ the treble levels.



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USA (fus)

Entertainment Systems

4. **BAL (Balance):** Allows you to shift speaker sound between the right and left speakers. Press BAL then press TEXT/SEL to shift sound to the left ◀ or right ▶ .



FADE: Allows you to shift speaker sound between the front and rear speakers. Press FADE then press TEXT/SEL to shift the sound to the rear ◀ or the front ▶ .



5. **SHUF (Shuffle):** Press to play CD/MP3 tracks in random order. Press again to deactivate random play.



RPT (Repeat): Press to repeat the current CD/MP3 track.



6. **Memory preset stations:** To set a memory preset station, tune the radio to the desired station, then press and hold the memory preset control until the sound returns.

7. **TEXT/SEL:** Select: Use to adjust bass, treble, balance and fade levels.



TEXT: TEXT is available when equipped with Satellite radio. Your radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your authorized dealer. Detailed Satellite instructions are included with the dealer installed kit. TEXT is also available with ID3 tags on MP3 files. *Dealer installed satellite kit only available in the continental United States.*

8. **Folder:** Press to reverse (◀) or advance (▶) MP3 folders.



9. **REW (Rewind):** Works in tape and CD modes.



In tape mode, radio play continues until rewind is stopped (by pressing REW again) or the beginning of the tape is reached.

In CD mode, REW control reverses the CD within the current track.

Entertainment Systems

FF (Fast Forward): Works in tape and CD modes.



In the tape mode, tape direction automatically reverses when the end of the tape is reached. Fast forward is stopped by pressing FF again.

In CD mode, FF advances the CD within the current track.

10. **AUX:** Press to toggle between the current playing media and DVD (if equipped).



SCAN: Press for a brief sampling of radio stations, tape selections or CD tracks. Press again to deactivate scan mode.



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



12. **MENU:** Press to access the following options:



- **AUTOSET:** Press MENU until AUTOSET is displayed. Press TEXT/SEL to turn this function on or off. AUTOSET allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2. If there are less than six strong stations available on the frequency band, the remaining memory preset controls will all store the last strong station available.
- **Speed sensitive volume** (if equipped): Radio volume changes automatically and slightly with vehicle speed to compensate for road and wind noise. Recommended level is 1–3. Level 0 turns the feature off and level 7 is the maximum setting. To engage the speed sensitive volume feature, press MENU until speed VOL X appears in the display. Press TEXT/SEL to increase (◀) decrease (▶) volume compensation levels. The selected level will appear in the display.
- **Setting the clock:** Press MENU until SELECT HOUR or SELECT MINS is displayed. Press SEL to increase (◀) or decrease (▶).
- **Compression:** In CD/MP3 modes, select to bring loud and soft passages together for a more consistent listening level.

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USA (fus)*

Entertainment Systems

- **Folder/Track mode:** In MP3 mode, press MENU until MODE appears in the display. Use SEL to toggle between FOLDER (only tracks within the selected folder are accessible) or TRACK (all tracks on the disc are accessible).

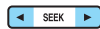
13. **TUNE/CAT:** In radio mode, press to manually advance up/down the frequency band. In satellite radio mode, press CAT for a listing of available music categories.



CAT: CAT is only available when equipped with Satellite Radio. Your radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your authorized dealer. Detailed Satellite instructions are included with the dealer installed kit. *Dealer installed satellite kit only available in the continental United States.*

For information regarding SIRIUS Satellite Radio, please call toll-free 888-539-SIRIUS (888-539-7474) or visit the SIRIUS website at www.siriusradio.com

14. **SEEK:** Works in radio, tape and CD modes. Press to access the previous (◀) or next (▶) listenable radio station, tape selection or CD track.



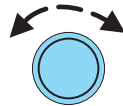
15. **BAND:** Press to toggle between AM/FM1/FM2 frequency bands. Press while in tape or CD mode to return to radio mode.



CD: Press CD to enter CD mode and to play a CD already in the system.



16. **Power/volume:** Press to turn the system on/off. Turn to raise/lower the volume.



If the volume is set above a certain level and the ignition is turned off, the volume will come back on at a “nominal” listening level when the ignition switch is turned back on. Audio power can also be turned on by pressing BAND or the TAPE or CD controls.

Entertainment Systems

17. **TAPE:** Press to begin tape play.
Press to switch tape side (1 to 2) or
(2 to 1).

TAPE

18. **CD slot:** Insert the disc with the playing side down and printed side up.

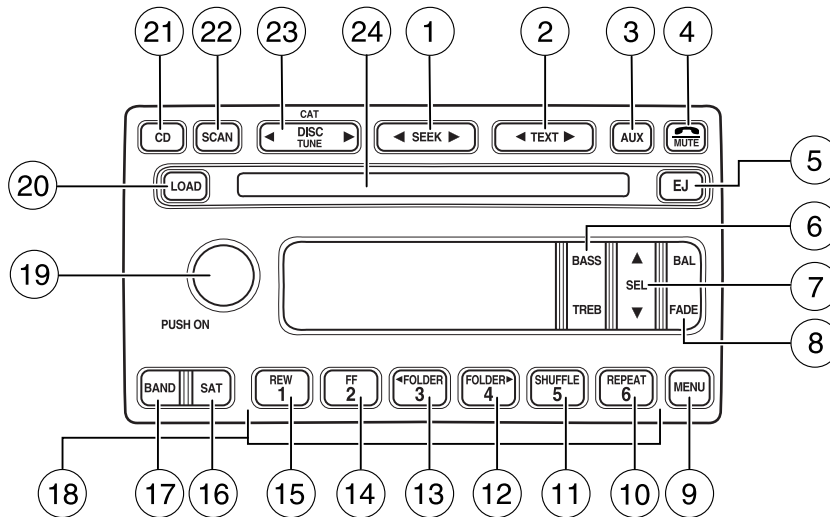
CD units are designed to play commercially pressed 4.75 in (12 cm) audio compact discs only. Due to technical incompatibility, certain recordable and re-recordable compact discs may not function correctly when used in Ford CD players. Irregular shaped CDs, CDs with a scratch protection film attached,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

19. **Tape door:** Insert the tape facing the right.

The Dolby® noise reduction system is manufactured under license from Dolby Laboratories Licensing Corporation. Dolby® and the double-D symbol are registered trademarks of Dolby® Laboratories Licensing Corporation.

Entertainment Systems

Audiophile/Premium Satellite Compatible AM/FM Stereo In-Dash Six CD/MP3 Radio (if equipped)



1. **SEEK:** Press and release SEEK ◀ / ▶ for previous/next strong station or track.



2. **TEXT:** The filename (Fi), song title (So), artist text (Ar) or album text (AL) may be viewed while playing an MP3 selection. When MP3 selection text is shown on the message display its corresponding text indicator (Fi, So, Ar, or AL) is shown in the elapsed time display. Press TEXT to scroll through the text fields. The display will scroll all of the text in the current field before changing to the next field. (TEXT must be pressed within 3 seconds of the previous button press to proceed to the next/last text display.) TEXT is available when equipped with Satellite radio or with ID3 tags on MP3 files. Your Audiophile radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your authorized dealer. Detailed Satellite instructions are included with the dealer installed kit. *Dealer installed satellite kit only available in the continental United States.*



Entertainment Systems

3. **AUX:** Press to toggle between the current playing media and DVD (if equipped).



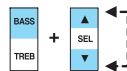
4. **MUTE:** Press to MUTE playing media; press again to return to playing media



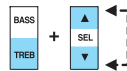
5. **EJ:** Press to eject a CD. Press EJ and a memory preset to eject a specific disc. Press and hold to eject all loaded discs.



6. **Bass:** Press BASS; then press SEL ▼ / ▲ to decrease/increase the bass output.



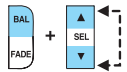
Treble: Press TREB; then press SEL ▼ / ▲ to decrease/increase the treble output.



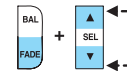
7. **Select:** Use with Bass, Treble, Balance and Fade controls to adjust levels, set the clock and other menu functions.



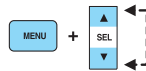
8. **Balance:** Press BAL; then press SEL ▼ / ▲ to shift sound to the left/right speakers.



Fade: Press FADE; then press SEL ▼ / ▲ to shift sound to the rear/front speakers.



9. **Menu:** Press and hold MENU to access RDS on/off, Traffic announcement mode, Program type mode and use SEL to toggle functions ON/OFF.



The Federal Communications Commission (FCC) and the Canadian Radio and Telecommunications Commission (CRTC) recommend that FM radio broadcasters use RDS technology to transmit information. FM radio stations are independently operated and individually elect to use RDS technology to transmit station ID and program type as desired.

Entertainment Systems

Traffic (if equipped): Allows you to hear traffic broadcasts. With the feature ON, press SEEK or SCAN to find a station broadcasting a traffic report (if it is broadcasting RDS data). *Traffic information is not available in most U.S. markets.*

FIND Program type (if equipped): Allows you to search RDS-equipped stations for a certain category of music format: Classic, Country, Info, Jazz, Oldies, R&B, Religious, Rock, Soft, Top 40.

Show TYPE (if equipped): Displays the station's call letters and format.

Compression: Brings soft and loud CD passages together for a more consistent listening level when in CD mode. Press MENU until compression status is displayed. Press the SEL control to enable the compression feature when COMPRESS OFF is displayed. Press the SEL control again to disable the feature when COMPRESS ON is displayed.

Occupancy mode (if equipped): Press SEL to select ALL, DRIVER or REAR SEAT occupancy mode.

Folder/Track Mode: In MP3 mode, press MENU until MODE appears in the display. Use SEL to toggle between FOLDER (only tracks within selected folder are accessible) or TRACK (all tracks on the disc are accessible).

Autoset: Allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2. Press MENU until AUTOSSET appears in the display. Press SEL to toggle ON/OFF. When the six strongest stations are filled, the station stored in preset 1 will begin playing. If there are less than six strong stations, the system will store the last one in the remaining presets. Press again to disengage.

Speed sensitive volume: Radio volume changes automatically and slightly with vehicle speed to compensate for road and wind noise. Recommended level is 1–3. Level 0 turns the feature off and level 7 is the maximum setting. Press MENU until SPEED VOL X appears in the display. Then press SEL to increase (▲) or decrease (▼) the volume setting. The level will appear in the display.

Setting the clock: Press MENU until SELECT HOUR or SELECT MINUTE is displayed. Use SEL to manually increase (▲) or decrease (▼) the hours/minutes. Press MENU again to disengage clock mode.

Entertainment Systems

10. **REPEAT**: Press to repeat the current CD/MP3 track.



11. **SHUFFLE**: Press play the CD/MP3 tracks on the current disc in random order.



12. **FOLDER** ► : Press to access the next MP3 directory.



13. **FOLDER** ◀ : Press to access the previous MP3 directory



14. **FF**(Fast forward): In CD mode, press until desired selection is reached.



15. **REW**(Rewind): In CD mode, press until desired selection is reached.



16. **SAT (if equipped)**: Your radio comes equipped with Satellite Ready capability. The kit to enable the Satellite reception is available through your authorized dealer. Detailed satellite instructions are included with the dealer installed kit. *Dealer installed satellite kit only available in the continental United States.*



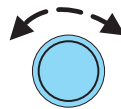
17. **BAND**: Press to toggle between AM/FM1/FM2 frequency band.



18. **Memory presets**: To set a station: Select frequency band AM/FM; tune to a station, press and hold a preset button until sound returns.



19. **Power/volume**: Press to turn ON/OFF; turn to increase or decrease volume levels.



Entertainment Systems

20. **Load:** Press to load a CD. Press and hold to load up to six discs.



21. **CD:** Press to enter CD mode.



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. Irregular shaped CDs, CDs with a scratch protection film attached, and CDs with homemade paper (adhesive) labels should not be inserted into the CD player. The label may peel and cause the CD to become jammed. It is recommended that homemade CDs be identified with permanent felt tip marker rather than adhesive labels. Ballpoint pens may damage CDs. Please contact your authorized dealer for further information.

22. **Scan:** Press SCAN to hear a brief sampling of radio stations or CD/MP3 tracks. Press again to stop.



23. **Disc/Tune:** Press ◀ or ▶ to



manually tune down/up the radio frequency band, or to listen to the previous/next CD.

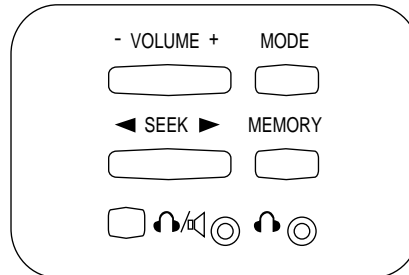
CAT: CAT is only available when equipped with Satellite Radio. Your Audiophile radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your authorized dealer. Detailed Satellite instructions are included with the dealer installed kit. *Dealer installed satellite kit only available in the continental United States.*

For information regarding SIRIUS Satellite Radio, please call toll-free 888-539-SIRIUS (888-539-7474) or visit the SIRIUS website at www.siriusradio.com

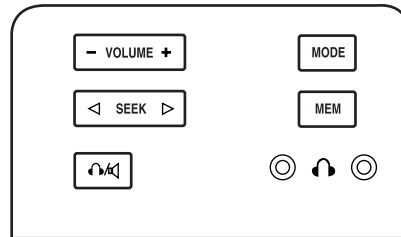
Entertainment Systems

Rear seat radio controls (if equipped)

If your vehicle is equipped with a front row console, then it is also equipped with rear seat radio controls.






If your vehicle is equipped with the Vehicle Navigation Radio, then it may also be equipped with rear seat radio controls.



This feature allows front and middle seat passengers to listen to different media sources (radio, cassette, CD or DVD) simultaneously. (However, the front and middle-seat passengers cannot listen to two different radio stations at the same time.)

When the rear seat controls are activated, rear seat passengers can use the controls to change the playing media for all passengers (Single Play mode). In this mode, all speakers will play audio from the same media source for all passengers to hear. To activate the rear seat radio controls:

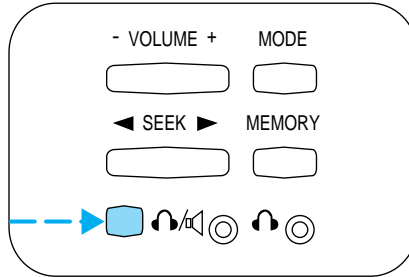
- Press the memory preset controls  3 and 5 at the same time. A headphone icon  will illuminate in the radio display, indicating the rear seat radio controls are active.
- Press memory preset controls 3 and 5 a second time to deactivate the rear seat controls. The headphone icon  will turn off in the radio display.

If there is a discrepancy between the rear seat controls and the front audio controls (such as both trying to listen to the same playing media), the front audio system will receive the desired selection.

Entertainment Systems

To activate Dual Play mode (rear seat passengers listen to a different playing media than the front seat passengers):

- Press the speaker/headphone control.
- Press the MODE control to change audio sources (for headphone mode only)
- Use the SEEK, VOLUME and MEMORY/MEM controls to make adjustments to the playing media.
- Dual Play mode may also be activated by pressing memory presets 2 and 4 simultaneously on the front audio controls.



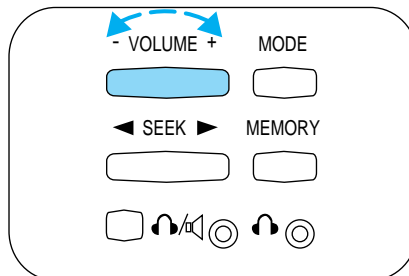
The rear speakers mute and rear seat passengers have audio (for their selected media) available through their headphones.

To adjust the volume

The volume control allows the rear seat passengers to adjust the volume level of the audio system.

Press the + control to increase volume.

Press the - control to decrease volume.

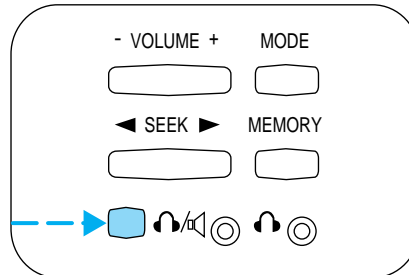


From the rear seat controls, volume control can be set no higher than the current radio setting unless the speakers are turned off.


Entertainment Systems

Turning the rear speakers on and off


Press the headphone/speaker control to turn the rear speakers on (Single Play mode) or off (Dual Play mode).



Using headphones/Dual Play mode

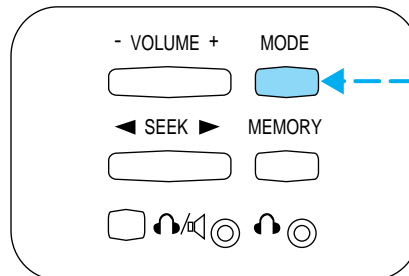
Plug a 3.5 mm headphone (not included) into the  jack. Press the speaker on/off control to operate the headphones. DUAL PLAY illuminates in the radio display and the fade control is disabled, signaling that Dual Play has been activated.

The rear speakers will cut out once the speaker on/off control is pressed. The front speaker will remain playing for the front passengers. Press the control again to deactivate the headphones. SINGLE PLAY illuminates in the radio display and the fade control is enabled, signaling that Dual Play mode has been deactivated.

To enable Dual Play, the rear seat controls must be active and  illuminated in the radio display.

Mode select

Push the MODE control to toggle between AM, FM1, FM2, tape (if equipped), CD, CD changer (if equipped) or DVD (if equipped). If in Dual Play mode, SHARED illuminates in the radio display when the front and rear modes are set to the same media.

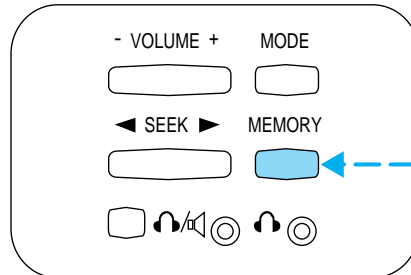


Entertainment Systems

Memory preset control

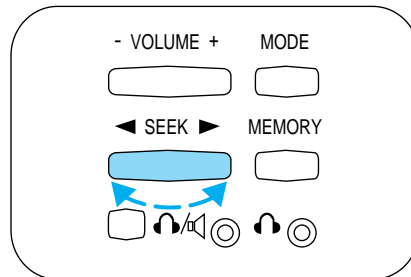
Push the MEMORY/MEM control successively to allow rear seat passengers to scroll through the 6 memory presets in AM, FM1 or FM2.

Push the MEMORY/MEM control in CD mode (if equipped) to advance to the next disc.



Seek function

- In radio mode, press ◀ to find the next listenable station down the frequency band.
- In radio mode, press ▶ to find the next listenable station up the frequency band.
- In tape mode (if equipped), use the SEEK function to access the next ▶ or previous ◀ selection.
- In CD mode (if equipped), use the SEEK function to access the next ▶ or previous ◀ selection.



Parental control

Press the memory preset controls 3 and 5 simultaneously on the front seat controls to disable the rear seat controls. They will remain disabled until the front seat passengers “enable” them again by simultaneously pressing the 3 and 5 preset controls. The settings of the front seat controls will always override those of the rear seat controls.



Entertainment Systems

GENERAL AUDIO INFORMATION

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

AM - 530, 540–1700, 1710 kHz

FM- 87.7, 87.9–107.7, 107.9 MHz

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

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

Cassette/player care:

Do:

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

Don't:

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

CD/CD player care:

Do:

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

Don't:

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

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

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

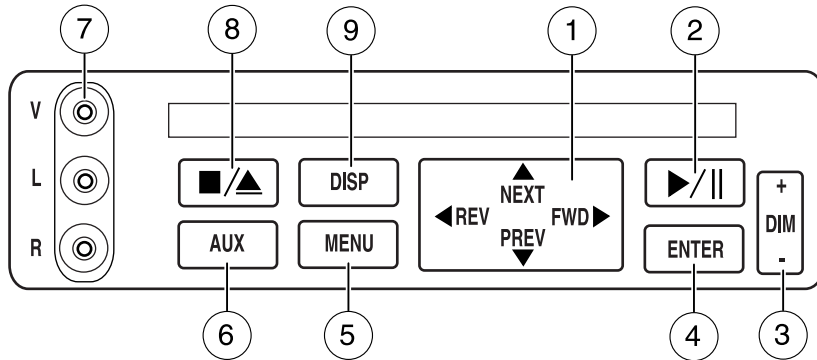
Whenever a warning is received, the radio volume will be lowered to a volume that will allow the tones to be heard. The radio volume will return to the previous level after the warning goes away.

REAR SEAT ENTERTAINMENT DVD SYSTEM (IF EQUIPPED)

Your vehicle may be equipped with a Family Entertainment DVD System which allows you to play commercial DVDs, CDs and also most CD R/W, DVD R/W, VCD, and MP3 media. You can also plug in and play auxiliary media devices such as video game systems and MP3 players. Please review this material to become familiar with the Family Entertainment System (FES) features and safety information.

Entertainment Systems

DVD player controls



1. **MAIN** control

- **NEXT** — Press to access the next track on the CD, the next chapter on the DVD, or to go up in cursor mode.
- **PREV** — Press to access the previous track on the CD, the previous chapter on the DVD, or to go down in cursor mode.
- **REV** — Press to reverse in CD and DVD play modes or to move the cursor left in the menu active mode.
- **FWD** — Press to advance in CD and DVD play modes or to move the cursor right in the menu active mode.

2. **PLAY/PAUSE** control

Press to playback or pause the DVD.

3. **DIM** control

Adjust to increase (+) or decrease (-) the amount of brightness on the screen.

4. **ENTER** control

Press to select the function pointed to within the active menu. May also be used by some user interactive discs during movie play.

5. **MENU** control

Press to bring up the disc menu.

6. **AUX** control

Press to switch DVD player from play mode to auxiliary mode.

Entertainment Systems

7. Auxiliary jacks

Input jacks for standard video/audio media device.

8. STOP/EJECT control

Press once to stop DVD play. Press again to eject the DVD.

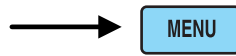
9. DISPLAY (DISP) control

Press to enable on screen display of player menu and user display adjustments.

DVD control features

Menu control

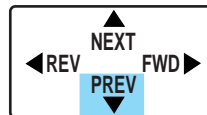
Press the MENU control to enter into MENU mode. This allows you to move and choose within the DVD generated menu structure. Once in MENU mode:



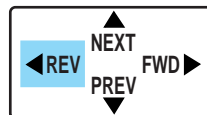
- Press the NEXT control to move the cursor one position upward



- Press the PREV control to move the cursor one position downward



- Press the REV control to move the cursor left one position



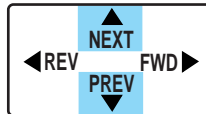
Entertainment Systems

- Press the FWD control to move the cursor right one position



Next/Previous control

The NEXT (up) and PREV (down) controls allow you to access the next or previous track on a CD or chapter on a DVD. When pressed, the playing audio will mute momentarily while the next chapter is accessed. Press and hold to advance or reverse multiple tracks or chapters.



REV/FWD control

Press the REV/FWD control during playback mode to reverse or advance at a normal speed. Press the REV/FWD control again to disengage the reverse/advance action and return to normal playback mode



Enter control

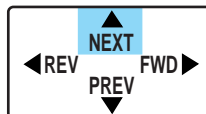
The ENTER control allows you to select items when in MENU mode.

Press the ENTER control to select the desired highlighted item.



CD play mode

Press NEXT during CD play to advance to the next track. If you press NEXT during the last track, the system will wrap around to the first track and begin play.



Slow play mode

To enter slow play mode, press the PLAY/PAUSE control. Once the system is in pause mode, press the



Entertainment Systems

FWD or REV control for slow motion playback. Three different speeds are available depending on how long the control is held. Press the control once for slow motion playback. Press the control again to disengage slow motion playback. Press the PLAY/PAUSE control to return to normal playback mode.

User menu mode

To adjust the display setting, press DISP once and the current display setting will appear on the screen



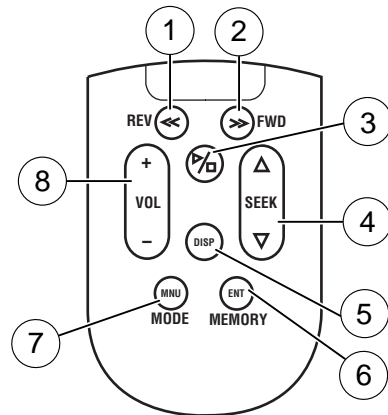
DISP

along with the current media status. Pressing DISP again will toggle the display setting through the next available display settings. (Available screen selections are 4x3, ZOOM, and 16x9.) The setting will disappear after approximately three seconds, but the title bar and audio setting will remain on the screen until DISP is pressed again.

The DVD player will read the disc type and configure the display accordingly. Some movies have a wide screen movie format to fit a normal 4x3 screen. In this case, the movie will have black bars on the top and bottom or left and right of the image on the screen. When shown on the screen, it may appear as a small screen within the wide screen. It may be desirable to view this type of movie in ZOOM mode. To enter ZOOM mode, press DISP once for the current display setting and press DISP again within three seconds to change the display setting to the desired display setting.

Entertainment Systems

Remote control



1. **REWIND** control

Press to reverse the direction of the DVD movie.

2. **FAST FORWARD** control

Press to advance the direction of the DVD movie.

3. **PLAY/STOP** control

Press to play or stop the DVD movie.

4. **SEEK** control

Press to reverse or advance the chapter of the DVD or the track of the CD.

5. **DISPLAY (DISP)** control

Press to enable on screen display of player menu and user display adjustments. Once the display is on, use SEEK to choose the desired screen setting.

6. **ENTER (ENT) MEMORY** control

In DVD playback mode, press the control to select a designated item in menu mode.

In stop mode, press the control to select the next radio memory preset.

Entertainment Systems

7. **MNU/MODE** control

In DVD playback mode, press to access the disc menu.

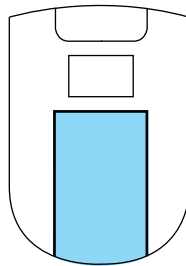
In stop mode, press to change to a different playing media (e.g. AM, FM, CD . . .)

8. **VOLUME** control

Press to increase (+) or decrease (-) volume level.

Battery replacement

Batteries are supplied with the remote control unit. Since all batteries have a limited shelf life, replace them when the unit fails to control the DVD player. There is a LED indicator light on the remote control that will illuminate when any control is pressed.



Slide the battery cover off as shown on the remote control to access the batteries.

The remote control unit uses two AAA batteries.

Parental control

To enable or disable your Rear Seat Entertainment DVD System, simultaneously press the memory preset controls 3 and 5 on the radio face.



For further information about the Rear Seat Controls, refer to *Rear Seat Controls* section in this chapter.

Entertainment Systems

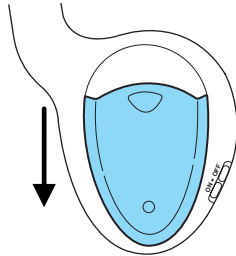
Wireless headphones

Your system is equipped with 2 sets of wireless headphones. (Two AAA batteries are needed to operate the headphones.) Batteries are included.



To install the batteries, lightly press down on the top of the left earpiece and slide the cover off.

When replacing the batteries, use two new batteries (alkaline recommended) and install them with the correct (+) and (-) orientation.

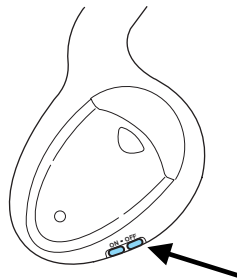


Note: Additional 1.9-2.3mhz infrared wireless headphones may be purchased by contacting your local dealer or retailer.

Wireless headphone operation

To operate the headphones:

- Press the ON/OFF button on the left-hand earpiece. The LED light on the right-hand earpiece will illuminate. Press again to turn off.
- Adjust the headphones to comfortably fit your head.
- Adjust the volume control to a comfortable listening level.

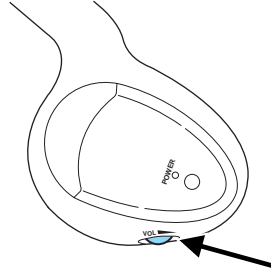


Note: The volume level of the wireless headphones can only be controlled by the thumbwheel. Neither the remote control nor the rear seat controls will affect the volume output of the wireless headphones.

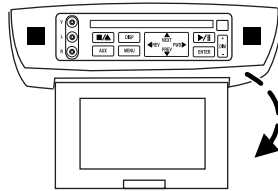
Entertainment Systems

When not using the headphones, shut them off to preserve battery power. The headphones will automatically turn off after five minutes if they have not received an infrared audio signal from the overhead pod.

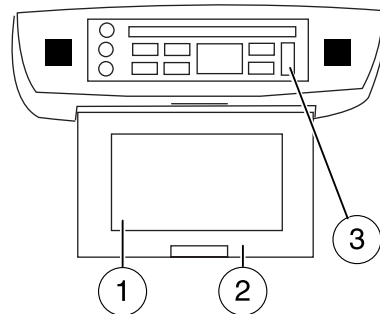
Ensure that the line of sight between the headphone and infrared transmitter (mounted on the DVD housing) is not obstructed.



Liquid Crystal Display (LCD) flip-down screen



The screen rotates down to view and into the housing to store when not in use. Be sure the screen is latched into the housing when being stored.



1. 7.0" (diagonal) active matrix liquid crystal display (LCD) screen.
2. Screen housing.
3. Dimmer switch. Press +/- to increase/decrease the brightness of the screen.

Entertainment Systems

Playback and format

- The DVD player of your Rear Seat Entertainment DVD System can only be used in the “playback” mode. (The DVD player does not offer a record feature.)
- The system plays commercial CDs, DVDs and also plays most CD R/W, DVD R/W, VCD and MP3 media.

Saving MP3 files

- Your Family Entertainment System supports discs containing up to 255 files. Discs containing more than 255 files will not play.
- Always save MP3 files with the .mp3 extension. The player recognizes an MP3 file by the .mp3 extension, so MP3 files saved with different extensions will not be played. Never save a non-MP3 file with the .mp3 extension as the file will not play properly.
- The player supports multi session discs. However, be sure to import the previous session of the disc before you add new files. If you do not import the previous session, only the last session will be played.
- When burning a disc, **ensure that you close/finalize the disc before playback**, or the disc may not play properly or an error message may appear.
- Some CD-RW discs may operate inconsistently and may cause an error message to appear. We recommend burning MP3 files onto CD-R discs.

Rear Seat Entertainment DVD System protection circuits

High temperature sensor circuit

- Excessively high temperatures may cause damage to the DVD player.
- When the temperature of the DVD player becomes too hot, the high temperature sensor circuit stops machine operation. DVD/CD HOT will illuminate in the radio display.
- The DVD player will remain inactive until it cools to a normal operating temperature. Length of time to cool will vary depending on conditions.

General operating tips

- When the engine is not running, use the system sparingly. Otherwise, it will run the battery down.
- When the ignition is turned to OFF, the Rear Seat Entertainment DVD System is also turned OFF. When the ignition is turned ON, the system will begin playback from the last selected media source when the play control is pressed.

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- To disable the DVD player, simultaneously press the 3 and 5 memory presets on the radio face. To enable the DVD player again, press the 3 and 5 presets simultaneously.
- The DVD player is only capable of reading the bottom side of a disc. When inserting a single sided disc, the label should be up. For a multi-sided disc, the desired play side should be down when the disc is inserted into the player.
- The DVD player is capable of playback of DVDs, DVDR/RW, CDs, CDR/RW and MP3s.
- DVDs are formatted by regions. This DVD system can only play region 1 DVDs (DVDs manufactured for U.S. and Canada).

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

Inserting a CD/DVD

Partially insert the CD/DVD into the slot and the system will fully pull in the disc. Inserting the disc too far could cause the disc to jam in the system.

Inserting a CD/DVD into the DVD player automatically turns the power ON and playback should begin.

The counter is automatically reset to 0:00:00.

Removing a CD/DVD

1. Press the STOP/EJECT control to stop playback.
2. Press the STOP/EJECT control again to eject the CD/DVD.

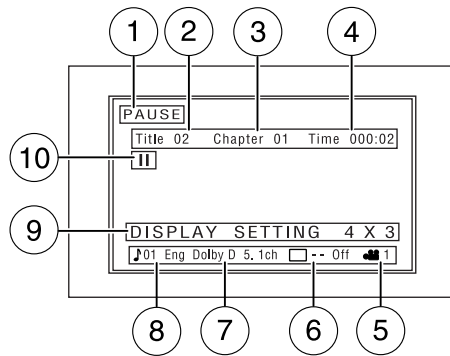
If the CD/DVD is not removed within the allotted time, the system will pull the CD/DVD back into the system for safety purposes. If the CD/DVD will not eject from the system, press and hold the EJECT control for approximately 2 seconds. The disc should eject whether the vehicle ignition is ON or OFF.

Entertainment Systems

Playing an auxiliary device

1. Connect the video line from your video device to the YELLOW auxiliary input jack.
2. Connect the left and right audio lines to the WHITE and RED auxiliary input jacks respectively.
3. Press the MODE control until DVD/CD AUX (no disc in player) or DVD/CD play (disc in player) illuminates in the radio display. If a disc is in the system, playback should begin. To enable the aux inputs, press the STOP control or press the AUX control on the DVD player.

On-screen indicators



Each time a control is pressed, the operational status of the DVD player is shown on the screen. The following are some possible indicators:

1. DVD/ CD STATUS (PLAY/FWD/REV/PAUSE)
2. CD track number / DVD title
3. DVD chapter number
4. MEDIA COUNTER — displays current viewing time of desired media. (HOURS:MINUTES:SECONDS)
5. Viewing angle (of picture) - Adjustable with cursor controls and ENTER control.
6. Subtitles (specific language type - English, Spanish or French, dependent on disc capability and ON/OFF selection.)
7. AUDIO OUTPUT (not changeable)
8. AUDIO VERSION — (01 ENG., etc.)

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9. DISPLAY SETTING (4x3, Zoom, 16x9)

10. STATUS ICON (FWD, x4, x8, x32, REV, x4, x8, x32, etc.)

Safety information

Read all of the safety and operating instructions before operating the system and retain for future reference.

Do not attempt to service, repair or modify the Rear Seat Entertainment DVD System. See your Ford or Lincoln Mercury dealer.

Do not insert foreign objects into the DVD compartment.



The front glass on the liquid crystal display (LCD) flip-down screen may break when hit with a hard surface. If the glass breaks, do not touch the liquid crystalline material. In case of contact with skin, wash immediately with soap and water.

Do not expose the liquid crystal display (LCD) flip-down screen to direct sunlight or intensive ultraviolet rays for extensive periods of time. Ultraviolet rays deteriorate the liquid crystal.

Be sure to review user manuals for video games and video game equipment when used as auxiliary inputs for your Rear Seat Entertainment DVD System.

Do not operate video games or video equipment if the power cords and/or cables are broken, split or damaged. Carefully place cords and/or cables where they will not be stepped on or interfere with the operation of seats and/or compartments.

Disconnect video games and video equipment power cords and/or cables when not in use.

Avoid touching auxiliary input jacks with your fingers. Do not blow on them or allow them to get wet or dirty.

Do not clean any part of the DVD player with benzene, paint thinner or any other solvent.

Whenever a warning is received, the radio volume will be lowered to a volume that will allow the tones to be heard. The radio volume will return to the previous level after the warning goes away.

Entertainment Systems

Federal Communication Commission (FCC) Compliance

Changes or modifications not approved by Ford Motor Company could void user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

Care and service of the DVD player

Environmental extremes

DVD players that are subjected to harsh environmental conditions may be damaged or perform at less than maximum capability. To avoid these outcomes, whenever possible avoid exposing your DVD player to:

- extremely hot or cold temperatures.
- direct sunlight.
- high humidity.
- a dusty environment.
- locations where strong magnetic fields are generated.

Temperature extremes

When the vehicle is parked under direct sunlight or in an extremely cold place for a long period of time, wait until the cabin temperature of the vehicle is at normal temperature before operating the system.

Humidity and moisture condensation

Moisture in the air will condense in the DVD player under extremely humid conditions or when moving from a cold place to a warm one. If moisture condensation occurs, do not insert a CD or DVD into the player. If one is already in the player, remove it. Turn the DVD player ON to dry the moisture before inserting a DVD. This could take an hour or more.

Entertainment Systems

Cleaning the liquid crystal display (LCD) flip-down screen

Clean the display screen by applying a small amount of water or any ammonia-based household glass cleaner directly to a soft cloth. Rub the screen gently until the dust, dirt or fingerprints are removed. Do not spray the screen directly with water or glass cleaning solvents. Overspray from these fluids could drip down into the internal electronics of the screen and cause damage. Do not apply excessive pressure while cleaning the screen.

Foreign substances

Exercise care to prevent dirt and foreign objects from entering the DVD player compartment. If liquid is accidentally spilled onto the system, immediately turn the system OFF and consult a qualified service technician.

Cleaning CDs and DVDs

Inspect all discs for contamination before playing. If necessary, clean discs only with an approved CD cleaner and wipe from the center out to the edge. Do not use circular motion.

Cleaning the DVD player exterior

Clean the exterior of the DVD player with a damp cloth. Do not use CD cleaning kits or CDs intended to clean the interior of your DVD player. Use of these products may damage your system.

VEHICLE NAVIGATION RADIO (VNR IF EQUIPPED)

Your vehicle may be equipped with a Vehicle Navigation Radio (VNR) which allows you to listen to the radio, play CDs and also navigate the vehicle using navigation CDs.

Your Vehicle Navigation Radio is equipped with many different features and controls. The labeled controls on the front face of the system (which are called out below) are known as hard keys. The five blank controls located under the MENU control are called soft keys. These controls are labeled on the screen and can change functionality depending on which screen is activated in the display. The hard keys will be explained further below and the soft keys will be described as needed.

Safety information



Please read and follow all stated safety precautions. Failure to do so may increase your risk of collision and personal injury.

Entertainment Systems

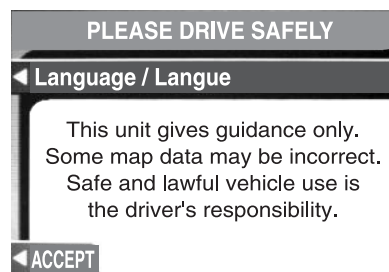
Ford Motor Company shall not be liable for any damages of any type arising from failure to follow these guidelines.

Do not attempt to service, repair or modify the system. See your Ford or Lincoln Mercury dealer.



The driver must not attempt to operate any detailed operation of the navigation system while the vehicle is in motion. Give full attention to driving and to the road. Pull off the road and park in a safe place before performing detailed operations.

A safety screen will be displayed each time the navigation system is turned on as a reminder. Ensure that you are familiar with the system's features and functionality, including the following:



- Do not turn the ignition key or start the engine while the software is updating.
- Do not apply pressure to the display screen.
- The navigation system is not a substitute for your personal judgement.
- Route suggestions should not supersede local traffic regulations or safe driving practices.
- Do not follow route suggestions if they direct you to perform an unsafe or illegal maneuver, would place you in an unsafe situation, or would route you into an area that you consider unsafe.
- Drivers should not rely on screen displays while their vehicle is in motion. Let the voice guide you. If viewing is necessary, pull off the road to a safe location.
- Do not use the navigation system to locate emergency services.
- For road safety reasons, the driver should program the system only when the vehicle is stationary. Certain functions will therefore not operate while the vehicle is in motion.
- The navigation CD does not reflect road detours, closures or construction, road characteristics such as rough road surface, slope or grade, weight or height restrictions, traffic congestion, weather or similar conditions.

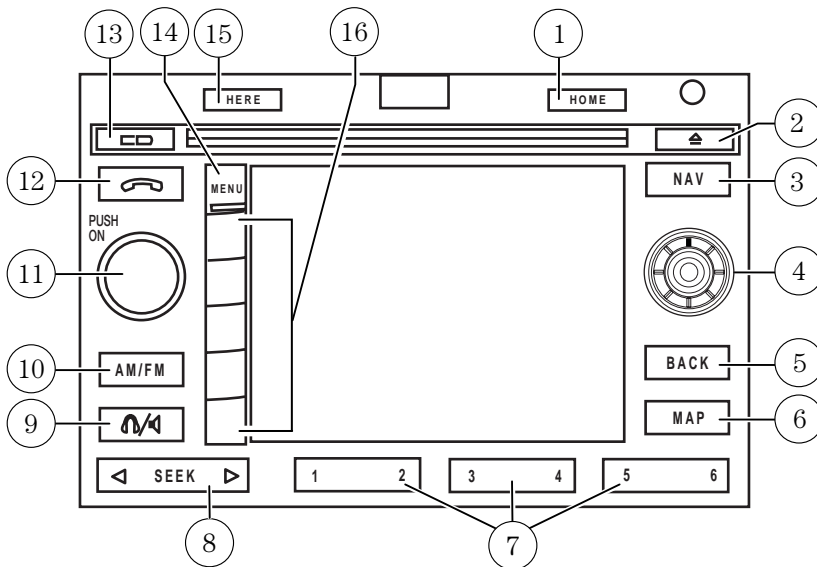
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- To use the system as effectively and safely as possible, obtain up-to-date navigation CD's whenever they become available.
- Set the volume level so that you can hear directions clearly.
- Do not disassemble or modify the system as this may lead to damage and void your warranty. If a problem occurs, stop using the system immediately and contact your Ford or Lincoln Mercury dealer.

System overview



1. **HOME:** When the home location is empty, pressing and holding this key will store the vehicle's current location as home. Pressing the home key after the home location has been set will calculate a route to that set home location.

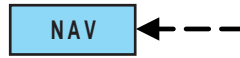


2. **Eject:** Press this control to eject an audio CD or a navigation CD.

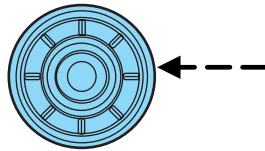


Entertainment Systems

3. **Navigation (NAV):** Press the NAV control to access the navigation system menu.



4. **Cursor control:** Use this control when viewing a menu in the navigation system. Press the control up or down, left or right to highlight an item in the display. Press the center of the control to make your selection.



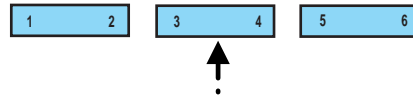
5. **BACK:** Use this control in the navigation system. Press to return to the previous screen or you can press MENU to return to the main navigation menu.



6. **MAP:** The MAP control works in all modes. Press to show current location.

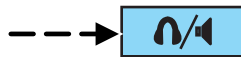


7. **Memory presets:** The memory presets store favorite AM/FM stations and allow you to access various discs when in CD DJ mode. Press and hold a preset control until PRESET SAVED appears in the display.



8. **SEEK:** Use this control to find the next listenable radio station or advancing tracks in CD mode.

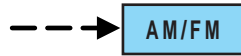
9. **Headphone/speaker:** Press the control to enable Rear Seat Control (RSC) mode. The headphone/speaker or headphone icon will appear in the display. Press the control again to disable RSC control mode (the icon will appear with a red slash through it).



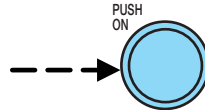
When in RSC mode, Dual Play mode can be enabled and disabled by the RSC, or by pressing Preset 2 and 4 simultaneously on the Navigation radio system. The system is in Dual Play mode if both the Headphone and Speaker icons are present, and in just RSC mode if only the Headphone icon is present.

Entertainment Systems

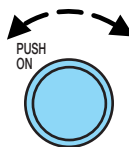
10. **AM/FM:** Press to listen to the AM or FM frequency band (AM, FM1, FM2). Pressing AM/FM in Navigation mode will return you to the audio screen.



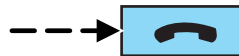
11. **On/volume:** Press the ON control to turn on the VNR system. Press again to turn the system off.



Turn the control to adjust the audio volume levels. To adjust the voice output levels from the navigation system, adjust the volume levels only during voice output.



12. **Phone (if equipped):** If the phone button is pressed, the display will read NO PHONE. This button is non-functional (the radio will not mute). Cellular connectivity is not currently available for this radio.



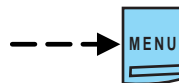
13. **CD:** Press to enter CD mode or to begin play of a CD that is already loaded in the system. Press the CD control again to toggle CD, CD DJ and DVD (if equipped).



NOTE: Navigation CD's are not operational in the CD DJ.

NOTE: To use the navigation system and listen to an audio CD, the navigation CD must be loaded into the VNR and the audio CD must be loaded into the CD DJ.

14. **MENU:** The MENU control works in both the audio and navigation mode. Press to access various menus in both modes.



15. **HERE:** The HERE control works in the navigation mode. Press the control to identify the current location of the vehicle.

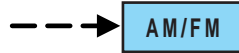


Entertainment Systems

Quick start – how to get going

To play a radio station:

1. Ensure that the ignition and the Vehicle Navigation Radio (VNR) system are ON.
2. Press the AM/FM control to select the desired frequency band.



3. Press the SEEK control to locate a station.



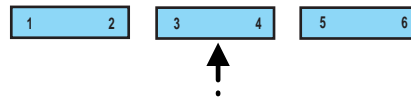
To play a CD in the VNR:

1. Ensure that the ignition and the VNR system are ON.
2. Insert a CD into the single slot of the VNR and the CD will automatically begin play. If a CD is already loaded into the system, press the CD control.



To play a CD in the CD DJ:

1. Ensure that the ignition and the VNR system are ON.
2. Insert CD(s) into the CD DJ magazine. Insert magazine into CD DJ. If the CD DJ magazine is already loaded, press the CD control to toggle through CD, CD DJ and DVD (if equipped).
3. Press the memory presets to choose the desired disc in the CD DJ.



Note: Navigation CD's are not operational in the CD DJ.

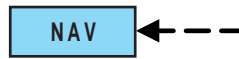
To use the Navigation system:

1. Ensure that the ignition and the VNR system are ON, and a map data disc is inserted into the VNR CD slot.

Entertainment Systems

Note: To use the navigation system and listen to an audio CD, the navigation CD must be loaded into the VNR and the audio CD must be loaded into the CD DJ.

2. Press the NAV control to enter into Navigation mode.
3. To enter a destination, ensure that the vehicle is in the PARK position.
4. To navigate to home from the current location, press HOME. If a home location has not previously been stored, pressing and holding HOME will store the home location.



Audio features

Your Vehicle Navigation Radio has many features including a full range of audio functions.

Audio screen display

When in audio mode, there are various indicators which will appear on the display.

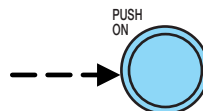
1. Station name
2. Station frequency
3. Stereo indicator
4. Preset selected
5. Band selected



If the navigation system is activated during radio or CD playback (CD DJ), audio output continues but route guidance screens will appear in the display.

Volume/power control

Press the control to turn the audio/navigation system on or off.



Turn the control to raise or lower volume. The levels will be displayed on the screen.

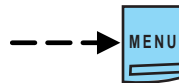
Entertainment Systems

To adjust the navigation voice output level, adjust the volume control only when the navigation system is speaking. Otherwise, it will adjust the radio levels.

Automatic volume control (AVC)

With this feature, radio volume changes automatically with vehicle speed to compensate for road and wind noise. To engage the AVC feature:

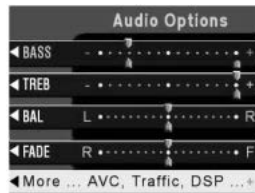
1. Press the MENU control.



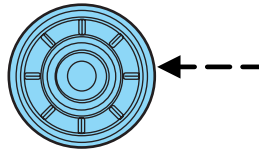
2. Select AUDIO OPTIONS.



3. Select AVC, TRAFFIC, DSP.
4. Select AVC.



5. Use the cursor control to increase or decrease the levels. The higher the level selected, the greater the compensation. The levels will be shown in the display. Decrease all the way to the left to turn AVC off.



AM/FM select

The AM/FM control works in radio, CD and navigation modes.



Entertainment Systems

AM/FM select in radio mode

This control allows you to select AM or FM frequency bands. Press the control to switch between AM, FM1 or FM2 memory preset stations.

AM/FM select in CD mode

Press to stop CD play and begin radio play.

Radio reception factors:

- **Distance/strength.** The further an FM signal travels, the weaker it is. The listenable range of the average FM station is approximately 40 km (24 miles). This range can be affected by “signal modulation.” Signal modulation is a process radio stations use to increase their strength/volume relative to other stations.
- **Terrain.** Hills, mountains and tall buildings between your vehicle’s antenna and the radio station signal can cause FM reception problems. Static can be caused on AM stations by power lines, electric fences, traffic lights and thunderstorms. Moving away from an interfering structure (out of its “shadow”) returns your reception to normal.
- **Station overload.** Weak signals are sometimes captured by stronger signals when you pass a broadcast tower. A stronger signal may temporarily overtake a weaker signal and play while the weak station frequency is displayed.

AM/FM select in navigation mode

Press once when in navigation mode to return to the audio screen (while the navigation function continues to work in the background). Press again to enter AM/FM mode where you are able to make frequency band adjustments.

CD select

To begin CD play (if a CD is already loaded), press the CD control. The first track of the disc will begin playing. After that, CD play will begin where it stopped last. Press the CD control again to toggle between CD, CD DJ, DVD/Video (or DVD/Aux Mode), if equipped with DVD Rear seat entertainment system.

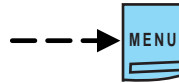


If a navigation CD is in the head unit and you press CD, the system will automatically search for an audio CD in the CD DJ and begin play if it is present.

Entertainment Systems

Adjusting the levels

1. Press the MENU control.



2. Select the AUDIO OPTIONS soft key.



3. Select BASS, TREB, BAL or FADE.

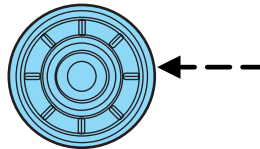
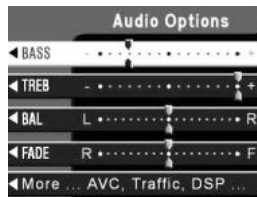
The bass adjust allows you to increase or decrease the audio system's bass output.

The treble adjust control allows you to raise or lower the audio system's treble output.

Speaker sound can be adjusted between the front and rear speakers using the fade feature.

The balance feature allows sound distribution to be adjusted between the right and left speakers.

4. Use the cursor control to increase or lower the bass and treble levels or to adjust the sound between the front and rear or between the left and right speakers.



DSP (Digital Signal Processing)

The Digital Signal Processing (DSP) feature allows you to change the signal mode to suit your listening tastes.

Press the soft key to turn the feature on or off.

This feature can be accessed by selecting the menu option "More . . . AVC, Traffic, DSP.." within the "Audio Options" menu.

Entertainment Systems

You can then select from the following signal modes:

- NEWS — "voice-only" type of sound with a limited audio band
- JAZZ CLUB — jazz club with clearly reflected sounds
- HALL — rectangular concert hall capacity of about 2,000
- CHURCH — church with a high vault
- STADIUM — outdoor stadium with a capacity of about 30,000

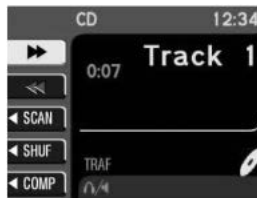


This system has three "occupancy modes" of listening:

- Driver — Optimizes audio playback for the drivers seat position.
- All — Optimizes audio playback to be similar for ALL seating positions.
- Rear — Optimizes the audio playback for rear seat passengers.

Rewind/fast forward

Press the ►► and ◀◀ controls to fast forward or rewind a CD track.



Seek function

The SEEK control works in all modes.



Seek in radio mode

- Press ◀ to find the next listenable station down the frequency band.
- Press ► to find the next listenable station up the frequency band.

Entertainment Systems

Seek in CD or CD DJ mode

- Press ◀ to seek to the previous track of the current disc. If a selection has been playing for three seconds or more and you press ◀, the CD changer will replay that selection from the beginning.
- Press ▶ to seek forward to the next track of the current disc. After the last track has been completed, the first track of the current disc will automatically replay.

Seek in navigation mode

- Press ◀ or ▶ to access the next audio station if in radio mode, and next track if in CD mode.

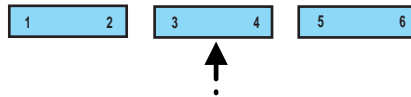
Radio station memory preset

The radio is equipped with six station memory preset controls. These controls can be used to select up to six preset AM stations and twelve FM stations (six in FM1 and six in FM2).

The presets will also allow you to access CDs which are loaded in the CD DJ. When in CD mode, simply press the preset number which corresponds to the desired disc.

Setting memory preset stations

1. Select the frequency band with the AM/FM select control.
2. Select a station. Refer to *Tune adjust* or *Seek function* for more information on selecting a station.
3. Press and hold a memory preset control until PRESET SAVED appears on the display.



Autoset memory preset

Autoset allows you to set strong radio stations without losing your original manually set preset stations. This feature is helpful on trips when you travel between cities with different radio stations.

Entertainment Systems

Starting autoset memory preset

1. Select a frequency band using the AM/FM select controls.
2. Press the AUTO control.
3. When the first six strong stations are filled, the station stored in memory preset control 1 will start playing.

If there are less than six strong stations available on the frequency band, the remaining memory preset controls will all store the last strong station available.



Any preset stored via the presets directly (pressing and holding) in this mode are temporary.

A message will indicate whenever a temporary preset is stored or recalled. This mode is active while the AUTO soft key is highlighted.

To deactivate autoset and return to your audio system's manually set memory stations, press the AUTO control again.

Tune adjust

The tune feature works in radio mode.

- Select the TUNE soft key.
- Press SEEK to go up ► or down ◀ the frequency band manually.



Stereo indicator

Whenever a stereo signal is received in radio mode, the stereo indicator (ST) will appear in the display.

Entertainment Systems

Scan function

Press the soft key next to SCAN for a brief sampling of all listenable stations on the selected frequency. Press again to disable scan and remain on the current station.



Program type (PTY) selections

Some FM stations transmit program type codes which can be used to locate different stations transmitting programs of a certain type.

Press the soft key next to TYPE to access a list of available program types.



Use the cursor control to select the desired program type. The system will search for and begin playing that program type if available. During a seek or scan and for 10 seconds after a station is found, pressing the seek up/down or scan will initiate another search. If the desired type cannot be found, 'Not Found' appears in the display and the audio system returns to the original station.

Traffic information

The Traffic information soft key can be accessed under menu option "MORE, AVC, TRAFFIC, DSP..." within the "AUDIO OPTIONS" menu. Select the TRAF soft key to select traffic information broadcast from certain stations which will automatically interrupt radio or CD playback at a preset volume level. The default Traffic volume can be adjusted with the slider bar using the cursor input. Moving the position to the left most position will turn this feature off.

The display TRAF will appear in Orange if the feature is enabled, but there is no broadcast traffic program available.

Traffic information is not available in most U.S. markets.

Entertainment Systems

Compression

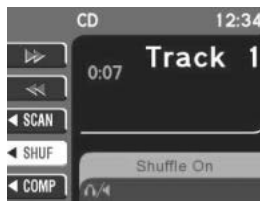
The compression feature will boost quieter music and lower louder music to minimize the need for volume adjustments.

When in CD or CD DJ mode, press COMP to engage or disengage the compression feature.



Shuffle

When in CD or CD DJ mode, press SHUF to engage and disengage the shuffle feature. All tracks on the current disc will be played in random order.



DVD functionality (if equipped)

Your vehicle may be equipped with a DVD Rear Seat Entertainment system. Your Vehicle Navigation Radio (VNR) System allows you to have control over the DVD player as well.

The VNR system will display DVD status messages in the radio display.

The soft keys are PLAY/PAUSE, EJECT and STOP/AUX.



Press the CD control until DVD appears in the display.



- ▲ (EJECT) — Press to stop DVD and eject the DVD disc.
- ▶ (PLAY) / II (PAUSE) — Press to play/pause the DVD. If in play mode, the DVD will pause when pressed. If in pause mode, the DVD will play when pressed.
- (STOP) / AUX — If a DVD movie is playing, press to stop. If a movie is not playing, press to activate AUX mode.

Entertainment Systems

CD DJ

Your vehicle is equipped with a CD DJ (CD changer). It is located in the center console.

Radio power must be turned on to play the CDs in the CD DJ. The magazine may be stored in the glove box when not being used.

The CD magazine may be inserted or ejected with the radio power off.

ONLY use the magazine supplied with the CD DJ, other types will damage the unit.

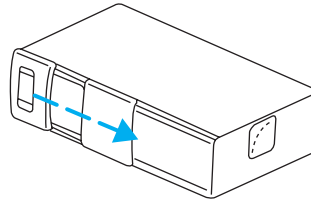
Keep the CD DJ door closed. Coins and foreign objects will damage the CD player and void your audio system warranty.

The CD magazine does not have to be full (all 6 disks) for the CD DJ to function.

CD units are designed to play commercially pressed 12 cm (4.75 in) 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. Irregular shaped CDs, CDs with a scratch protection film attached, and CDs with homemade paper (adhesive) labels should not be inserted into the CD player. The label may peel and cause the CD to become jammed. It is recommended that homemade CDs be identified with permanent felt tip marker rather than adhesive labels. Ballpoint pens may damage CDs. Please contact your dealer for further information.

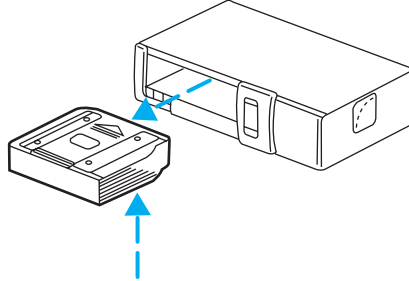
To access the CD DJ:

Slide the door to access the CD DJ magazine.

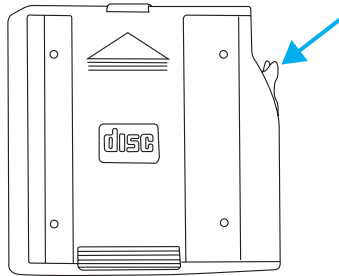


Entertainment Systems

Press ▲ to eject the magazine.

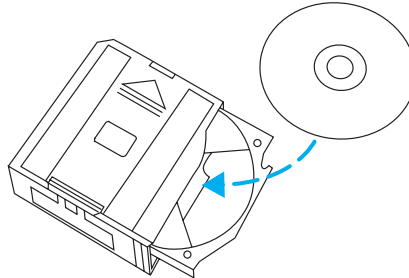


1. Pull the lever to remove a CD tray from the magazine.

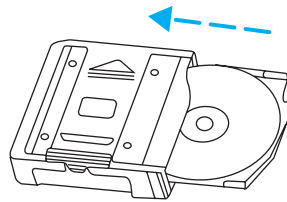


2. Insert one disc into each CD tray of the magazine (up to 6 discs). Ensure that the label side is facing up.

If you pull too hard on the disc holder, the disc holder may come completely out of the magazine. If this happens, reinsert the disc holder back into the magazine.

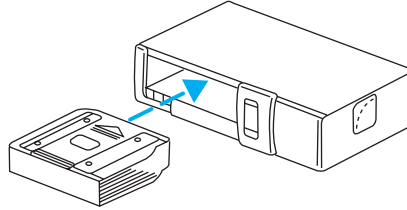


3. Insert each CD tray, with the disc loaded, all the way into the CD magazine.

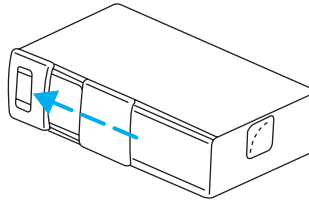


Entertainment Systems

4. Insert the CD magazine into the CD DJ.



5. Slide the door to the left to close.



Use only compact discs containing this mark.

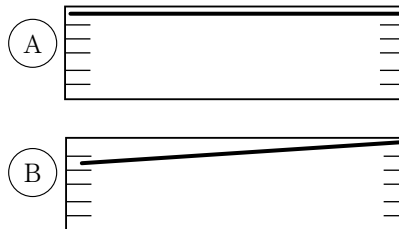


The magazine does not need to be full for the CD DJ to operate.

Radio power must be turned on to play the CDs in the CD DJ. The magazine may be stored in the glove compartment when not being used.

The CD magazine may be inserted or ejected with the radio power off.

Ensure that the disc holder is evenly inserted and at the same level as the magazine (A). The unit will not operate if the disc holder is not inserted at the same level (B).



Entertainment Systems

CD DJ information screen

The CD DJ screen will display various information such as:

- Track selected
- Elapsed time
- Selected disc
- Volume level
- On-screen selections



CD DJ playback

With a navigation CD inserted into the audio unit, press CD for CD DJ playback. Without a navigation CD inserted into the audio unit, press CD until CD DJ appears in the display.





If playback is selected and the CD DJ is empty or the magazine is missing or incorrectly inserted, NO DISC (S) will appear in the display.

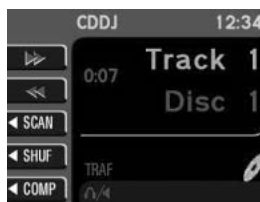
If the selected CD is missing, NO DISC is displayed and the unit selects the next available disc. The audio unit remembers which discs are available, so it will not select a disc that it knows is missing. Instead, NO DISC appears in the display and the current disc remains selected.

If the selected CD is damaged or upside down, CHECK DISCS and the disc number are displayed. The unit then selects the next available disc.


During normal operations, CDs and tracks are played sequentially in ascending order. Playback continues at track one if the end of a disc is reached and with CD DJ playback, disc one will follow disc six.

Rewind/fast forward feature

When in CD DJ mode, press and hold the  or  control to search forward or in reverse on the current disc.



Entertainment Systems

When RSC is active, pressing presets 2 and 4 simultaneously on the radio will enable Dual Play mode (or the RSC can enable Dual Play mode by pressing the  button). The front speakers play the selected media and the rear speakers mute. In this mode, the rear passengers may adjust the volume and other levels using the rear seat control.

Additionally in Dual Play mode, the front and rear seat passengers can listen to the same playing media. However, rear seat passengers listen to the media over their headphones (thereby being able to adjust the volume) and the front seat passengers listen via the front seat speakers.

Press the headphone/speaker control again to disengage the rear seat controls (and Dual Play mode). The system returns to Single Play mode. Front and rear speakers will play the selected media.

For further information on the rear seat controls, refer to *Rear Seat Controls* section found earlier in this chapter.

Navigation features

The route guidance navigation system in your audio unit will not function unless a navigation CD is inserted.

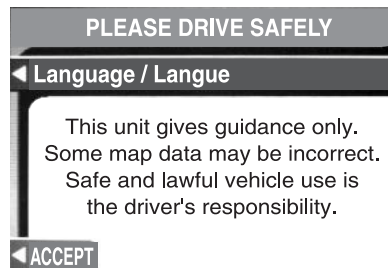
Ensure that you follow highway code restrictions and do not take any risks. For example, if you are unable to make a U-turn, continue on your journey. The navigation system will recalculate your route to get you back to an appropriate road to your destination.



For road safety reasons, information should only be entered when the vehicle is stationary.

Please drive safely

This screen may appear on your VNR display. Press the soft key next to the display to select the desired language. Press the control next to ACCEPT to confirm your selection.

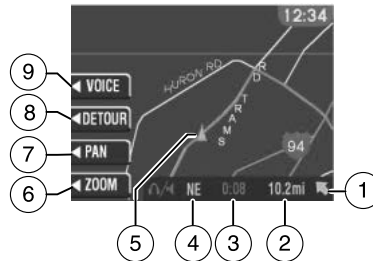


Entertainment Systems

Navigation screen display

When in navigation mode, there will be various indicators on the screen to help you in operating your system.

1. Direction to destination
2. Distance to final destination
3. Estimated time to destination
4. Current directional heading and GPS signal strength (color)
5. Vehicle icon (current vehicle position)
6. ZOOM
7. PAN
8. DETOUR
9. VOICE



Principles of GPS (Global Positioning System) operation

Your Vehicle Navigation System directs you based on information derived from satellites, road maps stored on the CD, sensors in your vehicle and the desired destination. The system compiles all necessary information to guide you to your selected destination. Space satellites determine the vehicle's current location and transmit position and time signals to your car.

If the vehicle has been parked for a long period of time, the navigation function may be temporarily unresponsive. The navigation system will operate reliably again once GPS reception is available in a few minutes.

Limited GPS reception

System performance may be adversely affected if GPS reception is interrupted or interference occurs over a distance of several miles. The following are possible causes for GPS reception being interrupted. If the vehicle is:

- in multi-story parking garages
- in tunnels and under bridges
- in between high buildings
- by forests or tree-lined avenues
- in heavy rain showers and thunderstorms
- in valleys and in mountainous regions

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The GPS signal strength may vary. The directional heading indicator at the bottom of the screen might change color to indicate this signal strength. The colors are as follows:

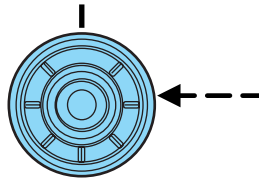
- Green — A clear GPS signal is being received.
- Yellow — The GPS signal is partially blocked.
- Red — The GPS signal is unavailable and may be temporarily blocked.

To enter navigation mode

Press NAV to access the navigation system menu.



Use the cursor control, or the corresponding soft key to confirm your selection.



If you select the wrong item, press the BACK control to return to the previous screen. Or, press NAV to return to the main Destination Entry menu and start again.

Map display information

When using the navigation system, the map display screen will appear to guide you to your location. On the screen, you are able to make the following choices:

- VOICE — Press to repeat the last voice prompt.
- DETOUR — Press to select a detour from your current navigation route.
- PAN — Press to move the current view of the map.
- ZOOM — Press to adjust the area covered on the map display. The map zoom levels are: $\frac{1}{8}$, $\frac{1}{2}$, 1, 4, and 16 miles.



Selecting a destination

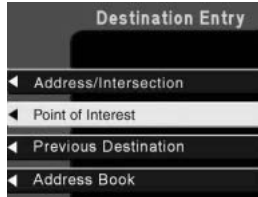
Press NAV to access the destination entry menu.



Entertainment Systems

From this menu, you may select from the following options:

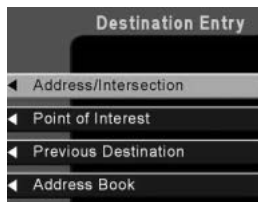
- **Address/Intersection** – Use to select a destination based on a known street address or intersection. **Not available when the vehicle is moving.**
- **Point of Interest** – Use to select a destination that is a point of interest location (i.e., airport, restaurant, hospital). **Not available when the vehicle is moving.**
- **Previous Destination** – Use to select a destination from the last 50 destinations entered.
- **Address Book** – Use to select a destination from previously stored entries.



Address/Intersection

Use the soft keys to select Address/Intersection from the Destination Entry menu. The next two options available are:

- **Town/City Name** – Select this option if you know the town or city name.
- **Street Name** – Select if you know the street address but are uncertain of the city.

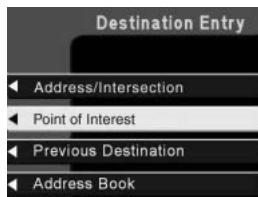


The next two options are:

- **Address range** – Select the numerical address of the destination.
- **Intersection** – Select the intersection closest to the destination.

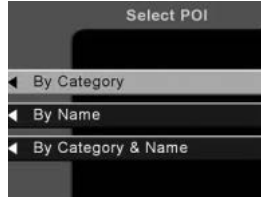
Points of Interest (POI)

This destination option enables you to specify a particular place, such as an airport or gas station. Use the soft keys to select Points of Interest. In the next menu, you will have the following options:



Entertainment Systems

- **By Category** – Lists POIs by categories, such as airports, gas stations, etc. Use the cursor control to select and confirm choice.
- **By Name** – A keyboard display enables you to spell out the first four letters of the desired POI. A slight time delay will occur if large numbers of letter options are available.
- **By Category & Name** – Lists categories, then allows you to spell out the first four letters of your destination.



After making these selections, three further options are displayed:

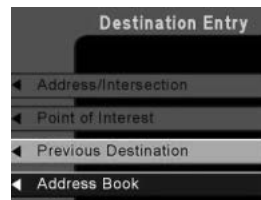
- **Show All** – Lists entries in alphabetical order.
- **Sort by Distance** – Lists the closest POI entries to the vehicle's current location.
- **Within a Town/City** – Lists entries for a specific city in alphabetical order.

Certain categories may not be available in some areas and POIs may not all be listed. Up to date information also depends upon using the latest navigation CD available.

Previous destination

The last 50 destinations entered into the navigation system are automatically stored in the system's memory.

Use the soft key to select Previous Destination. The address of each stored destination will appear.



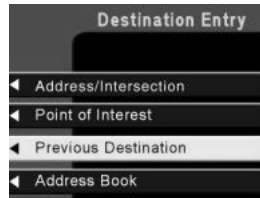
The previous origin information is also stored in this location. This stores the location where the vehicle last started off from and is updated each time the vehicle completes a journey.

Entertainment Systems

Deleting a previous destination

- Use the cursor control to select the destination to be deleted.
- Press DELETE.

A confirmation screen will appear before the deletion is complete.



Entering a destination using the keyboard of lists

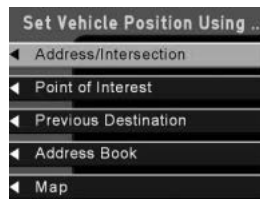
After selecting the desired choice from the Destination Entry menu, there are two main ways to enter your destination in the VNR system:

Keyboard – the keyboard display enables you to spell out a town, city, street or point of interest.

- Use the cursor control to highlight the desired character(s).
- Push in the control to confirm the selection. A highlight bar will automatically begin searching the current files for the listing.
- To move back to previously selected characters, press DELETE.

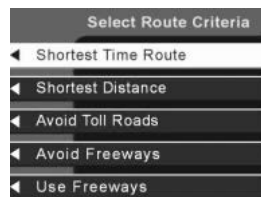
List – Your VNR system shows a list of town/cities, streets or points of interest and a highlight bar indicates the line selected. You may choose any of these for a destination.

- Press LIST to enter list mode.
- Use the cursor control to scroll through the selections.
- Press in the cursor control to confirm the selection.



Selecting Route Criteria

Once you have selected a destination, select from the following route criteria:



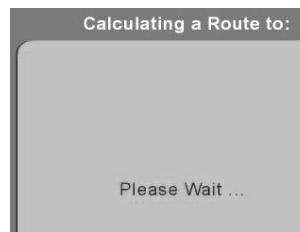
Entertainment Systems

1. **Shortest time route** — Creates a driving route which minimizes driving time taking into consideration things such as speed limits, number of turns, etc.
2. **Shortest distance** — Creates a driving route the shortest distance from the current location.
3. **Avoid toll roads** — Creates a driving route which avoids toll roads where possible.
4. **Avoid freeways** — Creates a driving route which avoids major freeways where possible.
5. **Use freeways** — Creates a route which uses freeways where possible.

Route calculation

Once the route criteria is selected, the navigation system automatically calculates a route to the selected destination. The route appears on the display screen and a voice prompt provides instructions.

This screen will appear for a few seconds while the navigation system is calculating your route.



Please proceed

Once the route is calculated, 'Please Proceed' is displayed with a map on the display. Also included in the display:

- the planned route is shown in pink
- parts of the planned route containing incomplete map data are highlighted in "cautionary" yellow
- major roadways are shown in blue
- other streets are shown in white
- your vehicle location is shown as a pink/yellow triangle
- the arrow at the foot of the screen points to your destination



Entertainment Systems

You are able to choose from three viewing options in this display:

- **PLAN** — Press this soft key to scroll through your entire route. This option is only available prior to beginning the journey.
- **PAN** — Press this soft key, then use the cursor control to pan up, down, left or right on the map. This option is only available when the vehicle is not in motion.
- **ZOOM** — Press this soft key multiple times (or use the cursor input) to select the desired zoom level on the map. The zoom level is shown at the bottom of the screen.

Guide display

Once your vehicle is moving along the highlighted route, the Guide display screen will automatically appear. This screen shows your next turn as voice prompts direct you on the route. When the planned route contains incomplete map data, the guide display maneuvers are identified in “cautionary” yellow. The screens and voice prompts are continually updated to correspond with your vehicle location. To disengage the voice prompts, refer to *Navigation preferences* in the *System Options Chapter*.



The voice volume level may be adjusted by turning the volume control during a voice prompt only.

On the Guide display screen, there are two display functions which are available if needed:

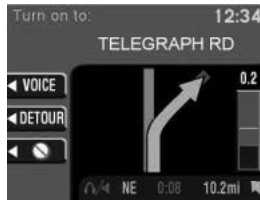
- **VOICE** — Press to repeat the current voice prompt.
- **DETOUR** — Press to select a detour. For more information on detours, refer to *Detours, interruptions and route changes* in this chapter.
- **CANCEL** — Press to cancel the guide display.

While in the Guide display screen, the cursor input can be used to preview future/up coming maneuvers. This can be done by pressing down on the cursor input to go to the 'next' maneuver instruction, and pressing up to go to the 'previous' maneuver. Pressing the NAV control at any time will set you back to the current maneuver/turn instruction.

Entertainment Systems

True view

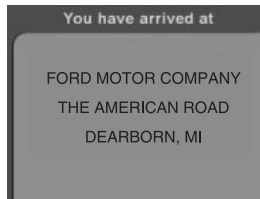
As you approach an intersection, the Guide display screen will automatically change to a close-up view (True view) of the junction. The close-up view will automatically return to the Guide display screen once a turn has been completed.



When the planned route contains incomplete map data, the close-up view maneuvers are identified in “cautionary” yellow.

Arrival

When you approach your destination, the destination indicator will appear on the map display screen as a circular icon. When you arrive, the name and address of your destination will be displayed.



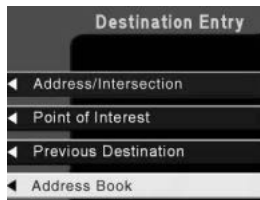
Navigation screen display

The address book feature allows you to store up to 50 alphabetical destinations. To store an address:

1. Once in navigation mode, select 'Address book'.
2. Confirm the selection.

Stored addresses will appear in the display. If no entries exist, an empty address book screen is shown.

Use the cursor control to select the desired entry.

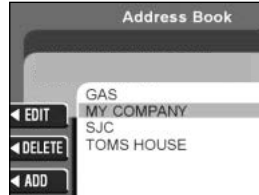


Entertainment Systems

Adding, deleting or editing the address book

Note: These features are not available when the vehicle is in motion.

1. Ensure that you are in navigation mode.
2. Select Address book.
3. Confirm selection.
4. Press the DELETE soft key to delete the current entry.
5. Press the ADD soft key to add an additional entry.



6. Press the EDIT soft key to edit the current entry.

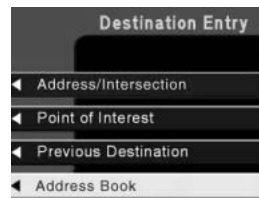
- Use the cursor control to select a letter.
- Push the control to add a letter to the name. If you make a mistake, you can press the DELETE soft key.
- Press the DONE soft key to save your entry under the name you spelled.



Storing the current car position in the address book

If you are at a location you would like to store in the address book, such as a new restaurant:

- Select ADDRESS BOOK from the Destination Entry menu.
- Press the ADD soft key.
- Press the CURRENT LOCATION soft key.
- Assign a name to the entry as described in *Adding, deleting or editing the address book* above.
- Press the DONE soft key to save your entry under the name you chose.



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Current location

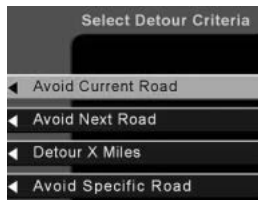
To access your current location, press this control when in navigation mode. Your current location and the name/distance to the next/last intersection are displayed.



Press NAV to return to a guidance display. Press MAP to return to a map display.

Detours, route interruptions and changes

If need be, your navigation system can easily and quickly find the most efficient detour around road construction, unexpected traffic or undesirable roads.

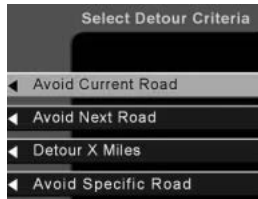


Detour options

You may engage the detour option when in the Guide display, True view or Map display screens.

Press the control next to DETOUR to activate.

Use the soft keys to select and enter your new route criteria. Press the key to confirm selection. The following options are available:



- **AVOID CURRENT ROAD** — Updates your route to avoid the road which you are on currently.
- **AVOID NEXT ROAD** — Updates your route to avoid the next road planned on your journey.
- **DETOUR (X) MILES** — Provides a detour from the current route for the noted distance. Use the cursor control to indicate the distance which needs to be avoided. The range available is based on the length of your original route.
- **AVOID SPECIFIC ROAD** — Avoids a specific road on your planned route.

Entertainment Systems

Route interruptions

In the course of your destination, you may decide to temporarily leave your planned route for gas, food, etc. If you turn off the ignition, the option to continue the route guidance will be displayed when the ignition is turned on again. Use the cursor control to select from one of the following options:

- Resume route - The navigation system displays the Select Route Criteria screen. Refer to *Selecting Route Criteria* earlier in this chapter.
- Cancel route - Press to return to the main menu.

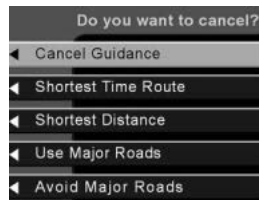


If the ignition is not turned off, simply continue along your highlighted route.

Route changes or cancellations

To cancel or change your current route:

- Press BACK, then select 'Cancel Guidance' or
- Press the CANCEL soft key.



Navigation Menu

You are able to make various adjustments in navigation mode. To view the options, press the control next to "Option Menu" to select from the following options:



Entertainment Systems

Navigation options

Once in the navigation preference menu, you may select from the following options:

- VOICE — Select to turn the voice output on or off and to adjust the volume level.
- MAP — Choose between “Heading up” to put your direction of travel toward the top of the screen, or “North up” to ensure that North is always at the top of the screen.
- UNITS — Press to select from miles or kilometers. When kilometers are selected, it will affect the map and the fuel economy screen.



Display options

Use this feature to change the display setting. This feature can be accessed by selecting “Display Options” within the Main Menu.

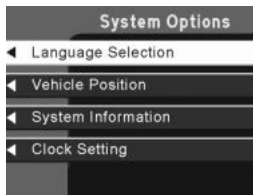
Use the cursor control to select one of the following options:

- MODE — auto (automatic), day or night display settings.
- BRIGHTNESS— provides manual adjustment for screen brightness.
- Turn Display Off— Turns the display off. Press any button to turn the display back on again.



System options

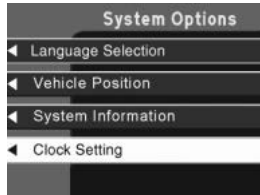
- Language Selection: Use the cursor control to select and enter the desired voice and text language.



- Clock Setting: Your vehicle is equipped with a clock in the VNR system. To set the clock:

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1. Access the CLOCK screen.

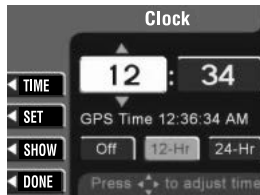


2. Press the TIME control to select the hours or minutes to set.

3. Use the cursor control to increase or decrease the hours or minutes.

4. Press DONE to set the time.

5. Select the SET soft key to synchronize/set the minutes and seconds to GPS time. The hours will remain at the user set value.



You may choose to set the clock to a 12 or 24 hour display.

General information

Federal Communication Commission (FCC) Compliance

Changes or modifications not approved by Ford or Lincoln Mercury could void user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

Cleaning the display

Do not spray cleaning fluid directly onto the unit. Instead, spray onto a soft cloth and gently wipe the unit. Only recommended products should be used.

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Do not clean any part of the system with benzene, paint thinner or any other solvent.

Do not spill liquids of any kind onto the unit.

The navigation system utilizes a database stored in a special format on a CD. It is recommended always to use the latest update of this map CD.

- The navigation system will only work with CDs specifically intended for your navigation system.
- Always store the map CDs in their protective cases when not in use.

Cleaning map discs

Note: Ensure that you handle the high density digital map discs with care and by the edges only. Fingerprints, smudges and scratches on the disc can affect Navigation System performance.

1. Ensure that you use a soft, non-abrasive, lint-free cloth.
2. DO NOT clean the disc in a circular motion as this may harm the pits on the surface of the disc.
3. In order to minimize any scratching, wipe the disc with the cloth from the inner hub to the outside of the disc.
4. DO NOT use any type of liquid cleaning solutions on the discs.

Map coverage

Please refer to the *Navigation System Quick Start Guide* for individual map CD content details.

CDs contain map data for all of the continental United States and parts of Canada. In some less populated areas, even though a map is displayed, map data may be incomplete (does not contain one-way street information, turn restrictions, speed limits, etc.) In these cases, the system will alert the driver and route guidance directions on the display are highlighted in “cautionary” yellow.

Ordering additional map CDs

If you wish to order additional maps, or report possible problems with your current map CD, please call **NAVTEQ at 1-(888) NAV-MAPS**, (1-888-628-6277) toll-free or write

NAVTEQ

P.O. Box 543442

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Entertainment Systems

Latest map CDs

The traffic network is constantly changing due to new roads, traffic restrictions, etc. Therefore, it is not always possible to exactly match the digital CD map with the current roadways. To help with accuracy, always use the latest version of the map CD for navigation.

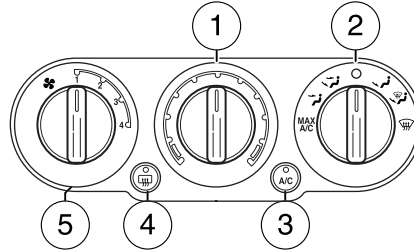
Climate Controls

MANUAL HEATING AND AIR CONDITIONING SYSTEM (IF EQUIPPED)

1. Temperature selection:

Controls the temperature of the airflow in the vehicle.

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



MAX A/C: Uses recirculated air


through the instrument panel registers to cool the vehicle. This mode is more noisy than A/C, but is more economical and efficient and may help prevent undesirable odors from entering the vehicle.

 : Distributes outside air through the instrument panel vents.

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

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

 : Distributes outside air through the floor vents.

 : Distributes outside air through the windshield defroster vents and floor vents.

 : Distributes outside air through the windshield defroster vents.

3. **A/C:** Used to manually enable or disable the operation of the air conditioning in all modes except Floor & Defrost, Defrost and MAX A/C.

4.  : Clears ice and fog from the rear windshield.


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

Since the air conditioner removes moisture from the air, it is considered normal operation if water drips on the ground under the air conditioner drain.


The A/C compressor will only function if the outside temperature is above approximately 2°C (35°F).

Climate Controls

Operating tips

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the  position.
- To reduce humidity build up inside the vehicle: do not drive with the air flow selector in the O (OFF) or (in cold weather) MAX A/C position.
- Under normal weather conditions, do not leave the air flow selector in MAX A/C or O (OFF) when the vehicle is parked. This allows the vehicle to “breathe” using the outside air inlet vents.
- 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 aid in side window defogging/demisting in cold weather:

1. Select .
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.

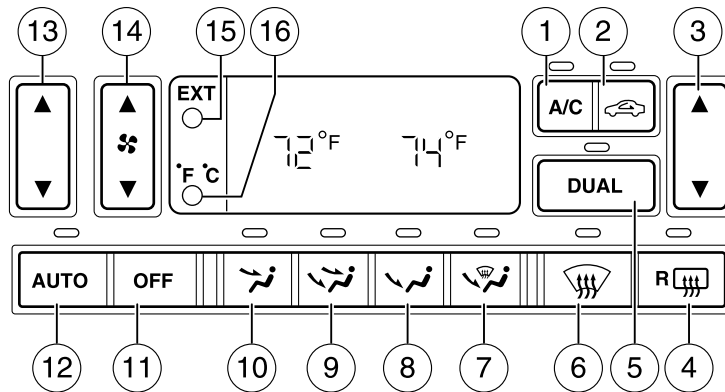
To increase airflow to the outer instrument panel vents, close the vents located in the middle of the instrument panel.





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


Climate Controls

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



1. **A/C:** Uses outside air to cool the vehicle. Press to turn on/off in all modes except  or .



2. **Recirculation control:** Used to manually enable or disable the operation of recirculated air in all modes except  (defrost). Cools the vehicle more quickly by recirculating the cabin air instead of using outside air and helps prevent unpleasant outside odors or fumes from entering the vehicle. In automatic operation, the recirculated air operates automatically as necessary to achieve the selected temperature.



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



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



Climate Controls

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



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

7.  : Distributes outside air through the windshield defroster vents and floor vents.

8.  : Distributes outside air through the floor vents.

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

10.  : Distributes outside air through the instrument panel vents.

11. **OFF**: Outside air is shut out and the fan will not operate.



12. **AUTO**: Press AUTO and then select the desired temperature. The system will automatically determine fan speed, airflow location and outside or recirculated air to heat or cool the vehicle to achieve the selected temperature.



13. **Driver's side temperature control**: Controls the temperature for both driver and passenger. Controls only the driver's side of the vehicle if operating in DUAL mode.



14. **Fan Speed**: Used to manually enable or disable the fan speed.



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



Climate Controls

16. Temperature conversion:

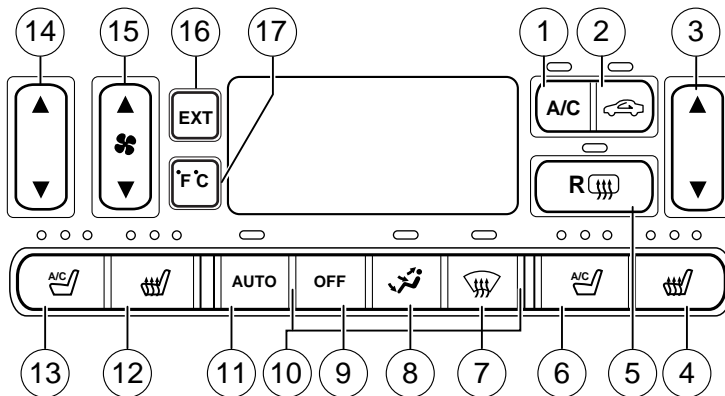
Press to toggle between Fahrenheit and Celsius temperature on the DATC display only. The set point temperatures in Celsius will be displayed in half-degree increments.



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



Dual automatic temperature control (DATC) system with heated and cooled seats (if equipped)



1. **A/C:** Press to engage/disengage the air conditioning in all modes except defrost and floor/defrost. Uses outside air to cool the vehicle.



2. **Recirculation control:** Press to engage/disengage. Used to manually enable or disable recirculated air operation. When activated, recirculates air in the cabin thereby reducing the amount of time to cool down the interior of the vehicle. May also help reduce undesired odors from reaching the interior of the vehicle.



Climate Controls


Will work in all modes except defrost. In automatic operation, the recirculated air operates automatically as necessary to achieve the selected temperature.

3. **Passenger side temperature control:**


Press to engage the dual zone feature of the DATC system.


Allows the passenger to choose and control a different temperature than the driver, if desired.





4.  **Passenger heated seat:** Press to turn on the passenger side heated seat. Press once for full heat (three lights above passenger heated seat control will be illuminated). Press a second time to select medium heat (two lights). Press a third time to select low heat (one light). Press a fourth time to disengage the feature (all lights will be off).


Note: The passenger heated seat will turn off automatically after 15 minutes of use.

5.  **(Rear defroster):** Press to defrost the rear window. Refer to the *Rear window defroster* section in this chapter for more information.

6.  **Passenger cooled seat:** Press to turn on the passenger side cooled seat. Press once for full cool (three lights above passenger cooled seat control will be illuminated). Press a second time to select medium cool (two lights). Press a third time to select low cool (one light). Press a fourth time to disengage the feature (all lights will be off). **Note:** The passenger cooled seat will turn off automatically after 30 minutes of use.

7.  **(Defrost):** Distributes outside air through the windshield defroster ducts and the demister outlets. Can be used to clear ice or fog from the windshield. The system will automatically provide outside air to reduce window fogging.

8.  **Airflow direction control:** Press to toggle through the air distribution modes listed below. The selected mode will illuminate in the display.

 : Distributes air through the windshield defroster ducts, demister outlets and the front and rear seat floor ducts. The system will automatically provide outside air to reduce window fogging.

 : Distributes air through the floor and rear seat floor ducts. The system will automatically provide outside air to reduce window fogging.

 : Distributes air through the instrument panel registers and the front and rear seat floor ducts.

 : Distributes air through the instrument panel registers.

Climate Controls

9. **OFF:** Outside air is shut out and the fan will not operate.





10. **Manual override controls:** Allows you to manually select where airflow is directed. To return to full automatic control, press AUTO.

11. **AUTO:** Press to engage automatic temperature control. Use the temperature control to select




the desired temperature setting. The system will automatically determine fan speed, airflow location, A/C on or off, and outside or recirculated air to heat or cool the vehicle, allowing it to reach the desired temperature. Press and hold AUTO for about two seconds to toggle between single zone and dual zone temperature control.

12.  **Driver heated seat:** Press to turn on the driver side heated seat. Press once for full heat (three lights above driver heated seat control will be illuminated). Press a second time to select medium heat (two lights). Press a third time to select low heat (one light). Press a fourth time to disengage the feature (all lights will be off). **Note:** The driver heated seat will turn off automatically after 15 minutes of use.

13.  **Driver cooled seat:** Press to turn on the driver side cooled seat. Press once for full cool (three lights above driver cooled seat control will be illuminated). Press a second time to select medium cool (two lights). Press a third time to select low cool (one light). Press a fourth time to disengage the feature (all lights will be off). **Note:** The driver cooled seat will turn off automatically after 30 minutes of use.

14. **Driver's side temperature control:** Controls the temperature on the driver side of the vehicle in dual zone and controls the temperature of both the driver and passenger sides in single zone.



15. **Fan Speed:** Press to manually increase/decrease fan speed. In manual mode, the display will show  with a bar graph to



indicate fan speed. Fan speed can be manually adjusted in AUTO mode. To allow the system to automatically control fan speed, press AUTO.

Climate Controls

16. **EXT control:** Press to display the outside air temperature. Press again to return to interior



temperature. **Note:** Exterior

readings are most accurate when the vehicle has been moving for a period of time.


17. **Temperature conversion:**




Press to toggle between Fahrenheit and Celsius temperature on the

DATC display only. The set point temperatures in Celsius will be displayed in half-degree increments.

Operating tips

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the  position.
- To reduce humidity build up inside the vehicle: do not drive with the air flow selector in the O (OFF) or (in cold weather) MAX A/C position.
- Under normal weather conditions, do not leave the air flow selector in MAX A/C or O (OFF) when the vehicle is parked. This allows the vehicle to “breathe” using the outside air inlet vents.
- 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 aid in side window defogging/demisting in cold weather:

1. Select .
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.

To increase airflow to the outer instrument panel vents, close the vents located in the middle of the instrument panel.



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

Climate Controls

AUXILIARY A/C-HEATER CONTROLS (IF EQUIPPED)

Your vehicle may be equipped with auxiliary climate controls. These allow the front or rear seat passengers to control airflow direction, temperature and fan level of the rear compartment to quickly heat or cool the vehicle.


Auxiliary climate controls are located in the first row overhead console and in the floor console on the back of the front row console.

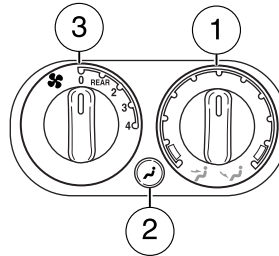
If the main climate control system is in the OFF position, the auxiliary climate control will not operate.



The auxiliary unit can be controlled either by the front seat occupant(s) using the front auxiliary control or by the rear seat passenger(s) using the rear auxiliary control but not both. To control the auxiliary unit using the rear control, the front auxiliary blower control must be in the REAR position.

Front auxiliary controls:

1. Temperature control:

Determines airflow temperature in the rear of the vehicle. If the main climate control system is cooling in MAX A/C or  mode, the auxiliary temperature control will not function as the entire vehicle will operate at a full cool temperature.



2. **Mode selector:** Press to select air flow direction to  (Floor) or  (Panel).

 Directs air to the floor of the third row seating.

 Directs air to the overhead registers of the second and third row seating. The selected mode will illuminate on the temperature control.


3. **Fan control:** Determines fan speed in the auxiliary system. Turn to REAR to give rear seat passengers control of the rear auxiliary controls. Otherwise, the front auxiliary control will determine the settings for the auxiliary A/C-heater. If set to O (OFF), the rear auxiliary controls will not function.

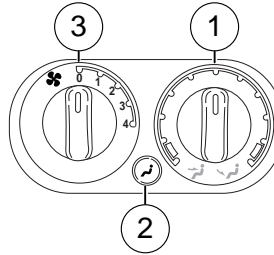
Climate Controls



Rear auxiliary controls (if equipped):

Once the front auxiliary control is set to REAR, the rear seat passengers may use the rear auxiliary controls in the floor console to make the desired adjustments.

1. Temperature control:

Determines temperature levels. If the main climate control system is cooling in MAX A/C or  mode, the auxiliary controls will not function as the entire vehicle will operate at a full cool temperature.



2. **Mode selector:** Press to select between air flow to  (Floor) or  (Panel).

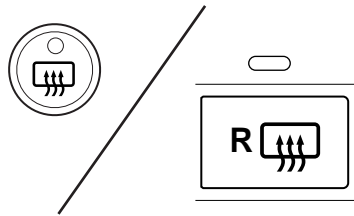
 Directs air to the floor of the third row seating.

 directs air to the overhead registers of the second and third row seating. The selected mode will illuminate on the temperature control.

3. **Fan control:** Determines fan speed levels.

REAR WINDOW DEFROSTER

Used to manually enable or disable rear window defrost in all modes. After approximately 10 minutes of rear defrost operation, the climate control system will automatically disable the rear defrost operation. If desired, the rear defrost can be manually disabled through the use of the rear defrost button. When operating, the rear defrost indicator will be lit. The rear window defroster switch also activates the standard exterior mirror defrost feature.

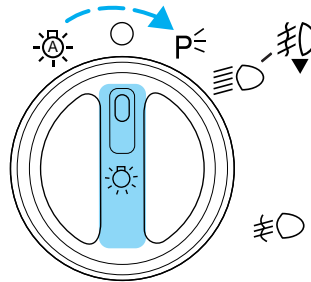


Do not use razor blades or other sharp objects to clean the inside of the rear window or to remove decals from the inside of the rear window. This may cause damage to the heated grid lines and will not be covered by your warranty.

Lights

HEADLAMP CONTROL ☼

Rotate the headlamp control to the first position $P \leftarrow$ to turn on the parking lamps. Rotate to the second position $\equiv \text{D}$ to turn on the headlamps.

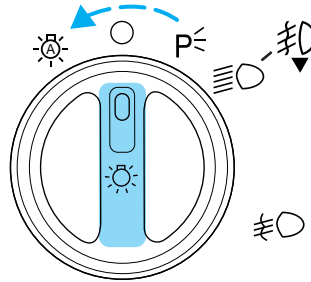


Autolamp control ☼

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

The autolamp system also keeps the lights on for approximately 20 seconds or on vehicles equipped with a message center, you can select a delay from 0–180 seconds, after the ignition switch is turned to OFF.

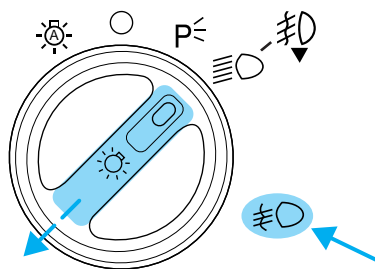
- To turn autolamps on, rotate the control counterclockwise.
- To turn autolamps off, rotate the control clockwise to OFF.



Foglamp control (if equipped) $\equiv \text{D}$

The headlamp control also operates the foglamps. The foglamps can be turned on when the headlamp control is in the $P \leftarrow$, ☼ or $\equiv \text{D}$ positions and the high beams are not turned on.

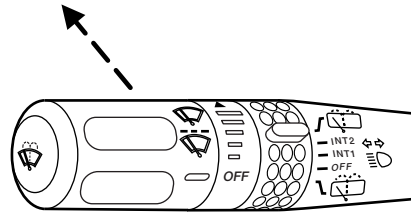
Pull headlamp control towards you to turn foglamps on. The foglamp indicator light $\equiv \text{D}$ will illuminate.



Lights

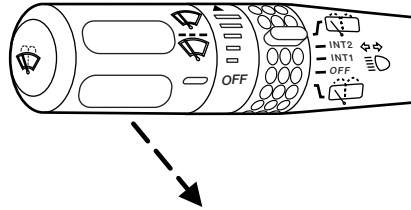
High beams

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



Flash to pass


Pull toward you slightly to activate and release to deactivate.



Daytime running lamps (DRL) (if equipped)

Turns the foglamps on at full intensity output. To activate:

- the ignition must be in the ON position and
- the headlamp control must be in the OFF or Parking lamps position.

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

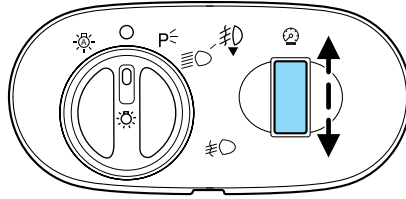
Lights

PANEL DIMMER CONTROL

Use to adjust the brightness of the instrument panel and all applicable switches in the vehicle during headlamp and parklamp operation.

Move the control to the full upright position, past detent, to turn on the interior lamps.

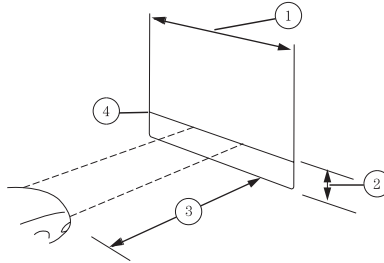
Move the control to the full down position, past detent, to prevent the interior lights from illuminating when the doors are opened.



VERTICAL AIM ADJUSTMENT

1. Park the vehicle directly in front of a wall or screen on a level surface, approximately 25 feet (7.6 meters) away.

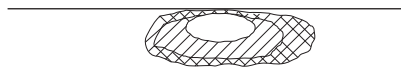
- (1) 8 feet (2.4 meters)
- (2) Center height of lamp to ground
- (3) 25 feet (7.6 meters)
- (4) Horizontal reference line



2. Measure the height from the center of your headlamp (indicated by a 3.0 mm circle on the lens) to the ground and mark an 8 foot (2.4 meter) horizontal reference line on the vertical wall or screen at this height (a piece of masking tape works well).

3. Turn on the low beam headlamps to illuminate the wall or screen and open the hood. Cover one of the headlamps so no light hits the wall.

4. On the wall or screen you will observe a light pattern with a distinct horizontal edge towards the right. If this edge is not at the horizontal reference line, the beam will need to be adjusted so the edge is at the same height as the horizontal reference line.



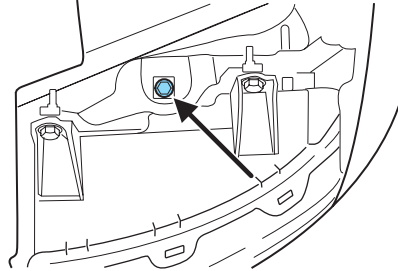
Lights

5. Locate the vertical adjuster on each headlamp, then use a 10 mm socket/wrench to turn the adjuster either counterclockwise (to adjust down) or clockwise (to adjust up) aligning the upper edge of the light pattern up to the horizontal line.

6. HORIZONTAL AIM IS NOT REQUIRED FOR THIS VEHICLE AND IS NON-ADJUSTABLE.

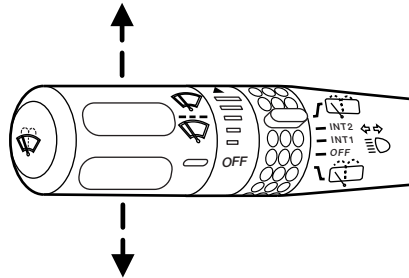
7. Repeat Steps 3–5 for the other headlamp.

8. Close the hood and turn off the lamps.



TURN SIGNAL CONTROL ⇄

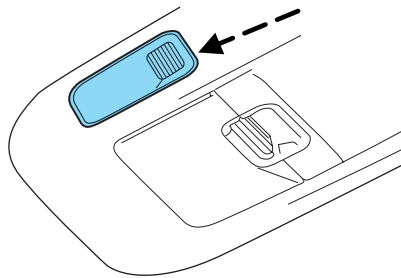
- Push down to activate the left turn signal.
- Push up to activate the right turn signal.



INTERIOR LAMPS

Front row map lamps (if equipped)

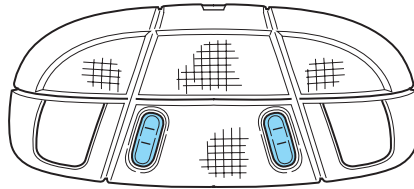
To turn on the map lamps, press the rear edge of the lamp.



Front row map/dome lamp (if equipped)

The dome lamp lights when:

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

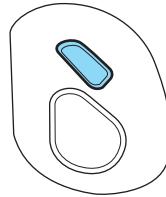


The map lamps are activated by pressing the controls on either side of the lens.

Second row map lamps (if equipped)

The second row map lamps are located in the headliner above the second row seats.

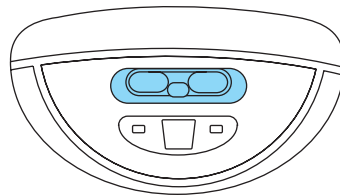
- Press the controls to activate the lamps.



Rear cargo lamp

The dome lamp lights when:

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



With the ignition key in the ACC or ON position, the rear dome lamp can be turned ON or OFF by sliding the control.

Lights

BULB REPLACEMENT

Headlamp Condensation

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

Using the right bulbs

Replacement bulbs are specified in the chart below. Headlamp bulbs must be marked with an authorized "D.O.T." for North America to ensure lamp performance, light brightness and pattern and safe visibility. The correct bulbs will not damage the lamp assembly or void the lamp assembly warranty and will provide quality bulb burn time.

Function	Number of bulbs	Trade number
Headlamps (low-beam)	2	9006
Headlamps (high-beam)	2	9005
Front park/turn/sidemarkers lamps	2	3457 K
Fog lamps	2	899
Front row map lamps	2	579
Front row map/dome lamps	3	578
Rear cargo lamp	1	578
2nd row reading lamp	2	578
Turn/tail/brake/sidemarkers lamps	2	3157K or 4157K
Approach/mirror turn signal lamps (if equipped)	2	906
Mirror approach lamps – non turn signal (if equipped)	2	*See your dealer
Liftgate bulb	2	916
Backup lamp	2	3156
License lamp	2	168
High-mount brake lamp	5	W5W
All replacement bulbs are clear in color except where noted.		
To replace all instrument panel lights - see your authorized dealer		

Lights

Function	Number of bulbs	Trade number
* To obtain replacement approach lamp assembly bulbs, see your authorized dealer and reference Ford part no. 2L1Z-13B374-BB for the passenger side mirror and 2L1Z-13B375-BB for the driver side mirror.		

* For vehicles with HID (high intensity discharge) lamps, see your authorized dealer for service.

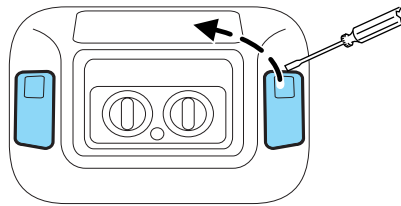
Replacing the interior bulbs

Check the operation of all bulbs frequently.

Map lamps

To change the map lamp bulbs:

1. Use a small screwdriver to remove the map lamp lens.
2. To remove the old bulb, twist $\frac{1}{4}$ turn and pull it out.
3. Twist in a new bulb.
4. Align and press the map lamp lens back on and test the lamp operation.

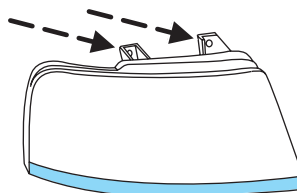


Replacing exterior bulbs

Check the operation of all the bulbs frequently.

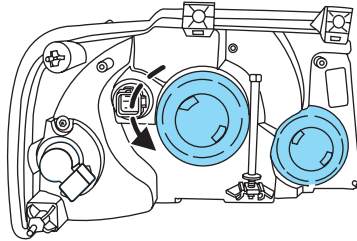
Replacing headlamp bulbs

1. Make sure that the headlamp control is in the OFF position.
2. Open the hood.
3. At the back of the headlamp, remove the two headlamp assembly retainer bolts.
4. Loosen the vertical bolt on the backside of the headlamp assembly. Do not remove it.
5. Slide headlamp assembly forward and off of guide ribs to expose the back of the bulb and wiring connector.

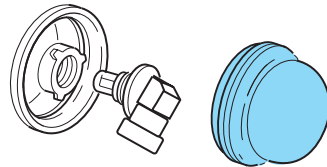


Lights

6. Pull off the bulb covers.



7. Once the bulb covers are removed, the bulbs can be removed by turning them counterclockwise and then pulling the bulbs straight out.



Handle a halogen headlamp bulb carefully and keep out of children's reach. Grasp the bulb only by its plastic base and do not touch the glass. The oil from your hand could cause the bulb to break the next time the headlamps are operated.

8. Insert the glass end of the new bulb into the headlamp assembly. When the grooves in the plastic base are aligned, turn the new bulb clockwise to install.

9. Reinstall the bulb covers.

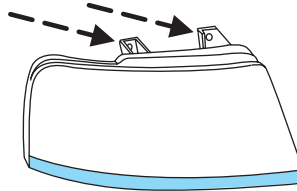
10. Replace the headlamp assembly and tighten all three retainer bolts to secure.

Replacing HID headlamp bulbs (if equipped)

The low beam headlamps on your vehicle may use a "high intensity discharge" source. These lamps operate at a high voltage. The bulb is NOT replaceable. When the bulb is burned out, the lamp assembly must be replaced by your authorized dealer.

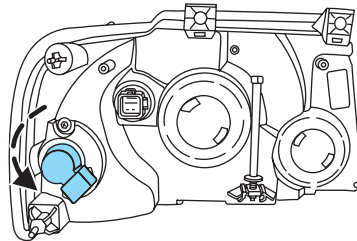
Replacing front parking lamp/turn/sidemarkers signal bulbs

1. Make sure that the headlamp control is in the OFF position.
2. Open the hood.
3. Remove the two headlamp assembly retainer bolts and lamp assembly from the vehicle.
4. Loosen the vertical bolt on the backside of the headlamp assembly. Do not remove it.



5. Slide headlamp assembly forward and off of guide ribs to expose the back of the bulb and wiring connector.

6. Rotate the bulb socket counterclockwise and remove from the lamp assembly.

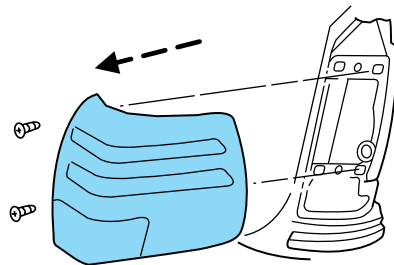


7. Carefully pull the bulb out of the socket and push in the new bulb.
8. Install the bulb socket into the lamp assembly and rotate clockwise.
9. Replace the lamp assembly and install all three retainer bolts on the lamp assembly.

Replacing tail/stop/turn/sidemarkers/backup lamp bulbs

The tail/stop/turn/sidemarkers/backup lamp bulbs are located in the same portion of the tail lamp assembly, one just below the other. Follow the same steps to replace either bulb:

1. Make sure the headlamp switch is in the OFF position and then open the liftgate to expose the lamp assembly screws.



2. Remove the two screws from the lamp assembly.

3. Carefully remove the lamp assembly away from the vehicle by pulling the assembly straight out to expose the bulb socket. DO NOT TIP THE LAMP ASSEMBLY SIDEWAYS.

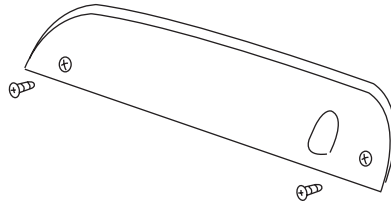
Lights

4. Rotate the bulb socket counterclockwise and remove from lamp assembly.
5. Pull bulb straight out of socket and snap in the new bulb.
6. Install the bulb socket into the lamp assembly and rotate clockwise.
7. Carefully install the tail lamp assembly on the vehicle by securing the lamp assembly with two screws.

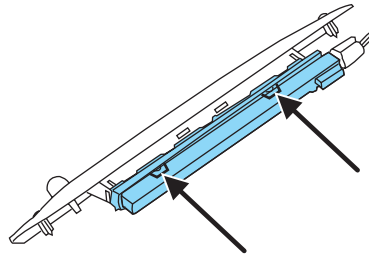
High-mount brakelamp

To change the high-mount brakelamp bulbs:


1. Remove the two screws holding the lamp assembly in place.



2. Pull the lamp assembly straight out.
3. Remove the wire harness.
4. Depress the four tabs that hold the light assembly on, one at a time, and pull the black bulb carrier away from the lamp.
5. Pull the old bulb out and replace with the new bulb.
6. Snap the black bulb carrier into the lamp assembly.
7. Replace the wire harness.
8. Replace the lamp assembly.



Replacing foglamp bulbs

 Handle a halogen headlamp bulb carefully and keep out of children's reach. Grasp the bulb only by its plastic base and do not touch the glass. The oil from your hand could cause the bulb to break the next time the headlamps are operated.

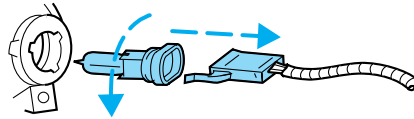
1. Make sure the headlamp switch is in the OFF position and the engine is not running.

2. Remove the bulb socket from the foglamp by turning counterclockwise.

3. Disconnect the electrical connector from the foglamp bulb.

4. Connect the new foglamp bulb to the electrical connector.

5. Install the bulb socket in the foglamp turning clockwise.



Replacing license plate lamp bulb

The license plate bulbs are located in the license plate housing assembly on the liftgate. To change the license plate bulbs:

1. Make sure the headlamp switch is in the OFF position.

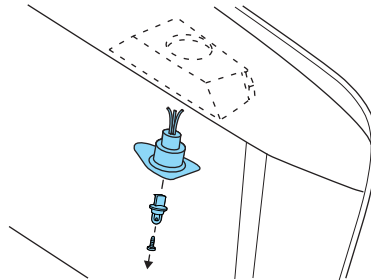
2. Remove the license lamp screw from the assembly.

3. Pull the lamp down and twist the bulb socket counterclockwise. Remove the bulb socket from the lamp.

4. Pull out the old bulb and push in the new bulb.

5. Install the bulb socket in the lamp assembly by turning it clockwise.

6. Install the lamp assembly and secure it with the retaining screw.

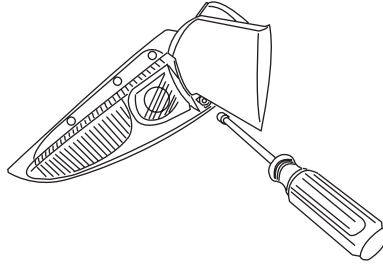


Lights

Approach lamp/mirror turn signal bulb removal (if equipped)

To change the bulbs:

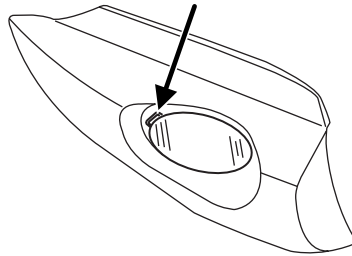
1. Make sure the headlamp switch is in the OFF position and then fold the mirror forward.
2. Remove the torx screw on the bottom of the turn signal lens using a T-10 torx driver.
3. Pull the turn signal lens down to remove it from the mirror assembly.
4. Disconnect the bulb assembly from the lens.
5. Remove and replace the bulb.
6. Reverse the order to reassemble lamp and lens.



Approach lamp bulb removal (if equipped)

To change the bulbs:

1. Make sure that all the doors are closed and the interior lights have automatically turned off or the opposite mirror approach lamp has turned off.
2. With a small flat tipped screwdriver, insert the tip into the approach light module slot located on the outboard corner of the lens to release the clip.
3. While holding the clip in the release position, pull the approach light module down.
4. Remove the two wires from the module and replace the module with a new one.
5. Reverse the order to reassemble the approach light module.



Driver Controls

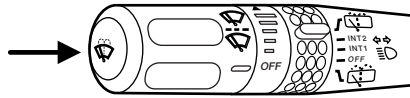
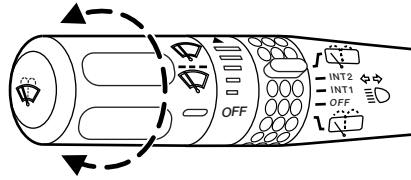
MULTI-FUNCTION LEVER

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

Speed dependent wipers: When the wiper control is on, the speed of the wipers will automatically adjust with the vehicle speed. The faster your vehicle is travelling the faster the wipers will go.

Windshield washer: Push the end of the stalk:

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



Rear window wiper/washer controls

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

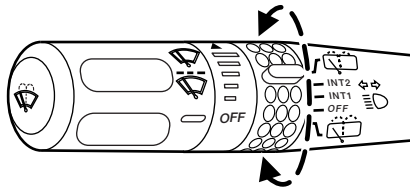
INT 2 — Normal speed operation of rear wiper.

INT 1 — Intermittent operation of rear wiper.

OFF — Rear wiper and washer off.

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

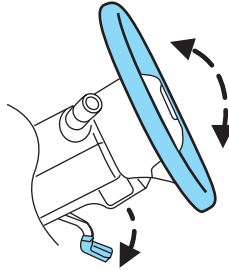
From either position, the control will automatically return to the INT 2 or OFF position.



Driver Controls

TILT STEERING

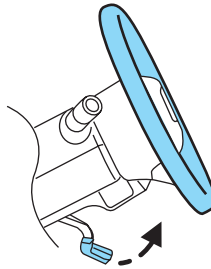
Push the lever down to unlock the steering column. While the lever is in the down position, tilt the steering column to the desired position.



While holding the steering wheel, pull the lever up to its original position to lock the steering column.

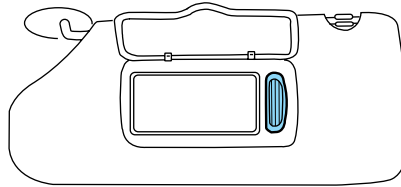


Never adjust the steering column when the vehicle is moving.



ILLUMINATED VISOR MIRROR (IF EQUIPPED)

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

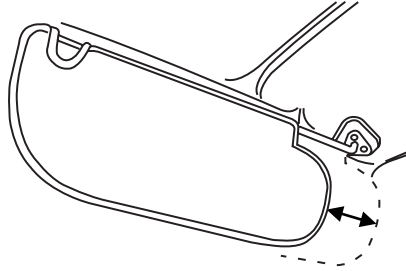


Driver Controls

Slide on rod feature (if equipped)

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

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

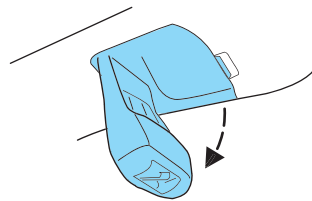


OVERHEAD CONSOLE

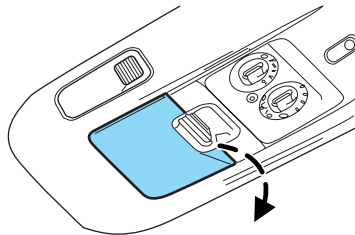
The appearance of your vehicle's overhead console will vary according to your option package.

Forward storage bin and conversation mirror (if equipped)

The storage compartment may be used to store two pairs of sunglasses or similar objects. Press the release control to open the storage compartment. The door will open slightly and can be moved to full open.



The conversation mirror on the cover allows the driver to view the rear seating area.

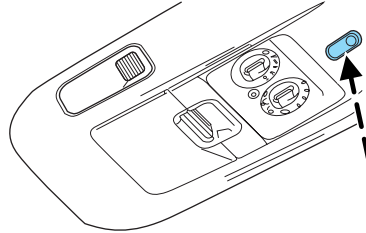


This does not replace the rear view mirror.

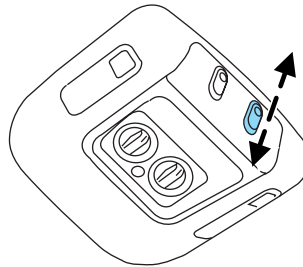
Driver Controls

Power quarter rear windows (if equipped)

- Without a moon roof



- With a moon roof



Press the ▲ portion of the VENT control to open the power rear quarter windows.

Press the ▼ portion of the VENT control to close the power rear quarter windows.



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



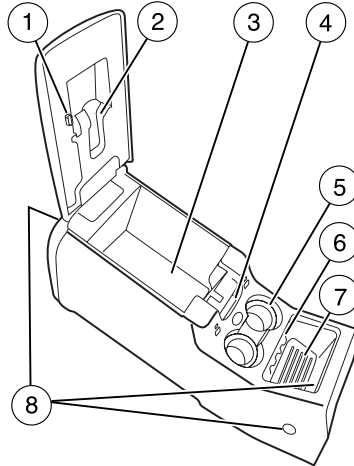
When closing the power rear quarter windows, you should verify that it is free of obstructions and ensure that children and/or pets are not in the proximity of the window opening.


Driver Controls

CENTER CONSOLE (IF EQUIPPED)

The center console offers several useful storage features. These include:

1. Pen holder
2. Tissue holder
3. Large utility compartment
4. PalmPilot[™]/PDA holder
5. Cupholders
6. Coin holder slots
7. Small utility compartment
8. Three power points



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

AUXILIARY POWER POINT (12VDC)

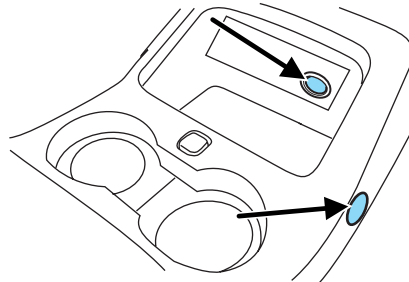
Power outlets are designed for accessory plugs only. Do not insert any other object in the power outlet as this will damage the outlet and blow the fuse. Do not hang any type of accessory or accessory bracket from the plug. Improper use of the power outlet can cause damage not covered by your warranty.

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

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

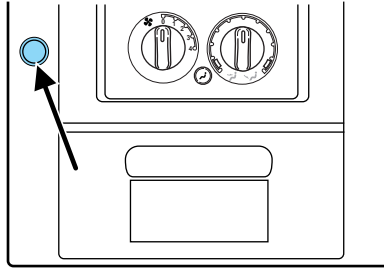
To prevent the battery from being discharged, do not use the power point longer than necessary when the engine is not running.

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



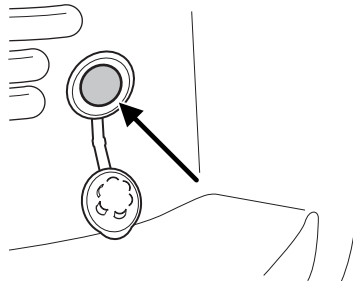
Driver Controls

The third auxiliary power point on the center console is accessible from the rear seats.

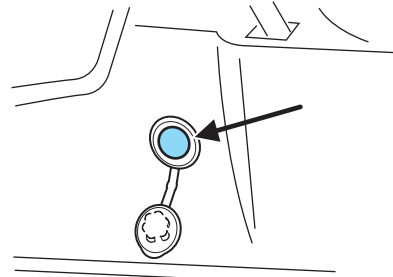


The rear auxiliary power point is located on the right rear quarter panel. The power point is accessible from the liftgate or the third row seat.

Equipped with rear climate control



Not equipped with rear climate control



Cigar/Cigarette lighter (if equipped)


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


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

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

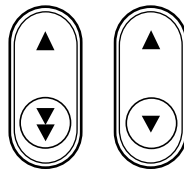
Driver Controls

POWER WINDOWS (IF EQUIPPED)

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

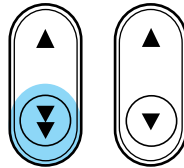
 When closing the power windows, you should verify they are free of obstructions and ensure that children and/or pets are not in the proximity of the window openings.

Press and hold the bottom part of the rocker switch to open the window. Press and hold the top part of the rocker switch to close the window.



One touch down

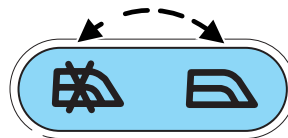
Allows the driver's window to open fully without holding the control down. Press completely down on the bottom part of the rocker switch and release quickly. Press the rocker switch again to stop.



Window lock

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

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



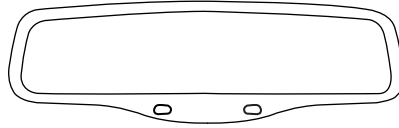
Accessory delay

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

Driver Controls

AUTOMATIC DIMMING INSIDE REAR VIEW MIRROR (IF EQUIPPED)

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



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

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

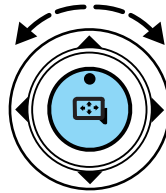
EXTERIOR MIRRORS

Power side view mirrors

The ignition can be in any position to adjust the power side view mirrors.

To adjust your mirrors:

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

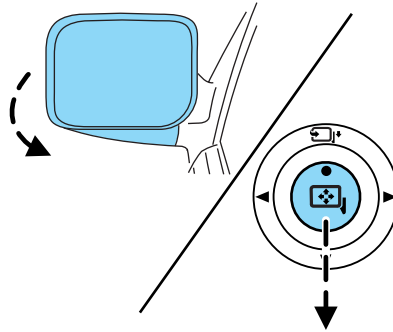


Driver Controls

Powerfold mirrors (if equipped)

Rotate the 4-way adjustment switch to the center position. Press the switch down to auto fold in and down again to auto fold back to design position. Powerfold the side mirrors in carefully when driving through a narrow space, like an automatic car wash.

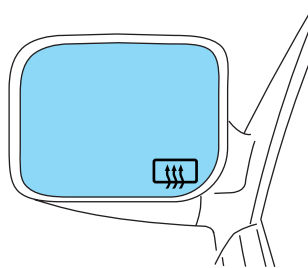
The mirrors may be moved inward/outward manually, however, if a mirror is moved manually, it will need to be reset. To reset: with the switch in the center position, press the switch down to fold the mirrors in and wait a short period (8 seconds). An audible "click" will be heard indicating re-synchronization. If the click is not heard, use the switch to fold the mirrors out, then in, until the click is heard. After that, the mirrors will operate to their normal positions until they are again moved manually.



Heated outside mirrors (if equipped)

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

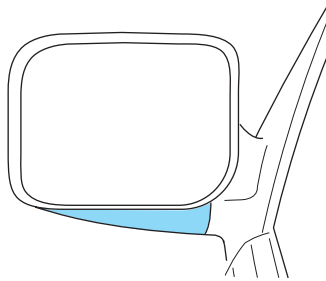
Do not remove ice from the mirrors with a scraper or attempt to readjust the mirror glass if it is frozen in place. These actions could cause damage to the glass and mirrors.



Driver Controls

Signal indicator mirrors (if equipped)

When the turn signal is activated, the lower portion of the mirror housing will blink.

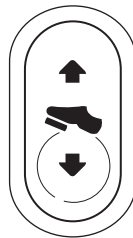


POWER ADJUSTABLE FOOT PEDALS (IF EQUIPPED)

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

Press and hold the rocker control to adjust accelerator and brake pedal.

- Press the bottom of the control to adjust the pedals toward you.
- Press the top of the control to adjust the pedals away from you.



The adjustment allows for approximately 3 inches (76 mm) of maximum travel.



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

SPEED CONTROL

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



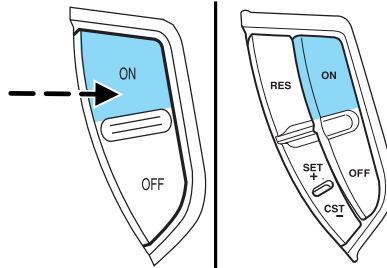
Do not use the speed control in heavy traffic or on roads that are winding, slippery or unpaved.


Driver Controls

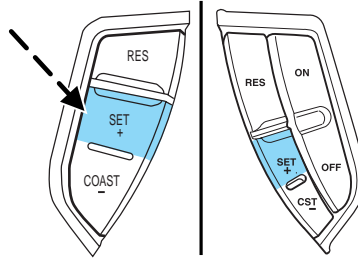
Setting speed control

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

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



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



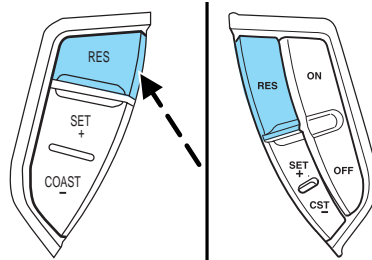
Note:

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

Driver Controls

Resuming a set speed

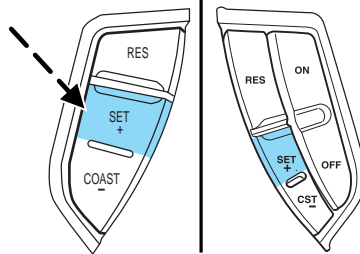
Press the RES (resume) control and release it. This will automatically return the vehicle to the previously set speed. The RES control will not work if the vehicle speed is not faster than 30 mph (48 km/h).



Increasing speed while using speed control

There are two ways to set a higher speed:

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

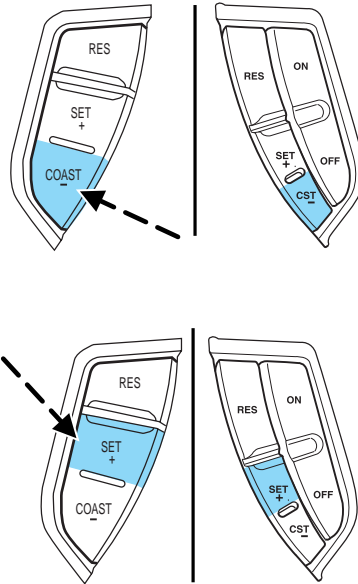


Driver Controls

Reducing speed while using speed control

There are two ways to reduce a set speed:

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

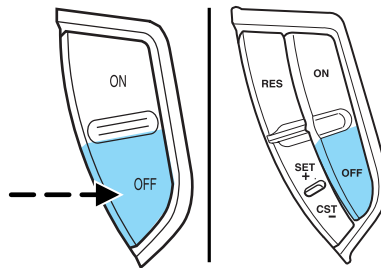


Turning off speed control

There are two ways to turn off the speed control:

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

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



Driver Controls

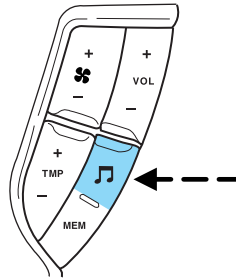
STEERING WHEEL CONTROLS (IF EQUIPPED)

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

Audio control features

Press  to select:

- AM, FM1, FM2,
- CD, or
- DVD (if equipped).

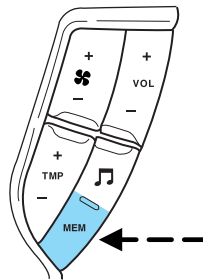


In AM, FM1, or FM2 mode:

- Press MEM to select preset stations within the selected radio band.

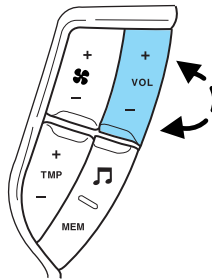
In CD mode:

- Press MEM to select the next selection on the CD.



In any mode:

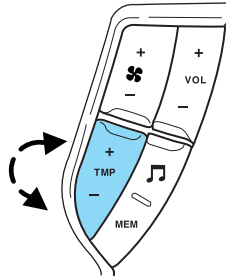
- Press VOL + or - to adjust volume.




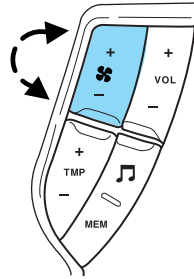
Driver Controls

Climate control features

Press TMP + or - to adjust temperature.



Press  + or - to adjust fan speed.



MOON ROOF (IF EQUIPPED)

The moon roof control is located on the overhead console.

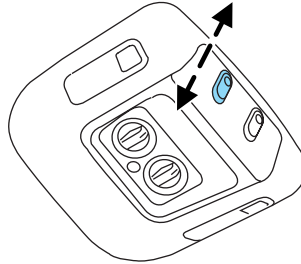


Do not let children play with the moon roof or leave children unattended in the vehicle. They may seriously hurt themselves.

Note: The moon roof will open to the “**comfort**” position first before opening all the way. The “comfort” position helps to alleviate rumbling wind noise which may happen in the vehicle with the roof fully opened.

Driver Controls


To open the moon roof: The moon roof is equipped with a one-touch open feature. Press and release the ▲ control. The moon roof will open to the “comfort” position. Press and release the control again to fully open. To stop the one-touch open feature press either the ▲ or ▼ control again.



To close the moon roof: Press and hold the ▼ control until the glass stops moving. When fully closed, the rear portion of the glass panel will appear higher than the front portion.

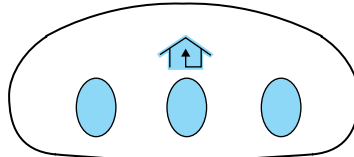
To vent the moon roof: Press and hold the ▼ control. **The moon roof must be in the closed position in order to move it into the vent position.** To close, press and hold the ▲ control until the glass panel stops moving.


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

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

HOMELINK® WIRELESS CONTROL SYSTEM (IF EQUIPPED)

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



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

Driver Controls

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

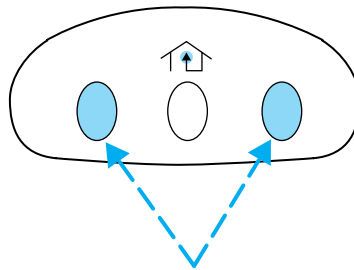
Retain the original transmitter for use in other vehicles as well as for future programming procedures (i.e. new HomeLink® equipped vehicle purchase). It is also suggested that upon the sale of the vehicle, the programmed HomeLink® buttons be erased for security purposes, refer to *Programming* in this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

Programming

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

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

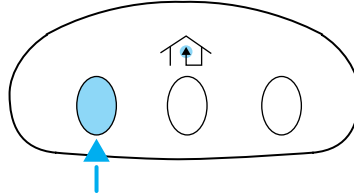
1. Press and hold the two outside buttons releasing only when the indicator light begins to flash after 20 seconds. **Do not** repeat Step 1 to program additional hand-held transmitters to the remaining two HomeLink® buttons. This will erase previously programmed hand-held transmitter signals into HomeLink®.



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

Driver Controls

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



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

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

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

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

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

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

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

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

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

Driver Controls

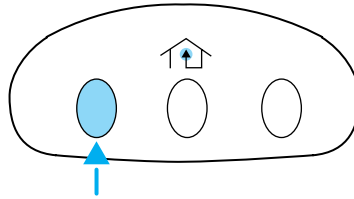
Gate Operator & Canadian Programming

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

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

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

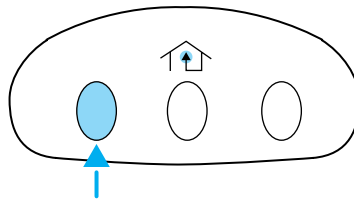
- Continue to press and hold the HomeLink® button (note Step 3 in the “Programming” section) while you press and release — **every two seconds** (“cycle”) your hand-held transmitter until the frequency signal has been accepted by the HomeLink®. The indicator light will flash slowly and then rapidly after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



Operating the HomeLink® Wireless Control System

To operate, simply press and release the appropriate HomeLink® button. Activation will now occur for the trained product (garage door, gate operator, security system, entry door lock, or home or office lighting etc.). For convenience, the hand-held transmitter of the device

may also be used at any time. In the event that there are still programming difficulties, contact HomeLink® at www.homelink.com or **1-800-355-3515**.

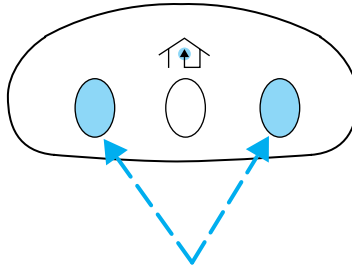


Driver Controls

Erasing HomeLink® buttons

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

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



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

Reprogramming a single HomeLink® button

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

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

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

ELECTRONIC COMPASS/TEMPERATURE DISPLAY WITHOUT MESSAGE CENTER (IF EQUIPPED)

Outside air temperature

In vehicles without Dual Electronic Automatic Temperature Control (DATC), the outside temperature display is contained in the instrument cluster and displays all the time. In vehicles with DATC, the temperature displays in the climate control display.



To turn the display off or change the display from English to Metric see your dealer.

Compass

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

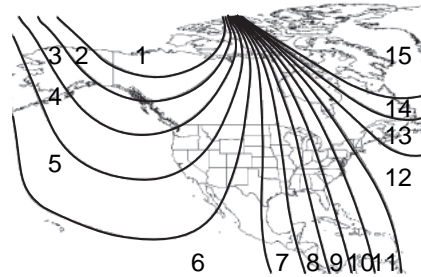
Driver Controls

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* in this section.

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

Compass zone adjustment

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



4. Locate the reset button on the compass sensor mounted on the base of mirror.
5. Press and hold for six seconds and release. You will see that ZONE appears in the instrument cluster display.



6. Press and release the button until the desired zone number appears.

Note: The range of zone values are from 01 to 15 and “wraps” back to 01.

7. The zone will be stored, and the cluster display will return to the “normal” mode when the button has not been pressed for 4 seconds.

Compass calibration adjustment

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

Driver Controls

1. Start the vehicle.
2. Locate the reset button on the compass sensor mounted on the base of mirror.
3. To enter the compass calibration mode, press and hold the button for greater than eight seconds. The display will then show CAL in the display window.
4. Drive the vehicle slowly (less than 3 mph [5 km/h]) in circles until CAL indicator turns off. As many as 5 complete circles may be required.
5. The compass is now calibrated.

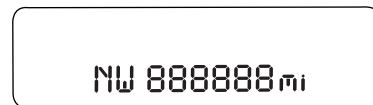


MESSAGE CENTER (IF EQUIPPED)

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

through a constant monitor of vehicle systems. You may select

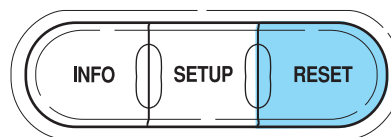
display features on the message center for a display of status preceded by a brief indicator chime. The system will also notify you of potential vehicle problems with a display of system warnings followed by a long indicator chime.



Selectable features

Reset

Press this control to select and reset functions shown in the INFO menu and SETUP menu.

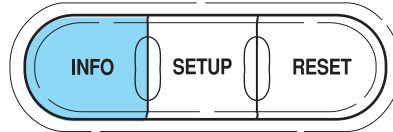


Driver Controls

Info menu

This control displays the following control displays:

- Odometer/Compass
- Trip odometer/Odometer/Compass
- Distance to Empty
- Average Fuel Economy
- Trip Elapsed Drive Time
- Outside air temperature



Odometer/Trip odometer

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

Compass display

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

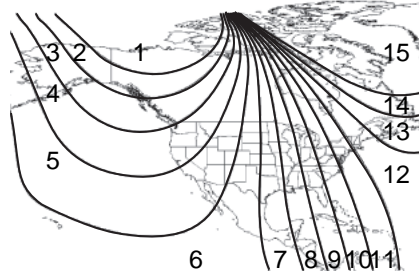
Usually, when something affects the compass readings, the compass will correct itself after a few days of operating your vehicle in normal conditions. If the compass still appears to be inaccurate, a manual calibration may be necessary. Refer to *Compass zone/calibration adjustment*.

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

Driver Controls

Compass zone/calibration adjustment

1. Determine your magnetic zone by referring to the zone map.
2. Turn ignition to the ON position.
3. Start the engine.
4. From Info menu, select the Compass/Odometer function. (Do not select Trip, DTE, or AFE. The top of the message center must be blank).



5. Press and hold the RESET until the message center displays a selection to change the current zone setting.

RESET FOR ZONE
INFO TO EXIT

6. Press and release the RESET control until the message center display changes to show the current zone setting (XX).

SETUP ZONE XX
RESET IF DONE

7. Press and release the SETUP control repeatedly until the correct zone setting for your geographic location is displayed on the message center. The range of zone values are from 1 to 15 and “wraps” back to 1.

8. To exit the zone setting mode, and to “lock in” your change, press and release the RESET control.

RESET FOR CAL
INFO TO EXIT

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

9. Press the RESET control to start the compass calibration function.

10. Slowly drive the vehicle in a circle (less than 3 mph [5 km/h]) until the CIRCLE SLOWLY TO

CIRCLE SLOWLY
TO CALIBRATE

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Driver Controls

CALIBRATE display changes to CALIBRATION COMPLETE. It will take up to five circles to complete calibration.

11. The compass is now calibrated.



CALIBRATION
COMPLETE

Distance to empty (DTE)

Selecting this function from the INFO menu estimates approximately how far you can drive with the fuel remaining in your tank under normal driving conditions.

Remember to turn the ignition OFF when refueling to allow this feature to correctly detect the added fuel.

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

DTE is calculated using a running average fuel economy, which is based on your recent driving history of 500 miles (800 km). This value is not the same as the average fuel economy display. The running average fuel economy is reinitialized to a factory default value if the battery is disconnected.



XXX MILES TO E
NW 000000.0 MI

Average fuel economy (AFE)

Select this function from the INFO menu to display your average fuel economy in miles/gallon or liters/100 km.

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

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



XX MPG
NW 000000.0 MI

Driver Controls

1. Drive the vehicle at least 5 miles (8 km) with the speed control system engaged to display a stabilized average.
2. Record the highway fuel economy for future reference.

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

Trip elapsed drive time

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

To operate the Trip Elapsed Drive Time perform the following:

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



TIME1 XX:XX:XX
NW 000000.0 MI

Outside air temperature (if equipped)

Press and hold the INFO button for 2 seconds to display the outside temperature. To switch from a blank display to the temperature display, hold the INFO button for 2 seconds until the temperature is seen in the display. To switch the temperature display to compass display, hold the INFO button again for 2 seconds until the compass heading is seen in the display

To turn the display off or change the display from English to metric see your authorized dealer.

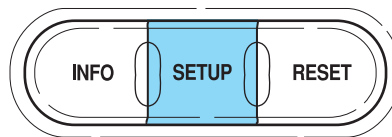


73°F
NW 000000.0 MI

Setup menu

Press this control for the following displays:

- System Check
- Units (English/Metric)
- Autolock
- Easy Exit Seat
- Autolamp Delay
- Language



Driver Controls

Autolocks

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

1. To disable/enable the autolock feature, select this function from the SETUP control for the current display mode.

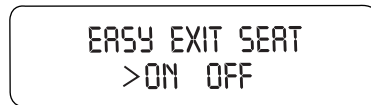


2. Press the RESET control to turn the autolock ON or OFF.

Easy exit seat (if equipped)

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

1. To disable/enable the easy exit seat feature, select this function from the SETUP control for the current display mode.

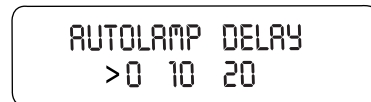


2. Press the RESET control to turn the easy entry exit seat ON or OFF.

Autolamp delay

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

1. To disable/enable the autolamp delay feature, select this function from the SETUP control for the current display mode.



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

Reverse Sensing System (if equipped)

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

1. To disable/enable the reverse sensing system feature, put the vehicle in R (Reverse).



2. Press the RESET control to turn the park assist ON or OFF.

Driver Controls

Language

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

ENGLISH
RESET FOR NEW

2. Pressing the RESET control cycles the message center through each of the language choices.

FOR ENGLISH
HOLD RESET

3. Press and hold the RESET control to set the language choice.

SET TO
ENGLISH

Units (English/Metric)

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

UNITS
> ENG METRIC

2. Press the RESET control to change from English to Metric.

System check

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

PRESS RESET
FOR SYS CHECK

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

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

1. DOOR STATUS
2. ENGINE TEMP
3. CHARGING SYSTEM

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Driver Controls

4. OIL PRESSURE
5. BRAKE FLUID LEVEL
6. TIRE PRESSURE SYSTEM (if equipped)
7. ADVANCETRAC® with RSC (if equipped)
8. AIR SUSPENSION SYSTEM (if equipped)
9. WASHER FLUID LEVEL
10. FUEL LEVEL
11. DTE

System warnings

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

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

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

Warning messages that have been reset are divided into three categories:

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

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

Driver Controls

Warning display	Status
Park assist ON/OFF (if equipped)	Warning displays when R (reverse) gear is selected.
Liftgate or liftglass ajar	Warning returns after 10 minutes
Low fuel level	
Check charging system	
Low brake fluid level	
Low oil pressure	
Check engine temperature	
Check AdvTrac (if equipped)	
Temporary 4X4 high	
Low tire pressure (if equipped)	Warning returns after the ignition key is turned from OFF to ON.
Tire pressure monitor fault (if equipped)	
Tire pressure sensor fault (if equipped)	
Check park assist (if equipped)	
Low washer fluid level	
Check air suspension (if equipped)	
Air suspension switched OFF (if equipped)	
Check compass module	
Compass no response	
Check fuel cap	
Door ajar	Will not clear until condition is corrected
Reduced engine power	
Stop engine safely	
Check electronic throttle control or engine fail safe mode	
Park brake engaged	

PARK ASSIST ON/OFF (if equipped). Displayed when the transmission is in R (Reverse) and the Reverse Sensing System is disabled. Refer to *Reverse Sensing System* in this section to enable.

Driver Controls

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

ADVTRAC ON (if equipped). Displayed when the AdvanceTrac® with RSC is ON.

ADVTRAC OFF (if equipped). Displayed when the AdvanceTrac® with RSC is OFF.

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

LIFTGATE OR LIFTGLASS AJAR. Displayed when the liftgate or liftgate glass is not completely closed.

CHECK ENGINE TEMPERATURE. Displayed when the engine coolant is overheating. Stop the vehicle as soon as safely possible, turn off the engine and let it cool. Check the coolant and coolant level. Refer to *Engine coolant* in the *Maintenance and Specifications* chapter. If the warning stays on or continues to come on, contact your authorized dealer as soon as safely possible.

REDUCED ENGINE POWER. Displayed when the engine is overheating. Stop the vehicle as soon as safely possible, turn off the engine. If the warning stays on or continues to come on, contact your authorized dealer as soon as safely possible.

CHECK ELECTRONIC THROTTLE CONTROL or ENGINE FAIL SAFE MODE. Displayed when the engine has defaulted to a “limp-home” operation. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.

STOP ENGINE SAFELY. Displayed when the engine is overheating. Stop the vehicle as soon as safely possible, turn off the engine. If the warning stays on or continues to come on, contact your authorized dealer as soon as safely possible.

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

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

Driver Controls

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

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

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

PARK BRAKE ENGAGED. Displayed when the park brake is engaged. If the warning stays on after the park brake is off, contact your authorized dealer as soon as possible.

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

LOW OIL PRESSURE. Displayed when the engine oil pressure is low. If this warning message is displayed, check the level of the engine oil. Refer to *Engine oil* in the *Maintenance and Specifications* chapter for information about adding engine oil. If the oil level is OK and this warning persists, shut down the engine immediately and contact your authorized dealer for service.

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

CHECK ADVTRAC (if equipped). Displayed when the AdvanceTrac® with RSC system is not operating properly. If this message is displayed on the message center the AdvanceTrac® with RSC system may be partially operable. If this warning stays on while the engine is running, contact your authorized dealer for service as soon as possible. For further information, refer to *AdvanceTrac® with RSC stability enhancement system* in the *Driving* chapter.

Driver Controls

ADVTRAC OFF T/C ON with RSC (if equipped). Displayed on 4x4 vehicles only when 4x4 Low Range is selected. In this mode, the stability enhancement portion of the AdvanceTrac® with RSC is disabled, but the traction enhancement feature remains enabled. For further information, refer to *AdvanceTrac® with RSC stability enhancement system* in the *Driving* chapter.

TEMPORARY 4X4 HIGH. Displayed when the 4X4 system automatically locks to prevent damage from overheating.

CHECK SUSPENSION (if equipped). Displayed when the air suspension system is not operating properly. If this message is displayed while driving, pull off the road as soon as safely possible. For more information, refer to *Air suspension* in the *Driving* chapter.

AIR SUSPENSION OFF (if equipped). Displayed when the air suspension switch is in the OFF position. For more information, refer to *Air suspension* in the *Driving* chapter.

CHECK FUEL CAP. Displayed when the fuel filler cap is not properly installed. Check the fuel filler cap for proper installation. Refer to *Fuel filler cap* in the *Maintenance and Specifications* chapter.

CHECK COMPASS MODULE. Displayed when the compass is not operating properly. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.

COMPASS NO RESPONSE. Displayed when the compass is not operating properly. If the warning stays on or continues to come on, contact your authorized dealer as soon as possible.

DATA ERR. These messages indicate improper operation of the vehicle network communication between electronic modules.

- Fuel computer
- Charging system
- Door sensor
- Compass
- Outside temperature
- Engine sensor

Contact your authorized dealer as soon as possible if these messages occur on a regular basis.

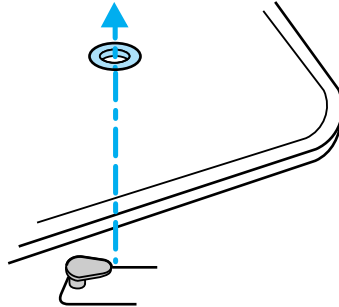
Driver Controls

POSITIVE RETENTION FLOOR MAT (IF EQUIPPED)



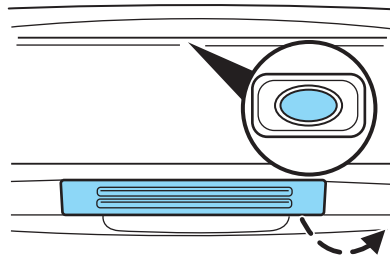
Do not install additional floor mats on top of the factory installed floor mats as they may interfere with the accelerator or the brake pedals.

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



LIFTGATE

- To open the liftgate window, push the control button under the center of the license plate lamp shield.
- To open the liftgate, position your hand on top of the liftgate handle and pull to open the liftgate.
- Do not open the liftgate or liftgate glass in a garage or other enclosed area with a low ceiling.



If the liftgate glass is raised and the liftgate is also opened, both liftgate and glass could be damaged against a low ceiling.

- Do not leave the liftgate or liftgate glass open while driving. Doing so could cause serious damage to the liftgate and its components as well as allowing carbon monoxide to enter the vehicle.



Do not grab or pull the liftgate handle from the bottom. Doing so may cause wrist or arm injury.

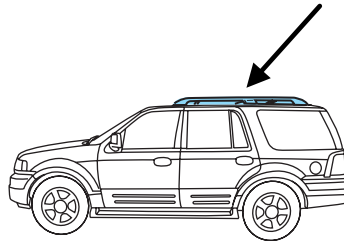
Driver Controls



Make sure the liftgate is closed to prevent exhaust fumes from being drawn into the vehicle. If you must drive with the liftgate open, keep the vents open so outside air comes into the vehicle.

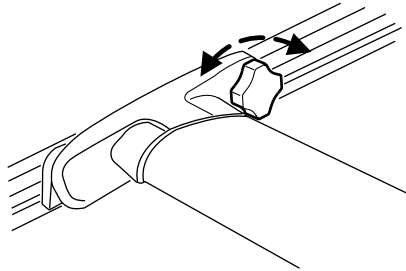
LUGGAGE RACK

Your vehicle is equipped with a roof rack. The maximum recommended load is 200 lbs (90 kg), evenly distributed. If it is not possible to distribute the load, position it as far rearward as possible.



To adjust cross-bar position (if equipped):

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



Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are not designed for cornering at speeds as high as passenger cars any more than low-slung sport cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increase risk of loss of vehicle control, vehicle rollover, personal injury and death.

Locks and Security

KEYS

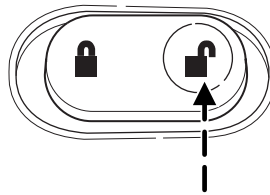
One key operates all the locks and starts the vehicle. Always carry a spare key with you in case of an emergency.

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

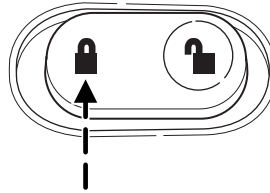
POWER DOOR LOCKS

If the door does not unlock when the control is pressed, refer to the *Power door lock disable feature* section in this chapter.

Press control to unlock all doors.



Press control to lock all doors.



Smart unlocking feature

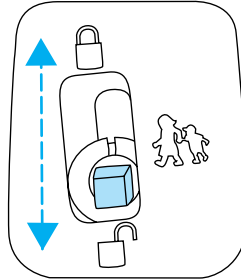
The smart unlocking feature helps prevent you from locking yourself out of the vehicle. With the key in any ignition position, the driver's door will automatically unlock if it is locked using the power lock control on the driver's door panel while the driver's door is open.

Locks and Security

CHILDPROOF DOOR LOCKS

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

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



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

REMOTE ENTRY SYSTEM

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

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

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

The remote entry lock/unlock feature operates in any ignition position.

The liftgate glass feature operates as long as vehicle speed is less than 5 mph (8 km/h). The panic feature operates with the key in the 1 (OFF/LOCK) position.

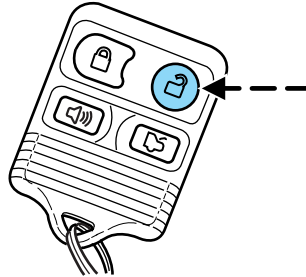
If there is any potential remote keyless entry problem with your vehicle, ensure **ALL** remote entry transmitters are brought to the authorized dealer, to aid in troubleshooting.

Locks and Security

Unlocking the doors/liftgate

Press this control to unlock the driver's door. The interior lamps will illuminate with the ignition is in the 1 (OFF/LOCK) position.

Press the control a second time within three seconds to unlock all doors and liftgate.

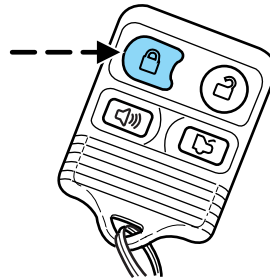


Locking the doors/liftgate

Press this control to lock all doors and liftgate. The park/turn signal lamps will flash once.

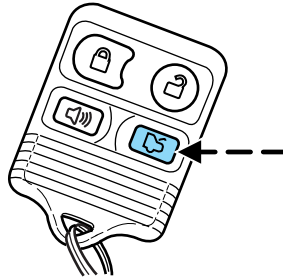
To confirm all doors are closed and locked, press the control a second time within three seconds; the park/turn signal lamps will flash once and the horn will chirp.

If any of the doors or liftgate are ajar, the horn will make two quick chirps, reminding you to properly close all doors.



Opening the liftgate window

Press the control to unlatch the liftgate window.



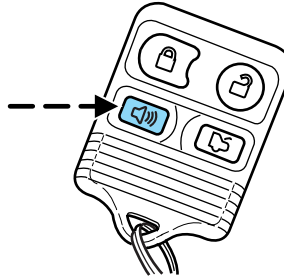
Locks and Security

Sounding a panic alarm

Press this control to activate the alarm.

The personal panic alarm will cycle the horn and parking lamps on/off.

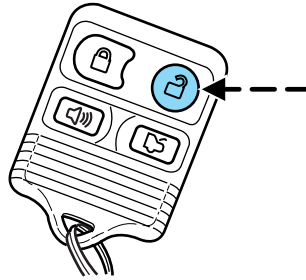
To deactivate the alarm, press the control again or turn the ignition to the 2 (ACCESSORY) or 3 (ON) position.



Memory feature (if equipped)

The remote entry system can also control the memory feature.

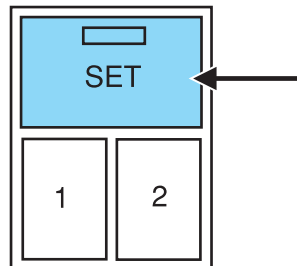
Press the control once to unlock the driver's door. Pressing the control will automatically move the seat, rearview mirrors, and adjustable pedals to the desired memory position (the memory position corresponds to the transmitter being used).



Activating the memory feature

To activate this feature:

1. Position the seat, rearview mirrors, and adjustable pedals to the positions you desire.
2. Press the SET control on the driver's door panel.
3. Within 5 five seconds, press one control on the remote transmitter and then press the 1 or 2 control on the driver's door panel to which you would like to associate with Driver 1 or Driver 2 positions.
4. Repeat this procedure for another remote transmitter if desired.



Locks and Security

Deactivating the memory seat feature

To deactivate this feature:

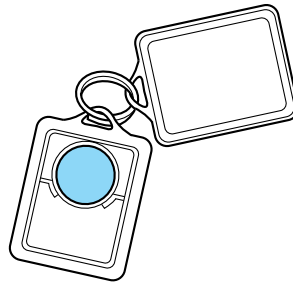
1. Press the SET control on the driver's door panel.
2. Within 5 five seconds, press any control on the remote transmitter which you would like to deactivate and then press the SET control on the driver's door panel.
3. Repeat this procedure for another remote transmitter if desired.

Replacing the battery

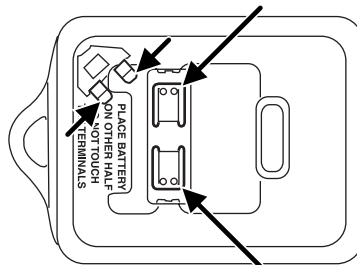
The remote entry transmitter uses one coin type three-volt lithium battery CR2032 or equivalent.

To replace the battery:

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



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



3. Remove the old battery. **Note:** Please refer to local regulations when disposing of transmitter batteries.
4. Insert the new battery. Refer to the diagram inside the remote entry transmitter for the correct orientation of the battery. Press the battery down to ensure that the battery is fully seated in the battery housing cavity.
5. Snap the two halves back together.

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

Replacing lost transmitters

If a remote transmitter has been lost and you would like to remove it from the vehicle's memory, or you would like to purchase additional remote transmitters and have them programmed to your vehicle:

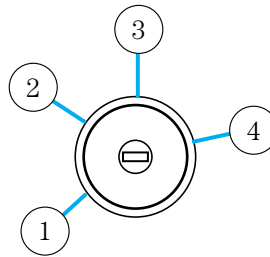
- Take **all** your vehicle's transmitters to your dealer for programming, or
- Perform the programming procedure yourself.

Programming remote transmitters

It is necessary to have **all** (maximum of six — original and/or new) of your remote transmitters available prior to beginning this procedure. If all remote entry transmitters are not present during the programming procedure, the transmitters that are not present during programming will no longer operate the vehicle. **Note:** Do not press the brake pedal anytime during this sequencing, as doing so will invalidate the procedure.

To program the transmitters yourself:

- Unlock all doors using the power door lock/unlock control. Insert a key and turn the ignition from the 1 (OFF/LOCK) to the 3 (ON) position and cycle between 1 (OFF/LOCK) and 3 (ON) eight times in rapid succession (within 10 seconds) with the eighth turn ending in the 3 (ON) position. The locks will cycle to confirm that the programming mode has been entered.
- Within 20 seconds, program a remote transmitter by pressing any button on a transmitter. The locks will cycle once to confirm that the remote transmitter has been programmed. (If more than 20 seconds pass before pressing a remote transmitter button, the programming mode will exit and the procedure will have to be repeated.)
- Repeat the previous step to program additional remote transmitters. The locks will cycle once to confirm that each remote transmitter has been programmed.
- When you have completed programming the remote transmitters, turn the ignition to the 1 (OFF/LOCK) position or wait 20 seconds. Again the doors will lock/unlock to confirm programming has been completed.



Locks and Security

Illuminated entry

The lamps illuminate when the remote entry system is used to unlock the door(s).

The system automatically turns off after 25 seconds or when the ignition is turned to the 2 (ACCESSORY) or 3 (ON) position. The dome lamp control must **not** be set to the off position for the illuminated entry system to operate.

Smart unlocking feature

The smart unlocking feature prevents you from locking yourself out of the vehicle by unlocking the doors if the key is in the ignition and the driver's door is open/ajar when the vehicle doors were locked using the power lock/unlock control.

The smart unlocking feature operates independent of the position of the ignition.

Autolocking feature

The autolocking feature locks all vehicle doors when the following conditions are met:

- All doors, including the liftgate, are closed.
- The brake is pressed while the ignition is in the 3 (ON) position.
- The transmission is in either a forward or reverse gear.
- The vehicle has a speed of 5 mph (8 km/h) or greater.

This feature relocks all doors if any door is opened, the brake is pressed after all doors are closed again and the vehicle has a speed of 5 mph (8 km/h) or greater.

Deactivating/activating the autolock feature

For vehicles equipped with a message center, the autolock feature may be deactivated/activated by selecting the autolock function (accessed by pressing the SETUP control). Press the RESET control to turn the autolock function on or off. Refer to *Message center* in the *Driver Controls* chapter for additional information.

For vehicles not equipped with a message center, the feature may be deactivated by taking your vehicle to an authorized Ford dealer.

KEYLESS ENTRY SYSTEM (IF EQUIPPED)

With the keyless entry keypad, you can:

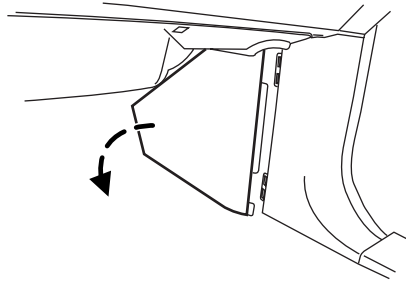
- lock or unlock the vehicle doors without using the key,

Locks and Security

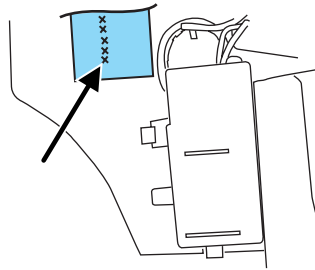
- release the liftgate glass,
- enable or disable the autolock function, and
- add or delete a 5–digit personal user code.

Your vehicle has a factory set 5–digit code that operates the keyless entry system. You can also program your own 5–digit personal entry code. The factory-set code is located:

- on the owner’s wallet card in the glove compartment,
- at your authorized dealer,
- or on the module located under the right-hand side of the instrument panel, adjacent to the passenger compartment fuse panel.



Note: The 5–digit code (e.g. 12345) will be in large, **BOLD** numbers on the module label.



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

Anti-scan feature

If the wrong code has been entered 7 times (35 consecutive button presses), the keypad is disabled for one minute and the keypad lamp will flash during this time. **Note:** Pressing 7 • 8 and the 9 • 0 simultaneously during this one minute period will still lock the vehicle.

The anti-scan feature will turn off after one minute of keypad inactivity.

Locks and Security

Programming your own personal entry code

To program your own code:

1. Enter the factory set code (keypad will illuminate when pressed).
2. Press the 1 • 2 control within five seconds of Step 1.

3. Enter your personal 5–digit code. Enter each digit within five seconds of previous one.



4. After the code is entered, the locks will cycle, confirming that the new code has been set.

Do not set a code that includes five of the same number or presents them in sequential order. Thieves can easily figure out these types of codes.

Your personal code does not replace the permanent code that your authorized dealer gave you. You can use either code to unlock your vehicle. If a second personal code is entered, the module will erase the first personal code in favor of the new code.

If you wish to erase your personal code, use the following instructions:

1. Enter the factory set code.
2. Press the 1 • 2 control and release.

The system will now only respond to the factory set code.

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

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

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

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

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

Activating/deactivating autolock with the keyless entry system

1. Turn the ignition to the 1 (OFF/LOCK) position.
2. Close all the doors, the liftgate and liftgate window.

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3. Enter the 5–digit entry code
4. Press and hold the 7 • 8. While holding the 7 • 8 press the 3 • 4.
5. Release the 3 • 4.
6. Release the 7 • 8.

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

SECURILOCK™ PASSIVE ANTI-THEFT SYSTEM

SecuriLock™ passive anti-theft system is an engine immobilization system. This system is designed to help prevent the engine from being started unless a **coded key programmed to your vehicle** is used.

The SecuriLock™ passive anti-theft system is not compatible with non-Ford aftermarket remote start systems. Use of these systems may result in vehicle starting problems and a loss of security protection.

Theft indicator

The theft indicator is the flashing red indicator located on the dash panel.

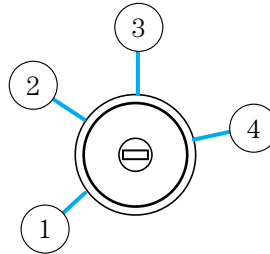
- When the ignition is in the 1 (OFF/LOCK) position, the indicator will flash once every 2 seconds to indicate the SecuriLock™ system is functioning as a theft deterrent.
- When the ignition is in the 3 (ON) position, the indicator will glow for 3 seconds to indicate normal system functionality.

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

Locks and Security

Automatic arming

The vehicle is armed immediately after switching the ignition to the 1 (OFF/LOCK) position.



Automatic disarming

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

Key information

Your vehicle is supplied with **two coded keys**. Only a **coded key** will start your vehicle. Spare coded keys can be purchased from your authorized dealer. Your authorized dealer can program your key or you can “do it yourself.” Refer to the *Programming spare keys* section in this chapter.

The following items may prevent the vehicle from starting:

- Large metallic objects
- Electronic devices on the key chain that can be used to purchase gasoline or similar items
- A second key on the same key ring as the **coded key**

If any of these items are present, you need to keep these objects from touching the **coded key** while starting the engine. These objects and devices cannot damage the **coded key**, but can cause a momentary “no start” condition if they are too close to the key during engine start. If a problem occurs, turn ignition the OFF position and restart the engine with all other objects on the key ring held away from the ignition key. Check to make sure the **coded key** is an approved Ford **coded key**.

If your keys are lost or stolen you will need to do the following:

- Use your spare key to start the vehicle, or
- Have your vehicle towed to a authorized dealer or a locksmith. The key codes will need to be erased from your vehicle and new key codes will need to be re-coded.

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Replacing coded keys can be very costly and you may want to store an extra programmed key away from the vehicle in a safe place to prevent an unforeseen inconvenience.

The correct **coded key** must be used for your vehicle. The use of the wrong type of **coded key** may lead to a “no start” condition.

If an unprogrammed key is used in the ignition it will cause a “no start” condition.

Programming spare keys

A maximum of eight keys can be coded to your vehicle. Only SecuriLock[™] keys can be used. To program a **coded key** yourself, you will need two previously programmed **coded keys** (keys that already operate your vehicle’s engine) and the new unprogrammed key(s) readily accessible for timely implementation of each step in the procedure.

If two previously programmed coded keys are not available, you must bring your vehicle to your authorized dealer to have the spare coded key(s) programmed.

Please read and understand the entire procedure before you begin.

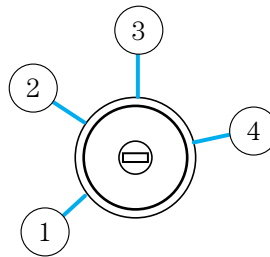
1. Insert the first previously programmed **coded key** into the ignition and turn the ignition from the 1 (OFF/LOCK) to the 3 (ON) position [maintain ignition in 3 (ON) for at least three seconds, but no more than ten seconds].

2. Turn ignition from 3 (ON) back to the 1 (OFF/LOCK) position in order to remove the first **coded key** from the ignition.

3. Within ten seconds of removing the first **coded key**, insert the second previously programmed **coded key** into the ignition and turn the ignition from the 1 (OFF/LOCK) to the 3 (ON) position [maintain ignition in 3 (ON) for at least three seconds but no more than ten seconds].

4. Turn the ignition from the 3 (ON) back to 1 (OFF/LOCK) position in order to remove the second **coded key** from the ignition.

5. Within 10 seconds of removing the second **coded key**, insert the new unprogrammed key (new key/valet key) into the ignition and turn the ignition from the 1 (OFF/LOCK) to the 3 (ON) position [maintain ignition in 3 (ON) for at least three seconds, but no more than ten seconds]. This step will program your new key to a coded key.



Locks and Security

6. To program additional new unprogrammed key(s), repeat this procedure from Step 1.

If successful, the new coded key(s) will start the vehicle's engine and the theft indicator will illuminate for three seconds and then go out.

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

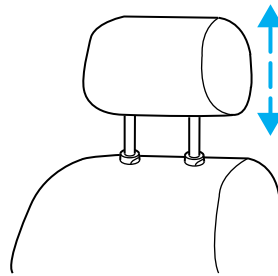
Seating and Safety Restraints

SEATING

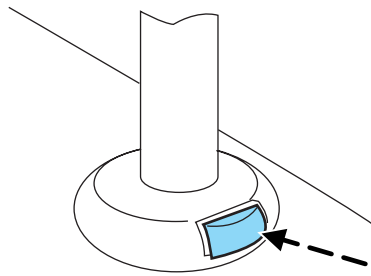
Front row adjustable head restraints (if equipped)

Your vehicle's seats are equipped with two-way adjustable head restraints. The purpose of these head restraints is to help limit head motion in the event of a rear collision. To properly adjust your head restraints, lift the head restraint so that it is located directly behind your head. Refer to the following illustration to raise and lower the head restraints.

The head restraints can be moved up and down.



Push control to lower head restraint.



Adjusting the front manual seat (if equipped)



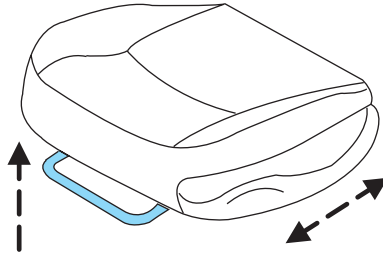
Never adjust the driver's seat or seatback when the vehicle is moving.



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

Seating and Safety Restraints

Lift handle to move seat forward or backward.



Seat recliner

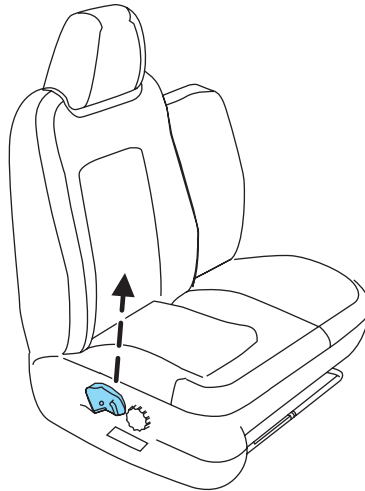


Always drive and ride with your seatback upright and the lap belt snug and low across the hips.



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

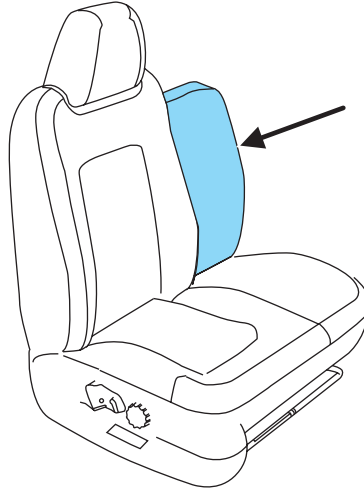
Pull the seatback handle up to recline the seat.



Seating and Safety Restraints

Using the armrest (if equipped)

Push the release control to move the armrest up or down.

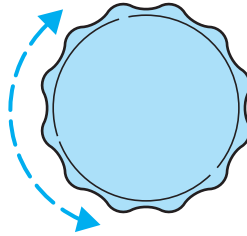


Using the manual lumbar support

The lumbar support control is located on the outboard side of the seat.

Turn the lumbar support control forward for more support.

Turn the lumbar support backward for less support.

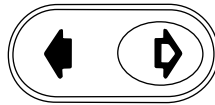


Using the power lumbar support (if equipped)

The power lumbar control is located on the outboard side of the seat.

Press the forward side of the control to adjust firmness.

Press the rear side of the control to adjust softness.



Seating and Safety Restraints

Adjusting the front power seat (if equipped)



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



Do not pile cargo higher than the seatbacks to avoid injuring people in a collision or sudden stop.



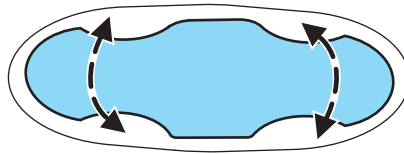
Always drive and ride with your seatback upright and the lap belt snug and low across the hips.



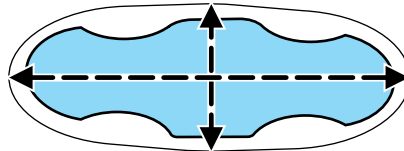
Reclining the seatback can cause an occupant to slide under the seat's safety belt, resulting in severe personal injuries in the event of a collision.

The control is located on the outboard side of the seat cushion.

Press the front or rear portion to tilt the seat.



Press the control to move the seat forward, backward, up or down.

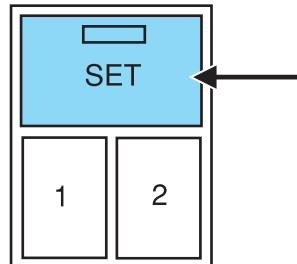


Seating and Safety Restraints

Memory seats/rearview mirrors/adjustable pedals (if equipped)

This system allows automatic positioning of the driver seat, outside rearview mirrors, and adjustable pedals to two programmable positions.

The memory seat control is located on the driver door.



- To program position one, move the driver seat, rearview mirrors, and adjustable pedals to the desired position. Press the SET control. The SET control indicator light will briefly illuminate. While the light is illuminated, press control 1.
- To program position two, repeat the previous procedure using control 2.

A position can only be recalled when the transmission gearshift is in Park or Neutral. A memory position may be programmed at any time.

The memory positions can also be recalled when you press your remote entry transmitter UNLOCK control.

To program the memory function to a specific remote entry transmitter, refer to *Remote entry system* in the *Locks and Security* chapter.

Climate controlled seats operation (if equipped)

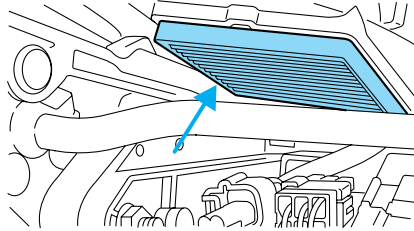
The controls for the climate controlled seats are located on the dual electronic automatic temperature control (DATC) system. Refer to *Climate Controls* for more information.

Climate controlled seats air filter replacement

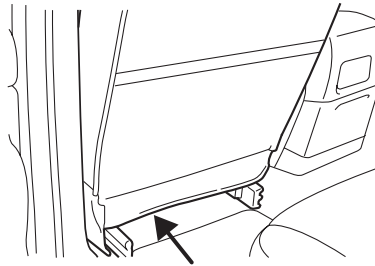
The climate controlled seat system includes an air filter that has to be replaced periodically. Refer to the *scheduled maintenance information* for more information.

Seating and Safety Restraints

- There is a filter located under both front seats.

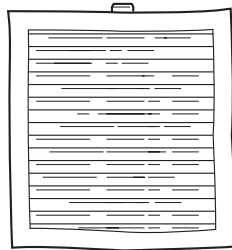
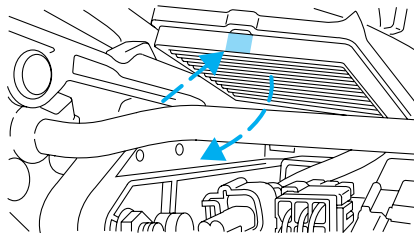


- It can be accessed from the second row seat. Move the front seat all the way forward and up to ease access.



To remove climate controlled seat air filter:

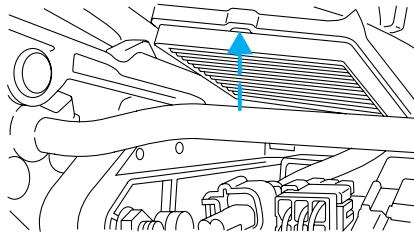
- Remove key from ignition.
- Push on the outside rigid edge of the air filter at the center and rotate downward once tab is released.
- Remove filter.



Seating and Safety Restraints

To install climate controlled seat air filter:

- First, position the filter in it's housing making sure that the far forward end is all the way up in the housing. Then push in on the center of the outside edge of the filter and rotate up into the housing until it clips into position.

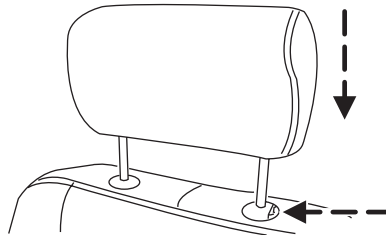


REAR SEATS

Second row seats

Your vehicle's second row outboard seating positions are equipped with head restraints which are vertically adjustable. The purpose of these head restraints is to help limit head motion in the event of a rear collision. To properly adjust your head restraints, lift the head restraint so that it is located directly behind your head or as close to that position as possible.

The head restraints can be raised by lifting. To lower the head restraint, press the release button.



If the head restraint becomes detached, replace the notched bar into the bezel while holding the release button.

Second row folding seat system

Ensure that no objects such as books, purses or briefcases are on the floor in front of the second row seats or on the seat cushion before folding them down. Ensure that the head restraints are lowered.

Move the front passenger seat forward so that the second row seat headrest clears the front seat.

For assistance, refer to the label located on the side of the seat cushion.

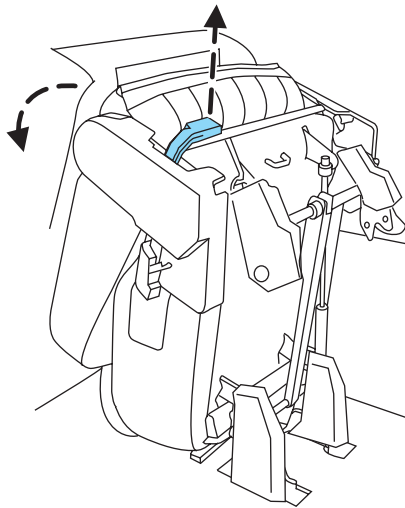
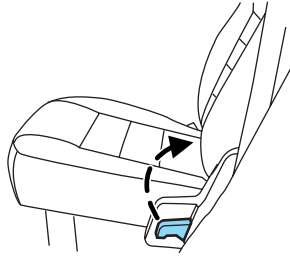
Seating and Safety Restraints

Adjusting the 2nd row outboard seat for E-Z Entry

The 2nd row outboard seats allow for easier entry and exit to and from the 3rd row seat.

To enter the 3rd row seat:

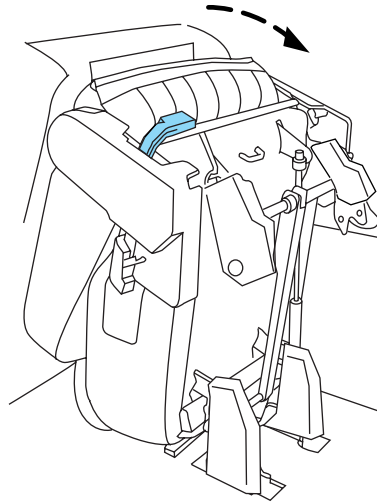
1. Locate the handle on the side of the seat, lifting it to release the seatback.



2. Pull up on the handle located at the back of the seat. The seat will flip forward.

Seating and Safety Restraints

3. To return the seat to a seating position, push down on the seat until the seat is latched to the floor.



4. With the seat in the flat back position, lift up on the lever located on the side of the seat cushion. This will allow the seat back to be lifted to the upright locked position.

5. Lift the seatback to the upright position.



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



Always latch the vehicle seat to the floor, whether the seat is occupied or empty. If not latched, the seat may cause injury during a sudden stop.

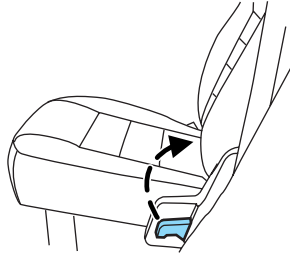
Folding 40% seat system to full lowered load floor position



Use caution when folding the seatback to the flat back position as the system will move forward when you lift the release handle.

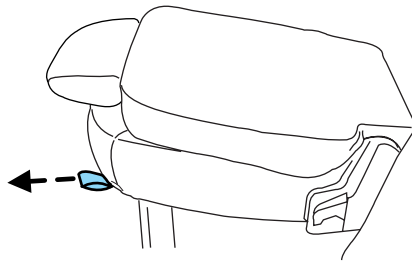
Seating and Safety Restraints

1. Locate the handle on the side of the seat, lifting it to release the seatback.
2. Ensure that the seat back is locked in the down position by applying pressure to the seat back.



3. Locate the latch strap at the front of the seat and pull to release the seat into a kneel down load floor position. A moderate force may be required to move the seat forward and down.

Once the second row seats are in the down position, the front seats may be readjusted.



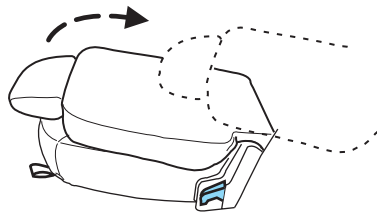
Returning to the upright position from full lowered load floor position

The seatback cannot be returned to the upright position until the seat is returned from the kneel down position. To return the seat to the upright position:


From the full lowered position:

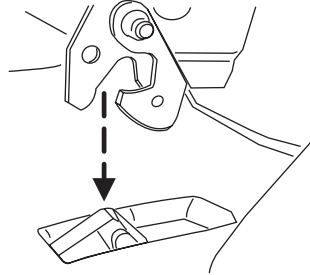
1. Lift and pull the seat rearward until the latch is engaged.

Do not attempt to un-latch the rear floor hooks while the seat is in the kneel down position.

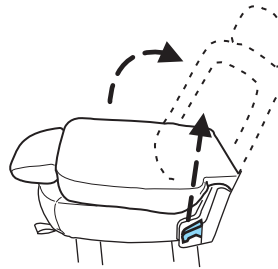



Seating and Safety Restraints

 The rear latch hooks must be properly engaged with the floor striker. Position the rear legs of the seat over the floor strikers and engage.



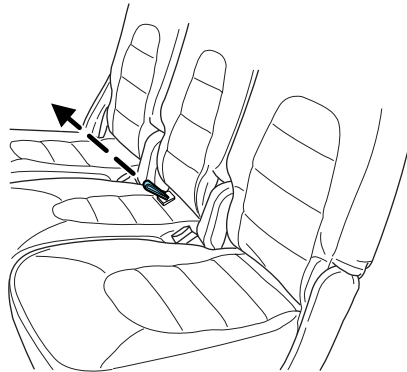
2. With the seat in the flat back position, lift up on the lever located on the side of the seat cushion. This will allow the seat back to be lifted to the upright locked position.




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

Folding the 20% seat system (if equipped)

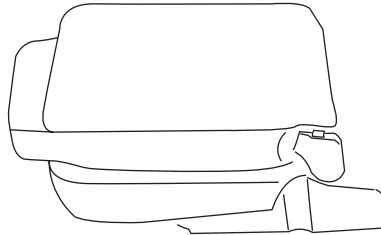
1. Locate the release strap located between the front cushion and the seat back, and pull the strap to release the folding seat latch.




Seating and Safety Restraints

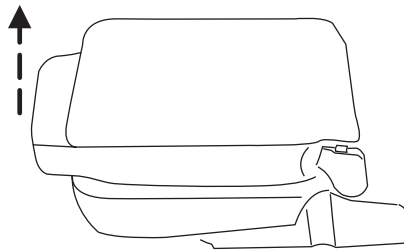
 To prevent possible damage to the seat or safety belts, ensure that the safety belts are not buckled when moving the seat to the load floor position.

2. With the latch released the seatback can be lowered into the load floor position.



3. To return the seat to the upright position, lift the seatback until the latch is fully engaged.

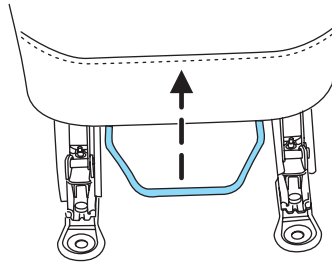
 Before returning the seatback to its original position, make sure that cargo or any objects are not trapped underneath the seatback. After returning the seatback to its original position, pull on the seatback to ensure that it has fully latched. An unlatched seat may become dangerous in the event of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



Seating and Safety Restraints

Adjusting the second row 20% seat (if equipped)

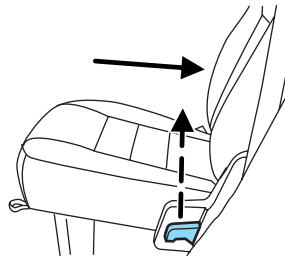
Lift the handle to move the seat forward or backward.



Note: This seat can be moved forward to keep a child in a child restraint close to the front seat occupants. The seat should be moved to the full rearward position when it is occupied by older children or adults.

Reclining the second row 40% seatback

Locate the release handle located on the outboard side of the seat cushion and lift gently to allow the seatback to be adjusted to the desired location.



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

Third row seats

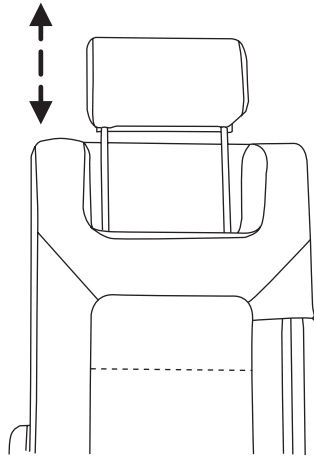
Ensure that no objects such as books, purses or briefcases are on the floor in front of the third row seats or on the seat cushion before lowering them. Ensure that the head restraints are lowered.

Seating and Safety Restraints

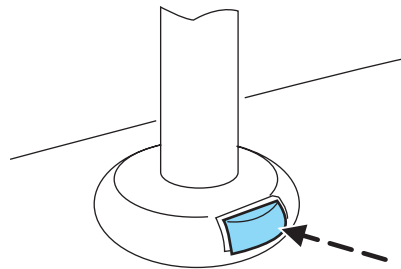
Third row adjustable head restraints

Your vehicle's third row outboard seating positions are equipped with head restraints which are vertically adjustable. The purpose of these head restraints is to help limit head motion in the event of a rear collision. To properly adjust your head restraints, lift the head restraint so that it is located directly behind your head or as close to that position as possible.

The head restraints can be moved up and down.




Push control to lower head restraint.

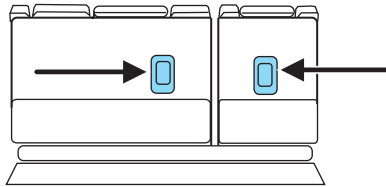


Seating and Safety Restraints

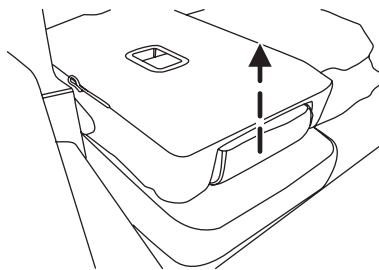
Folding down the third row seat to the load floor

 To prevent possible damage to the seat or safety belts, ensure that the safety belts are not buckled when moving the seat to the load floor position.

Pull up on the handle located behind the seatback while pushing the seatback forward and down into the seat cushion.



To return the seatback to its original position lift the seatback until it latches into place.

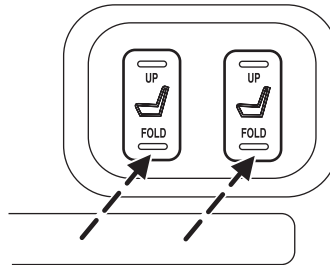


Seating and Safety Restraints

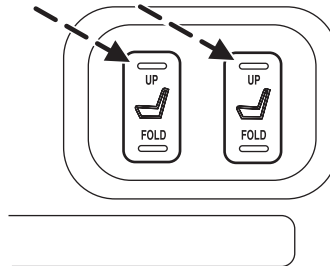
Third row power folding seat (if equipped)

The control buttons are located on the right-hand rear quarter trim panel (accessible from the liftgate area).

Push the bottom portion of the control button to lower the desired seatback.



Push the top of the control button to return the seatback to its original position.



The power fold down seats will operate for 30 minutes after the ignition switch is in Off. The transmission must be in P (park), and the liftgate, or liftgate glass must be open. Similar to the Battery Saver feature, the power 3rd row seat will be disabled 30 minutes after turning the vehicle off. If the power 3rd row seat is disabled after 30 minutes, the seat can be enabled by opening any door, pressing the unlock key on the key fob, pressing any keyless keypad button, or turning the ignition key.

Seating and Safety Restraints

SAFETY RESTRAINTS

Personal Safety System™

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

Your vehicle's Personal Safety System™ consists of:

- Driver and passenger dual-stage airbag supplemental restraints.
- Front safety belts with pretensioners, energy management retractors, and safety belt usage sensors.
- Driver's seat position sensor.
- Front crash severity sensor.
- Restraints Control Module (RCM).
- Restraint system warning light and back-up tone.
- The electrical wiring for the airbags, crash sensor(s), safety belt pretensioners, front safety belt usage sensors, driver seat position sensor, and indicator lights.

How does the Personal Safety System™ work?

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

The fact that the pretensioners or airbags did not activate for both front seat occupants in a collision does not mean that something is wrong with the system. Rather, it means the Personal Safety System™ determined the accident conditions (crash severity, belt usage, etc.) were not appropriate to activate these safety devices. Front airbags are designed to activate only in frontal and near-frontal collisions, not rollovers, side-impacts, or rear-impacts unless the collision causes sufficient longitudinal deceleration.

Driver and passenger dual-stage airbag supplemental restraints

The dual-stage airbags offer the capability to tailor the level of airbag inflation energy. A lower, less forceful energy level is provided for more

Seating and Safety Restraints

common, moderate-severity impacts. A higher energy level is used for the most severe impacts. Refer to *Airbag supplemental restraints* section in this chapter.

Front crash severity sensor

The front crash severity sensor enhances the ability to detect the severity of an impact. Positioned up front, it provides valuable information early in the crash event on the severity of the impact. This allows your Personal Safety System[™] to distinguish between different levels of crash severity and modify the deployment strategy of the dual-stage airbags and safety belt pretensioners.

Driver's seat position sensor

The driver's seat position sensor allows your Personal Safety System[™] to tailor the deployment level of the driver dual-stage airbag based on seat position. The system is designed to help protect smaller drivers sitting close to the driver airbag by providing a lower airbag output level.

Front safety belt usage sensors

The front safety belt usage sensors detect whether or not the driver and front outboard passenger safety belts are fastened. This information allows your Personal Safety System[™] to tailor the airbag deployment and safety belt pretensioner activation depending upon safety belt usage. Refer to *Safety restraints* section in this chapter.

Front safety belt pretensioners

The safety belt pretensioners at the front outboard seating positions are designed to tighten the safety belts firmly against the occupant's body during frontal collisions, and in side collisions and rollovers when the vehicle is equipped with the Safety Canopy[™] system. This maximizes the effectiveness of the safety belts. In frontal collisions, the safety belt pretensioners can be activated alone or, if the collision is of sufficient severity, together with the front airbags.

Front safety belt energy management retractors

The front outboard safety belt energy management retractors allow webbing to be pulled out of the retractor in a gradual and controlled manner in response to the occupant's forward momentum. This helps reduce the risk of force-related injuries to the occupant's chest by limiting the load on the occupant. Refer to *Safety restraints* section in this chapter.

Determining if the Personal Safety System[™] is operational

The Personal Safety System[™] uses a warning light in the instrument cluster or a back-up tone to indicate the condition of the system. Refer

Seating and Safety Restraints

to the *Warning lights and chimes* section in the *Instrument Cluster* chapter. Routine maintenance of the Personal Safety System[™] is not required.

The Restraints Control Module (RCM) monitors its own internal circuits and the circuits for the airbag supplemental restraints, crash sensor(s), safety belt pretensioners, front safety belt buckle sensors, and the driver seat position sensor. In addition, the RCM also monitors the restraints warning light in the instrument cluster. A difficulty with the system is indicated by one or more of the following:

- The warning light will either flash or stay lit.
- The warning light will not illuminate immediately after the ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and warning light are repaired.

If any of these things happen, even intermittently, have the Personal Safety System[™] serviced at an authorized dealer immediately. Unless serviced, the system may not function properly in the event of a collision.

Safety restraints precautions



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



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



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



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



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

Seating and Safety Restraints



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



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



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

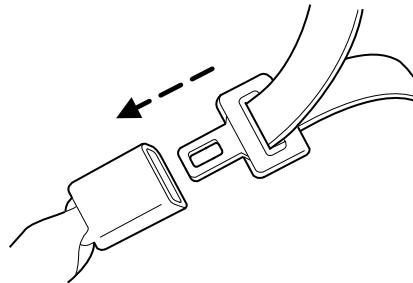


Safety belts and seats can become hot in a vehicle that has been closed up in sunny weather; they could burn a small child. Check seat covers and buckles before you place a child anywhere near them.

Combination lap and shoulder belts

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

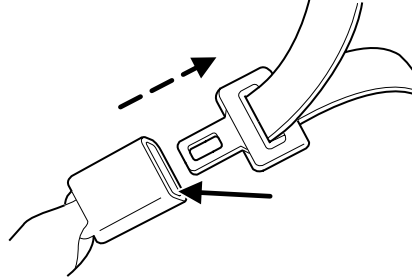
- Front and rear seats



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

Seating and Safety Restraints

- Front and rear seats



All safety restraints in the vehicle are combination lap and shoulder belts with the exception of a 60/40 front split bench seat center lap belt.

First row center lap belt (if equipped)

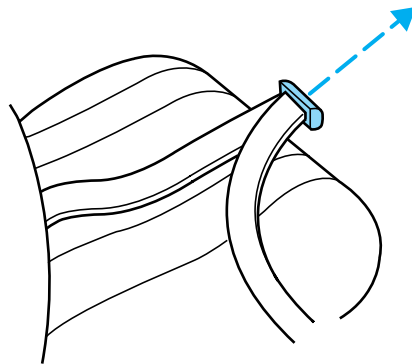
Adjusting the lap belt



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

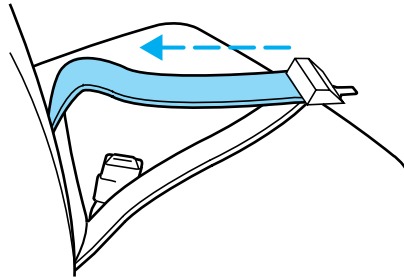
The lap belt does not adjust automatically.

Insert the tongue into the correct buckle (the buckle closest to the direction the tongue is coming from). To lengthen the belt, turn the tongue at a right angle to the belt and pull across your lap until it reaches the buckle. To tighten the belt, pull the loose end of the belt through the tongue until it fits snugly across the hips.



Seating and Safety Restraints

Shorten and fasten the belt when not in use.



All of the passenger combination lap and shoulder belts have two types of locking modes described below:

Vehicle sensitive mode

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

Automatic locking mode

In this mode, the shoulder belt is pre-locked. The belt will still retract to remove any slack in the shoulder belt.

The automatic locking mode is not available on the driver safety belt.

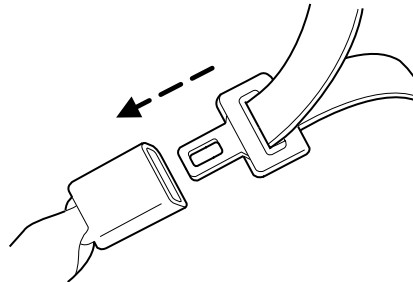
When to use the automatic locking mode

- **Anytime** a child safety seat (except a booster) is installed in the vehicle. Children 12 years old and under should be properly restrained in the rear seat whenever possible. Refer to *Safety restraints for children* or *Safety seats for children* later in this chapter.

Seating and Safety Restraints

How to use the automatic locking mode

1. Buckle the combination lap and shoulder belt.




2. Grasp the shoulder portion and pull downward until the entire belt is pulled out.



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

How to disengage the automatic locking mode

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

 After any vehicle collision, the combination lap and shoulder belt system at all passenger seating positions must be checked by an authorized dealer to verify that the “automatic locking retractor” feature for child seats is still functioning properly, in addition to other checks for proper safety belt system function.

Seating and Safety Restraints



BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED if the safety belt assembly “automatic locking retractor” feature or any other safety belt function is not operating properly. In addition, all safety belts should be checked for proper function. Failure to replace the belt and retractor assembly could increase the risk of injury in collisions.

Safety belt pretensioner

Your vehicle is equipped with safety belt pretensioners at the driver and right front passenger seating positions.

The safety belt pretensioner removes some slack from the safety belt system at the start of a crash. The safety belt pretensioner uses the same crash sensor system as the front airbags and optional Safety Canopy™ system. When the safety belt pretensioner deploys, the lap and shoulder belt are tightened.

When the optional Safety Canopy™ system and/or the front airbags are activated, the safety belt pretensioners for the driver and right front passenger seating positions will be activated when the respective seatbelt is properly buckled.



The driver and the right front passenger safety belt system (including retractors, buckles and height adjusters) must be replaced if the vehicle is involved in a collision that results in deployment of front airbags or Safety Canopy™ and safety belt pretensioners.

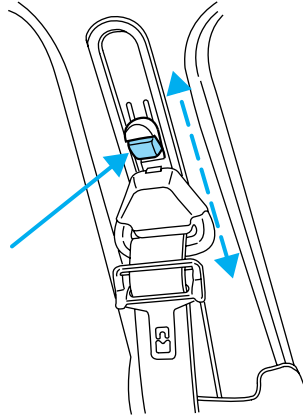
Refer to the *Safety belt maintenance* section in this chapter.


Seating and Safety Restraints

Front and second row safety belt height adjustment

Your vehicle has safety belt height adjustments for the driver, right front passenger and second row outboard passengers. Adjust the height of the shoulder belt so the belt rests across the middle of your shoulder.

To lower the shoulder belt height, push the button and slide the height adjuster down. To raise the height of the shoulder belt, push the button and slide the height adjuster up. Pull down on the height adjuster to make sure it is locked in place.




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

Safety belt extension assembly

If the safety belt is too short when fully extended, there is a 8 inch (20 cm) safety belt extension assembly that can be added (part number 611C22). This assembly can be obtained from an authorized dealer.

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

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

Safety belt maintenance

Inspect the safety belt systems periodically to make sure they work properly and are not damaged. Inspect the safety belts to make sure

Seating and Safety Restraints

there are no nicks, tears or cuts. Replace if necessary. All safety belt assemblies, including retractors, buckles, front safety belt buckle assemblies, buckle support assemblies (slide bar-if equipped), shoulder belt height adjusters, shoulder belt guide on seatback (if equipped), child safety seat LATCH and tether anchors, and attaching hardware, should be inspected after a collision. Ford Motor Company recommends that all safety belt assemblies in use in vehicles involved in a collision be replaced. However, if the collision was minor and an authorized dealer finds that the belts do not show damage and continue to operate properly, they do not need to be replaced. Safety belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

Refer to *Interior* in the *Cleaning* chapter.

Safety belt warning light and indicator chime

The safety belt warning light illuminates in the instrument cluster and a chime sounds to remind the occupants to fasten their safety belts.

Conditions of operation

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

BeltMinder®

The BeltMinder® feature is a supplemental warning to the safety belt warning function. This feature provides additional reminders to the driver that the driver's safety belt is unbuckled by intermittently sounding a chime and illuminating the safety belt warning lamp in the instrument cluster.

Seating and Safety Restraints

If...	Then...
The driver's safety belt is not buckled approximately 5 seconds after the safety belt warning light has turned off...	The BeltMinder® feature is activated - the safety belt warning light illuminates and the warning chime sounds for 6 seconds every 30 seconds, repeating for approximately 5 minutes or until safety belt is buckled.
The driver's safety belt is buckled while the safety belt indicator light is illuminated and the safety belt warning chime is sounding...	The BeltMinder® feature will not activate.
The driver's safety belt is buckled before the ignition switch is turned to the ON position...	The BeltMinder® feature will not activate.


The purpose of the BeltMinder® is to remind occasional wearers to wear safety belts all of the time.

The following are reasons most often given for not wearing safety belts: (All statistics based on U.S. data)

Reasons given...	Consider...
"Crashes are rare events"	36 700 crashes occur every day. The more we drive, the more we are exposed to "rare" events, even for good drivers. <i>1 in 4 of us will be seriously injured in a crash during our lifetime.</i>
"I'm not going far"	3 of 4 fatal crashes occur within 25 miles of home.
"Belts are uncomfortable"	We design our safety belts to enhance comfort. If you are uncomfortable - try different positions for the safety belt upper anchorage and seatback which should be as upright as possible; this can improve comfort.

Seating and Safety Restraints

Reasons given...	Consider...
"I was in a hurry"	Prime time for an accident. BeltMinder® reminds us to take a few seconds to buckle up.
"Safety belts don't work"	Safety belts , when used properly, reduce risk of death to front seat occupants by 45% in cars , and by 60% in light trucks .
"Traffic is light"	Nearly 1 of 2 deaths occur in single-vehicle crashes , many when no other vehicles are around.
"Belts wrinkle my clothes"	Possibly, but a serious crash can do much more than wrinkle your clothes, particularly if you are unbelted.
"The people I'm with don't wear belts"	Set the example, teen deaths occur 4 times more often in vehicles with TWO or MORE people. Children and younger brothers/sisters imitate behavior they see.
"I have an airbag"	Airbags offer greater protection when used with safety belts. Frontal airbags are not designed to inflate in rear and side crashes or rollovers.
"I'd rather be thrown clear"	Not a good idea. People who are ejected are 40 times more likely to DIE . Safety belts help prevent ejection, WE CAN'T "PICK OUR CRASH".

 Do not sit on top of a buckled safety belt to avoid the BeltMinder® chime. Sitting on the safety belt will increase the risk of injury in an accident. To disable (one-time) or deactivate the BeltMinder® feature please follow the directions stated below.

One time disable

Any time the safety belt is buckled and then unbuckled during an ignition ON cycle, BeltMinder® will be disabled for that ignition cycle only.

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Seating and Safety Restraints

Deactivating/activating the BeltMinder® feature (if equipped)

Read Steps 1 - 4 thoroughly before proceeding with the deactivation/activation programming procedure.

The driver BeltMinder® feature can be deactivated/activated by performing the following procedure:

Before following the procedure, make sure that:

- The parking brake is set
- The gearshift is in P (Park) (automatic transmission)
- The ignition switch is in the OFF position
- The driver safety belt is unbuckled

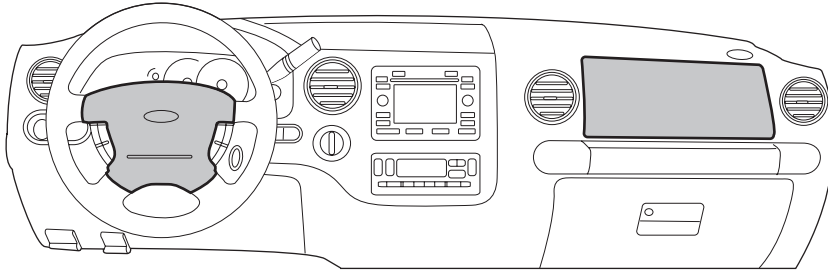


To reduce the risk of injury, do not deactivate/activate the BeltMinder® feature while driving the vehicle.

1. Turn the ignition switch to the RUN (or ON) position. (DO NOT START THE ENGINE)
2. Wait until the safety belt warning light turns off. (Approximately 1 minute)
 - Step 3 must be completed within 50 seconds after the safety belt warning light turns off.
3. At a moderate speed, buckle then unbuckle the safety belt 9 times, ending in the unbuckled state. (Step 3 must be completed within 50 seconds after the safety belt warning light turns off.)
 - After Step 3, the restraint system warning light (airbag light) will be turned on for three seconds.
4. Within 10 seconds of the light turning on, at a moderate speed, buckle then unbuckle the safety belt.
 - This will disable the BeltMinder® feature for that seating position if it is currently enabled. As confirmation, the restraint system warning light will flash 4 times per second for 3 seconds.
 - This will enable the BeltMinder® feature for that seating position if it is currently disabled. As confirmation, the restraint system warning light will flash 4 times per second for 3 seconds, followed by 3 seconds with the light off, then followed by the restraint system warning light flashing 4 times per second for 3 seconds again.

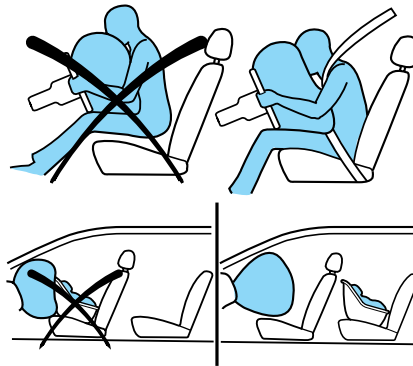
Seating and Safety Restraints


AIRBAG SUPPLEMENTAL RESTRAINT SYSTEM (SRS)





Important SRS precautions

The SRS is designed to work with the safety belt to help protect the driver and right front passenger from certain upper body injuries. Airbags DO NOT inflate slowly; there is a risk of injury from a deploying airbag.



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

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

 The National Highway Traffic Safety Administration (NHTSA) recommends a minimum distance of at least 10 inches (25 cm) between an occupant's chest and the driver airbag module.

Seating and Safety Restraints



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

To properly position yourself away from the airbag:

- Move your seat to the rear as far as you can while still reaching the pedals comfortably.
- Recline the seat slightly one or two degrees from the upright position.



Do not put anything on or over the airbag module. Placing objects on or over the airbag inflation area may cause those objects to be propelled by the airbag into your face and torso causing serious injury.



Do not attempt to service, repair, or modify the airbag supplemental restraint systems or its fuses. See your authorized dealer.



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



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

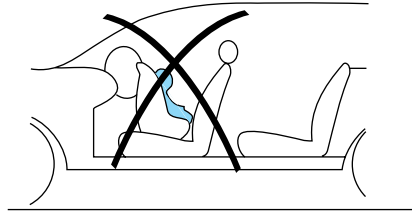


Additional equipment may affect the performance of the airbag sensors increasing the risk of injury.

Seating and Safety Restraints

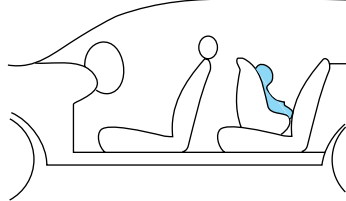
Children and airbags

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



Airbags can kill or injure a child in a child seat.

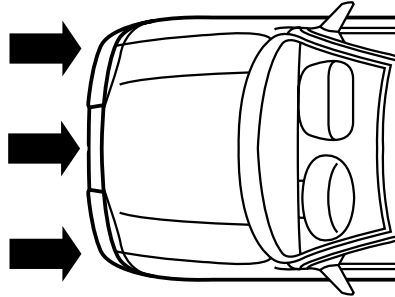
NEVER place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.



How does the airbag supplemental restraint system work?

The airbag SRS is designed to activate when the vehicle sustains longitudinal deceleration sufficient to cause the sensors to close an electrical circuit that initiates airbag inflation.

The fact that the airbags did not inflate in a collision does not mean that something is wrong with the system. Rather, it means the forces were not of the type sufficient to cause activation. The driver and passenger airbags are designed to inflate in frontal and near-frontal collisions, not rollover, side-impact, or rear-impacts unless the collision causes sufficient longitudinal deceleration.



Seating and Safety Restraints

The airbags inflate and deflate rapidly upon activation. After airbag deployment, it is normal to notice a smoke-like, powdery residue or smell the burnt propellant. This may consist of cornstarch, talcum powder (to lubricate the bag) or sodium compounds (e.g., baking soda) that result from the combustion process that inflates the airbag. Small amounts of sodium hydroxide may be present which may irritate the skin and eyes, but none of the residue is toxic.



While the system is designed to help reduce serious injuries, contact with a deploying airbag may also cause abrasions, swelling or temporary hearing loss. Because airbags must inflate rapidly and with considerable force, there is the risk of death or serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of airbag deployment. Thus, it is extremely important that occupants be properly restrained as far away from the airbag module as possible while maintaining vehicle control.



Several air bag system components get hot after inflation. Do not touch them after inflation.



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

The SRS consists of:

- driver and passenger airbag modules (which include the inflators and airbags),
- one or more impact and safing sensors and diagnostic monitor (RCM),
- a readiness light and tone
- the electrical wiring which connects the components.

The RCM (restraints control module) monitors its own internal circuits and the supplemental airbag electrical system wiring (including the

Seating and Safety Restraints

impact sensors, the system wiring, the airbag system readiness light, the airbag back up power and the airbag ignitors).

Determining if the system is operational

The SRS uses a readiness light in the instrument cluster or a tone to indicate the condition of the system. Refer to *Airbag readiness* section in the *Instrument Cluster* chapter. Routine maintenance of the airbag is not required.


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

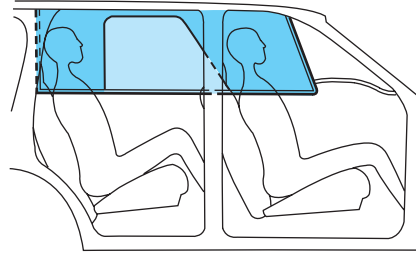
- The readiness light will either flash or stay lit.
- The readiness light will not illuminate immediately after ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and/or light are repaired.





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

Safety Canopy™ system (if equipped)


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




 Do not lean your head on the door. The Safety Canopy™ could injure you as it deploys from the headliner.

 Do not attempt to service, repair, or modify the Safety Canopy™ system, its fuses, the A, B, or C pillar trim, or the headliner on a vehicle containing a Safety Canopy™. See your authorized dealer.

Seating and Safety Restraints

 All occupants of the vehicle including the driver should always wear their safety belts even when an airbag SRS and Safety Canopy™ system is provided.

 To reduce risk of injury, do not obstruct or place objects in the deployment path of the inflatable Safety Canopy™.

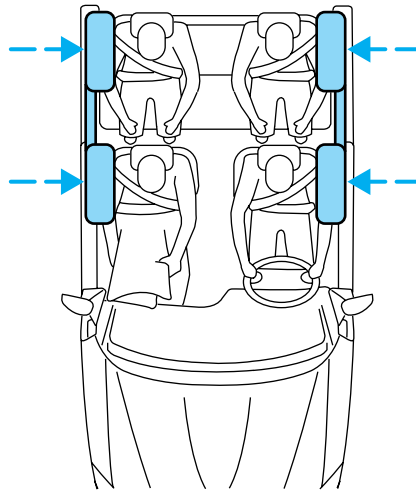
How does the Safety Canopy™ system work?

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

The Safety Canopy™ system consists of the following:

- An inflatable nylon curtain with a gas generator concealed behind the headliner and above the doors (one on each side of vehicle).
- A headliner designed to flex open above the side doors to allow Safety Canopy™ deployment.
- The same warning light, electronic control and diagnostic unit as used for the front airbags.
- Two crash sensors mounted in the front doors (one on each side of the vehicle).
- Two crash sensors located at the c-pillar behind the rear doors (one on each side of the vehicle).
- Rollover sensor in the restraints control module (RCM).

The Safety Canopy™ system, in combination with safety belts, can help reduce the risk of severe injuries in the event of a significant side impact collision or rollover event.




Seating and Safety Restraints

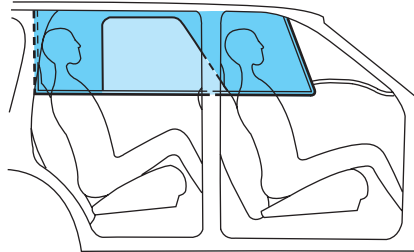
Children 12 years old and under should always be properly restrained in the second or third row seats. The Safety Canopy™ will not interfere with children restrained using a properly installed child or booster seat because it is designed to inflate downward from the headliner above the doors along the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


The Safety Canopy™ system is designed to activate when the vehicle sustains lateral deceleration sufficient to cause the side crash sensor to close an electrical circuit that initiates Safety Canopy™ inflation or when a certain likelihood of a rollover event is detected by the rollover sensor.

The Safety Canopy™ is mounted to roof side-rail sheet metal, behind the headliner, above the first and second row seats. In certain lateral collisions or rollover events, the Safety Canopy™ system will be activated, regardless of which seats are occupied. The Safety Canopy™ is designed to inflate between the side window area and occupants to further enhance protection provided in side impact collisions and rollover events.

The fact that the Safety Canopy™ did not activate in a collision does not mean that something is wrong with the system. Rather, it means the forces were not of the type sufficient to cause activation. The Safety Canopy™ is designed to inflate in certain side impact collisions or rollover events, not in rear impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration or rollover likelihood.

 Several Safety Canopy™ system components get hot after inflation. Do not touch them after inflation.



 If the Safety Canopy™ system has deployed, **the Safety Canopy™ will not function again unless replaced. The Safety Canopy™ system (including the A, B and C pillar trim) must be inspected and serviced by a authorized dealer.** If the Safety Canopy™ is not replaced, the unrepaired area will increase the risk of injury in a collision.

Seating and Safety Restraints

Determining if the system is operational

The SRS uses a readiness light in the instrument cluster or a tone to indicate the condition of the system. Refer to the *Airbag readiness* section in the *Instrument Cluster* chapter. Routine maintenance of the airbag is not required.

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

- The readiness light (same light as for front airbag system) will either flash or stay lit.
- The readiness light will not illuminate immediately after ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and light are repaired.

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

Disposal of airbags and airbag equipped vehicles (including pretensioners)

See your authorized dealer. Airbags MUST BE disposed of by qualified personnel.

SAFETY RESTRAINTS FOR CHILDREN

See the following sections for directions on how to properly use safety restraints for children. Also see *Airbag supplemental restraint system (SRS)* in this chapter for special instructions about using airbags.

Important child restraint precautions

You are required by law to use safety restraints for children in the U.S. and Canada. If small children (generally children who are four years old or younger and who weigh 40 lb. [18 kg] or less) ride in your vehicle, you must put them in safety seats made especially for children. Many states require that children use approved booster seats until they are eight years old. Check your local and state or provincial laws for specific requirements regarding the safety of children in your vehicle. When possible, always place children under age 12 in the rear seat of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position.

Seating and Safety Restraints



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

Always follow the instructions and warnings that come with any infant or child restraint you might use.

Children and safety belts

If the child is the proper size, restrain the child in a safety seat.

Children who are too large for child safety seats (as specified by your child safety seat manufacturer) should always wear safety belts.

Follow all the important safety restraint and airbag precautions that apply to adult passengers in your vehicle.

If the shoulder belt portion of a combination lap and shoulder belt can be positioned so it does not cross or rest in front of the child's face or neck, the child should wear the lap and shoulder belt. Moving the child closer to the center of the vehicle may help provide a good shoulder belt fit.



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

Child booster seats

Children outgrow a typical convertible or toddler seat when they weigh 40 lb. (18 kg) and are around 4 years of age. Although the lap/shoulder belt will provide some protection, these children are still too small for lap/shoulder belts to fit properly, which could increase the risk of serious injury in a crash.

To improve the fit of both the lap and shoulder belt on children who have outgrown child safety seats, Ford Motor Company recommends use of a belt-positioning booster.

Booster seats position a child so that safety belts fit better. They lift the child up so that the lap belt rests low across the hips and the knees bend comfortably. Booster seats may also make the shoulder belt fit better and more comfortably. Try to keep the belt near the middle of the shoulder.

When children should use booster seats

Children need to use booster seats from the time they outgrow the toddler seat until they are big enough for the vehicle seat and lap/shoulder belt to fit properly. Generally this is when they weigh about 80 lb. (36 kg) (about 8 to 12 years old).

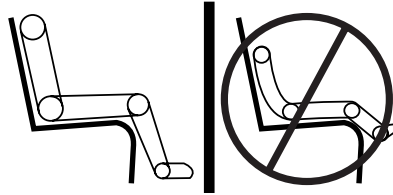
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*2006 Expedition (exd)
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USA (fus)*

Seating and Safety Restraints

Booster seats should be used until you can answer YES to ALL of these questions:

- Can the child sit all the way back against the vehicle seat back with knees bent comfortably at the edge of the seat without slouching?



- Does the lap belt rest low across the hips?
- Is the shoulder belt centered on the shoulder and chest?
- Can the child stay seated like this for the whole trip?

Types of booster seats

There are two types of belt-positioning booster seats:

- Those that are backless.

If your backless booster seat has a removable shield, remove the shield and use the lap/shoulder belt. If a seating position has a low seat back and no head restraint, a backless booster seat may place your child's head (top of ear level) above the top of the seat. In this case, move the backless booster to another seating position with a higher seat back and lap/shoulder belts.



- Those with a high back.

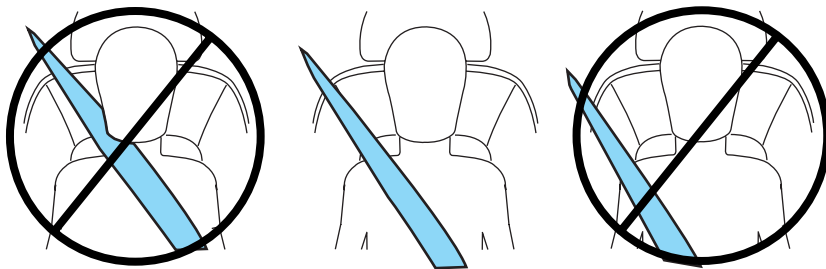
If, with a backless booster seat, you cannot find a seating position that adequately supports your child's head, a high back booster seat would be a better choice.



Either type can be used at any seating position equipped with lap/shoulder belts if your child is over 40 lb. (18 kg).

Seating and Safety Restraints

Children and booster seats vary widely in size and shape. Choose a booster that keeps the lap belt low and snug across the hips, never up across the stomach, and lets you adjust the shoulder belt to cross the chest and rest snugly near the center of the shoulder. The drawings below compare the ideal fit (center) to a shoulder belt uncomfortably close to the neck and a shoulder belt that could slip off the shoulder.



If the booster seat slides on the vehicle seat, placing a rubberized mesh sold as shelf or carpet liner under the booster seat may improve this condition.

The importance of shoulder belts

Using a booster without a shoulder belt increases the risk of a child's head hitting a hard surface in a collision. For this reason, you should never use a booster seat with a lap belt only. It is best to use a booster seat with lap/shoulder belts in the back seat- the safest place for children to ride.



Move a child to a different seating location if the shoulder belt does not stay positioned on the shoulder during use.



Follow all instructions provided by the manufacturer of the booster seat.



Never put the shoulder belt under a child's arm or behind the back because it eliminates the protection for the upper part of the body and may increase the risk of injury or death in a collision.

Seating and Safety Restraints



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

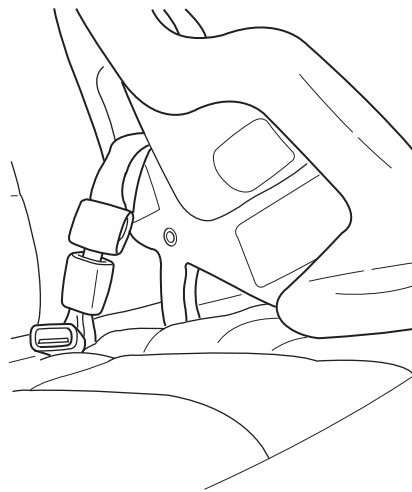
SAFETY SEATS FOR CHILDREN

Child and infant or child safety seats

Use a safety seat that is recommended for the size and weight of the child. Carefully follow all of the manufacturer's instructions with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.

When installing a child safety seat:

- Review and follow the information presented in the *airbag supplemental restraint system* (SRS) section in this chapter.
- Use the correct safety belt buckle for that seating position (the buckle closest to the direction the tongue is coming from).
- Insert the belt tongue into the proper buckle until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.



- Place seat back in upright position.
- Put the safety belt in the automatic locking mode. Refer to *Automatic locking mode* section in this chapter.
- The second row center seat can be moved forward to keep a child in a child restraint close to the front seat occupants. The seat should be moved to the full rearward position when it is occupied by older children or adults.
- LATCH lower anchors are recommended for use by children up to 48 pounds (22 kg) in a child restraint. Top tether anchors can be used

Seating and Safety Restraints

for children up to 60 pounds (27 kg) in a child restraint, and to provide upper torso restraint for children up to 80 pounds (36 kg) using an upper torso harness and a belt-positioning booster.

Ford recommends the use of a child safety seat having a top tether strap. Install the child safety seat in a seating position with LATCH and tether anchors. For more information on top tether straps and anchors, refer to *Attaching safety seats with tether straps* in this chapter. For more information of LATCH anchors refer to *Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments* in this chapter.



Carefully follow all of the manufacturer's instructions included with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.

Installing child safety seats with combination lap and shoulder belts

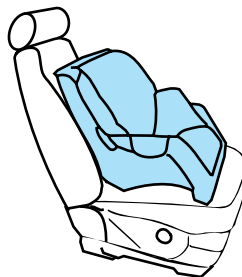


Airbags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.



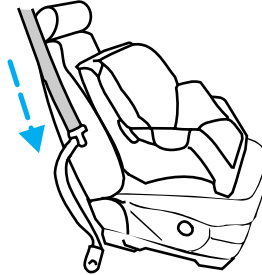
Children 12 and under should be properly restrained in the rear seat whenever possible.

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

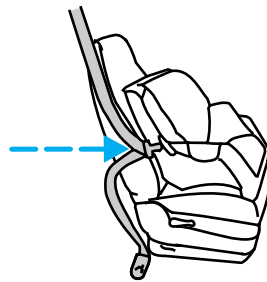


Seating and Safety Restraints

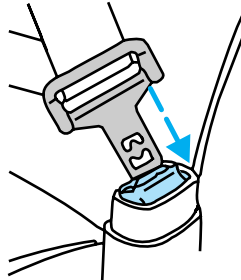
2. Pull down on the shoulder belt and then grasp the shoulder belt and lap belt together.



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

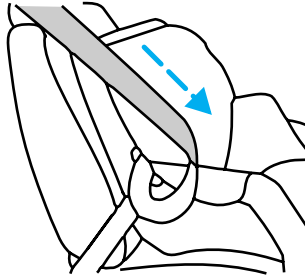


4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.



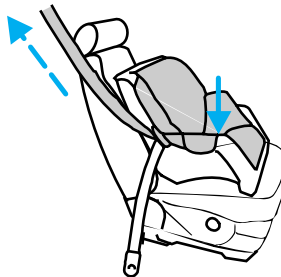
Seating and Safety Restraints

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



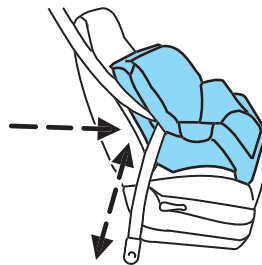
6. Allow the belt to retract. The belt will click as it retracts to indicate it is in the automatic locking mode.

7. Pull the lap belt portion across the child seat toward the buckle and pull up on the shoulder belt while pushing down with your knee on the child seat.



8. Allow the safety belt to retract to remove any slack in the belt.

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



10. Try to pull the belt out of the retractor to make sure the retractor is in the automatic locking mode (you should not be able to pull more belt out). If the retractor is not locked, unbuckle the belt and repeat Steps 2 through 9.

Check to make sure the child seat is properly secured before each use.

Seating and Safety Restraints

Installing child safety seats in the center front seating position (if equipped)



Always transport children 12 years old and under in the rear seats and always properly use appropriate child restraints.



It is safer to install child safety seats in seating positions that have child seat anchors. The front seat has no tether anchor nor does it have LATCH anchors.

1. Lengthen the lap belt. To lengthen the belt, hold the tongue so that its bottom is perpendicular to the direction of webbing while sliding the tongue up the webbing.
2. Place the child safety seat in the center seating position.
3. Route the tongue and webbing through the child seat according to the child seat manufacturer's instructions.
4. Insert the belt tongue into the proper buckle for the center seating position until you hear a snap and feel it latch. Make sure the tongue is securely fastened to the buckle by pulling on tongue.
5. Push down on the child seat with your knee while pulling on the loose end of the lap belt webbing to tighten the belt.
6. Before placing the child into the child seat, forcibly move the child seat from side to side and forward to make sure that the seat is held securely. If the child seat moves excessively, repeat Steps 5 through 6, or properly install the child seat in a different position.

Attaching child safety seats with tether straps

Most new forward-facing child safety seats include a tether strap which goes over the back of the seat and hooks to an anchoring point. Tether straps are available as an accessory for many older safety seats. Contact the manufacturer of your child seat for information about ordering a tether strap.

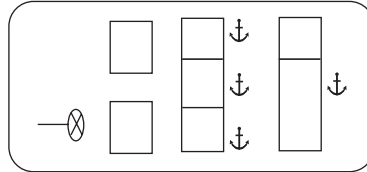
Some of the rear seats of your vehicle are equipped with built-in tether strap anchors located behind the seats as described below.

In the third row center seating position, the tether anchor is a loop at the bottom of the seatback.

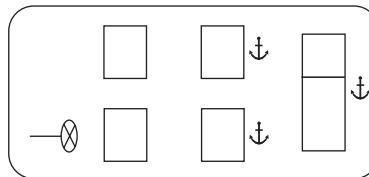
Seating and Safety Restraints

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

- Second row bench seat



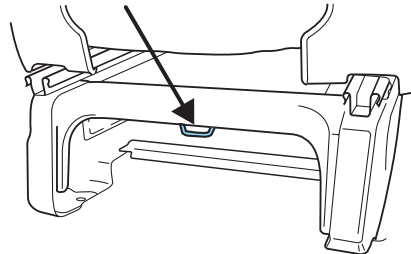
- Second row bucket seats



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

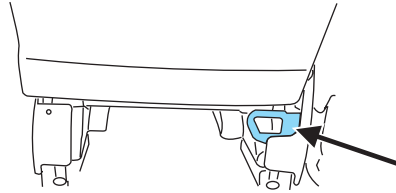
Second row seating positions

1. Position the child safety seat on the seat cushion.
 2. Locate the tether anchor at the bottom back of the seat.
- outboard seating positions



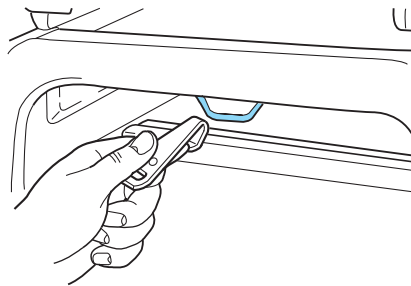
Seating and Safety Restraints

- center seating position (if equipped)

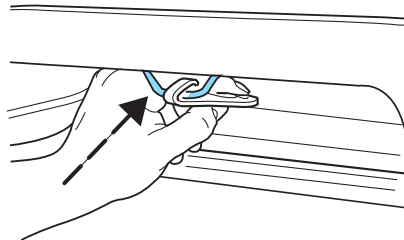


3. Route the child safety seat tether strap under the head restraint (outboard seats) and over the back of the seat.

4. Grasp the tether strap and position it to the seat frame.

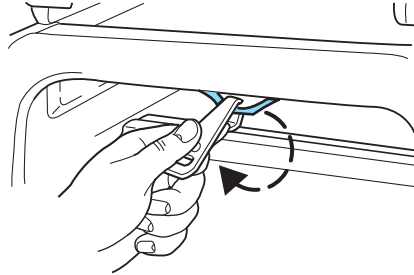


5. Rotate the tether strap, and clip the tether strap to the anchor on the seat frame.



Seating and Safety Restraints

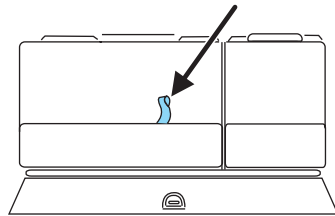
6. Rotate the tether strap clip.



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

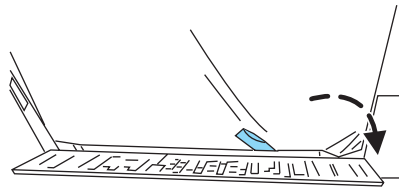
Third row seating position

1. Position the child safety seat on the center of the seat cushion.
2. Route the child safety seat tether strap over the back of the seat.



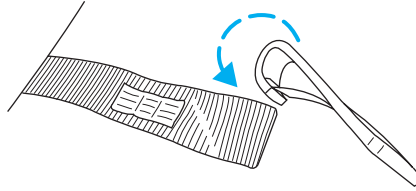
3. Locate the anchor webbing loop for the seating position.


- You may need to pull back the top of the hinged panel along the bottom of the seat back to access the tether anchor.



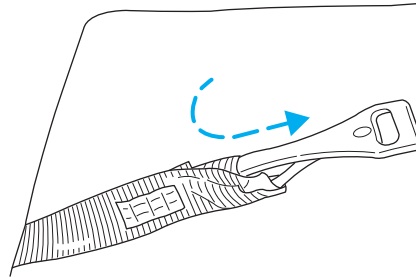
Seating and Safety Restraints

4. Clip the tether strap through the anchor loop as shown.




 If the tether strap is clipped incorrectly, the child safety seat may not be retained properly in the event of a collision.

5. Install the child safety seat tightly using the LATCH anchors or safety belts. Follow the instructions in this chapter.



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

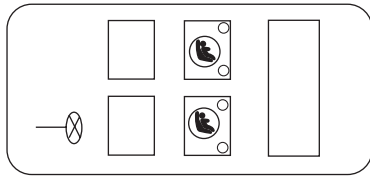
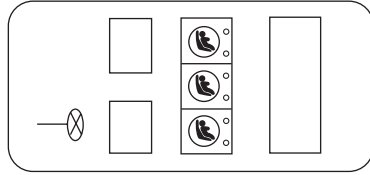
 If the safety seat is not anchored properly, the risk of a child being injured in a collision greatly increases.

Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments for child seat anchors

Some child safety seats have two rigid or webbing mounted attachments that connect to two anchors at certain seating positions in your vehicle. This type of child seat eliminates the need to use safety belts to attach the child seat. For forward-facing child seats, the tether strap must also be attached to the proper tether anchor. See *Attaching safety seats with tether straps* in this chapter.

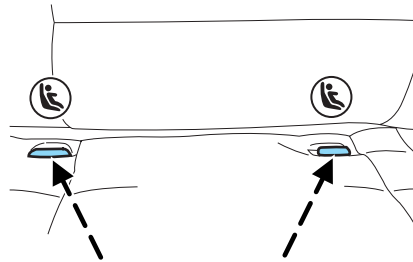
Seating and Safety Restraints

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



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

The lower anchors for child seat installation are located at the rear section of the second row seat between the cushion and seat back. The LATCH anchors are below the locator symbols on the seat back.



Follow the child seat manufacturer's instructions to properly install a child seat with LATCH attachments.

Seating and Safety Restraints



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

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

Each time you use the safety seat, check that the seat is properly attached to the lower anchors and tether anchor. Try to move the child seat from side to side. Also try to tug the seat forward. Check to see if the anchors hold the seat in place.

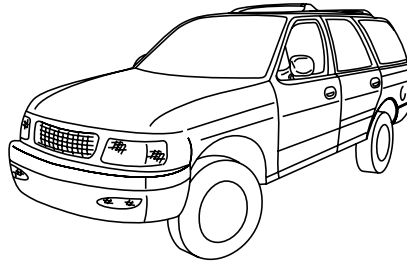



If the safety seat is not anchored properly, the risk of a child being injured in a crash greatly increases.

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NOTICE TO UTILITY VEHICLE AND TRUCK OWNERS

Utility vehicles and trucks handle differently than passenger cars in the various driving conditions that are encountered on streets, highways and off-road. Utility vehicles and trucks are not designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions.



 Utility vehicles have a significantly higher rollover rate than other types of vehicles. To reduce the risk of serious injury or death from a rollover or other crash you must:

- Avoid sharp turns and abrupt maneuvers;
- Drive at safe speeds for the conditions;
- Keep tires properly inflated;
- Never overload or improperly load your vehicle; and
- Make sure every passenger is properly restrained.

 In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. All occupants must wear seat belts and children/infants must use appropriate restraints to minimize the risk of injury or ejection.

Study your *Owner's Guide* and any supplements for specific information about equipment features, instructions for safe driving and additional precautions to reduce the risk of an accident or serious injury.

VEHICLE CHARACTERISTICS

4WD and AWD Systems (if equipped)

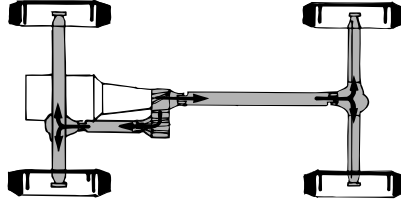
A vehicle equipped with AWD or 4WD (when selected) has the ability to use all four wheels to power itself. This increases traction which may enable you to safely drive over terrain and road conditions that a conventional two-wheel drive vehicle cannot.

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Power is supplied to all four wheels through a transfer case or power transfer unit. 4WD vehicles allow you to select different drive modes as necessary. Information on transfer case operation and shifting procedures can be found in the *Driving* chapter. Information on



transfer case maintenance can be found in the *Maintenance and Specifications* chapter. You should become thoroughly familiar with this information before you operate your vehicle.

On some 4WD models, the initial shift from two-wheel drive to 4WD while the vehicle is moving can cause a momentary clunk and ratcheting sound. These sounds are normal as the front drivetrain comes up to speed and is not cause for concern.

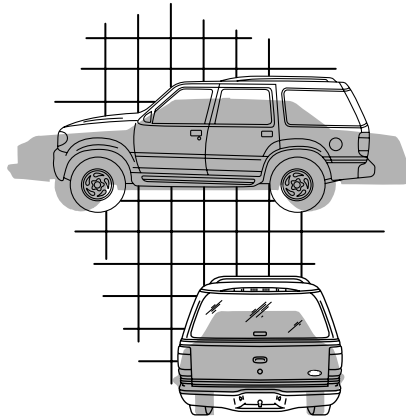


Do not become overconfident in the ability of 4WD and AWD vehicles. Although a 4WD or AWD vehicle may accelerate better than two-wheel drive vehicle in low traction situations, it won't stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

How your vehicle differs from other vehicles

SUV and trucks can differ from some other vehicles in a few noticeable ways. Your vehicle may be:

- Higher – to allow higher load carrying capacity and to allow it to travel over rough terrain without getting hung up or damaging underbody components.
- Shorter – to give it the capability to approach inclines and drive over the crest of a hill without getting hung up or damaging underbody components. All other things held equal, a shorter wheelbase may make your vehicle quicker to respond to steering inputs than a vehicle with a longer wheelbase.

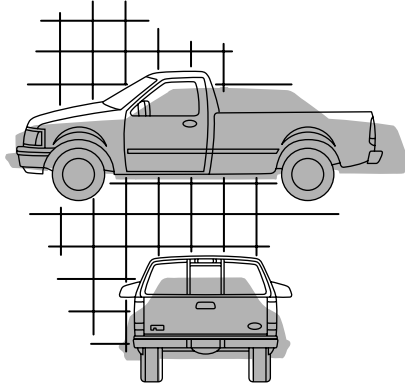


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- Narrower — to provide greater maneuverability in tight spaces, particularly in off-road use.

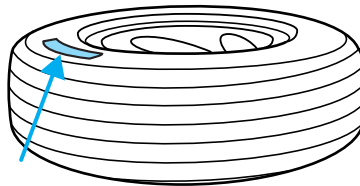
As a result of the above dimensional differences, SUV's and trucks often will have a higher center of gravity and a greater difference in center of gravity between the loaded and unloaded condition.

These differences that make your vehicle so versatile also make it handle differently than an ordinary passenger car.



INFORMATION ABOUT UNIFORM TIRE QUALITY GRADING

New vehicles are fitted with tires that have a rating on them called Tire Quality Grades. The Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:



- **Treadwear 200 Traction AA Temperature A**

These Tire Quality Grades are determined by standards that the United States Department of Transportation has set.

Tire Quality Grades apply to new pneumatic tires for use on passenger cars. They do not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, tires with nominal rim diameters of 10 to 12 inches or limited production tires as defined in Title 49 Code of Federal Regulations Part 575.104(c)(2).

U.S. Department of Transportation-Tire quality grades: The U.S. Department of Transportation requires Ford Motor Company to give you the following information about tire grades exactly as the government has written it.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified

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government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climate.

Traction AA A B C

The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.



The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning or peak traction characteristics.

Temperature A B C

The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.



The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

TIRES

Tires are designed to give many thousands of miles of service, but they must be maintained in order to get the maximum benefit from them.

Glossary of tire terminology

- **Tire label:** A label showing the OE (Original Equipment) tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.

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- **Tire Identification Number (TIN):** A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.
- **Inflation pressure:** A measure of the amount of air in a tire.
- **Standard load:** A class of P-metric or Metric tires designed to carry a maximum load at 35 psi [37 psi (2.5 bar) for Metric tires]. Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.
- **Extra load:** A class of P-metric or Metric tires designed to carry a heavier maximum load at 41 psi [43 psi (2.9 bar) for Metric tires]. Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.
- **kPa:** Kilopascal, a metric unit of air pressure.
- **PSI:** Pounds per square inch, a standard unit of air pressure.
- **Cold inflation pressure:** The tire pressure when the vehicle has been stationary and out of direct sunlight for an hour or more and prior to the vehicle being driven for 1 mile (1.6 km).
- **Recommended inflation pressure:** The cold inflation pressure found on the Safety Compliance Certification Label or Tire Label located on the B-Pillar or the edge of the driver's door.
- **B-pillar:** The structural member at the side of the vehicle behind the front door.
- **Bead area of the tire:** Area of the tire next to the rim.
- **Sidewall of the tire:** Area between the bead area and the tread.
- **Tread area of the tire:** Area of the perimeter of the tire that contacts the road when mounted on the vehicle.
- **Rim:** The metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

INFLATING YOUR TIRES

Safe operation of your vehicle requires that your tires are properly inflated. Remember that a tire can lose up to half of its air pressure without appearing flat.

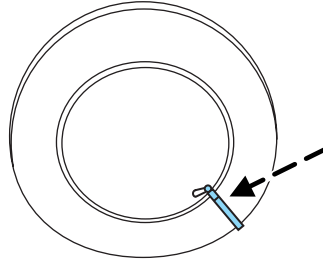
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Every day before you drive, check your tires. If one looks lower than the others, use a tire gauge to check pressure of all tires and adjust if required.

At least once a month and before long trips, inspect each tire and check the tire pressure with a tire gauge (including spare, if equipped). Inflate all tires to the inflation pressure recommended by Ford Motor Company.



Use a tire gauge to check the tire inflation pressure, including the spare (if equipped), at least monthly and before long trips. You are strongly urged to buy a reliable tire pressure gauge, as automatic service station gauges may be inaccurate. Ford recommends the use of a digital or dial type tire pressure gauge rather than a stick type tire pressure gauge.

Use the recommended cold inflation pressure for optimum tire performance and wear. Under-inflation or over-inflation may cause uneven treadwear patterns.



Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or "blowout", with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!

Always inflate your tires to the Ford recommended inflation pressure even if it is less than the maximum inflation pressure information found on the tire. The Ford recommended tire inflation pressure is found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. Failure to follow the tire pressure recommendations can cause uneven treadwear patterns and adversely affect the way your vehicle handles.

Maximum Permissible Inflation Pressure is the tire manufacturer's maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label or Tire Label which is located on

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the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the Safety Compliance Certification Label or Tire Label.

When weather temperature changes occur, tire inflation pressures also change. A 10° F (6° C) temperature drop can cause a corresponding drop of 1 psi (7 kPa) in inflation pressure. Check your tire pressures frequently and adjust them to the proper pressure which can be found on the Safety Compliance Certification Label or Tire Label.

If you are checking tire pressure when the tire is hot, (i.e. driven more than 1 mile [1.6 km]), never "bleed" or reduce air pressure. The tires are hot from driving and it is normal for pressures to increase above recommended cold pressures. A hot tire at or below recommended cold inflation pressure could be significantly under-inflated.

To check the pressure in your tire(s):

1. Make sure the tires are cool, meaning they are not hot from driving even a mile.

Note: If you have to drive a distance to get air for your tire(s), check and record the tire pressure first and add the appropriate air pressure when you get to the pump. It is normal for tires to heat up and the air pressure inside to go up as you drive. Never "bleed" or reduce air pressure when tires are hot.

2. Remove the cap from the valve on one tire, then firmly press the tire gauge onto the valve and measure the pressure.

3. Add enough air to reach the recommended air pressure

Note: If you overfill the tire, release air by pushing on the metal stem in the center of the valve. Then recheck the pressure with your tire gauge.

4. Replace the valve cap.

5. Repeat this procedure for each tire, including the spare.

Note: Some spare tires operate at a higher inflation pressure than the other tires. For T-type/mini-spare tires (see *T-Type/Mini-Spare Tire Information* section for description): Store and maintain at 60psi (4.15 bar). For Full Size and Dissimilar spare tires (see *Dissimilar Spare Tire/Wheel Information* section for description): Store and maintain at the higher of the front and rear inflation pressure as shown on Safety Compliance Certification Label or the Tire Label.

6. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.

7. Check the sidewalls to make sure there are no gouges, cuts or bulges.

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TIRE CARE

Inspecting your tires

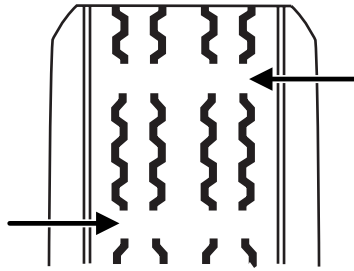
Periodically inspect the tire treads for uneven or excessive wear and remove objects such as stones, nails or glass that may be wedged in the tread grooves. Check for holes or cuts that may permit air leakage from the tire and make necessary repairs. Also inspect the tire sidewalls for cracking, cuts, bruises and other signs of damage or excessive wear. If internal damage to the tire is suspected, have the tire demounted and inspected in case it needs to be repaired or replaced. For your safety, tires that are damaged or show signs of excessive wear should not be used because they are more likely to blow out or fail.

Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Inspect all your tires, including the spare, frequently, and replace them if one or more of the following conditions exist:

Tire wear

When the tread is worn down to 1/16th of an inch (2 mm), tires must be replaced to help prevent your vehicle from skidding and hydroplaning. Built-in treadwear indicators, or “wear bars”, which look like narrow strips of smooth rubber across the tread will appear on the tire when the tread is worn down to 1/16th of an inch (2 mm).

When the tire tread wears down to the same height as these “wear bars”, the tire is worn out and must be replaced.



Damage

Periodically inspect the tire treads and sidewalls for damage (such as bulges in the tread or sidewalls, cracks in the tread groove and separation in the tread or sidewall). If damage is observed or suspected have the tire inspected by a tire professional. Tires can be damaged during off-road use, so inspection after off-road use is also recommended.

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Age

Tires degrade over time, even when they are not being used. It is recommended that tires generally be replaced after 6 years of normal service. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process.

You should replace the spare tire when you replace the other road tires due to the aging of the spare tire.

U.S. DOT Tire Identification Number (TIN)

Both U.S. and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

Tire Replacement Requirements

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.



Only use replacement tires and wheels that are the same size and type (such as P-metric versus LT-metric or all-season versus all-terrain) as those originally provided by Ford. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. Additionally the use of non-recommended tires and wheels could cause steering, suspension, axle or transfer case/power transfer unit failure. If you have questions regarding tire replacement, see an authorized dealer.

Important: Remember to replace the wheel valve stem when the road tires are replaced on your vehicle.

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It is recommended that the two front tires or two rear tires generally be replaced as a pair.

The tire pressure monitoring sensors mounted in the wheels (originally installed on your vehicle) are not designed to be used in after-market wheels.

The installation of replacement tires with steel cord body plies in the tire sidewall may cause malfunction of the Tire Pressure Monitoring System (TPMS), and is not recommended (cord material information is molded on the tire sidewall). Additionally, if your vehicle was originally equipped with run-flat tires, replacing them with tires that are not identical to those originally fitted may cause malfunction of the TPMS, and is not recommended. Run-flat tires should not be used to replace regular tires. Always check your TPMS indicator immediately after replacing one or more tires on your vehicle. If the TPMS indicator is on, your TPMS is malfunctioning. Your replacement tire might be incompatible with your TPMS system, or some component of the TPMS system may be damaged.

Safety practices

Driving habits have a great deal to do with your tire mileage and safety.

- Observe posted speed limits
- Avoid fast starts, stops and turns
- Avoid potholes and objects on the road
- Do not run over curbs or hit the tire against a curb when parking



If your vehicle is stuck in snow, mud, sand, etc., **do not** rapidly spin the tires; spinning the tires can tear the tire and cause an explosion. A tire can explode in as little as three to five seconds.



Never spin the tires in excess of the 35 mph (55 km/h) point indicated on the speedometer.

Highway hazards

No matter how carefully you drive there's always the possibility that you may eventually have a flat tire on the highway. Drive slowly to the closest safe area out of traffic. This may further damage the flat tire, but your safety is more important.

If you feel a sudden vibration or ride disturbance while driving, or you suspect your tire or vehicle has been damaged, immediately reduce your

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speed. Drive with caution until you can safely pull off the road. Stop and inspect the tires for damage. If a tire is under-inflated or damaged, deflate it, remove wheel and replace it with your spare tire and wheel. If you cannot detect a cause, have the vehicle towed to the nearest repair facility or tire dealer to have the vehicle inspected.

Tire and wheel alignment

A bad jolt from hitting a curb or pothole can cause the front end of your vehicle to become misaligned or cause damage to your tires. If your vehicle seems to pull to one side when you're driving, the wheels may be out of alignment. Have an authorized dealer check the wheel alignment periodically.

Wheel misalignment in the front or the rear can cause uneven and rapid treadwear of your tires and should be corrected by an authorized dealer. Front wheel drive (FWD) vehicles and those with an independent rear suspension (if equipped) may require alignment of all four wheels.

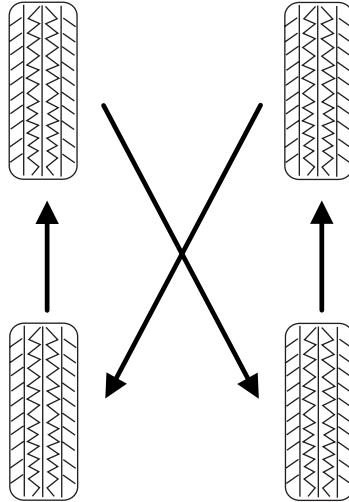
The tires should also be balanced periodically. An unbalanced tire and wheel assembly may result in irregular tire wear.

Tire rotation

Rotating your tires at the recommended interval (as indicated in the *scheduled maintenance information* that comes with your vehicle) will help your tires wear more evenly, providing better tire performance and longer tire life. Unless otherwise specified, rotate the tires approximately every 5,000 miles (8,000 km).

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- Rear Wheel Drive (RWD) vehicles/Four Wheel Drive (4WD)/ All Wheel Drive (AWD) vehicles (front tires at top of diagram)



Sometimes irregular tire wear can be corrected by rotating the tires.

Note: If your tires show uneven wear ask an authorized dealer to check for and correct any wheel misalignment, tire imbalance or mechanical problem involved before tire rotation.

Note: Your vehicle may be equipped with a dissimilar spare tire/wheel. A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels. If you have a dissimilar spare tire/wheel it is intended for temporary use only and should not be used in a tire rotation.

Note: After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.

INFORMATION CONTAINED ON THE TIRE SIDEWALL

Both U.S. and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

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Information on “P” type tires

P215/65R15 95H is an example of a tire size, load index and speed rating. The definitions of these items are listed below. (Note that the tire size, load index and speed rating for your vehicle may be different from this example.)

1. **P:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that may be used for service on cars, SUVs, minivans and light trucks.

Note: If your tire size does not begin with a letter this may mean it is designated by either ETRTO (European Tire and Rim Technical Organization) or JATMA (Japan Tire Manufacturing Association).

2. **215:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

3. **65:** Indicates the aspect ratio which gives the tire’s ratio of height to width.

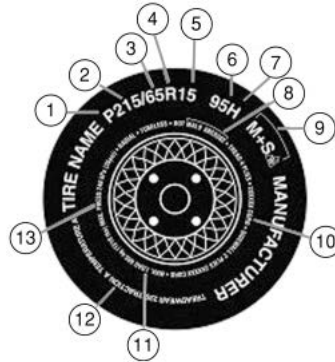
4. **R:** Indicates a “radial” type tire.

5. **15:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

6. **95:** Indicates the tire’s load index. It is an index that relates to how much weight a tire can carry. You may find this information in your *Owner’s Guide*. If not, contact a local tire dealer.

Note: You may not find this information on all tires because it is not required by federal law.

7. **H:** Indicates the tire’s speed rating. The speed rating denotes the speed at which a tire is designed to be driven for extended periods of time under a standard condition of load and inflation pressure. The tires on your vehicle may operate at different conditions for load and inflation pressure. These speed ratings may need to be adjusted for the difference in conditions. The ratings range from 81 mph (130 km/h) to 186 mph (299 km/h). These ratings are listed in the following chart.



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Note: You may not find this information on all tires because it is not required by federal law.

Letter rating	Speed rating - mph (km/h)
M	81 mph (130 km/h)
N	87 mph (140 km/h)
Q	99 mph (159 km/h)
R	106 mph (171 km/h)
S	112 mph (180 km/h)
T	118 mph (190 km/h)
U	124 mph (200 km/h)
H	130 mph (210 km/h)
V	149 mph (240 km/h)
W	168 mph (270 km/h)
Y	186 mph (299 km/h)

Note: For tires with a maximum speed capability over 149 mph (240 km/h), tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 186 mph (299 km/h), tire manufacturers always use the letters ZR.

8. U.S. DOT Tire Identification Number (TIN): This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

9. M+S or M/S: Mud and Snow, or

AT: All Terrain, or

AS: All Season.

10. Tire Ply Composition and Material Used: Indicates the number of plies or the number of layers of rubber-coated fabric in the tire tread and sidewall. Tire manufacturers also must indicate the ply materials in the tire and the sidewall, which include steel, nylon, polyester, and others.

11. Maximum Load: Indicates the maximum load in kilograms and pounds that can be carried by the tire. Refer to the Safety Compliance Certification Label, which is located on the B-Pillar or the edge of the driver's door, for the correct tire pressure for your vehicle.

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12. Treadwear, Traction and Temperature Grades

- **Treadwear:** The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1½) times as well on the government course as a tire graded 100.
- **Traction:** The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.
- **Temperature:** The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

13. **Maximum Permissible Inflation Pressure:** Indicates the tire manufacturers' maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load, radial tubeless, etc.

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Additional information contained on the tire sidewall for “LT” type tires

“LT” type tires have some additional information beyond those of “P” type tires; these differences are described below:

1. **LT:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that is intended for service on light trucks.

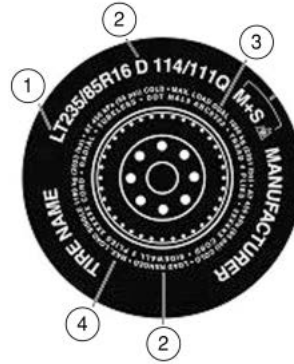
2. **Load Range/Load Inflation**

Limits: Indicates the tire’s load-carrying capabilities and its inflation limits.

3. **Maximum Load Dual lb. (kg)**

at psi (kPa) cold: Indicates the maximum load and tire pressure when the tire is used as a dual; defined as four tires on the rear axle (a total of six or more tires on the vehicle).

4. **Maximum Load Single lb. (kg) at psi (kPa) cold:** Indicates the maximum load and tire pressure when the tire is used as a single; defined as two tires (total) on the rear axle.



Tires, Wheels and Loading

Information on “T” type tires

“T” type tires have some additional information beyond those of “P” type tires; these differences are described below:

T145/80D16 is an example of a tire size.

Note: The temporary tire size for your vehicle may be different from this example.

1. **T:** Indicates a type of tire, designated by the Tire and Rim Association (T&RA), that is intended for temporary service on cars, SUVs, minivans and light trucks.

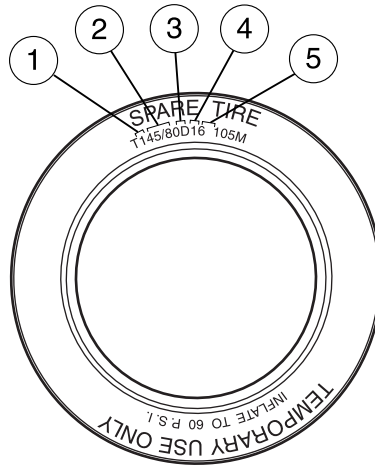
2. **145:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

3. **80:** Indicates the aspect ratio which gives the tire’s ratio of height to width. Numbers of 70 or lower indicate a short sidewall.

4. **D:** Indicates a “diagonal” type tire.

R: Indicates a “radial” type tire.

5. **16:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.



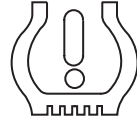
Location of the tire label

You will find a Tire Label containing tire inflation pressure by tire size and other important information located on the B-Pillar or the edge of the driver’s door. Refer to the payload description and graphic in the *Vehicle loading — with and without a trailer* section.

Tires, Wheels and Loading

TIRE PRESSURE MONITORING SYSTEM (TPMS) (IF EQUIPPED)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the



vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

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

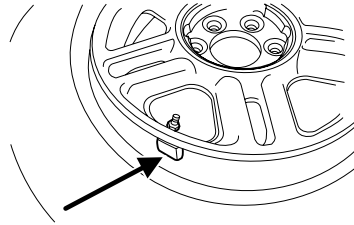


The Tire Pressure Monitoring System is NOT a substitute for manually checking tire pressure. The tire pressure should be checked periodically (at least monthly) using a tire gauge, see *Inflating your tires* in this chapter. Failure to properly maintain your tire pressure could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.

Tires, Wheels and Loading

Changing tires with TPMS

It is recommended that you always have your tires serviced by an authorized dealer. **Each road tire is equipped with a tire pressure sensor mounted on the wheel inside the tire connected to the valve stem. The tire pressure sensor must be unbolted from the wheel prior to tire removal. The sensor can be removed by loosening the nut at the valve stem. Failure to remove the sensor may damage it.** The rubber grommet (washer) between the wheel and the tire pressure sensor needs to be replaced whenever the sensor is removed to minimize air leaks.



The tire pressure should be checked periodically (at least monthly) using an accurate tire gauge, refer to *Inflating your tires* in this chapter.

When replacing valve caps, use the same nylon valve caps that came with your vehicle. Do not use chrome-plated valve caps because they may corrode to the valve stems and damage the TPMS sensors.

Understanding your Tire Pressure Monitoring System (TPMS)

The Tire Pressure Monitoring System measures pressure in your four road tires and sends the tire pressure readings to your vehicle every minute while you are driving and once an hour when your vehicle is parked. The Low Tire Warning Lamp will turn ON if the tire pressure is 25% below the pressure listed on the Safety Compliance Certification Label (approximately 6 to 9 psi below the manufacturer's recommend tire pressure). If the tire pressure increases 2 psi above the "Light ON" threshold, then the TPMS light will turn OFF. Once the light is illuminated, your tires are under inflated and need to be inflated to the manufacturer's recommended tire pressure. Even if the light turns ON and a short time later turns OFF, your tire pressure still needs to be checked.

In short, once the light has turned ON, at least one tire may be under inflated.

Tires, Wheels and Loading

When your temporary spare tire is installed

When one of your road tires needs to be replaced with the temporary spare, the TPMS system will continue to identify an issue to remind you that the damaged road wheel/tire needs to be repaired and put back on your vehicle. During this time, the low tire warning light can periodically return or stay on, depending on the state of the damaged road wheel/tire. This will include the messages from the message center (if equipped).

To restore the full functionality of the Tire Pressure Monitoring System, have the damaged road wheel/tire repaired and remounted on your vehicle. For additional information, refer to *Changing tires with TPMS* in this section.

When you believe your system is not operating properly

The main function of the Tire Pressure Monitoring System is to warn you when your tires need air. It can also warn you in the event the system is no longer capable of functioning as intended. Please refer to the following chart for information concerning your Tire Pressure Monitoring System:

Tires, Wheels and Loading

Low Tire Pressure Warning Light	Customer Action Required
Solid Warning Light	<ol style="list-style-type: none"> 1. Check your tire pressure to ensure they are properly inflated, refer to <i>Inflating your tires</i> in this chapter. Ford recommends the use of a digital or dial type tire pressure gauge rather than a stick type tire pressure gauge for increased accuracy. 2. After inflating your tires to the manufacturer's recommended air pressure as shown on the Safety Compliance Certification Label (located on the driver's door or the B-Pillar), the vehicle must be driven for at least two minutes over 20 mph (32 km/h) before the light will turn off. 3. Your spare tire is in use. Repair the damaged road wheel and re-mount it on the vehicle to restore system functionality. For description on how the system functions, refer to <i>Changing Tires with TPMS</i> in this section. 4. If the light remains ON even after these steps have been taken, have the system inspected by your authorized dealer.
Flashing Warning Light (flashes for 20 to 30 seconds either at start-up or while driving)	<ol style="list-style-type: none"> 1. Your spare tire is in use. Repair the damaged road wheel and re-mount it on the vehicle to restore system functionality. For a description of how the system functions under these conditions, refer to <i>When Your temporary spare is installed</i> in this section. 2. If your tires are inflated to the manufacturer's recommended tire pressure, and your spare tire is not in use, and a flashing low tire pressure warning light is still present, have the system inspected by your authorized dealer.

Tires, Wheels and Loading

When inflating your tires

When putting air into your tires (such as at a gas station or in your garage), the Tire Pressure Monitoring System may not respond immediately to the air added to your tires. Here are the details:

- The tire pressure monitor sensors mounted in your wheels updates your vehicle with tire pressure information only once every minute, therefore it may take up to two minutes of driving over 20 mph (32 km/h) for the light to turn OFF after you have filled your tires to the recommended tire pressure.
- If your vehicle has been parked for over 15 minutes, the sensors go into a low power mode to conserve battery life and therefore only transmit about once an hour. If you inflate your tires under these conditions, it may take up to two minutes of driving over 20 mph (32 km/h) for the light to turn OFF after you have filled your tires to the recommended tire pressure.

For these reasons, the low tire pressure warning light is NOT a substitute for using an accurate tire gauge when checking and filling your tires. The best way to turn off the low tire pressure warning light is to fill your tires to the recommended tire pressure and drive your vehicle — the tire pressure sensors in your wheels will update your vehicle with the updated tire pressure when your vehicle reaches a speed over 20 mph (32 km/h) for at least two minutes.

How temperature affects your tire pressure

The Tire Pressure Monitoring System (TPMS) monitors tire pressure in each pneumatic tire. The pressure in each tire is dependent upon several factors, one of them being the contained air temperature (temperature of the air inside the tire). As the contained air temperature increases, the tire pressure also increases. While driving in a normal manner, a typical passenger tire inflation pressure may increase approximately 2 to 4 psi (14 to 28 kPa) from a cold start situation. This increase in tire pressure is due to an increase in the contained air temperature. Contained air temperature is dependent upon several factors such as rate of tire rotation, tire deflection, amount of braking, etc. In similar manner, the tire pressure will decrease if the contained air temperature decreases. For example, if the vehicle is stationary over night with the outside temperature significantly lower than the daytime temperature, the tire pressure may decrease approximately 3 psi (20.7 kPa) for a drop of 30° F (16.6° C) in ambient temperature. This lower pressure value may be detected by the TPMS as being significantly lower than the cold pressure indicated on your vehicles Safety Compliance Certification Label, and

Tires, Wheels and Loading

activate the TPMS warning for low tire pressure. If the low warning light is on, visually check each tire to verify that no tire is flat. If one or more tires are flat, repair as necessary. If all tires appear to be inflated, carefully drive the vehicle to the nearest location where air can be added to the tires. Turn the ignition to the “off” position. Inflate all the tires to the recommended cold pressure.



The Tire Pressure Monitoring System is NOT a substitute for manually checking tire pressure. The tire pressure should be checked periodically (at least monthly) using a tire gauge, see *Inflating your tires* in this chapter. Failure to properly maintain your tire pressure could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.

SNOW TIRES AND CHAINS



Snow tires must be the same size and grade as the tires you currently have on your vehicle.

The tires on your vehicle have all weather treads to provide traction in rain and snow. However, in some climates, you may need to use snow tires and chains.

Follow these guidelines when using snow tires and chains:

- Use only cable type chains or chains offered by Ford as an accessory or equivalent. Other conventional link type chains may contact and cause damage to the vehicle's wheel house and/or body.
- Do not install chains on the front wheels. Chains on the front wheels may interfere with suspension components.
- Install chains securely, verifying that the chains do not touch any wiring, brake lines or fuel lines.
- Drive cautiously. If you hear the chains rub or bang against your vehicle, stop and re-tighten the chains. If this does not work, remove the chains to prevent damage to your vehicle.
- If possible, avoid fully loading your vehicle.
- Remove the tire chains when they are no longer needed. Do not use tire chains on dry roads.
- The suspension insulation and bumpers will help prevent vehicle damage. Do not remove these components from your vehicle when using snow tires and chains.
- Do not exceed 30 mph (48 km/h) with tire chains on your vehicle.

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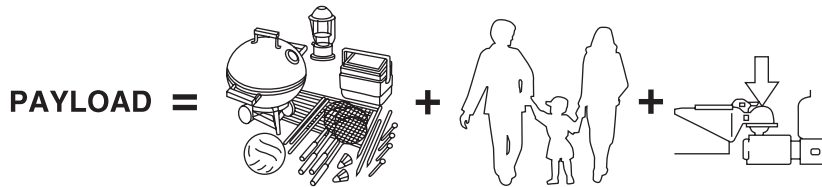
VEHICLE LOADING – WITH AND WITHOUT A TRAILER

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.

Tires, Wheels and Loading



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



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

Tires, Wheels and Loading

Example only:

TIRE AND LOADING INFORMATION				
SEATING CAPACITY		TOTAL 5	FRONT 2	REAR 3
The combined weight of occupants and cargo should never exceed : XXX kg or XXX lbs.				
TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION	
FRONT	LT225/75R 16.5E	200 KPA, 29 PSI		
REAR	LT225/75R 16.5E	200 KPA, 29 PSI		
SPARE	T145/80D16 P225/60R17	420 KPA, 60 PSI 200 KPA, 29 PSI		

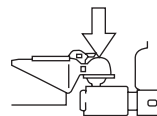
TIRE AND LOAD INFORMATION				
RENSEIGNEMENTS RELATIFS AUX PNEUS ET À LA CHARGE				
SEATING CAPACITY		TOTAL XX	FRONT XX	REAR X
NOMBRE DE PLACES		TOTAL	AVANT	ARRIERE
The combined weight of occupants and cargo should never exceed : XXX kg. La charge du véhicule (occupants et bagages) ne doit jamais dépasser : XXX lbs.				
TIRE PNEUS	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION À FROID	SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION CONSULTER LE GUIDE DU PROPRIÉTAIRE POUR DE PLUS AMPLES RESEIGNEMENTS	
FRONT/ AVANT	LT225/75R 16.5E	200 KPA, 29 PSI		
REAR/ ARRIERE	LT225/75R 16.5E	200 KPA, 29 PSI		
SPARE/ PNEU DE SECOURS	T145/80D16 P225/60R17	420 KPA, 60 PSI 200 KPA, 29 PSI		

CARGO

=



+




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

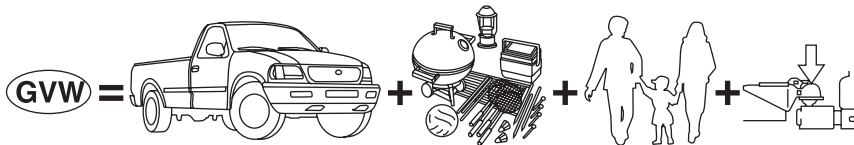
GAW (Gross Axle Weight) – is the total weight placed on each axle (front and rear) – including vehicle curb weight and all payload.

Tires, Wheels and Loading

GAWR (Gross Axle Weight Rating) – is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label located on the B-Pillar or the edge of the driver's door. The total load on each axle must never exceed its GAWR.**

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


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



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

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GVWR (Gross Vehicle Weight Rating) – is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label located on the B-Pillar or the edge of the driver's door. The GVW must never exceed the GVWR.**

MFD. BY FORD MOTOR CO.					
DATE: XX/XX		GVWR: XXXXXLB/ XXXXXKG			
FRONT GAWR: XXXXL		REAR GAWR: XXXXLB			
XXXXKG	WITH	XXXXKG	WITH		
XXXX/XXXXXX	TIRES	XXXX/XXXXXX	TIRES		
XXXX.XX	RIMS	XXXX.XX	RIMS		
AT XXX kPa/XX	PSI COLD	AT XXX kPa/XX	PSI COLD		
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.					
VIN: XXXXXXXXXXXXXXXXX				XXXXX	
TYPE: XXX				XXXXX	
					
EXT PNT: XX		RC: XX		DSO:	
WB ¹ BRK	INT TR	TR	AXLE	TR	SPR
XXX X	XX	X	XX	X XX	XXX
XXXXXXXXXXXXX XXX XXXX-XXXXXXXX-XX					



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

$$\text{GCW} = \text{GVW} +$$



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

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

(Important: The towing vehicle's braking system is rated for operation at GVWR, not at GCWR.) Separate functional brakes should be used for safe control of towed vehicles and for trailers where the GCW of the towing vehicle plus the trailer exceed the GVWR of the towing vehicle.

The GCW must never exceed the GCWR.

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

Tires, Wheels and Loading

10–15% (conventional trailer) or king pin weight of 15–25% (fifth wheel trailer), and driver only (150 lb. [68 kg]). **Consult your authorized dealer (or the *RV and Trailer Towing Guide* provided by your authorized dealer) for more detailed information.**

Tongue Load or Fifth Wheel King Pin Weight – refers to the amount of the weight that a trailer pushes down on a trailer hitch.

Examples: For a 5,000 lb. (2,268 kg) conventional trailer, multiply 5,000 by 0.10 and 0.15 to obtain a proper tongue load range of 500 to 750 lb. (227 to 340 kg). For an 11,500 lb. (5,216 kg) fifth wheel trailer, multiply by 0.15 and 0.25 to obtain a proper king pin load range of 1,725 to 2,875 lb. (782 to 1,304 kg)



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



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



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

Steps for determining the correct load limit:

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.” on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400–750 (5 x 150) = 650 lb.). In metric units (635–340 (5 x 68) = 295 kg.)
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.

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6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

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

- Another example for your vehicle with 1400 lb. (635 kg) of cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, 4 of your friends and all the golf bags? You and four friends average 220 lb. (99 kg) each and the golf bags weigh approximately 30 lb. (13.5 kg) each. The calculation would be: $1400 - (5 \times 220) - (5 \times 30) = 1400 - 1100 - 150 = 150$ lb. Yes, you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be: $635 \text{ kg} - (5 \times 99 \text{ kg}) - (5 \times 13.5 \text{ kg}) = 635 - 495 - 67.5 = 72.5$ kg.
- A final example for your vehicle with 1400 lb. (635 kg) of cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past 2 years. Measuring the inside of the vehicle with the rear seat folded down, you have room for 12-100 lb. (45 kg) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 lb. (99 kg), the calculation would be: $1400 - (2 \times 220) - (12 \times 100) = 1400 - 440 - 1200 = -240$ lb. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be: $635 \text{ kg} - (2 \times 99 \text{ kg}) - (12 \times 45 \text{ kg}) = 635 - 198 - 540 = -103$ kg. You will need to reduce the load weight by at least 240 lb. (104 kg). If you remove 3-100 lb. (45 kg) cement bags, then the load calculation would be:
 $1400 - (2 \times 220) - (9 \times 100) = 1400 - 440 - 900 = 60$ lb. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be: $635 \text{ kg} - (2 \times 99 \text{ kg}) - (9 \times 45 \text{ kg}) = 635 - 198 - 405 = 32$ kg.

The above calculations also assume that the loads are positioned in your vehicle in a manner that does not overload the Front or the Rear Gross Axle Weight Rating specified for your vehicle on the Safety Compliance Certification Label found on the edge of the driver's door.

Tires, Wheels and Loading

Special loading instructions for owners of pickup trucks and utility-type vehicles



For important information regarding safe operation of this type of vehicle, see the *Preparing to drive your vehicle* section in the **Driving** chapter of this owner guide.



Loaded vehicles, with a higher center of gravity, may handle differently than unloaded vehicles. Extra precautions, such as slower speeds and increased stopping distance, should be taken when driving a heavily loaded vehicle.

Your vehicle has the capability to haul more cargo and people than most passenger cars. Depending upon the type and placement of the load, hauling cargo and people may raise the center of gravity of the vehicle.

TRAILER TOWING

Trailer towing puts additional loads on your vehicle's engine, transmission, axle, brakes, tires, and suspension. For your safety and to maximize vehicle performance, be sure to use the proper equipment while towing.

Follow these guidelines to ensure safe towing procedure:

- Stay within your vehicle's load limits. If exceeded, cargo should be removed from the trailer and/or the vehicle until all weights are within specified limits.
- Thoroughly prepare your vehicle for towing. Refer to *Preparing to tow* in this chapter.
- Use extra caution when driving while trailer towing. Refer to *Driving while you tow* in this chapter.
- Service your vehicle more frequently if you tow a trailer. Refer to the severe duty schedule in the scheduled maintenance guide.
- Do not tow a trailer until your vehicle has been driven at least 500 miles (800 km). Additionally, during the first 500 miles (800 km) that you tow a trailer, do not drive over 70 mph (112 km/h) and do not make starts at full throttle.
- Refer to the instructions included with towing accessories for the proper installation and adjustment specifications.

Tires, Wheels and Loading

Trailer towing (standard equipment):

Your vehicle is equipped with a integrated trailer hitch and a Class I (4-pin) trailer electrical connector. The 4-pin connector supplies power to tail lamps, stop lamps, and turn lamps. See the trailer towing chart for the trailer towing weight recommendation.

Trailer towing (optionally equipped trailer tow package):

The optional trailer tow package includes heavy duty trailer tow wiring. Both a Class I (4-pin) and IV (7-pin) trailer electrical connector are provided. Under the instrument panel a electrical connector is provided for a customer supplied aftermarket electronic brake controller. For installing a customer supplied electronic brake controller, a electrical jumper harness and trailer tow electrical instructions are included with the optional trailer tow package.

The kit containing a electrical jumper and trailer tow electrical instructions may be purchased from any authorized dealer (Part number 4L1Z-14A348-AA)

Note: Before towing a trailer, make sure the trailer brakes (if equipped) and lamps are properly connected and functional. Electronic trailer brakes (if equipped) refer to the instructions provided by the aftermarket electronic brake controller manufacture for determining trailer brake functionality.

Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Trailer weight range (0 - maximum) lb. (kg)
4x2			
5.4L with standard trailer tow package	All	11800 (5351)	0-6000 (0-2721)
5.4L with optional trailer tow package	All	14500 (6576)	0-8900 (0-4037)

Tires, Wheels and Loading

Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Trailer weight range (0 - maximum) lb. (kg)
4x4			
5.4L with standard trailer tow package	All	11900 (5397)	0-6000 (0-2721)
5.4L with optional trailer tow package	All	14500 (6576)	0-8600 (0-3901)
<p>Note: For vehicles not equipped with the optional trailer tow package, the maximum frontal area of trailer should not exceed the frontal area of the vehicle (3.4 square meters [36.5 square feet]).</p> <p>Note: For vehicles equipped with the optional trailer tow package, the maximum frontal area of trailer should not exceed 5.6 square meters (60 square feet).</p>			

Do not exceed the maximum loads listed on the Safety Compliance Certification label. For load specification terms found on the label, refer to *Vehicle loading* in this chapter. Remember to figure in the tongue load of your loaded trailer when figuring the total weight.



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 control, vehicle rollover and personal injury.

Integrated hitch rating

The standard integrated hitch has two ratings depending on mode of operation:

- **Weight carrying** - requires a draw bar and hitch ball. The draw bar supports all the vertical tongue load of the trailer.
- **Weight distributing** - requires an aftermarket weight distributing system which includes draw bar, hitch ball, spring bars and snap-up brackets. The vertical tongue load of the trailer is distributed between the truck and the trailer by this system.

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Mode	Maximum Gross Trailer Weight - kg (lb.)	Maximum Tongue Weight - kg (lb.)
Weight carrying	2721 (6000)	272 (600)
Weight distributing	4060 (8950)	406 (895)
These are hitch ratings only; actual vehicle ratings are dependent on engine, transmission and axle combinations.		



Towing trailers beyond the maximum tongue weight exceeds the limit of the towing system and could result in vehicle structural damage, loss of vehicle control and personal injury.

Preparing to tow

Use the proper equipment for towing a trailer and make sure it is properly attached to your vehicle. See your authorized dealer or a reliable trailer dealer if you require assistance.

Hitches

Do not use hitches that clamp onto the vehicle's bumper or attach to the axle. You must distribute the load in your trailer so that 10%–15% of the total weight of the trailer is on the tongue.

Load equalizing hitch

When hooking up a trailer using a load equalizing hitch, always use the following procedure:

1. Park the unloaded vehicle on a level surface. With the ignition in the ON position, apply the brake and place the gearshift lever in **D** (Overdrive) for 10 seconds, then return the gearshift lever to P (Park) and release the brake. With the ignition still in the ON position, and all doors closed, allow the vehicle to stand (without passengers) for several minutes so that it can level.
2. Turn the air suspension (if equipped) control to OFF.
3. Measure the height of a reference point on the front and rear bumpers at the center of the vehicle.
4. Attach the trailer to the vehicle and adjust the hitch equalizers so that the front bumper height is within a ½" (13 mm) of the reference point. After proper adjustment, the rear bumper should be no higher than in Step 3.

Tires, Wheels and Loading

5. Turn the air suspension (if equipped) control to ON.

Note: Adjusting an equalizing hitch so the rear bumper of the vehicle is higher than it was unloaded will defeat the function of the load equalizing hitch and may cause unpredictable handling.

Safety chains

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

If you use a rental trailer, follow the instructions that the rental agency gives to you.

Do not attach safety chains to the bumper.

Trailer brakes

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



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

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

Trailer lamps

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

Driving while you tow

When towing a trailer:

- Keep your speed no faster than 70 mph (112 km/h) during the first 500 miles (800 km) of towing a trailer, and don't make full throttle starts.
- Turn off the speed control. The speed control may shut off automatically when you are towing on long, steep grades.
- Consult your local motor vehicle speed regulations for towing a trailer.

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Tires, Wheels and Loading

- To eliminate excessive shifting, use a lower gear. This will also assist in transmission cooling. (For additional information, refer to *Understanding the gearshift positions of the 4-speed automatic transmission* in the *Driving* chapter.
- Anticipate stops and brake gradually.
- Do not exceed the GCWR rating or transmission damage may occur.

If your vehicle is equipped with AdvanceTrac® with RSC, you may experience AdvanceTrac® with RSC activations during typical cornering maneuvers with a heavily loaded trailer; this is normal. Cornering at a slower speed while towing will reduce the tendency of the AdvanceTrac® stability enhancement system to activate.

Servicing after towing

If you tow a trailer for long distances, your vehicle will require more frequent service intervals. Refer to your *Scheduled Maintenance Information* for more information.

Trailer towing tips

- Practice turning, stopping and backing up before starting on a trip to get the feel of the vehicle trailer combination. When turning, make wider turns so the trailer wheels will clear curbs and other obstacles.
- Allow more distance for stopping with a trailer attached.
- If you are driving down a long or steep hill, shift to a lower gear. Do not apply the brakes continuously, as they may overheat and become less effective.
- The trailer tongue weight should be 10–15% of the loaded trailer weight.
- If you will be towing a trailer frequently in hot weather, hilly conditions, at GCW, or any combination of these factors, consider refilling your rear axle with synthetic gear lube if not already so equipped. Refer to the *Maintenance and Specifications* chapter for the lubricant specification. Remember that regardless of the rear axle lube used, do not tow a trailer for the first 500 miles (800 km) of a new vehicle, and that the first 500 miles (800 km) of towing be done at no faster than 70 mph (112 km/h) with no full throttle starts.
- After you have traveled 50 miles (80 km), thoroughly check your hitch, electrical connections and trailer wheel lug nuts.
- To aid in engine/transmission cooling and A/C efficiency during hot weather while stopped in traffic, place the gearshift lever in P (Park).

Tires, Wheels and Loading

- Vehicles with trailers should not be parked on a grade. If you must park on a grade, place wheel chocks under the trailer's wheels.

Launching or retrieving a boat

Disconnect the wiring to the trailer before backing the trailer into the water. Reconnect the wiring to the trailer after the trailer is removed from the water.

When backing down a ramp during boat launching or retrieval:

- do not allow the static water level to rise above the bottom edge of the rear bumper.
- do not allow waves to break higher than 6 inches (15 cm) above the bottom edge of the rear bumper.

Exceeding these limits may allow water to enter vehicle components:

- causing internal damage to the components.
- affecting driveability, emissions and reliability.

Replace the rear axle lubricant any time the axle has been submerged in water. Rear axle lubricant quantities are not to be checked or changed unless a leak is suspected or repair required.

RECREATIONAL TOWING (ALL WHEELS ON THE GROUND)

An example of recreational towing would be towing your vehicle behind a motorhome. Follow these guidelines if you have the need for recreational towing your vehicle with all four wheels on the ground. These guidelines are designed to ensure that your transmission is not damaged.

2WD vehicles (with automatic transmissions):

- Place the transmission in N (Neutral)
- Maximum speed is 35 mph (56 km/h)
- Maximum distance is 50 miles (80 km)

If a distance of 50 miles (80 km) or a speed of 35 mph (56 km/h) must be exceeded, the drive shaft will have to be removed before the vehicle is towed.

Ford recommends the driveshaft be removed/installed only by a qualified technician at an authorized dealer. See your authorized dealer for driveshaft removal/installation.

Improper removal/installation of the driveshaft can cause transmission fluid loss, damage to the driveshaft and internal transmission components.

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Tires, Wheels and Loading

Vehicles equipped with Control Trac four-wheel drive system:

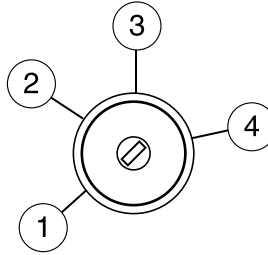
Vehicles equipped with the Control Trac four-wheel drive system cannot be towed with any wheels on the ground. See your authorized dealer if you must flat-tow a vehicle equipped with the Control Trac four-wheel drive system.

Driving

STARTING

Positions of the ignition

1. OFF/LOCK, locks the steering wheel, automatic transmission gearshift lever and allows key removal.
2. ACCESSORY, allows the electrical accessories such as the radio to operate while the engine is not running.
3. ON, all electrical circuits operational. Warning lights illuminated. Key position when driving.
4. START, cranks the engine. Release the key as soon as the engine starts.



Preparing to start your vehicle

Engine starting is controlled by the powertrain control system. This system meets all Canadian Interference-Causing Equipment standard requirements regulating the impulse electrical field strength of radio noise.

When starting a fuel-injected engine, avoid pressing the accelerator before or during starting. Only use the accelerator when you have difficulty starting the engine. For more information on starting the vehicle, refer to *Starting the engine* in this chapter.



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



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



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. See *Guarding against exhaust fumes* in this chapter for more instructions.

Driving



If you smell exhaust fumes inside your vehicle, have your dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

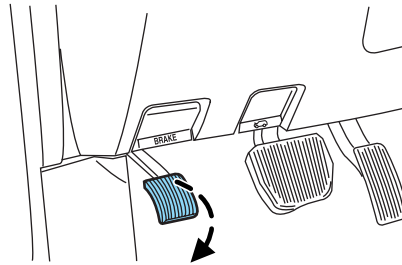
Important safety precautions

A computer system controls the engine's idle revolutions per minute (RPM). When the engine starts, the idle RPM runs higher than normal in order to warm the engine. If the engine idle speed does not slow down automatically, have the vehicle checked. Do not allow the vehicle to idle for more than 10 minutes at the higher engine RPM.

Before starting the vehicle:

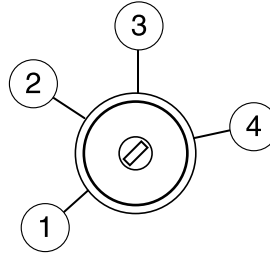
1. Make sure all vehicle occupants have buckled their safety belts. For more information on safety belts and their proper usage, refer to the *Seating and Safety Restraints* chapter.
2. Make sure the headlamps and vehicle accessories are off.
3. Make sure the gearshift is in P (Park).
4. Make sure the parking brake is set.

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Driving

5. Turn the key to 3 (ON) without turning the key to 4 (START).

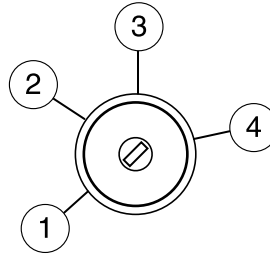


Some warning lights will briefly illuminate. See *Warning lights and chimes* in the *Instrument Cluster* chapter for more information regarding the warning lights.

Starting the engine

Note: Whenever you start your vehicle, release the key as soon as the engine starts. Excessive cranking could damage the starter.

1. Turn the key to 4 (START) without pressing the accelerator pedal and release as soon as the engine starts. The key will return to 3 (ON).



2. When the engine starts, release the key.

3. After idling for a few seconds, apply the brake, shift into gear and drive.

Note: If the engine does not start within five seconds on the first try, turn the key to OFF, wait 10 seconds and try again. If the engine still fails to start, press the accelerator to the floor and try again; this will allow the engine to crank with the fuel shut off in case the engine is flooded with fuel.

Driving

Guarding against exhaust fumes

Carbon monoxide is present in exhaust fumes. Take precautions to avoid its dangerous effects.



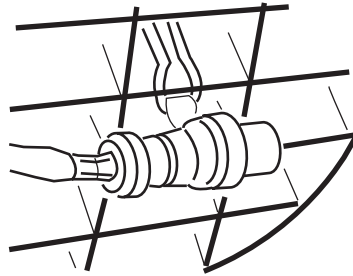
If you smell exhaust fumes inside your vehicle, have your dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

Important ventilating information

If the engine is idling while the vehicle is stopped for a long period of time, open the windows at least one inch (2.5 cm) or adjust the heating or air conditioning to bring in fresh air.

USING THE ENGINE BLOCK HEATER (IF EQUIPPED)

If your vehicle is factory equipped with an engine block heater, a rubber cap/plug assembly will be visibly attached to the grille on the front of the vehicle. For factory-equipped, this assembly is loose-shipped in-vehicle for authorized dealer installation. If not factory-equipped, the engine block heater can be purchased through authorized dealer accessories.



Replacement rubber caps are available through the authorized dealer, 3L1Z-6E088-AA.

Use of an engine block heater is strongly recommended if you live in a region where temperatures reach -10°F (-23°C) or below. For best results, plug the heater in at least three hours before starting the vehicle (the heater can be plugged in the night before starting the vehicle). To plug the heater in, remove the cap from the plug and insert the plug into a 110 volt grounded outlet. Be sure to re-attach the cap onto the plug when the heater is not in use.



To reduce the risk of electrical shock, do not use your heater with ungrounded electrical systems or two-pronged (cheater) adapters.

Driving

BRAKES

Your service brakes are self-adjusting. Refer to the *scheduled maintenance information* for scheduled maintenance.

Occasional brake noise is normal and often does not indicate a performance concern with the vehicle's brake system. In normal operation, automotive brake systems may emit occasional or intermittent squeal or groan noises when the brakes are applied. Such noises are usually heard during the first few brake applications in the morning; however, they may be heard at any time while braking and can be aggravated by environmental conditions such as cold, heat, moisture, road dust, salt or mud. If a "metal-to-metal," "continuous grinding" or "continuous squeal" sound is present while braking, the brake linings may be worn-out and should be inspected by an authorized dealer.

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



If you are driving down a long or steep hill, shift to a lower gear. Do not apply your brakes continuously, as they may overheat and become less effective.

Anti-lock brake system (ABS)

On ABS-equipped vehicles, a noise from the hydraulic pump motor and pulsation in the pedal may be observed during ABS braking events. Pedal pulsation coupled with noise while braking under panic conditions or on loose gravel, bumps, wet or snowy roads is normal and indicates proper functioning of the vehicle's anti-lock brake system. The ABS performs a self-check after you start the engine and begin to drive away. A brief mechanical noise may be heard during this test. This is normal. If a malfunction is found, the ABS warning light will come on. If the vehicle has continuous vibration or shudder in the steering wheel while braking, the vehicle should be inspected by an authorized dealer.

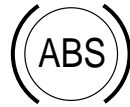
The ABS operates by detecting the onset of wheel lockup during brake applications and compensates for this tendency. The wheels are prevented from locking even when the brakes are firmly applied.

Using ABS

- In an emergency or when maximum efficiency from the four-wheel ABS is required, apply continuous force on the brake. The four wheel ABS will be activated immediately, thus allowing you to retain steering control of your vehicle and, providing there is sufficient space, will enable you to avoid obstacles and bring the vehicle to a controlled stop.
- The anti-lock system does not always reduce stopping distance. Always leave enough room between your vehicle and the vehicle in front of you to stop.
- We recommend that you familiarize yourself with this braking technique. However, avoid taking any unnecessary risks.

ABS warning lamp

The ABS warning lamp in the instrument cluster momentarily illuminates when the ignition is turned on. If the light does not illuminate momentarily at start up, remains on or continues to flash, the ABS needs to be serviced.



With the ABS light on, the anti-lock brake system is disabled and normal braking is still effective unless the brake warning light also remains illuminated with parking brake released. (If your brake warning lamp illuminates, have your vehicle serviced immediately.)



Brake Assist (if equipped)

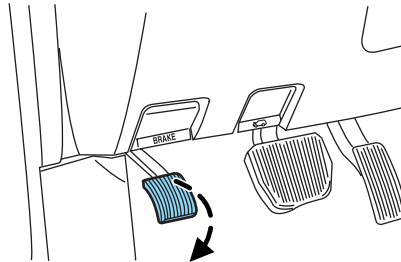
The Brake Assist system provides full braking force during panic braking situations. It detects a rapid application of the brake pedal and maximizes the amount of brake booster assist, helping the driver to achieve maximum braking pressure. Once a panic brake application is detected, the system will remain activated as long as the brake pedal is depressed. The system is deactivated by releasing the brake pedal.

When the system activates, the brake pedal will travel with very little effort; this is normal.

Driving


Parking brake

Apply the parking brake whenever the vehicle is parked. To set the parking brake, press the parking brake pedal down until the pedal stops.



The BRAKE warning lamp in the instrument cluster illuminates and remains illuminated (when the ignition is turned ON) until the parking brake is released.

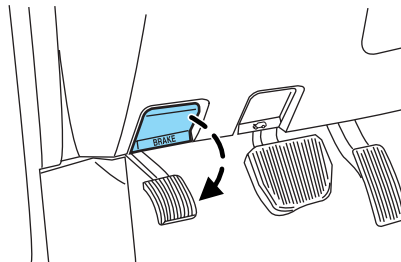


 If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working properly. See your authorized dealer.

 Always set the parking brake fully and make sure that the gearshift is securely latched in P (Park).

The parking brake is not recommended to stop a moving vehicle. However, if the normal brakes fail, the parking brake can be used to stop your vehicle in an emergency. Since the parking brake applies only the rear brakes, the vehicle's stopping distance will increase greatly and the handling of your vehicle will be adversely affected.

Pull the release lever to release the brake. Driving with the parking brake on will cause the brakes to wear out quickly and reduce fuel economy.



ADVANCETRAC® WITH ROLL STABILITY CONTROL™ (RSC) STABILITY ENHANCEMENT SYSTEM (IF EQUIPPED)

AdvanceTrac® with RSC is an integrated system with four major components: Anti-lock Brake System (ABS), Traction Control, yaw control and a vehicle-roll motion sensor. It automatically utilizes these elements in varying combinations to help give the driver optimum control at all times. AdvanceTrac®, which includes ABS, Traction Control and yaw control, helps your vehicle maintain traction when driving on slippery and/or hilly road surfaces, by detecting and controlling wheel spin. Excessive wheel spin is controlled by momentarily reducing engine power and rapidly applying the anti-lock brakes. The system is a driver aid which makes your vehicle easier to handle primarily on snow and ice-covered roads. RSC detects potential rollover type situations and quickly engages AdvanceTrac® to help keep your tires firmly planted on the ground.

If your vehicle should become stuck in deep snow or mud, try switching the AdvanceTrac® with RSC system off by pressing the AdvanceTrac® with RSC button located on the center console. This will allow your tires to “dig” for traction.

If the AdvanceTrac® with RSC system is activated and deactivated excessively in a short period of time, the brake portion of the system will shut down to allow the brakes to cool down. A limited AdvanceTrac® with RSC function using only engine power reduction will still help control the wheels from over-spinning. When the brakes have cooled down, the system will again function normally. Anti-lock braking is not affected by this condition and will function normally during the cool-down period.

The AdvanceTrac® with RSC system enhances your vehicle's stability during maneuvers that require all available tire traction, like in wet/snowy/icy road conditions and/or when performing emergency maneuvers. In an emergency lane-change, the driver will experience better overall vehicle traction, and have better control of the vehicle.

The AdvanceTrac® with RSC system helps the driver maintain steering control if the vehicle begins to slide excessively left or right or spin out. AdvanceTrac® with RSC will attempt to correct the sliding motion by applying brake force at individual tires and, if necessary, by reducing engine power.

Driving conditions, which may activate the AdvanceTrac® with RSC system, include:

- Taking a turn too fast

Driving

- Maneuvering quickly to avoid an accident, pedestrian or obstacle
- Hitting a patch of ice
- Changing lanes on a snow-rutted road
- Entering a snow-free road from a snow-covered side street, or vice versa
- Entering a paved road from a gravel road, or vice versa
- Hitting a curb while turning
- Driving on slick surfaces
- Cornering while towing a heavily loaded trailer (refer to *Trailer Towing* in this chapter)

The RSC feature works to further enhance the vehicle's overall stability during aggressive maneuvers. The RSC feature helps maintain roll stability of the vehicle during aggressive maneuvers by applying brake force to one or more wheels.

The AdvanceTrac® with RSC system automatically turns on when the engine is started. However, the system does not function when the vehicle is traveling in R (Reverse) or, if equipped with four-wheel drive, in 4L (4X4 LOW). In R (Reverse) or in 4L (4X4 LOW), ABS and the traction enhancement feature will continue to function.

The AdvanceTrac® with RSC button allows the driver to control the availability of the AdvanceTrac® with RSC system. The RSC system status is indicated by a warning



indicator light with a “sliding car” icon in the instrument cluster that will flash when the system is activated and an indicator light in the control button that will illuminate when the system is turned off. In vehicles with a message center, the message “ADVANCETRAC OFF” will be displayed.

If a failure is detected in the AdvanceTrac® with RSC system, the warning indicator light in the instrument cluster will stay on. If the warning indicator light in the instrument cluster remains on while the engine is running, have the system serviced by an authorized dealer immediately.

Pressing the button once will disable the AdvanceTrac® with RSC stability enhancement system and the engine power reduction portion of the traction enhancement feature; the brake portion of the traction enhancement feature will still function normally. Pressing and holding the button for more than five seconds will disable the AdvanceTrac® with

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RSC stability enhancement **and** traction enhancement feature. If the vehicle is stuck in snow or mud or when driving in deep sand, switching off the AdvanceTrac® with RSC system may be beneficial so the wheels are allowed to spin. If your vehicle seems to lose engine power while driving in deep sand or very deep snow, switching off the AdvanceTrac® with RSC stability enhancement system will restore full engine power and will enhance momentum through the obstacle.

Some drivers may notice a slight movement of the brake pedal when the AdvanceTrac® with RSC performs a system self-check. During AdvanceTrac® with RSC system operation you may experience the following:

- A rumble or grinding noise
- A slight deceleration of the vehicle
- The AdvanceTrac® with RSC indicator light will flash
- If your foot is on the brake pedal, you will feel a vibration in the pedal.
- If the driving condition is severe and your foot is not on the brake, the brake pedal will move to apply higher brake forces. You may also hear a whoosh of air from under the instrument panel during this severe condition.

All these conditions are normal during AdvanceTrac® with RSC operation.

Do not alter or modify your vehicle's suspension or steering; the resulting changes to the vehicle's handling can adversely affect the AdvanceTrac® with Roll Stability Control™ system. Also, do not install a stereo loudspeaker near the front center console or under either front seat. The speaker vibrations can adversely affect the AdvanceTrac® with Roll Stability Control™ sensors located in this area.

Note: Pressing the AdvanceTrac® with RSC button will disable the AdvanceTrac® with RSC system.



Aggressive driving in any road conditions can cause you to lose control of your vehicle increasing the risk of severe personal injury or property damage. The occurrence of an AdvanceTrac® with Roll Stability Control™ event is an indication that at least some of the tires have exceeded their ability to grip the road; this may lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. If you experience a severe road event, SLOW DOWN.

Driving

STEERING

Your vehicle is equipped with power steering. Power steering uses energy from the engine to decrease the driver's effort in steering the vehicle.

To prevent damage to the power steering pump:

- Never hold the steering wheel to the extreme right or the extreme left for more than a few seconds when the engine is running.
- Do not operate the vehicle with the power steering pump fluid level below the MIN mark on the reservoir.

If the power steering system breaks down (or if the engine is turned off), you can steer the vehicle manually, but it takes more effort.

If the steering wanders or pulls, check for:

- Underinflated tire(s) on any wheel(s)
- Uneven vehicle loading
- High crown in center of road
- High crosswinds
- Wheels out of alignment
- Loose or worn suspension components

AIR SUSPENSION SYSTEM (IF EQUIPPED)

The air suspension system is designed to improve ride comfort, vehicle handling and general vehicle performance by adjusting the vehicle's ride height according to vehicle speed, weight added to or removed from the vehicle and four-wheel drive (if equipped) operation. Normal vehicle operation does not require any action by the driver.

When you enter the vehicle and the ignition is off, the air suspension will have automatically lowered the vehicle to its lowest height to provide easier entry. When a door or the liftgate is opened, the system memorizes and maintains that height until either all doors are closed or the vehicle's speed exceeds 15 mph (24 km/h). The air suspension system will then raise the vehicle's height to its normal position when the ignition is turned on, all doors are closed and the transmission is shifted from P (Park).

When the vehicle is in motion, the air suspension will adjust the vehicle ride height to normal operating position to maximize your ride comfort. If your vehicle is equipped with four-wheel drive and you shift into 4WD LOW, the air suspension will not move to its lowest position; instead, the ride height is raised above the normal ride height position (at speeds below 35 mph [56 km/h]) to improve ground clearance.

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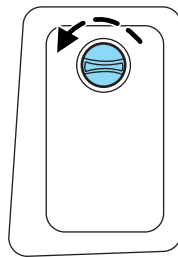
If a load is added to, or removed from the vehicle, the load leveling feature of the air suspension system will adjust the suspension to keep the vehicle at a constant level.

When exiting the vehicle, the air suspension will automatically lower the vehicle to its lowest height to provide easier exit. You may hear a buzz or click from the air suspension system when the ignition is turned off. The air suspension system will stay active for 40 minutes after the ignition is turned off to accommodate any load changes. (The air compressor may run when the vehicle is off; this is normal.)

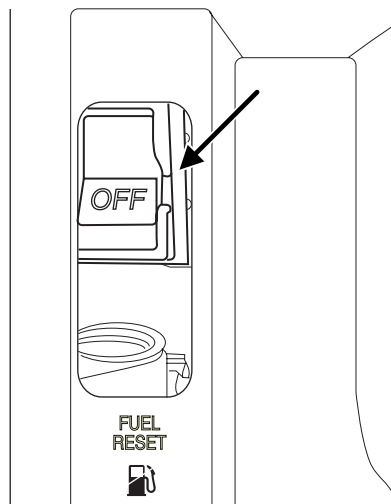
The air suspension shut-off switch is located behind an access panel on the left rear quarter trim panel, near the liftgate. To remove the panel, turn the control counterclockwise.



On vehicles equipped with air suspension, turn the air suspension and the ignition switch off prior to jacking, hoisting or towing your vehicle.



Press the bottom portion of the switch to turn off the air suspension.



Driving

LIMITED-SLIP 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 limited slip axle functions like a standard rear axle.

Extended use of other than the manufacturer's specified size tires on a limited slip 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.

PREPARING TO DRIVE



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



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

Your vehicle has special design and equipment features to make it capable of performing in a wide variety of circumstances. These special design features, such as larger tires and increased ground clearance, give the vehicle a higher center of gravity than a passenger car.



Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.



Loaded vehicles, with a higher center of gravity, may handle differently than unloaded vehicles. Extra precautions, such as slower speeds and increased stopping distance, should be taken when driving a heavily loaded vehicle.

Your vehicle has the capability to haul more cargo and people than most passenger cars. Depending upon the type and placement of the load, hauling people and cargo may raise the center of gravity of the vehicle.

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Use extra caution while becoming familiar with your vehicle. Know the capabilities and limitations of both you as a driver and your vehicle.

AUTOMATIC TRANSMISSION OPERATION

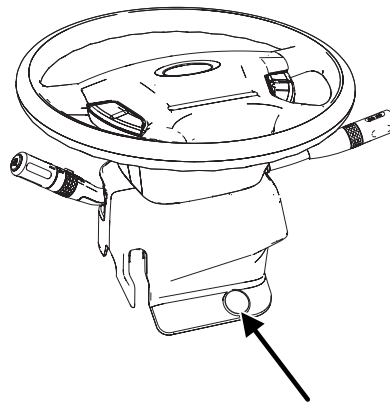
Brake-shift interlock

This vehicle is equipped with a park/brake-shift interlock feature that prevents the gearshift lever from being moved from P (Park) when the ignition is in the ON position unless brake pedal is depressed.

If you cannot move the gearshift lever out of P (Park) with ignition in the ON position and the brake pedal depressed, or when the ignition is in the OFF position, it is possible that a fuse has blown or the vehicle's brakelamps are not operating properly. Refer to *Fuses and relays* in the *Roadside Emergencies* chapter.

If the fuse is not blown, perform the following procedure:

1. Apply the parking brake, turn the ignition to OFF, then remove the key.
2. Push the tilt steering lever down and tilt the steering column all the way up.
3. Locate the round access plug on the underside of the steering column cover.



4. Remove the access plug using a flat-head screwdriver, then insert your finger and pull the override button toward you. With the button pulled toward you, apply the brake pedal and shift the transmission into N (Neutral).
5. Reinstall the access plug cover, start the vehicle and release the parking brake.

Driving



Do not drive your vehicle until you verify that the brakelamps are working.



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



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

Driving with a 4-speed automatic transmission

Your vehicle's automatic transmission is equipped with a special shift strategy that insures maximum heater performance during cold weather operation.

When ambient temperature is 23°F (-5°C) or below and the engine coolant temperature is below 100°F (38°C), light throttle upshifts may be slightly delayed. Once the engine coolant temperature reaches 160°F (71°C) the normal shift strategy will resume. This is normal operation and will not affect the function or the durability of the transmission.

If the normal shift strategy does not resume once the engine coolant temperature reaches the normal operating temperature, or if the downshifts and other throttle conditions do not function normally, see your authorized dealer as soon as possible.

Understanding gearshift positions

To put your vehicle in gear, start the engine, depress the brake pedal, then move gearshift lever out of P (Park).



Hold the brake pedal down while you move the gearshift lever from P (Park) to another position. If you do not hold the brake pedal down, your vehicle may move unexpectedly and injure someone.

P (Park)


Always come to a complete stop before shifting into P (Park). Make sure the gearshift lever is securely latched in P (Park). This position locks the transmission and prevents the rear wheels from turning.



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

R (Reverse)

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

P  RND21

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 gear.

P R  ND21

D (Drive) with Overdrive

The normal driving position for the best fuel economy. Transmission operates in gears one through four.

P RND  21

D (Drive) without Overdrive

D (Drive) with Overdrive can be deactivated by pressing the transmission control switch (TCS) on the end of the gearshift lever.



The transmission control indicator light (TCIL) will illuminate in the instrument cluster.

**O/D
OFF**

Transmission operates in gears one through three. D (Drive) without Overdrive provides more engine braking than D (Drive) with Overdrive and is useful when:

- driving with a heavy load.
- towing a trailer up or down steep hills.
- additional engine downhill braking is desired. If towing a trailer, refer to *Driving while you tow* in the *Trailer towing* section.

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Driving

To return to D (Drive) with Overdrive mode, press the transmission control switch (TCS). The TCIL will no longer be illuminated.

Each time the vehicle is started, the transmission will automatically return to normal overdrive mode.

Every time the vehicle is shut off and restarted, you must press the transmission control switch to cancel overdrive operation if driving in overdrive is not desired.

2 (Second)

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

P RND **2** 1

1 (First)

Use 1 (Low) to provide maximum engine braking on steep downgrades. Upshifts can be made by shifting to 2 (Second) or to D (Drive). Selecting 1 (Low) at higher speeds causes the transmission to shift to a lower gear, and will shift to 1 (Low) after vehicle decelerates to the proper speed.

P RND **2** 1

Forced Downshifts

To gain acceleration in D (Drive) with Overdrive or D (Drive) without Overdrive (O/D OFF) when passing another vehicle, push the accelerator to the floor. The transmission will downshift to the appropriate gear: third, second or first gear.

If your vehicle gets stuck in mud or snow

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

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

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

If your vehicle is equipped with AdvanceTrac® with RSC, it may be beneficial to turn the system off so the wheels are allowed to spin.

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REVERSE SENSING SYSTEM (IF EQUIPPED)

The RSS sounds a tone to warn the driver of obstacles near the rear bumper when R (Reverse) is selected. The RSS will assist the driver in detecting certain objects while:

- the vehicle is moving toward a stationary object at a speed of 3 mph (5 km/h) or less.
- the vehicle is in R (Reverse) but not moving backward (the brake pedal is depressed or the parking brake is applied), and a moving object is approaching the rear of the vehicle at a speed of 3 mph (5 km/h) or less.
- the vehicle is moving in reverse 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).

The RSS is not effective at speeds greater than 3 mph (5 km/h) and may not detect certain angular or moving objects.



To help avoid personal injury, please read and understand the limitations of the reverse sensing system as contained in this section. Reverse sensing is only an aid for some (generally large and fixed) objects when moving in reverse on a flat surface at “parking speeds”. Inclement weather may also affect the function of the RSS; this may include reduced performance or a false activation.



To help avoid personal injury, always use caution when in R (Reverse) and when using the RSS.



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



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

Driving

The RSS detects obstacles up to six feet (two meters) from the rear bumper with a decreased coverage area at the outer corners of the bumper, (refer to the figures for approximate zone coverage areas). As you move closer to the obstacle, the rate of the tone increases. When the obstacle is less than 10 inches (25.0 cm) away, the tone will sound continuously. If the RSS detects a stationary or receding object further than 10 inches (25.0 cm) from the side of the vehicle, the tone will sound for only three seconds. Once the system detects an object approaching, the tone will sound again.

Whenever a warning is received, the radio volume will be lowered to a volume that will allow the tones to be heard. The radio volume will return to the previous level after the warning goes away.

The system is automatically enabled when the gear selector is placed in R (Reverse) and the ignition is ON. The RSS control in the message center allows the driver to disable the system only when the ignition is ON and the gear selector in R (Reverse).

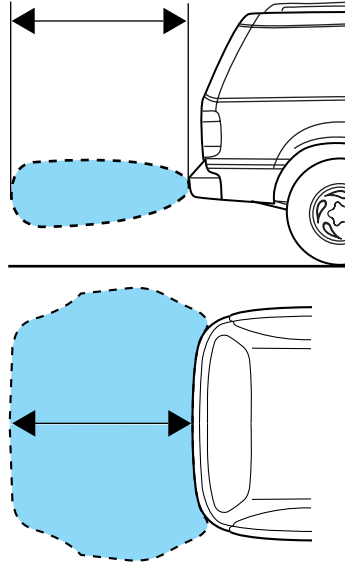
Keep the RSS sensors (located on the rear bumper/fascia) free from snow, ice and large accumulations of dirt (do not clean the sensors with sharp objects). If the sensors are covered, it will affect the accuracy of the RSS.

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

CONTROL TRAC FOUR-WHEEL DRIVE (4X4) OPERATION (IF EQUIPPED)



For important information regarding safe operation of this type of vehicle, see **Preparing to drive your vehicle** in this chapter.



If equipped with the Control Trac 4x4 System, and 4L (4x4 LOW) is selected while the vehicle is moving, the system will not engage. This is normal and should be no reason for concern. Before 4L (4x4 LOW) can be engaged, the vehicle must be brought to a complete stop, the brake pedal depressed and the transmission placed in N (Neutral).

The vehicle should not be operated in 4H (4x4 HIGH) or 4L (4x4 LOW) on dry pavement. Doing so could result in difficult disengagement of the transfer case, increased tire wear, decreased fuel economy and may damage driveline components.

Your 4x4 features the heavy-duty Control Trac system which includes a computer-operated transfer case. This unique system is interactive with the road, continually monitoring and adjusting torque delivery to the front and rear wheels to optimize vehicle control.

System indicator lights

The Control Trac system indicator lights illuminate only under the following conditions. If these lights illuminate when driving in 2H or A4WD, contact your authorized dealer as soon as possible.

- **4X4 HIGH** - momentarily illuminates when the vehicle is started. Illuminates when 4H is selected.
- **4X4 LOW** - momentarily illuminates when the vehicle is started. Illuminates when 4L is selected.

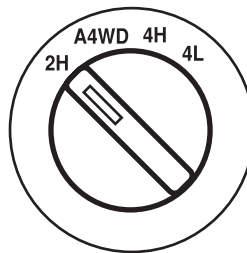
**4x4
HIGH**

**4x4
LOW**

Positions of the Control Trac system

The Control Trac system functions in four modes:

- **2H (2WD HIGH)** delivers power to the rear wheels only. This is appropriate for normal on-road driving on dry pavement.
- **A4WD (4X4 AUTO)** provides electronic control four-wheel drive with power delivered to all four wheels, as required, for increased traction. This is appropriate for all on-road driving conditions, such as dry road surfaces, wet pavement, snow or gravel.



Driving

- **4H (4X4 HIGH)** provides mechanically locked four-wheel drive power to front and rear wheels. The “4X4 HIGH” light will illuminate in the instrument cluster when this position is selected. This position is not recommended for use on dry pavement. This position is only intended for severe winter or off-road conditions, such as deep snow, ice or shallow sand.
- **4L (4X4 LOW)** provides mechanically locked four-wheel drive when extra power at reduced speeds is required. The “4X4 LOW” light will illuminate in the instrument cluster when this position is selected. This position is not recommended for use on dry pavement. Use this position for off-road low-speed operation or when extra power is required, such as climbing steep grades, going through deep sand or pulling a boat out of the water.

Note: If your vehicle is equipped with AdvanceTrac® with RSC, the AdvanceTrac® with RSC system will automatically turn off the stability enhancement feature when you shift the Control Trac A4WD system into 4L (4X4 LOW). The brake traction enhancement feature will still be enabled.

The AdvanceTrac® with RSC stability enhancement system can be turned off manually by pressing the AdvanceTrac® with RSC button (refer to *AdvanceTrac® with Roll Stability Control (RSC) Stability Enhancement System* in this chapter) while operating in 2H, A4WD or 4H while driving in deep sand, very deep snow or more strenuous off-road maneuvers. This will disable the engine management feature, allowing the vehicle to maintain full power and enhanced momentum through the obstacle.

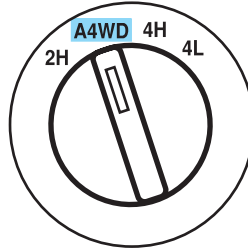


Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns or abrupt maneuvers in these vehicles.

Note: The Control Trac selector knob should not be changed while the rear wheels are slipping.

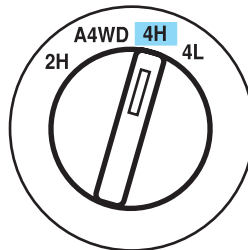
Shifting from 2H to A4WD or 4H

Move the control to the A4WD or 4H position at any forward speed up to 55 mph (88 km/h). The “4X4” light in the instrument cluster will illuminate if 4H is selected.



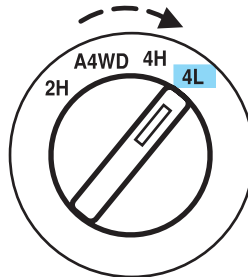
Shifting from A4WD to 4H

Move the control from A4WD to 4H at a stop or while driving at any speed.



Shifting from 2H, A4WD or 4H to 4L

1. Bring the vehicle to a stop and keep the brake pedal depressed.
2. Place the gearshift in N (Neutral).
3. Move the control to the 4L position.



If any of the above shift conditions are not met, the message center will display the appropriate information.

Note: Some noise may be heard as the system shifts or engages.

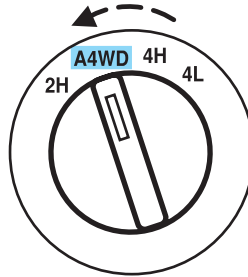
Driving

Shifting from 4L to 4H, A4WD or 2H

1. Bring the vehicle to a stop and keep the brake pedal depressed.
2. Place the gearshift in N (Neutral).
3. Move the control to the 4H, A4WD or 2H position.

If any of the above shift conditions are not met, the message center will display the appropriate information.

Note: Some noise may be heard as the system shifts or engages.



Driving off-road with truck and utility vehicles

Four-wheel drive vehicles are specially equipped for driving on sand, snow, mud and rough terrain and have operating characteristics that are somewhat different from conventional vehicles, both on and off the road.

The AdvanceTrac® with RSC stability enhancement system can be turned off manually by pressing the AdvanceTrac® with RSC button (refer to *AdvanceTrac® with Roll Stability Control (RSC) Stability Enhancement System* in this chapter) while operating in 2H, A4WD or 4H while driving in deep sand, very deep snow or more strenuous off-road maneuvers. This will disable the engine management feature, allowing the vehicle to maintain full power and enhanced momentum through the obstacle.

How your vehicle differs from other vehicles

Truck and utility vehicles can differ from some other vehicles. Your vehicle may be higher to allow it to travel over rough terrain without getting hung up or damaging underbody components.

The differences that make your vehicle so versatile also make it handle differently than an ordinary passenger car.

Maintain steering wheel control at all times, especially in rough terrain. Since sudden changes in terrain can result in abrupt steering wheel motion, make sure you grip the steering wheel from the outside. Do not grip the spokes.

Drive cautiously to avoid vehicle damage from concealed objects such as rocks and stumps.

You should either know the terrain or examine maps of the area before driving. Map out your route before driving in the area. To maintain

Driving

steering and braking control of your vehicle, you must have all four wheels on the ground and they must be rolling, not sliding or spinning.

Basic operating principles

- Do not use 4H (4x4 HIGH) or 4L (4x4 LOW) on dry, hard surfaced roads. This may damage the drivelines and axles.
- Drive slower in strong crosswinds which can affect the normal steering characteristics of your vehicle.
- Be extremely careful when driving on pavement made slippery by loose sand, water, gravel, snow or ice.

If your vehicle goes off the edge of the pavement

- If your vehicle goes off the edge of the pavement, slow down, but avoid severe brake application. Ease the vehicle back onto the pavement only after reducing your speed. Do not turn the steering wheel too sharply while returning to the road surface.
- It may be safer to stay on the apron or shoulder of the road and slow down gradually before returning to the pavement. You may lose control if you do not slow down or if you turn the steering wheel too sharply or abruptly.
- It often may be less risky to strike small objects, such as highway reflectors, with minor damage to your vehicle rather than attempt a sudden return to the pavement which could cause the vehicle to slide sideways out of control or roll over. Remember, your safety and the safety of others should be your primary concern.



Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

If your vehicle gets stuck

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

Driving

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

Do not rock the vehicle for more than a few minutes or damage to the transmission and tires may occur or the engine may overheat.



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



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



Do not spin the wheels at over 35 mph (56 km/h). The tires may fail and injure a passenger or bystander.

Emergency maneuvers

- In an unavoidable emergency situation where a sudden sharp turn must be made, remember to avoid “over-driving” your vehicle, i.e., turn the steering wheel only as rapidly and as far as required to avoid the emergency. Excessive steering will result in less vehicle control, not more. Additionally, smooth variations of the accelerator and/or brake pedal pressure should be utilized if changes in vehicle speed are called for. Avoid abrupt steering, acceleration or braking which could result in an increased risk of loss of vehicle control, vehicle rollover and/or personal injury. Use all available road surface to return the vehicle to a safe direction of travel.
- In the event of an emergency stop, avoid skidding the tires and do not attempt any sharp steering wheel movements.



Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

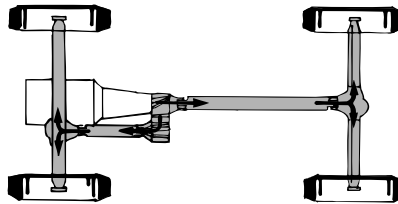
- If the vehicle goes from one type of surface to another (i.e., from concrete to gravel) there will be a change in the way the vehicle responds to a maneuver (steering, acceleration or braking). Again, avoid these abrupt inputs.

Control Trac four-wheel drive system (if equipped)

When a four-wheel drive mode is selected, the Control Trac system uses all four wheels to power the vehicle. This increases traction, enabling you to drive over terrain and road conditions that a conventional two-wheel drive vehicle cannot.

Power is supplied to all four wheels through a transfer case. On four-wheel drive vehicles, the transfer case allows you to select four-wheel drive when necessary. Information on transfer case operation and shifting procedures can be found in this chapter.

Information on transfer case maintenance can be found in the *Maintenance and Specifications* chapter. You should become thoroughly familiar with this information before you operate your vehicle.



Normal characteristics

On some four-wheel drive models, the initial shift from two-wheel drive to four-wheel drive while the vehicle is moving can cause some momentary clunk and ratcheting sounds. This is the front drivetrain coming up to speed and engaging the front wheels, and is not cause for concern.

Sand

When driving over sand, try to keep all four wheels on the most solid area of the trail. Avoid reducing the tire pressures but shift to a lower gear and drive steadily through the terrain. Apply the accelerator slowly and avoid spinning the wheels.

Note: If your vehicle is equipped with the Tire Pressure Monitoring System (TPMS), the system indicator light may illuminate depending on how much air is released from your tires and/or how long you drive the vehicle under these conditions.

Avoid excessive speed because vehicle momentum can work against you and cause the vehicle to become stuck to the point that assistance may be required from another vehicle. Remember, you may be able to back out the way you came if you proceed with caution.

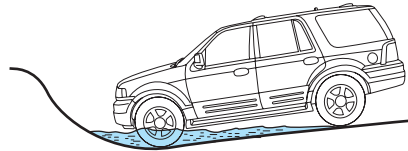
Driving

If your vehicle is equipped with AdvanceTrac® with RSC, press the AdvanceTrac® with RSC button (refer to *AdvanceTrac® with Roll Stability Control (RSC) Stability Enhancement System* in this chapter) while driving in deep sand if you experience excessive engine power reduction.

Mud and water

If you must drive through high water, drive slowly. Traction or brake capability may be limited.

When driving through water, determine the depth; avoid water higher than the bottom of the hubs (if possible) and proceed slowly. If the ignition system gets wet, the vehicle may stall.



Once through water, always try the brakes. Wet brakes do not stop the vehicle as effectively as dry brakes. Drying can be improved by moving your vehicle slowly while applying light pressure on the brake pedal.

Be cautious of sudden changes in vehicle speed or direction when you are driving in mud. Even four-wheel drive vehicles can lose traction in slick mud. As when you are driving over sand, apply the accelerator slowly and avoid spinning your wheels. If the vehicle does slide, steer in the direction of the slide until you regain control of the vehicle.

If the transmission, transfer case or front axle are submerged in water, their fluids should be checked and changed, if necessary.

Driving through deep water may damage the transmission.

If the front or rear axle is submerged in water, the axle lubricant should be replaced.

After driving through mud, clean off residue stuck to rotating driveshafts and tires. Excess mud stuck on tires and rotating driveshafts causes an imbalance that could damage drive components.

“Tread Lightly” is an educational program designed to increase public awareness of land-use regulations and responsibilities in our nations wilderness areas. Ford Motor

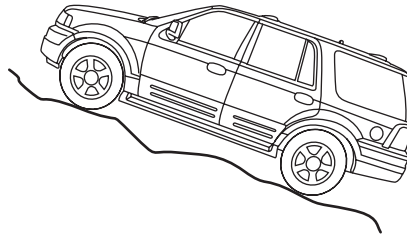


Company joins the U.S. Forest Service and the Bureau of Land Management in encouraging you to help preserve our national forest and other public and private lands by “treading lightly.”

Driving on hilly or sloping terrain

Although natural obstacles may make it necessary to travel diagonally up or down a hill or steep incline, you should always try to drive straight up or straight down. **Avoid driving crosswise or turning on steep slopes or hills.** A danger lies in losing traction, slipping sideways and possibly rolling over. Whenever driving on a hill, determine beforehand the route you will use. Do not drive over the crest of a hill without seeing what conditions are on the other side. Do not drive in reverse over a hill without the aid of an observer.

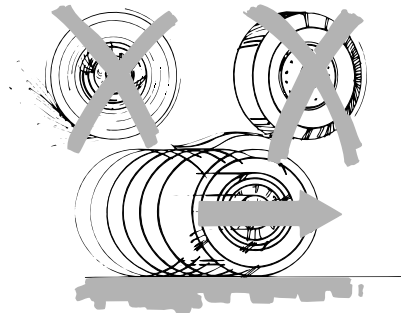
When climbing a steep slope or hill, start in a lower gear rather than downshifting to a lower gear from a higher gear once the ascent has started. This reduces strain on the engine and the possibility of stalling.



If you do stall out, do not try to turn around because you might roll over. It is better to back down to a safe location.

Apply just enough power to the wheels to climb the hill. Too much power will cause the tires to slip, spin or lose traction, resulting in loss of vehicle control.

Descend a hill in the same gear you would use to climb up the hill to avoid excessive brake application and brake overheating. Do not descend in neutral; instead, disengage overdrive or manually shift to a lower gear. When descending a steep hill, avoid sudden hard braking as you could lose control. When you brake hard, the front wheels can't turn and if they aren't turning, you won't be able to steer. The front wheels have to be turning in order to steer the vehicle. Rapid pumping of the brake pedal will help you slow the vehicle and still maintain steering control.



If your vehicle has anti-lock brakes, apply the brakes steadily. Do not "pump" the brakes.

Driving

Driving on snow and ice

Four-wheel drive vehicles have advantages over two-wheel drive vehicles in snow and ice but can skid like any other vehicle.

Should you start to slide while driving on snowy or icy roads, turn the steering wheel in the direction of the slide until you regain control.

Avoid sudden applications of power and quick changes of direction on snow and ice. Apply the accelerator slowly and steadily when starting from a full stop.

Avoid sudden braking as well. Although a four-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in snow and ice, it won't stop any faster, because as in other vehicles, braking occurs at all four wheels. Do not become overconfident as to road conditions.

Make sure you allow sufficient distance between you and other vehicles for stopping. Drive slower than usual and consider using one of the lower gears. In emergency stopping situations, apply the brake forcefully and steadily. Do not "pump" the brakes. Refer to the *Brakes* section of this chapter for additional information on the operation of the anti-lock brake system.

Maintenance and Modifications

The suspension and steering systems on your vehicle have been designed and tested to provide predictable performance whether loaded or empty and durable load carrying capability. For this reason, Ford Motor Company strongly recommends that you do not make modifications such as adding or removing parts (such as lift kits or stabilizer bars) or by using replacement parts not equivalent to the original factory equipment.

Any modifications to a vehicle that raise the center of gravity can make it more likely the vehicle will roll over as a result of a loss of control. Ford Motor Company recommends that caution be used with any vehicle equipped with a high load or device (such as ladder racks or pickup box cover).

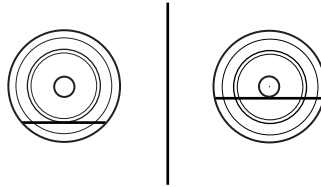
Failure to maintain your vehicle properly may void the warranty, increase your repair cost, reduce vehicle performance and operational capabilities and adversely affect driver and passenger safety. Frequent inspection of vehicle chassis components is recommended if the vehicle is subjected to heavy off-road usage.

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DRIVING THROUGH WATER

If driving through deep or standing water is unavoidable, proceed very slowly especially when the depth is not known. Never drive through water that is higher than the bottom of the wheel rims (for cars) or the bottom of the hubs (for trucks).



When driving through water, traction or brake capability may be limited. Also, water may enter your engine's air intake and severely damage your engine or your vehicle may stall. **Driving through deep water where the transmission vent tube is submerged may allow water into the transmission and cause internal transmission damage.**

Once through the water, always dry the brakes by moving your vehicle slowly while applying light pressure on the brake pedal. Wet brakes do not stop the vehicle as quickly as dry brakes.

Roadside Emergencies

ROADSIDE ASSISTANCE

Getting roadside assistance

To fully assist you should you have a vehicle concern, Ford Motor Company offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty. The service is available:

- 24-hours, seven days a week
- for the New Vehicle Limited Warranty period of three years or 36,000 miles (60,000 km), whichever occurs first on Ford and Mercury vehicles, and four years or 50,000 miles (80,000 km) on Lincoln vehicles.

Roadside assistance will cover:

- a flat tire change with a good spare (except Ford GT which has a tire inflation kit)
- battery jump start
- lock-out assistance (key replacement cost is the customer's responsibility)
- fuel delivery – Independent Service Contractors, if not prohibited by state, local or municipal law shall deliver up to 2.0 gallons (7.5L) of gasoline or 5 gallons (18.9L) of diesel fuel to a disabled vehicle.
- winch out – available within 100 feet (30.5 meters) of a paved or county maintained road, no recoveries.
- towing – Ford/Mercury/Lincoln eligible vehicle towed to an authorized dealer within 35 miles (56.3 km) of the disablement location or to the nearest authorized dealer. If a member requests to be towed to an authorized dealer more than 35 miles (56.3 km) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 miles (56.3 km).

Trailers shall be covered up to \$100 if the disabled eligible vehicle requires service at the nearest authorized dealer. If the trailer is disabled, but the towing vehicle is operational, the trailer does not qualify for any roadside services.

Roadside Emergencies

Canadian customers refer to your Owner Information Guide for information on:

- coverage period
- exact fuel amounts
- towing of your disabled vehicle
- emergency travel expense reimbursement
- travel planning benefits

Using roadside assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. In the United States, this card is found in the Owner Guide portfolio in the glove compartment. In Canada, the card is found in the *Owner Information Guide* in the glove compartment.

U.S. Ford or Mercury vehicle customers who require roadside assistance, call 1-800-241-3673; Lincoln vehicle customers call 1-800-521-4140.

Canadian customers who require roadside assistance, call 1-800-665-2006.

If you need to arrange roadside assistance for yourself, Ford Motor Company will reimburse a reasonable amount. To obtain reimbursement information, U.S. Ford or Mercury vehicles customers call 1-800-241-3673; Lincoln vehicle customers call 1-800-521-4140.

Canadian customers who need to obtain reimbursement information, call 1-800-665-2006.

Roadside coverage beyond basic warranty

In the United States, you may purchase additional roadside assistance coverage beyond this period through the Ford Auto Club by contacting your authorized dealer.

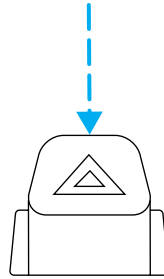
Similarly in Canada, for uninterrupted Roadside Assistance coverage, you may purchase extended coverage prior to your Basic Warranty's Roadside Assistance expiring. For more information and enrollment, contact 1-877-294-2582 or visit our website at www.ford.ca.

Roadside Emergencies

HAZARD FLASHER

Use only in an emergency to warn traffic of vehicle breakdown, approaching danger, etc. The hazard flashers can be operated when the ignition is off.

- The hazard lights control is located on top of the steering column.
- Depress hazard lights control to activate all hazard flashers simultaneously.
- Depress control again to turn the flashers off.



FUEL PUMP SHUT-OFF SWITCH FUEL RESET

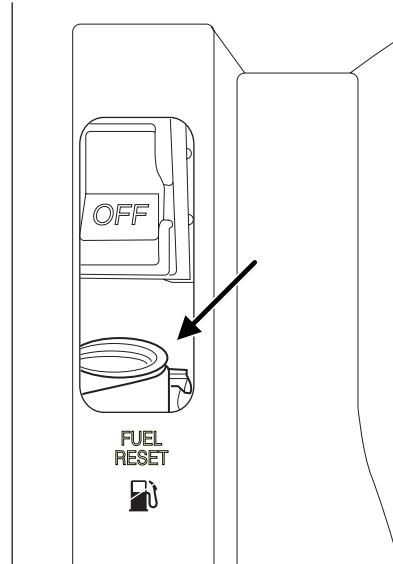
The fuel pump shut-off switch is a device intended to stop the electric fuel pump when your vehicle has been involved in a substantial jolt.

After a collision, if the engine cranks but does not start, the fuel pump shut-off switch may have been activated.

The fuel pump shut-off switch is located in the left rear quarter trim panel, near the liftgate. The switch is located behind an access panel.

Roadside Emergencies

The fuel pump shut-off switch has a red reset button on top of it and is located beneath the air suspension switch (if equipped).



Use the following procedure to reset the fuel pump shut-off switch.

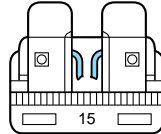
1. Turn the ignition to the OFF position.
2. Check the fuel system for leaks.
3. If no fuel leak is apparent, reset the fuel pump shut-off switch by pushing in on the reset button.
4. Turn the ignition to the ON position. Pause for a few seconds and return the key to the OFF position.
5. Make a further check for leaks in the fuel system.

Roadside Emergencies

FUSES AND RELAYS

Fuses

If electrical components in the vehicle are not working, a fuse may have blown. Blown fuses are identified by a broken wire within the fuse. Check the appropriate fuses before replacing any electrical components.



Note: Always replace a fuse with one that has the specified amperage rating. Using a fuse with a higher amperage rating can cause severe wire damage and could start a fire.

Standard fuse amperage rating and color

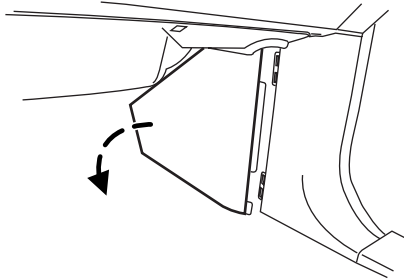
COLOR					
Fuse rating	Mini fuses	Standard fuses	Maxi fuses	Cartridge maxi fuses	Fuse link cartridge
2A	Grey	Grey	—	—	—
3A	Violet	Violet	—	—	—
4A	Pink	Pink	—	—	—
5A	Tan	Tan	—	—	—
7.5A	Brown	Brown	—	—	—
10A	Red	Red	—	—	—
15A	Blue	Blue	—	—	—
20A	Yellow	Yellow	Yellow	Blue	Blue
25A	Natural	Natural	—	—	—
30A	Green	Green	Green	Pink	Pink
40A	—	—	Orange	Green	Green
50A	—	—	Red	Red	Red
60A	—	—	Blue	—	Yellow
70A	—	—	Tan	—	Brown
80A	—	—	Natural	—	Black

Roadside Emergencies

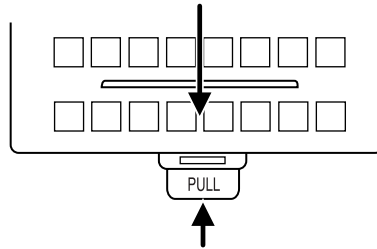
Passenger compartment fuse panel / power distribution box

The fuse panel is located under the right-hand side of the instrument panel.

To remove the trim panel for access to the fuse box, pull the panel toward you and swing it out away from the side and remove it. To reinstall it, line up the tabs with the grooves on the panel, then push it shut.



To remove the fuse box cover, place a finger behind the PULL tab and your thumb above the PULL tab as shown in the illustration, then pull the cover off.



To reinstall the fuse box cover, place the top part of the cover on the fuse panel, then push the bottom part of the cover until you hear it click shut. Gently pull on the cover to make sure it is seated properly.



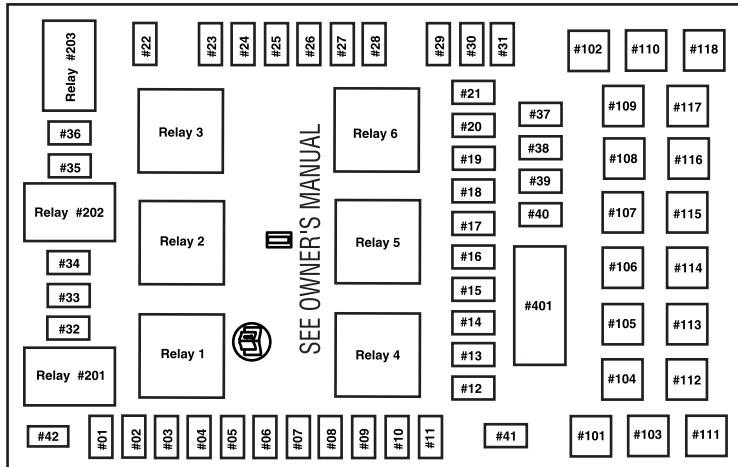
Always disconnect the battery before servicing high current fuses.



To reduce the risk of electrical shock, always replace the cover to the passenger compartment fuse panel/power distribution box before reconnecting the battery.

If the battery has been disconnected and reconnected, refer to the *Battery* section of the *Maintenance and Specifications* chapter.

Roadside Emergencies



The fuses are coded as follows.

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
1	7.5A*	Run/Accessory - Front wiper motor, Instrument cluster, Rear wiper motor
2	20A*	Turn signal/Hazard flasher, Stoplamp switch, Stoplamps, Center high-mount stop light (CHMSL), Turn signal lamps
3	7.5A*	Power mirror switch, Power mirrors (non-memory), Driver seat switch (memory), Memory module (logic power)
4	15A*	DVD player, Rear seat audio controls, CDDJ (navigation radio)

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
5	7.5A*	Powertrain Control Module (PCM) (KA power), Speed control deactivation switch, Manual climate control mode switch, Stoplamp switch, Brake-shift interlock (BSI) solenoid, EATC control head, Body Security Module (BSM) (KA power), 3rd row seat relay coils, SecuriLock LED
6	15A*	Headlamp switch (parklamps and switch backlight feed), Parklamps, License plate lamps, Foglamp relay coil, Trailer tow electric brake controller (illumination), BSM (autolamp, parklamps) Foglamp indicator
7	5A*	Radio (start signal)
8	10A*	Rear window defroster switch, Rear window defroster indicator (climate control head), Heated outside mirrors
9	—	Not used
10	20A*	Trailer tow back-up lamps relay, Trailer tow 7-wire connector (back-up lamps), Trailer tow parklamp relay, Trailer tow 7- and 4-pin connectors (parklamps)
11	10A*	A/C compressor clutch relay, A/C compressor clutch solenoid, 4x4 Integrated Wheel Ends (IWE) solenoid

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
12	15A*	Fuel pump relay, Fuel pump shut-off switch, Fuel pump driver module, Fuel pump motor
13	10A*	Manual climate control mode switch, Rear window defroster relay coil, A/C refrigerant containment switch, A/C de-icing switch, A/C low pressure switch, DATC control head, DATC solenoids, DATC blower control, Trailer tow battery charge relay coil
14	10A*	Daytime Running Lamps (DRL) ignition relay coil, Digital Transmission Range Sensor (DTRS) back-up lamps, Trailer tow back-up lamps relay coil, Electrochromatic mirror, Manual A/C blend door actuator
15	5A*	AdvanceTrac® with RSC switch, Instrument cluster (Run/Start feed)
16	10A*	ABS/AdvanceTrac® with RSC module (Run/Start feed)
17	15A*	Fog lamps
18	10A*	Auxiliary A/C temperature blend door actuator, Auxiliary A/C front auxiliary control, Turn signal flasher, Electrochromatic mirror, Auxiliary mode motor
19	10A*	Restraints Control Module (RCM)

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
20	30A*	BSM (door locks, liftgate glass release relay), Liftgate glass release motor, Door/Liftgate lock motors
21	15A*	Instrument cluster (B+), Interior (courtesy) lamps, Puddle lamps (outside mirrors)
22	10A*	Moonroof switch illumination, Radio (delayed accessory feed), Flip window switch, Flip window motors, EHAM antenna amplifier (navigation radio)
23	10A*	RH low beam
24	15A*	Interior demand lamps (front map/dome lamp, 2nd row dome/map lamp, glove compartment lamp, cargo lamp, roof rail lamps, vanity mirror lamps), Battery saver relay coil, Battery saver relay power, Heated Positive Crankcase Ventilation (PCV) valve
25	10A*	LH low beam
26	20A*	Horn relay, Horns
27	5A*	Compass module, Reverse sensing system module, Brake shift interlock solenoid, Overdrive cancel switch, Air suspension module (Run/Start sense)
28	5A*	PCM relay coil, SecuriLock transceiver, Heated PCV valve relay coil

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
29	30A*	Trailer tow electric brake controller, Trailer tow 7-wire connector (electric brake)
30	25A*	Air suspension module (air spring solenoids and height sensors), PCM (4x4 transfer case clutch)
31	20A*	Radio (B+), Subwoofer
32	15A*	Catalyst Monitor Sensors (CMS), Transmission solenoids, Canister vent solenoid, HEGO sensors, VMV solenoid, A/C compressor clutch relay coil, CMCV, VCT actuators
33	—	Not used
34	15A*	PCM, Fuel injectors, Mass Air Flow (MAF) sensor
35	20A*	Instrument cluster high beam indicator, High beam headlamps
36	10A*	Trailer tow right turn/stop lamps
37	20A*	Cargo area power point
38	25A*	Rear wiper motor, Washer pump (rear window wash)
39	20A*	Console power points (front and rear of console), Instrument panel power point (bench seat)
40	20A*	DRL relays, DRL foglamps, DRL headlamp relay coil, Headlamp switch (headlamps), Multifunction switch (flash-to-pass), BSM (autolamp headlamps relay), High beam relay coil, Fuse 25 (LH low beam), Fuse 23 (RH low beam)

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
41	20A*	Cigarette lighter, OBD II diagnostic connector
42	10A*	Trailer tow left turn/stop lamps
101	30A**	Starter motor relay, Starter motor solenoid
102	30A**	Ignition switch power
103	30A**	ABS/AdvanceTrac® with RSC module (pump motor)
104	30A**	LH 3rd row seat relay, LH 3rd row seat switch, LH 3rd row seat motor
105	30A**	Spare
106	30A**	Trailer tow battery charge relay, Trailer tow 7-way connector (battery charge)
107	30A**	Auxiliary A/C blower relay, Auxiliary A/C blower motor
108	30A**	Passenger seat motor switch
109	30A**	Driver seat motor switch (non-memory), Memory module, Power memory mirrors, Adjustable pedals switch and motor
110	30A**	Spare
111	50A**	Air suspension compressor, Air suspension compressor relay
112	30A**	ABS/AdvanceTrac® with RSC module (valves)
113	30A**	Front wiper motor, Washer pump (windshield wash)
114	40A**	Rear window defroster relay, Rear window defroster grid, Heated mirrors (Fuse 8)

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
115	30A**	Transfer case shift motor, 4x4 relays
116	40A**	Front blower motor relay, Front blower motor
117	30A**	RH 3rd row seat relay, RH 3rd row seat switch, RH 3rd row seat motor
118	30A**	Driver and passenger climate control seat module
401	30A CB (circuit breaker)	Power windows (circuit breaker), Main window switch, Window motors, Window switches, Moonroof module
R01	Starter relay	Starter motor solenoid
R02	Delayed accessory relay	Fuse 22, CB 401, Power windows, Switch backlighting, Radio, Moonroof, Flip windows, Navigation antenna amplifier
R03	Hi-beam relay	Fuse # 35, Hi-beam headlamps, Hi-beam indicator
R04	Rear window defrost relay	Fuse 8 (heated mirrors), Rear window defroster, Heated outside mirrors, Rear window defroster indicator (climate control head)
R05	Trailer tow battery charge relay	Trailer tow 7-wire connector (battery charge)
R06	Front blower relay	Front blower motor
R201	Trailer tow park lamp relay	Trailer tow 7-wire and 4-wire connectors (park lamps)
R202	Foglamp relay	Front foglamps

Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
R203	PCM relay	Fuse 32, Fuse 34, PCM solenoids and sensors
R301	Trailer tow back-up lamp relay	Trailer tow 7-wire connector (back-up lamps)
R302	Heated PCV valve relay	Heated PCV valve
R303	Fuel pump relay	Fuel pump shut-off switch, PCM (fuel pump monitor), Fuel pump, Fuel pump driver module
R304	Battery saver relay	Roof rail lamps, Vanity mirror lamps, Map/Dome lamp, Glove box lamp, Cargo area lamp, Outside mirror puddle lamps, Instrument cluster (interior lamps)
R305	Horn relay	Dual note horn
* Mini Fuses ** Maxi Fuses		

Note: Relays R301–R305 are not serviceable components; see your authorized dealer for assistance.

CHANGING THE TIRES

If you get a flat tire while driving, do not apply the brake heavily. Instead, gradually decrease your speed. Hold the steering wheel firmly and slowly move to a safe place on the side of the road.

Your vehicle may be equipped with a conventional spare tire that is different in one or more of the following: type, brand, size, speed rating and tread design. If this is the case, this dissimilar spare tire is still rated for your vehicle loads (GAWR and GVWR). Your vehicle may be equipped with a spare wheel that may not match the road wheels and is not equipped with a Tire Pressure Monitor System (TPMS) sensor.



The use of tire sealants may damage your tires. The use of tire sealants may also damage your Tire Pressure Monitoring System.

Roadside Emergencies



If your vehicle is equipped with a Tire Pressure Monitoring System, refer to *Tire Pressure Monitoring System (TPMS)* in the *Tires, Wheels and Loading* chapter for important information. If the tire pressure monitor sensor becomes damaged, it will no longer function.

Dissimilar spare tire/wheel information



Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

If you have a dissimilar spare tire/wheel, then it is intended for temporary use only. This means that if you need to use it, you should replace it as soon as possible with a road tire/wheel that is the same size and type as the road tires and wheels that were originally provided by Ford. If the dissimilar spare tire or wheel is damaged, it should be replaced rather than repaired.

A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels and can be one of three types:

1. **T-type mini-spare:** This spare tire begins with the letter “T” for tire size and may have “Temporary Use Only” molded in the sidewall
2. **Full-size dissimilar spare with label on wheel:** This spare tire has a label on the wheel that states: “THIS TIRE AND WHEEL FOR TEMPORARY USE ONLY”

When driving with one of the dissimilar spare tires listed above, **do not:**

- Exceed 50 mph (80 km/h)
- Load the vehicle beyond maximum vehicle load rating listed on the Safety Compliance Label
- Tow a trailer
- Use snow chains on the end of the vehicle with the dissimilar spare tire
- Use more than one dissimilar spare tire at a time
- Use commercial car washing equipment
- Try to repair the dissimilar spare tire

Roadside Emergencies

Use of one of the dissimilar spare tires listed above at any one wheel location can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability

For vehicles equipped with 4WD, it is not recommended that the vehicle be operated in 4WD modes with a temporary emergency spare tire. If 4WD operation is necessary, do not operate above speeds of 10 mph (16 km/h) or for distances above 50 miles (80 km).

3. Full-size dissimilar spare without label on wheel

When driving with the full-size dissimilar spare tire/wheel, **do not:**

- Exceed 70 mph (113 km/h)
- Use more than one dissimilar spare tire/wheel at a time
- Use commercial car washing equipment
- Use snow chains on the end of the vehicle with the dissimilar spare tire/wheel

The usage of a full-size dissimilar spare tire/wheel can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability
- All-Wheel driving capability (if applicable)
- Load leveling adjustment (if applicable)

When driving with the full-size dissimilar spare tire/wheel additional caution should be given to:

- Towing a trailer
- Driving vehicles equipped with a camper body
- Driving vehicles with a load on the cargo rack

Drive cautiously when using a full-size dissimilar spare tire/wheel and seek service as soon as possible.

Roadside Emergencies

Spare tire information

Note: If your vehicle is equipped with the tire pressure monitoring system (TPMS), the system indicator light will illuminate when the spare is in use. To restore the full functionality of the TPMS system, all road wheels equipped with the tire pressure monitoring sensors must be mounted on the vehicle

If your vehicle is equipped with TPMS, have a flat tire serviced by an authorized dealer in order to prevent damage to the TPMS sensor, refer to *Tire Pressure Monitoring System (TPMS)* in the *Tires, Wheels and Loading* chapter. Replace the spare tire with a road tire as soon as possible.

Location of the spare tire and tools

The spare tire and tools for your vehicle are stowed in the following locations:

Item	Location
Spare tire	Under the vehicle, just forward of the rear bumper
Jack tools and jacking instructions	Under the access panel located in the floor compartment behind the rear seat

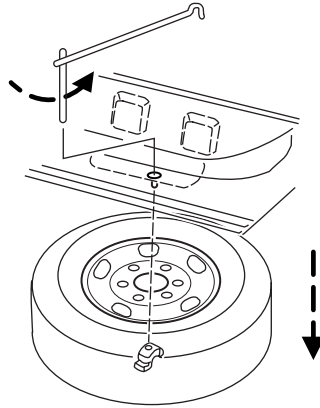
Removing the jack and tools

1. Open the liftgate, then locate the access panel on the floor behind the 3rd row seat. Unlatch and remove the panel.
2. Remove the jack and tools assembly tray from the compartment by turning the wing-nut counterclockwise to relieve tension against the jack assembly tray.
3. Unsnap the wheel lug nut wrench, jack extension and handle from the plastic tray. Remove the jack and instruction sheet from the tray assembly.


Roadside Emergencies


Removing the spare tire


1. Fold the rear seat down. Refer to *Rear seats* in the *Seating and safety restraints* chapter.
2. Remove the jack handle and winch extension from the tray and assemble them.
3. Open the spare tire winch access plug in the bottom of the compartment located behind the 3rd row seat, very close to the jack and tools tray.
4. Insert the winch extension tool assembly through the access hole in the floor and engage the winch.
5. To remove the spare tire, turn the handle counterclockwise until the tire is lowered to the ground and the cable is slightly slack.
6. Slide the retainer through the center of the spare tire wheel.



Tire change procedure

 To help prevent the vehicle from moving when you change a tire, be sure the parking brake is set, then block (in both directions) the wheel that is diagonally opposite (other side and end of the vehicle) to the tire being changed.

 If the vehicle slips off the jack, you or someone else could be seriously injured.

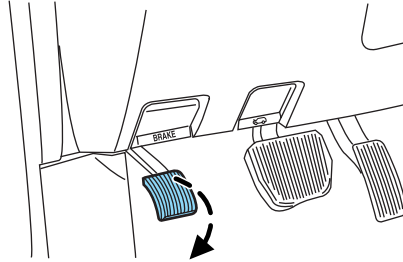
 On vehicles equipped with Air Suspension, turn OFF the Air Suspension switch prior to jacking, hoisting or towing your vehicle.

If your vehicle is equipped with air suspension, refer to *Air suspension (if equipped)* in the *Driving* chapter for instructions on how to turn the system off.

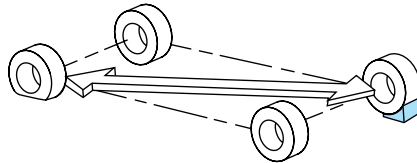
Refer to the instruction sheet (located in the rear floor compartment behind the 3rd row seat with the jack tray tools assembly kit) for detailed tire change instructions.

Roadside Emergencies

1. Park on a level surface, activate hazard flashers and set the parking brake.

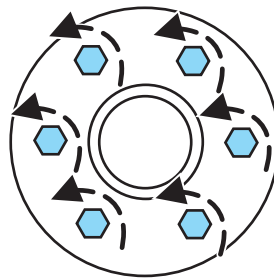


2. Place gearshift lever in P (Park), turn engine OFF and block the diagonally opposite wheel. (If changing the tire on a grade, block the diagonally opposite wheel on the downward side of the grade.)



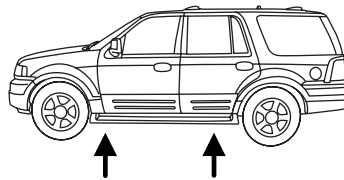
3. Obtain the spare tire and jack tools from their storage locations. Turn off the air suspension switch (if equipped - the air suspension switch is located behind a trim panel on the left rear quarter trim panel. Refer to *Air Suspension System* in the *Driving* chapter for more information.)

4. Use the tip of the jack handle to remove any wheel trim. Loosen each wheel lug nut one-half turn counterclockwise but do not remove them until the wheel is raised off the ground.



5. Position the jack according to the jack locator arrows found on the frame and turn the jack handle and extension tool assembly clockwise.

Note: Use the frame rail as the jacking location point, NOT the control arm.




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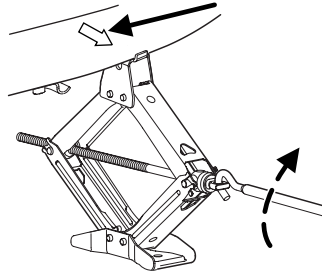
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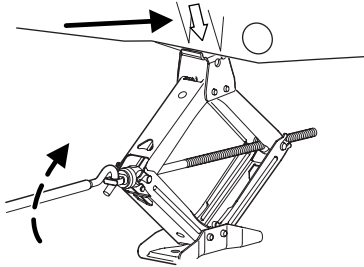
6. Lift the vehicle so the tire is no further than 1 inch (2.5 cm) off the ground when installing the spare tire.


 When one of the rear wheels is off the ground, the transmission alone will not prevent the vehicle from moving or slipping off the jack, even if the transmission is in P (Park). To prevent the vehicle from moving when you change the tire, be sure that the parking brake is set and the diagonally opposite wheel is blocked. If the vehicle slips off the jack, someone could be seriously injured.

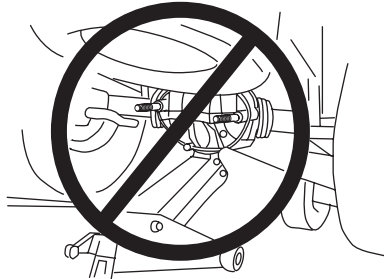
- Front



- Rear



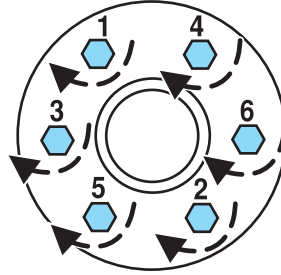
 To lessen the risk of personal injury, do not put any part of your body under the vehicle while changing a tire. Do not start the engine when your vehicle is on the jack. The jack is only meant for changing the tire.



- **Never use the front or rear differential as a jacking point.**

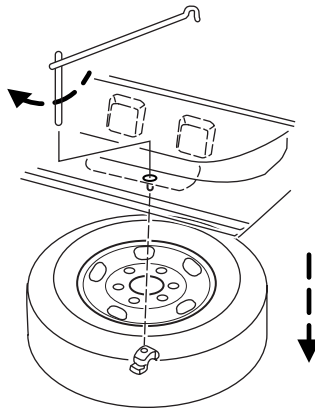
Roadside Emergencies

- Remove the lug nuts with the lug wrench.
- Replace the flat tire with the spare tire, making sure the valve stem is facing outward. Reinstall the lug nuts until the wheel is snug against the hub. Do not fully tighten the lug nuts until the wheel has been lowered.
- Lower the wheel by turning the jack handle counterclockwise.
- Remove the jack and fully tighten the lug nuts in the order shown and reinstall the wheel cover. Refer to *Wheel lug nut torque specifications* later in this chapter for the proper lug nut torque specification.
- Unblock the wheels.
- Put flat tire, jack, lug wrench and tools away. Make sure the jack is fastened securely so it does not rattle when you drive.
- Turn on the air suspension switch (if equipped).



Stowing the spare tire

- Lay the tire on the ground, near the rear of the vehicle, with the valve stem side facing up.
- Slide the wheel partially under the vehicle and install the retainer through the wheel center. After doing so, pull on the cable to align the components at the end of the cable.
- Assemble the jack handle and winch extension (as shown in illustration), then insert the winch extension through the access hole behind the 3rd row seat and engage the winch.
- Turn the jack handle clockwise until the tire is raised to its stowed position underneath the vehicle. The wrench will become harder to turn and the spare tire winch will ratchet or slip when the tire is raised to maximum tightness. A clicking sound will be heard from the winch indicating that the tire is properly stowed.



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5. Disassemble the tools and snap them back into the tool tray. Close the access hole with the rubber plug. Reinstall the tray into the vehicle and secure it with the wing nut (turn clockwise until tight).

WHEEL LUG NUT TORQUE SPECIFICATIONS


Retighten the lug nuts to the specified torque at 500 miles (800 km) after any wheel disturbance (tire rotation, changing a flat tire, wheel removal, etc.).


Bolt size	Wheel lug nut torque*	
	lb.ft.	N•m
M14 x 2.0	150	200

* Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.

 When a wheel is installed, always remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Ensure that any fasteners that attach the rotor to the hub are secured so they do not interfere with the mounting surfaces of the wheel. Installing wheels without correct metal-to-metal contact at the wheel mounting surfaces can cause the wheel nuts to loosen and the wheel to come off while the vehicle is in motion, resulting in loss of control.

JUMP STARTING

 The gases around the battery can explode if exposed to flames, sparks, or lit cigarettes. An explosion could result in injury or vehicle damage.

 Batteries contain sulfuric acid which can burn skin, eyes and clothing, if contacted.

Do not attempt to push-start your vehicle. Automatic transmissions do not have push-start capability; doing so may damage the catalytic converter.

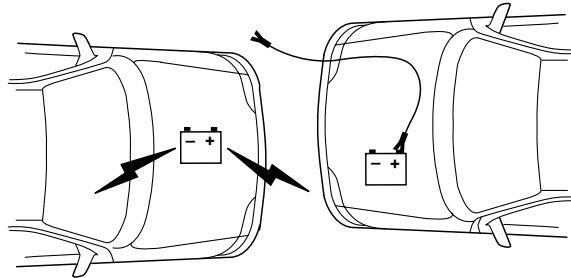
Roadside Emergencies

Preparing your vehicle

When the battery is disconnected or a new battery is installed, the transmission must relearn its shift strategy. As a result, the transmission may have firm and/or soft shifts. This operation is considered normal and will not affect function or durability of the transmission. Over time, the adaptive learning process will fully update transmission operation.

1. **Use only a 12-volt supply to start your vehicle.**
2. Do not disconnect the battery of the disabled vehicle as this could damage the vehicle's electrical system.
3. Park the booster vehicle close to the hood of the disabled vehicle making sure the two vehicles **do not** touch. Set the parking brake on both vehicles and stay clear of the engine cooling fan and other moving parts.
4. Check all battery terminals and remove any excessive corrosion before you attach the battery cables. Ensure that vent caps are tight and level.
5. Turn the heater fan on in both vehicles to protect any electrical surges. Turn all other accessories off.

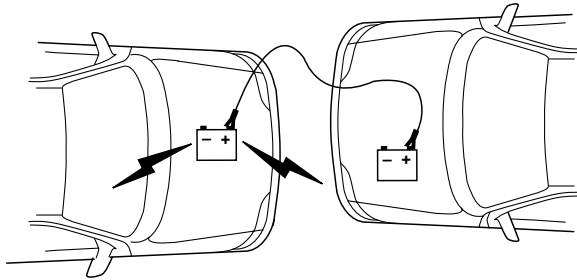
Connecting the jumper cables



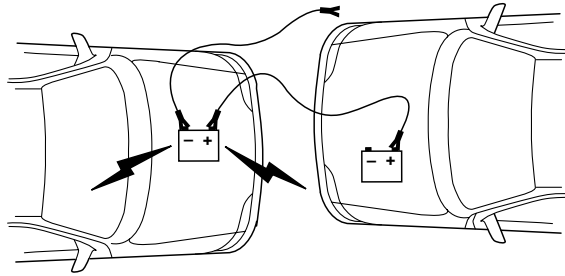
1. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.

Note: In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.

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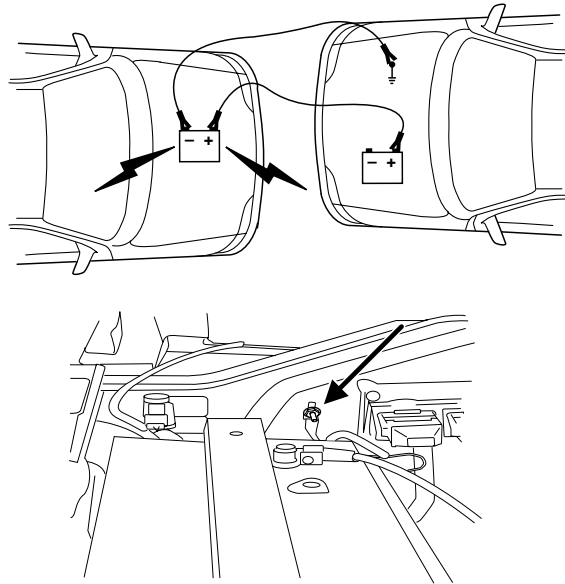


2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.



3. Connect the negative (-) cable to the negative (-) terminal of the assisting battery.

Roadside Emergencies



4. Make the final connection of the negative (-) cable to the jump starting stud located in the rear of the engine compartment, near the battery. **Do not** use fuel lines, engine rocker covers or the intake manifold as *grounding* points.



Do not connect the end of the second cable to the negative (-) terminal of the battery to be jumped. A spark may cause an explosion of the gases that surround the battery.

5. Ensure that the cables are clear of fan blades, belts, moving parts of both engines, or any fuel delivery system parts.

Jump starting

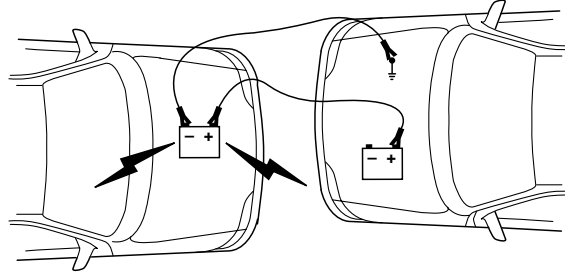
1. Start the engine of the booster vehicle and run the engine at moderately increased speed.
2. Start the engine of the disabled vehicle.
3. Once the disabled vehicle has been started, run both engines for an additional three minutes before disconnecting the jumper cables.

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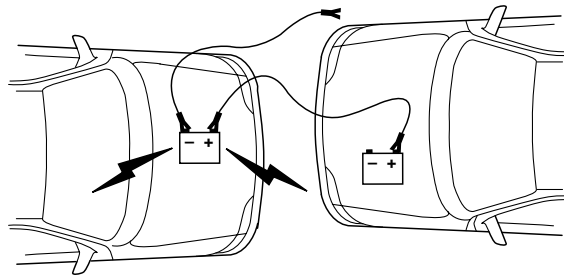
Removing the jumper cables



Remove the jumper cables in the reverse order that they were connected.

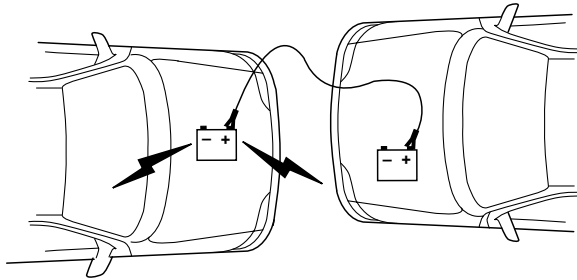
1. Remove the jumper cable from the *ground* metal surface.

Note: In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.

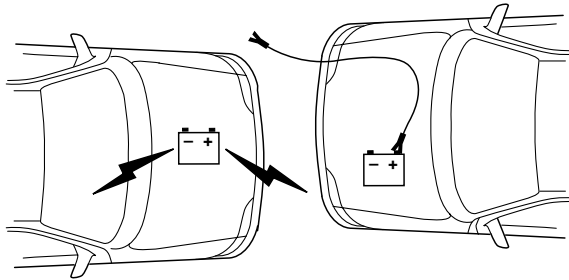


2. Remove the jumper cable on the negative (-) connection of the booster vehicle's battery.

Roadside Emergencies



3. Remove the jumper cable from the positive (+) terminal of the booster vehicle's battery.

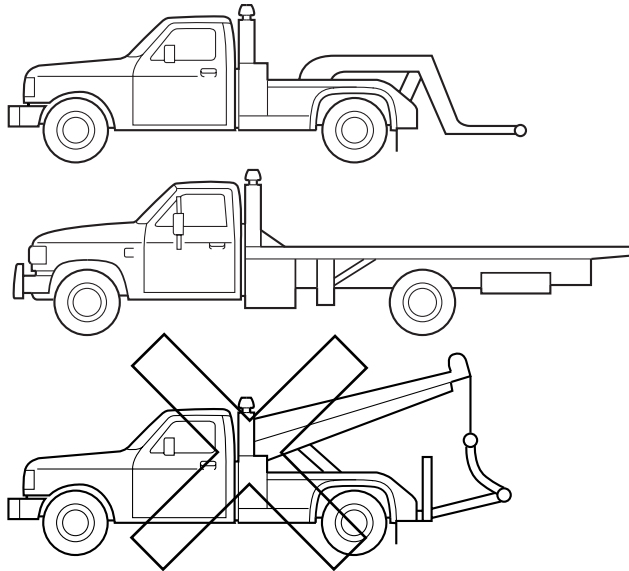


4. Remove the jumper cable from the positive (+) terminal of the disabled vehicle's battery.

After the disabled vehicle has been started and the jumper cables removed, allow it to idle for several minutes so the engine computer can *relearn* its idle conditions.

Roadside Emergencies

WRECKER TOWING



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

It is recommended that your vehicle be towed with a wheel lift or flatbed equipment. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure. Also, wrecker towing the vehicle by the frame-mounted tow hooks is not recommended or advised.

If your vehicle is equipped with air suspension, the air suspension control and the ignition must be turned off before being towed. Refer to *Air suspension* in the *Driving* chapter.

On 4x2 vehicles, it is acceptable to tow the vehicle with the front wheels on the ground (without dollies) and the rear wheels off the ground.

On 4x4 vehicles, it is recommended that your vehicle be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground.

Roadside Emergencies

If the vehicle is towed by other means or incorrectly, vehicle damage may occur.

With a disabled vehicle (without access to wheel dollies, car hauling trailer or flatbed transport vehicle) your vehicle can be towed (all wheels on the ground) under the following conditions:

Special Conditions:

- Release the parking brake.
- Turn the air suspension (if equipped) control to OFF.
- Turn the ignition to the OFF/UNLOCKED position.
- Place the transmission in N (Neutral).

If the vehicle's battery is discharged, refer to *Automatic transmission operation* in the *Driving* chapter for directions on how to move the gearshift lever out of the P (Park) position, for proper towing.

- Do not exceed a distance of 50 miles (80 km).
- Do not exceed 35 mph (56 km/h) vehicle speed.

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

Customer Assistance

GETTING THE SERVICES YOU NEED

At home

You must take your Ford vehicle to an authorized dealer for warranty repairs. While any authorized dealer handling your vehicle line will provide warranty service, we recommend you return to your selling authorized dealer who wants to ensure your continued satisfaction. Please note that certain warranty repairs require special training and/or equipment, so not all authorized dealers are authorized to perform all warranty repairs. This means that, depending on the warranty repair needed, you may have to take your vehicle to another authorized dealer. A reasonable time must be allowed to perform a repair after taking your vehicle to the authorized dealer. Repairs will be made using Ford or Motorcraft parts, or remanufactured or other parts that are authorized by Ford.

If you have questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

1. Contact your Sales Representative or Service Advisor at your selling/servicing authorized dealer.
2. If your inquiry or concern remains unresolved, contact the Sales Manager, Service Manager or Customer Relations Manager.
3. If you require assistance or clarification on Ford Motor Company policies or procedures, please contact the Ford Customer Relationship Center at 1-800-392-3673 (FORD).

Away from home

If you own a Ford or Mercury vehicle and are away from home when your vehicle needs service, or if you need more help than the authorized dealer could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealer to help you.

In the United States:

Ford Motor Company
Customer Relationship Center
P.O. Box 6248
Dearborn, MI 48121
1-800-392-3673 (FORD)
(TDD for the hearing impaired: 1-800-232-5952)
www.customersaskford.com

Customer Assistance

In Canada:
Customer Relationship Centre
Ford Motor Company of Canada, Limited
P.O. Box 2000
Oakville, Ontario L6J 5E4
1-800-565-3673 (FORD)
www.ford.ca

If you own a Lincoln vehicle and are away from home when your vehicle needs service, or if you need more help than the authorized dealer could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealer to help you.

In the United States:
Ford Motor Company
Customer Relationship Center
P.O. Box 6248
Dearborn, MI 48121
1-800-521-4140
(TDD for the hearing impaired: 1-800-232-5952)
www.customersaskford.com

In Canada:
Lincoln Centre
Ford Motor Company of Canada, Limited
P.O. Box 2000
Oakville, Ontario L6J 5E4
1-800-387-9333
www.lincolncanada.com

In order to help you service your Lincoln vehicle, please have the following information available when contacting the Lincoln Centre:

- Your telephone number (home and business)
- The name of the authorized dealer and the city where the authorized dealer is located
- The year and make of your vehicle
- The date of vehicle purchase
- The current odometer reading
- The vehicle identification number (VIN)

Additional Assistance

If you still have a complaint involving a warranty dispute, you may wish to contact the Better Business Bureau (BBB) AUTO LINE program (U.S. only).

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In some states (in the U.S.) you must directly notify Ford in writing before pursuing remedies under your state's warranty laws. Ford is also allowed a final repair attempt in some states.

In the United States, a warranty dispute must be submitted to the BBB AUTO LINE before taking action under the Magnuson-Moss Warranty Act, or to the extent allowed by state law, before pursuing replacement or repurchase remedies provided by certain state laws. This dispute handling procedure is not required prior to enforcing state created rights or other rights which are independent of the Magnuson-Moss Warranty Act or state replacement or repurchase laws.

IN CALIFORNIA (U.S. ONLY)

California Civil Code Section 1793.2(d) requires that, if a manufacturer or its representative is unable to repair a motor vehicle to conform to the vehicle's applicable express warranty after a reasonable number of attempts, the manufacturer shall be required to either replace the vehicle with one substantially identical or repurchase the vehicle and reimburse the buyer in an amount equal to the actual price paid or payable by the consumer (less a reasonable allowance for consumer use). The consumer has the right to choose whether to receive a refund or replacement vehicle.

California Civil Code Section 1793.22(b) presumes that the manufacturer has had a reasonable number of attempts to conform the vehicle to its applicable express warranties if, within the first 18 months of ownership of a new vehicle or the first 18,000 miles (29,000 km), whichever occurs first:

1. Two or more repair attempts are made on the same non-conformity likely to cause death or serious bodily injury OR
2. Four or more repair attempts are made on the same nonconformity (a defect or condition that substantially impairs the use, value or safety of the vehicle) OR
3. The vehicle is out of service for repair of nonconformities for a total of more than 30 calendar days (not necessarily all at one time)

In the case of 1 or 2 above, the consumer must also notify the manufacturer of the need for the repair of the nonconformity at the following address:

Ford Motor Company
16800 Executive Plaza Drive
Mail Drop 3NE-B
Dearborn, MI 48126

Customer Assistance

THE BETTER BUSINESS BUREAU (BBB) AUTO LINE PROGRAM (U.S. ONLY)

Your satisfaction is important to Ford Motor Company and to your dealer. Experience has shown that our customers have been very successful in achieving satisfaction by following the three-step procedure outlined on the front page of the Warranty Guide. However, if your warranty concern has not been resolved using the three-step procedure, you may be eligible to participate in the BBB AUTO LINE program.

The BBB AUTO LINE program consists of two parts – mediation and arbitration. Initially, the BBB will try to resolve your question or concern through mediation. Mediation is a process through which a representative of the BBB will contact the parties and explore options for settlement of your claim. If mediation is not successful, customers with eligible claims may participate in the BBB AUTO LINE arbitration process. An arbitration hearing will be scheduled so that you can present your case in an informal setting before an impartial person. The arbitrator will consider the testimony provided and make a decision after the hearing. You are not bound by the decision but may choose to accept it. If you choose to accept the BBB AUTO LINE decision then Ford must abide by the accepted decision as well. If the arbitrator has decided in your favor and you accept the decision, the BBB AUTO LINE program will contact you to ensure that Ford has complied with the decision in a timely manner. Disputes submitted to the BBB AUTO LINE program are usually decided within forty days after you file your claim with the BBB.

To file a claim with the BBB AUTO LINE, you will be asked for your name and address, information about your vehicle, information about your concerns and any steps you have already taken to try to resolve them.

You can get more information by calling BBB AUTO LINE at 1-800-955-5100, or writing to:

BBB AUTO LINE
4200 Wilson Boulevard, Suite 800
Arlington, Virginia 22203-1833

Note: Ford Motor Company reserves the right to change eligibility limitations, modify procedures, or to discontinue this process at any time without notice and without obligation.

UTILIZING THE MEDIATION/ARBITRATION PROGRAM (CANADA ONLY)

For vehicles delivered to authorized Canadian dealers. In those cases where you continue to feel that the efforts by Ford of Canada and the

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authorized dealer to resolve a factory-related vehicle service concern have been unsatisfactory, Ford of Canada participates in an impartial third party mediation/arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The CAMVAP program is a straight-forward and relatively speedy alternative to resolve a disagreement when all other efforts to produce a settlement have failed. This procedure is without cost to you and is designed to eliminate the need for lengthy and expensive legal proceedings.

In the CAMVAP program, impartial third-party arbitrators conduct hearings at mutually convenient times and places in an informal environment. These impartial arbitrators review the positions of the parties, make decisions and, when appropriate, render awards to resolve disputes. CAMVAP decisions are fast, fair, and final as the arbitrator's award is binding both to you and Ford of Canada.

CAMVAP services are available in all territories and provinces. For more information, without charge or obligation, call your CAMVAP Provincial Administrator directly at 1-800-207-0685.

FORD EXTENDED SERVICE PLAN

You can get more protection for your new car or light truck by purchasing Ford Extended Service Plan (Ford ESP) coverage. It provides the following:

- Benefits during the warranty period depending on the plan you purchase (such as: reimbursement for rentals; coverage for certain maintenance and wear items).
- Protection against covered repair costs after your Bumper-to-Bumper Warranty expires.

You may purchase Ford ESP from any participating authorized dealer. There are several plans available in various time, distance and deductible combinations which can be tailored to fit your own driving needs. Ford ESP also offers reimbursement benefits for towing and rental coverage.

When you buy Ford ESP, you receive Peace-of-Mind protection throughout the United States and Canada, provided by a network of more than 4,600 participating authorized dealers.

If you did not take advantage of the Ford Extended Service Plan at the time of purchasing your vehicle, you may still be eligible. Since this information is subject to change, please ask your authorized dealer for complete details about Ford Extended Service Plan coverage options, or visit the Ford ESP website at www.ford-esp.com.

Customer Assistance

GETTING ASSISTANCE OUTSIDE THE U.S. AND CANADA

Before exporting your vehicle to a foreign country, contact the appropriate foreign embassy or consulate. These officials can inform you of local vehicle registration regulations and where to find unleaded fuel.

If you cannot find unleaded fuel or can only get fuel with an anti-knock index lower than is recommended for your vehicle, contact a regional office or owner relations/customer relationship office.

The use of leaded fuel in your vehicle without proper conversion may damage the effectiveness of your emission control system and may cause engine knocking or serious engine damage. Ford Motor Company/Ford of Canada is not responsible for any damage caused by use of improper fuel. Using leaded fuel may also result in difficulty importing your vehicle back into the U.S.

If your vehicle must be serviced while you are traveling or living in Central America, the Caribbean, or the Middle East, contact the nearest authorized dealer. If the authorized dealer cannot help you, write or call:

FORD MOTOR COMPANY
WORLDWIDE DIRECT MARKET OPERATIONS
1555 Fairlane Drive
Fairlane Business Park #3
Allen Park, Michigan 48101
U.S.A.
Telephone: (313) 594-4857
FAX: (313) 390-0804

If you are in another foreign country, contact the nearest authorized dealer. If the authorized dealer employees cannot help you, they can direct you to the nearest Ford affiliate office.

If you buy your vehicle in North America and then relocate outside of the U.S. or Canada, register your vehicle identification number (VIN) and new address with Ford Motor Company Worldwide Direct Market Operations.

Customers in the U.S. should call 1-800-392-3673.

ORDERING ADDITIONAL OWNER'S LITERATURE

To order the publications in this portfolio, contact Helm, Incorporated at:

HELM, INCORPORATED
P.O. Box 07150
Detroit, Michigan 48207

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Or call:

For a free publication catalog, order toll free: 1-800-782-4356

Monday-Friday 8:00 a.m. - 6:00 p.m. EST

Helm, Incorporated can also be reached by their website:
www.helminc.com.

(Items in this catalog may be purchased by credit card, check or money order.)

Obtaining a French owner's guide

French Owner's Guides can be obtained from your authorized dealer or by writing to Ford Motor Company of Canada, Limited, Service Publications, P.O. Box 1580, Station B, Mississauga, Ontario L4Y 4G3.

REPORTING SAFETY DEFECTS (U.S. ONLY)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Ford Motor Company.



If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ford Motor Company.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to:

Administrator
NHTSA
400 Seventh Street, SW
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

Cleaning

WASHING THE EXTERIOR

Wash your vehicle regularly with cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash (ZC-3-A), which is available from your authorized dealer.

- Never use strong household detergents or soap, such as dish washing or laundry liquid. These products can discolor and spot painted surfaces.
- Never wash a vehicle that is “hot to the touch” or during exposure to strong, direct sunlight.
- Always use a clean sponge or car wash mitt with plenty of water for best results.
- Dry the vehicle with a chamois or soft terry cloth towel in order to eliminate water spotting.
- It is especially important to wash the vehicle regularly during the winter months, as dirt and road salt are difficult to remove and cause damage to the vehicle.
- Immediately remove items such as gasoline, diesel fuel, bird droppings and insect deposits because they can cause damage to the vehicle’s paintwork and trim over time.
- Remove any exterior accessories, such as antennas, before entering a car wash.
- **Suntan lotions and insect repellents can damage any painted surface; if these substances come in contact with your vehicle, wash off as soon as possible.**
- **If your vehicle is equipped with running boards, do not use rubber, plastic and vinyl protectant products on the running board surface, as the area may become slippery.**

Exterior chrome

- Wash the vehicle first, using cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash (ZC-3-A).
- Use Custom Brite Metal Cleaner (ZC-15), available from your authorized dealer. Apply the product as you would a wax to clean bumpers and other chrome parts; allow the cleaner to dry for a few minutes, then wipe off the haze with a clean, dry rag.
- **Never use abrasive materials such as steel wool or plastic pads as they can scratch the chrome surface.**

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WAXING

Applying Motorcraft Paint Sealant (ZC-45) to your vehicle every six months will assist in reducing minor scratches and paint damage.

- Wash the vehicle first.
- Do not use waxes that contain abrasives; use Motorcraft Premium Liquid Wax (ZC-53-A), which is available from your authorized dealer, or an equivalent quality product.
- Do not allow paint sealant to come in contact with any non-body (low-gloss black) colored trim, such as grained body-side cladding, roof racks, bumper step surfaces, mirror housings or the windshield cowl area. The paint sealant will “gray” or stain the parts over time.

PAINT CHIPS

Your authorized dealer has touch-up paint and sprays to match your vehicle’s color. Take your color code (printed on a sticker in the driver’s door jamb) to your authorized dealer to ensure you get the correct color.

- Remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout before repairing paint chips.
- Always read the instructions before using the products.

ALUMINUM WHEELS AND WHEEL COVERS

Aluminum wheels and wheel covers are coated with a clearcoat paint finish. In order to maintain their shine:

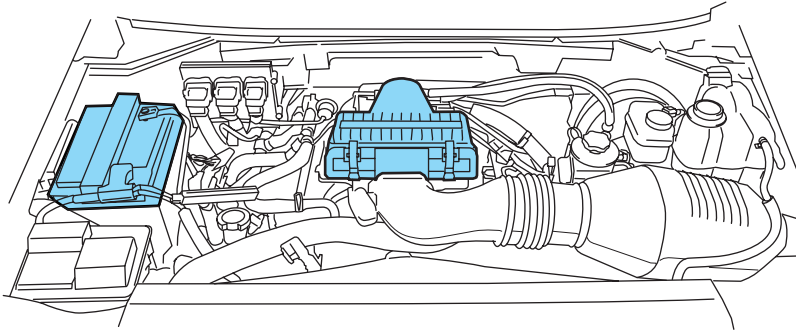
- Clean weekly with Motorcraft Wheel and Tire Cleaner (ZC-37-A), which is available from your authorized dealer. Heavy dirt and brake dust accumulation may require agitation with a sponge. Rinse thoroughly with a strong stream of water.
- Never apply any cleaning chemical to hot or warm wheel rims or covers.
- Some automatic car washes may cause damage to the finish on your wheel rims or covers. Chemical-strength cleaners, or cleaning chemicals, in combination with brush agitation to remove brake dust and dirt, could wear away the clearcoat finish over time.
- Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergent.
- To remove tar and grease, use Motorcraft Bug and Tar Remover (ZC-42), available from your authorized dealer.

Cleaning

ENGINE

Engines are more efficient when they are clean because grease and dirt buildup keep the engine warmer than normal. When washing:

- Take care when using a power washer to clean the engine. The high-pressure fluid could penetrate the sealed parts and cause damage.
- Do not spray a hot engine with cold water to avoid cracking the engine block or other engine components.
- Spray Motorcraft Engine Shampoo and Degreaser (ZC-20) on all parts that require cleaning and pressure rinse clean.
- Cover the highlighted areas to prevent water damage when cleaning the engine.



• 5.4L 3V engine

- Never wash or rinse the engine while it is running; water in the running engine may cause internal damage.

PLASTIC (NON-PAINTED) EXTERIOR PARTS

Use only approved products to clean plastic parts. These products are available from your authorized dealer.

- For routine cleaning, use Motorcraft Detail Wash (ZC-3-A).
- If tar or grease spots are present, use Motorcraft Bug and Tar Remover (ZC-42).
- For plastic headlamp lenses, use Motorcraft Ultra Clear Spray Glass Cleaner (ZC-23).

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WINDOWS AND WIPER BLADES

The windshield, rear and side windows and the wiper blades should be cleaned regularly. If the wipers do not wipe properly, substances on the vehicle's glass or the wiper blades may be the cause. These may include hot wax treatments used by commercial car washes, water repellent coatings, tree sap, or other organic contamination; these contaminants may cause squeaking or chatter noise from the blades, and streaking and smearing of the windshield. To clean these items, follow these tips:

- The windshield, rear windows and side windows may be cleaned with a non-abrasive cleaner such as Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23), available from your authorized dealer.
- The wiper blades can be cleaned with isopropyl (rubbing) alcohol or Motorcraft Premium Windshield Washer Concentrate (ZC-32-A), available from your authorized dealer. This washer fluid contains special solution in addition to alcohol which helps to remove the hot wax deposited on the wiper blade and windshield from automated car wash facilities. Be sure to replace wiper blades when they appear worn or do not function properly.
- Do not use abrasives, as they may cause scratches.
- Do not use fuel, kerosene, or paint thinner to clean any parts.

Do not use sharp objects, such as a razor blade, to clean the inside of the rear window or to remove decals, as it may cause damage to the rear window defroster's heated grid lines.

INSTRUMENT PANEL AND CLUSTER LENS

Clean the instrument panel with a damp cloth, then with a clean, dry cloth, or use Motorcraft Dash & Vinyl Cleaner (ZC-38-A).

- Avoid cleaners or polish that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect the driver from undesirable windshield reflection.



Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.

- Be certain to wash or wipe your hands clean if you have been in contact with certain products such as insect repellent and suntan lotion in order to avoid possible damage to the interior painted surfaces.

Cleaning

INTERIOR

For fabric, carpets, cloth seats and safety belts:

- Remove dust and loose dirt with a vacuum cleaner.
- Remove light stains and soil with Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54).
- If grease or tar is present on the material, spot-clean the area first with Motorcraft Spot and Stain Remover (ZC-14).
- If a ring forms on the fabric after spot cleaning, clean the entire area immediately (but do not oversaturate) or the ring will set.
- Do not use household cleaning products or glass cleaners, which can stain and discolor the fabric and affect the flame retardant abilities of the seat materials.



Do not use cleaning solvents, bleach or dye on the vehicle's seatbelts, as these actions may weaken the belt webbing.

CLEANING THE CLIMATE CONTROLLED SEATS (IF EQUIPPED)

Remove dust and loose dirt with a whisk broom or a vacuum cleaner. Remove fresh spots immediately. Clean the seat with a damp cloth, using a mild soap and water solution, if necessary.

LEATHER SEATS

(IF EQUIPPED, EXCEPT FOR THE KING RANCH EXPEDITION)

Your leather seating surfaces have a clear, protective coating over the leather.

For King Ranch Expedition leather seats, refer to separate section in this chapter.

- To clean, use a soft cloth with Motorcraft Deluxe Leather and Vinyl Cleaner (ZC-11-A). Dry the area with a soft cloth.
- To help maintain its resiliency and color, use the Motorcraft Deluxe Leather Care Kit (ZC-11-D), available from your authorized dealer.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing of the clear, protective coating.

Note: In some instances, color or dye transfer can occur when wet clothing comes in contact with leather upholstery. If this occurs, the leather should be cleaned immediately to avoid permanent staining.

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Cleaning

LEATHER SEATS FOR THE KING RANCH EXPEDITION ONLY (IF EQUIPPED)

Your vehicle is equipped with seating covered in premium, top-grain leather which is extremely durable, but still requires special care and maintenance in order to ensure longevity and comfort.

Regular cleaning and conditioning will maintain the appearance of the leather. Failure to care for the leather can result in drying out and fading of the material.

Note: In some instances, color or dye transfer can occur when wet clothing comes in contact with leather upholstery. If this occurs, the leather should be cleaned immediately to avoid permanent staining.

Cleaning

For dirt, use a vacuum cleaner then use a clean, damp cloth or soft brush.

For routine cleaning, wipe the surface with a soft, damp cloth. For more thorough cleaning, wipe the surface with a mild soap. If the leather cannot be completely cleaned using a mild soap and water solution, the leather may be cleaned using a commercially available cleaning product “Tanners Preserve Leather Cleaner” and a 3M “Type T” scrubbing pad.

- Clean spills as quickly as possible.
- Test any cleaner or stain remover on an inconspicuous part of the leather as cleaners may darken the leather. For more specific cleaning information, contact the King Ranch Saddle Shop at 1-800-282-KING (5464).
- Do not spill coffee, ketchup, mustard, orange juice or oil-based products on the leather as they may permanently stain the leather.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl or plastics.

Scratches

Natural Markings - Because the leather in the seat comes from genuine steer hides, there will be evidence of naturally occurring markings, such as small scars. These markings give character to the seating covers and should be considered as proof of a genuine leather product.

In order to lessen the appearance of certain scratches and other wear marks, apply conditioner on the affected area following the same instructions as in the *Conditioning* section.

Cleaning

Conditioning

Bottles of King Ranch Leather Conditioner are available at the King Ranch Saddle Shop. Visit the Web site at *www.krsaddleshop.com*, or telephone (in the United States) 1-800-282-KING (5464). If you are unable to obtain King Ranch Leather Conditioner, use another premium leather conditioner.

- Apply your first conditioning treatment within six months of taking delivery of your vehicle. Condition twice yearly in order to replenish lost oils and revitalize the aroma, suppleness and resilience of the leather.
- Clean the surfaces using the steps outlined in the *Cleaning* section.
- Ensure the leather is dry then apply a nickel-sized amount of conditioner to a clean, dry cloth
- Rub the conditioner into leather until it disappears. Allow the conditioner to dry and repeat the process for the entire interior. If a film appears, wipe off film with a dry, clean cloth.

UNDERBODY

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

FORD AND LINCOLN MERCURY CAR CARE PRODUCTS

Your Ford or Lincoln Mercury authorized dealer has many quality products available to clean your vehicle and protect its finishes. These quality products have been specifically engineered to fulfill your automotive needs; they are custom designed to complement the style and appearance of your vehicle. Each product is made from high quality materials that meet or exceed rigid specifications. For best results, use the following products or products of equivalent quality:

Motorcraft Bug and Tar Remover (ZC-42)

Motorcraft Car Care Kit (ZC-26)

Motorcraft Car Wash (Canada only) (CXC-21)

Motorcraft Custom Bright Metal Cleaner (ZC-15)

Motorcraft Custom Clear Coat Polish (ZC-8-A)

Motorcraft Custom Vinyl Protectant (U.S. only) (ZC-40-A)

Motorcraft Dash and Vinyl Cleaner (ZC-38-A)

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Cleaning

Motorcraft Deluxe Leather and Vinyl Cleaner (U.S. only) (ZC-11-A)
Motorcraft Detail Wash (ZC-3-A)
Motorcraft Dusting Cloth (ZC-24)
Motorcraft Engine Shampoo and Degreaser (U.S. only) (ZC-20)
Motorcraft Engine Shampoo (Canada only) (CXC-66-A)
Motorcraft One Step Wash and Wax Concentrate (ZC-6-A)
Motorcraft Paint Sealant (ZC-45)
Motorcraft Premium Car Wash Concentrate (U.S. only) (ZC-17-B)
Motorcraft Premium Glass Cleaner (Canada only) (CXC-100)
Motorcraft Premium Liquid Wax (ZC-53-A)
Motorcraft Premium Windshield Washer Concentrate (ZC-32-A)
Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54)
Motorcraft Spot and Stain Remover (U.S. only) (ZC-14)
Motorcraft Tire Clean and Shine (ZC-28)
Motorcraft Triple Clean (U.S. only) (ZC-13)
Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23)
Motorcraft Vinyl Cleaner (Canada only) (CXC-93)
Motorcraft Vinyl Conditioner (Canada only) (CXC-94)
Motorcraft Wheel and Tire Cleaner (ZC-37-A)

Maintenance and Specifications

SERVICE RECOMMENDATIONS

To help you service your vehicle:

- We highlight do-it-yourself items in the engine compartment for easy location.
- We provide *scheduled maintenance information* which makes tracking routine service easy.

If your vehicle requires professional service, your authorized dealer can provide the necessary parts and service. Check your *Warranty Guide/Owner Information Guide* to find out which parts and services are covered.

Use only recommended fuels, lubricants, fluids and service parts conforming to specifications. Motorcraft parts are designed and built to provide the best performance in your vehicle.

PRECAUTIONS WHEN SERVICING YOUR VEHICLE

- Do not work on a hot engine.
- Make sure that nothing gets caught in moving parts.
- Do not work on a vehicle with the engine running in an enclosed space, unless you are sure you have enough ventilation.
- Keep all open flames and other lit material away from the battery and all fuel related parts.

Working with the engine off

1. Set the parking brake and shift to P (Park).
2. Turn off the engine and remove the key.
3. Block the wheels.

Working with the engine on

1. Set the parking brake and shift to P (Park).
2. Block the wheels.

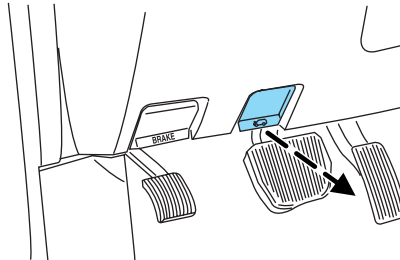


To reduce the risk of vehicle damage and/or personal burn injuries do not start your engine with the air cleaner removed and do not remove it while the engine is running.

Maintenance and Specifications

OPENING THE HOOD

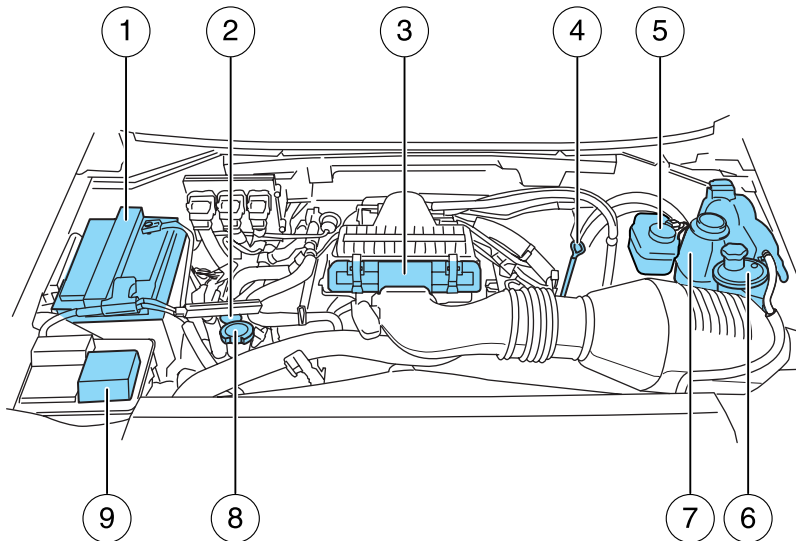
1. Inside the vehicle, pull the hood release handle located under the bottom of the instrument panel.
2. Go to the front of the vehicle and release the auxiliary latch that is located under the front center of the hood.
3. Lift the hood until the lift cylinders hold it open.



Maintenance and Specifications

IDENTIFYING COMPONENTS IN THE ENGINE COMPARTMENT

5.4L 3V- V8 engines



1. Battery
2. Automatic transmission fluid dipstick
3. Air filter assembly
4. Engine oil dipstick
5. Brake fluid reservoir
6. Power steering fluid reservoir
7. Engine coolant reservoir
8. Engine oil filler cap
9. Windshield washer fluid reservoir

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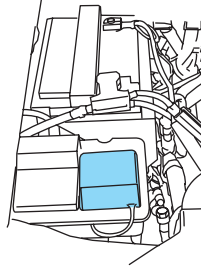
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WINDSHIELD WASHER FLUID

Add fluid to fill the reservoir if the level is low. In very cold weather, do not fill the reservoir completely.

Only use a washer fluid that meets Ford specification WSB-M8B16-A2. Do not use any special washer fluid such as windshield water repellent type fluid or bug wash. They may cause squeaking, chatter noise, streaking and smearing. Refer to *Lubricant specifications* in this chapter.



State or local regulations on volatile organic compounds may restrict the use of methanol, a common windshield washer antifreeze additive. Washer fluids containing non-methanol antifreeze agents should be used only if they provide cold weather protection without damaging the vehicle's paint finish, wiper blades or washer system.



If you operate your vehicle in temperatures below 40° F (4.5°C), use washer fluid with antifreeze protection. Failure to use washer fluid with antifreeze protection in cold weather could result in impaired windshield vision and increase the risk of injury or accident.

Note: Do not put washer fluid in the engine coolant reservoir. Washer fluid placed in the cooling system may harm engine and cooling system components.

Checking and adding washer fluid for the liftgate

Washer fluid for the liftgate is supplied by the same reservoir as the windshield.

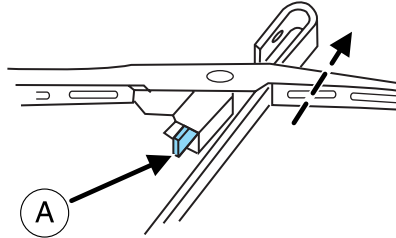
Maintenance and Specifications

CHANGING THE WIPER BLADES

It is recommended that wiper blades are renewed before winter.

To replace the wiper blades:

1. Fold back the wiper arm and position the wiper blade at right angles to the wiper arm.
2. To remove, press the retaining clip (A) to disengage the wiper blade, then pull the blade down toward the windshield to remove it from the arm.



3. Install the new wiper blade on the arm and press it into place until a click is heard.

Replace wiper blades at least once per year for optimum performance.

Poor wiper quality can be improved by cleaning the wiper blades and windshield, refer to *Windows and wiper blades* in the *Cleaning* chapter.

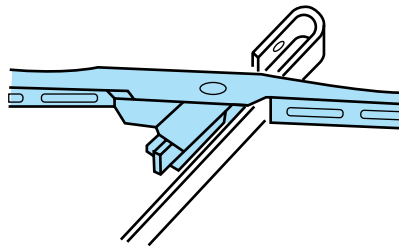
To prolong the life of the wiper blades, it is highly recommended to scrape off the ice on the windshield before turning on the wipers. The layer of ice has many sharp edges and can damage the micro edge of the wiper rubber element.

Changing rear window wiper blade

The rear wiper arm is designed without a service position. This reduces the risk of damage to the blade in an automatic car wash.

To replace the wiper blade:

1. Lift and hold the wiper blade off the glass.
2. Press the release tab to unlock wiper blade from wiper arm.
3. Pull the wiper blade toward the base of the wiper arm and remove it from the arm.
4. Attach the new wiper to the wiper arm and press it into place until a click is heard.



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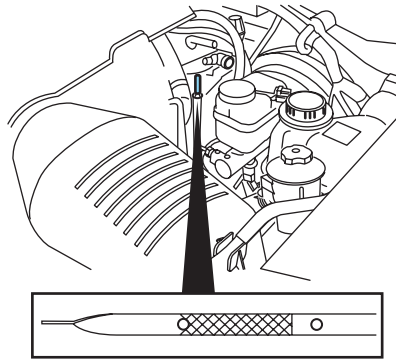
Maintenance and Specifications

ENGINE OIL

Checking the engine oil

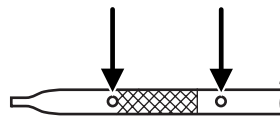
Refer to the *scheduled maintenance information* for the appropriate intervals for checking the engine oil.

1. Make sure the vehicle is on level ground.
2. Turn the engine off and wait a few minutes for the oil to drain into the oil pan.
3. Set the parking brake and ensure the gearshift is securely latched in P (Park).
4. Open the hood. Protect yourself from engine heat.
5. Locate and carefully remove the engine oil level indicator (dipstick).

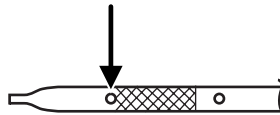


6. Wipe the indicator clean. Insert the indicator fully, then remove it again.

- If the oil level is **within this range**, the oil level is acceptable. **DO NOT ADD OIL.**



- If the oil level is **below this mark**, engine **oil must be added** to raise the level within the normal operating range.

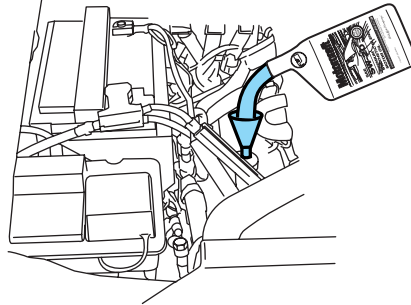


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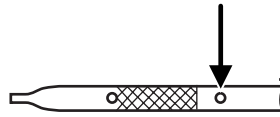
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- If required, add engine oil to the engine. Refer to *Adding engine oil* in this chapter.



- **Do not overfill the engine with oil. Oil levels above this mark may cause engine damage.** If the engine is overfilled, some oil must be removed from the engine by an authorized dealer.



7. Put the indicator back in and ensure it is fully seated.

Adding engine oil

1. Check the engine oil. For instructions, refer to *Checking the engine oil* in this chapter.
2. If the engine oil level is not within the normal range, add only certified engine oil of the recommended viscosity. Remove the engine oil filler cap and use a funnel to pour the engine oil into the opening.
3. Recheck the engine oil level. Make sure the oil level is not above the upper hole or the MAX mark on the engine oil level indicator (dipstick).
4. Install the indicator and ensure it is fully seated.
5. Fully install the engine oil filler cap by turning the filler cap clockwise 1/4 of a turn until the cap is fully seated.

To avoid possible oil loss, DO NOT operate the vehicle with the engine oil level indicator and/or the engine oil filler cap removed.

Maintenance and Specifications

Engine oil and filter recommendations

Look for this certification trademark.



Use SAE 5W-20 engine oil.

Only use oils “Certified For Gasoline Engines” by the American Petroleum Institute (API). An oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

To protect your engine’s warranty use Motorcraft SAE 5W-20 or an equivalent 5W-20 oil meeting Ford specification WSS-M2C930-A. **SAE 5W-20 oil provides optimum fuel economy and durability performance meeting all requirements for your vehicle’s engine.**

Do not use supplemental engine oil additives, cleaners or other engine treatments. They are unnecessary and could lead to engine damage that is not covered by Ford warranty.

Change your engine oil and filter according to the appropriate schedule listed in *scheduled maintenance information*.

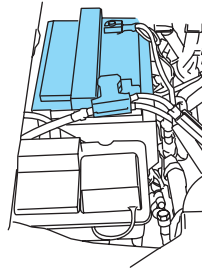
Ford production and aftermarket (Motorcraft) oil filters are designed for added engine protection and long life. If a replacement oil filter is used that does not meet Ford material and design specifications, start-up engine noises or knock may be experienced.

It is recommended you use the appropriate Motorcraft oil filter (or another brand meeting Ford specifications) for your engine application.

Maintenance and Specifications

BATTERY

Your vehicle is equipped with a Motorcraft maintenance-free battery which normally does not require additional water during its life of service.



However, for severe usage or in high temperature climates, check the battery electrolyte level. Refer to the *scheduled maintenance information* for the service interval schedules.

Keep the electrolyte level in each cell up to the “level indicator”. Do not overfill the battery cells.

If the electrolyte level in the battery is low, you can add plain tap water to the battery, as long as you do not use hard water (water with a high mineral or alkali content). If possible, however, try to only fill the battery cells with distilled water. If the battery needs water often, have the charging system checked.

If your battery has a cover/shield, make sure it is reinstalled after the battery has been cleaned or replaced.

For longer, trouble-free operation, keep the top of the battery clean and dry. Also, make certain the battery cables are always tightly fastened to the battery terminals.

If you see any corrosion on the battery or terminals, remove the cables from the terminals and clean with a wire brush. You can neutralize the acid with a solution of baking soda and water.


When the battery is disconnected or a new battery installed, the transmission must learn its adaptive strategy. As a result of this, the transmission may shift firmly. This operation is considered normal and will fully update transmission operation to its optimum shift feel.


Note: Electrical or electronic accessories or components added to the vehicle by the dealer or the owner may adversely affect battery performance and durability.


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 Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide proper ventilation.

 When lifting a plastic-cased battery, excessive pressure on the end walls could cause acid to flow through the vent caps, resulting in personal injury and/or damage to the vehicle or battery. Lift the battery with a battery carrier or with your hands on opposite corners.

 Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Shield your eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes and get prompt medical attention. If acid is swallowed, call a physician immediately.

 Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**

For information on transmission operation after the battery has been disconnected, refer to *Shift strategy* in the *Driving* chapter.

To account for customer driving habits and conditions, your automatic transmission (4R70W) electronically controls the shift quality by using an adaptive learning strategy. The adaptive learning strategy is maintained by power from the battery. When the battery is disconnected or a new battery is installed, the transmission must relearn its adaptive strategy. Optimal shifting will resume within a few hundred miles (kilometers) of operation.

If the shift quality does not improve within a few hundred miles (kilometers) of operation, or if the downshifts and other throttle conditions do not function normally or after a long deceleration period, see your authorized dealer or a qualified service technician as soon as possible.

Because your vehicle's engine is also electronically controlled by a computer, some control conditions are maintained by power from the

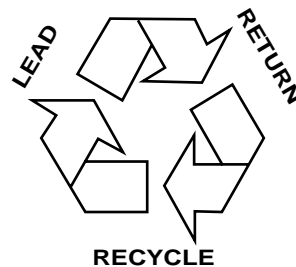
Maintenance and Specifications

battery. When the battery is disconnected or a new battery is installed, the engine must relearn its idle and fuel trim strategy for optimum driveability and performance. To begin this process:

1. With the vehicle at a complete stop, set the parking brake.
 2. Put the gearshift in P (Park), turn off all accessories and start the engine.
 3. Run the engine until it reaches normal operating temperature.
 4. Allow the engine to idle for at least one minute.
 5. Turn the A/C on and allow the engine to idle for at least one minute.
 6. With your foot on the brake pedal and with the A/C on, put the vehicle in D (Drive) and allow the engine to idle for at least one minute.
 7. Drive the vehicle to complete the relearning process.
- The vehicle may need to be driven 10 miles (16 km) or more to relearn the idle and fuel trim strategy.
 - **If you do not allow the engine to relearn its idle trim, the idle quality of your vehicle may be adversely affected until the idle trim is eventually relearned.**

If the battery has been disconnected or a new battery has been installed, the clock and the preset radio stations must be reset once the battery is reconnected.

- Always dispose of automotive batteries in a responsible manner. Follow your local authorized standards for disposal. Call your local authorized recycling center to find out more about recycling automotive batteries.



ENGINE COOLANT

Checking engine coolant

The concentration and level of engine coolant should be checked at the intervals listed in *scheduled maintenance information*. The coolant concentration should be maintained at 50/50 coolant and distilled water, which equates to a freeze point of -34°F (-36°C). Coolant concentration testing is possible with a hydrometer or antifreeze tester (such as the Rotunda Battery and Antifreeze Tester, 014-R1060). The level of coolant should be maintained at the "FULL COLD" level or within the "COLD

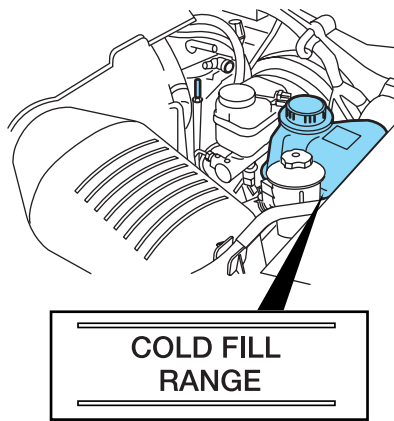
Maintenance and Specifications

FILL RANGE” in the coolant reservoir. If the level falls below, add coolant per the instructions in the *Adding engine coolant* section.

Your vehicle was factory-filled with a 50/50 engine coolant and water concentration. If the concentration of coolant falls below 40% or above 60%, the engine parts could become damaged or not work properly. **A 50–50 mixture of coolant and water provides the following:**

- **Freeze protection down to -34°F (-36°C).**
- **Boiling protection up to 265°F (129°C).**
- **Protection against rust and other forms of corrosion.**
- **Enables calibrated gauges to work properly.**

When the engine is cold, check the level of the engine coolant in the reservoir.



- The engine coolant should be at the “FULL COLD” level or within the “COLD FILL RANGE” as listed on the engine coolant reservoir (depending upon application).
- Refer to *scheduled maintenance information* for service interval schedules.
- Be sure to read and understand *Precautions when servicing your vehicle* in this chapter.

If the engine coolant has not been checked at the recommended interval, the engine coolant reservoir may become low or empty. If the reservoir is low or empty, add engine coolant to the reservoir. Refer to *Adding engine coolant* in this chapter.

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Note: Automotive fluids are not interchangeable; do not use engine coolant, antifreeze or windshield washer fluid outside of its specified function and vehicle location.

Adding engine coolant

When adding coolant, make sure it is a 50/50 mixture of engine coolant and distilled water. Add the mixture to the coolant reservoir, **when the engine is cool**, until the appropriate fill level is obtained.



Do not add engine coolant when the engine is hot. Steam and scalding liquids released from a hot cooling system can burn you badly. Also, you can be burned if you spill coolant on hot engine parts.



Do not put engine coolant in the windshield washer fluid container. If sprayed on the windshield, engine coolant could make it difficult to see through the windshield.

- **Add antifreeze/coolant that meets the material and design specifications for your vehicle.** Refer to *Lubricant specifications* in this chapter.

Note: Use of Motorcraft Cooling System Stop Leak Pellets or an equivalent product meeting Ford specification, WSS-M99B37-B6, may darken the color of Motorcraft Premium Gold Engine Coolant from yellow to golden tan.

- **Do not add/mix an orange-colored, extended life coolant such as Motorcraft Specialty Orange Engine Coolant, meeting Ford specification WSS-M97B44-D, with the factory-filled coolant.** Mixing Motorcraft Specialty Orange Engine Coolant or any orange-colored extended life product with your factory filled coolant can result in degraded corrosion protection.
- A large amount of water without engine coolant may be added, in case of emergency, to reach a vehicle service location. In this instance, the cooling system must be drained and refilled with a 50/50 mixture of engine coolant and distilled water as soon as possible. Water alone (without engine coolant) can cause engine damage from corrosion, overheating or freezing.
- **Do not use alcohol, methanol, brine or any engine coolants mixed with alcohol or methanol antifreeze (coolant).** Alcohol and other liquids can cause engine damage from overheating or freezing.

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- **Do not add extra inhibitors or additives to the coolant.** These can be harmful and compromise the corrosion protection of the engine coolant.

For vehicles with overflow coolant systems with a non-pressurized cap on the coolant recovery system, add coolant to the coolant recovery reservoir when the engine is cool. Add the proper mixture of coolant and water to the “FULL COLD” level. For all other vehicles which have a coolant degas system with a pressurized cap, or if it is necessary to remove the coolant pressure relief cap on the radiator of a vehicle with an overflow system, follow these steps to add engine coolant.



To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure; steam and hot liquid can come out forcefully when the cap is loosened slightly.

1. Before you begin, turn the engine off and let it cool.
2. When the engine is cool, wrap a thick cloth around the coolant pressure relief cap on the coolant reservoir (a translucent plastic bottle). Slowly turn cap counterclockwise (left) until pressure begins to release.
3. Step back while the pressure releases.
4. When you are sure that all the pressure has been released, use the cloth to turn it counterclockwise and remove the cap.
5. Fill the coolant reservoir slowly with the proper coolant mixture (see above), to within the “COLD FILL RANGE” or the “FULL COLD” level on the reservoir. If you removed the radiator cap in an overflow system, fill the radiator until the coolant is visible and radiator is almost full.
6. Replace the cap. Turn until tightly installed. (Cap must be tightly installed to prevent coolant loss.)

After any coolant has been added, check the coolant concentration (refer to *Checking engine coolant*). If the concentration is not 50/50 (protection to $-34^{\circ}\text{F}/-36^{\circ}\text{C}$), drain some coolant and adjust the concentration. It may take several drains and additions to obtain a 50/50 coolant concentration.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough 50/50 concentration of engine coolant and distilled water to bring the liquid level to the proper level.

If you have to add more than 1.0 quart (1.0 liter) of engine coolant per month, have your authorized dealer check the engine cooling system.

Maintenance and Specifications

Your cooling system may have a leak. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

Recycled engine coolant

Ford Motor Company does NOT recommend the use of recycled engine coolant in vehicles originally equipped with Motorcraft Premium Gold Engine Coolant since a Ford-approved recycling process is not yet available.



Used engine coolant should be disposed of in an appropriate manner. Follow your community's regulations and standards for recycling and disposing of automotive fluids.

Coolant refill capacity

To find out how much fluid your vehicle's cooling system can hold, refer to *Refill capacities* in this section.

Fill your engine coolant reservoir as outlined in *Adding engine coolant* in this section.

Severe climates

If you drive in extremely cold climates (less than -34°F [-36°C]):

- **It may be necessary to increase the coolant concentration above 50%.**
- **NEVER increase the coolant concentration above 60%.**
- **Increased engine coolant concentrations above 60% will decrease the overheat protection characteristics of the engine coolant and may cause engine damage.**
- **Refer to the chart on the coolant container to ensure the coolant concentration in your vehicle will provide adequate freeze protection at the temperatures in which you drive in the winter months.**

If you drive in extremely hot climates:

- **It is still necessary to maintain the coolant concentration above 40%.**
- **NEVER decrease the coolant concentration below 40%.**
- **Decreased engine coolant concentrations below 40% will decrease the corrosion protection characteristics of the engine coolant and may cause engine damage.**

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- **Decreased engine coolant concentrations below 40% will decrease the freeze protection characteristics of the engine coolant and may cause engine damage.**
- **Refer to the chart on the coolant container to ensure the coolant concentration in your vehicle will provide adequate protection at the temperatures in which you drive.**


Vehicles driven year-round in non-extreme climates should use a 50/50 mixture of engine coolant and distilled water for optimum cooling system and engine protection.

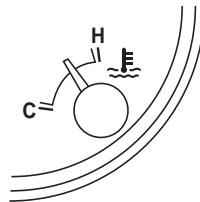
What you should know about fail-safe cooling

If the engine coolant supply is depleted, this feature allows the vehicle to be driven temporarily before incremental component damage is incurred. The “fail-safe” distance depends on ambient temperatures, vehicle load and terrain.

How fail-safe cooling works

If the engine begins to overheat:

- The engine coolant temperature gauge will move to the red (hot) area.
- CHECK ENGINE TEMPERATURE will illuminate in the message center (if equipped).
- The  indicator light will illuminate.
- CHECK GAGE will appear on the instrument panel cluster.



If the engine reaches a preset over-temperature condition, the engine will automatically switch to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

When this occurs the vehicle will still operate. However:

- The engine power will be limited.
- The air conditioning system will be disabled.
- Warning messages will appear in the message center (if equipped).

Continued operation will increase the engine temperature:

- The engine will completely shut down.
- Steering and braking effort will increase.

Once the engine temperature cools, the engine can be re-started. Take your vehicle to an authorized dealer as soon as possible to minimize engine damage.

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When fail-safe mode is activated

You have limited engine power when in the fail-safe mode, so drive the vehicle with caution. The vehicle will not be able to maintain high speed operation and the engine will run rough. Remember that the engine is capable of completely shutting down automatically to prevent engine damage, therefore:

1. Pull off the road as soon as safely possible and turn off the engine.
2. Arrange for the vehicle to be taken to an authorized dealer.
3. If this is not possible, wait a short period for the engine to cool.
4. Check the coolant level and replenish if low.



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

5. Restart the engine and take your vehicle to an authorized dealer.

Driving the vehicle without repairing the engine problem increases the chance of engine damage. Take your vehicle to an authorized dealer as soon as possible.

FUEL FILTER

For fuel filter replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the fuel filter.

Replace the fuel filter with an authorized Motorcraft part. The customer warranty may be void for any damage to the fuel system if an authorized Motorcraft fuel filter is not used.

WHAT YOU SHOULD KNOW ABOUT AUTOMOTIVE FUELS

Important safety precautions





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




The fuel system may be under pressure. If the fuel filler cap is venting vapor or if you hear a hissing sound, wait until it stops before completely removing the fuel filler cap. Otherwise, fuel may spray out and injure you or others.

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 If you do not use the proper fuel filler cap, excessive pressure or vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in possible personal injury.

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

 Gasoline may contain benzene, which is a cancer-causing agent.


Observe the following guidelines when handling automotive fuel:


- Extinguish all smoking materials and any open flames before refueling your vehicle.
- Always turn off the vehicle before refueling.
- Automotive fuels can be harmful or fatal if swallowed. Fuel such as gasoline is highly toxic and if swallowed can cause death or permanent injury. If fuel is swallowed, call a physician immediately, even if no symptoms are immediately apparent. The toxic effects of fuel may not be visible for hours.
- Avoid inhaling fuel vapors. Inhaling too much fuel vapor of any kind can lead to eye and respiratory tract irritation. In severe cases, excessive or prolonged breathing of fuel vapor can cause serious illness and permanent injury.
- Avoid getting fuel liquid in your eyes. If fuel is splashed in the eyes, remove contact lenses (if worn), flush with water for 15 minutes and seek medical attention. Failure to seek proper medical attention could lead to permanent injury.
- 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




Maintenance and Specifications

splashed on the skin, promptly wash skin thoroughly with soap and water. Consult a physician immediately if you experience an adverse reaction.

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

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

Refueling

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

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

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

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

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Fuel Filler Cap

Your fuel tank filler cap has an indexed design with a 1/4 turn on/off feature.

When fueling your vehicle:

1. Turn the engine off.
2. Carefully turn the filler cap counterclockwise 1/4 turn until it stops.
3. Pull to remove the cap from the fuel filler pipe.
4. To install the cap, align the tabs on the cap with the notches on the filler pipe.
5. Turn the filler cap clockwise 1/4 of a turn until at least a few clicks are heard.

If "Check fuel cap" displays in the message center or the "Service Engine Soon" indicator (vehicle without message center) comes on and stays on after you start the engine, the fuel filler cap may not be properly installed. Turn off the engine, remove the fuel filler cap, align the cap properly and reinstall it.

If you must replace the fuel filler cap, replace it with a fuel filler cap that is designed for your vehicle. The customer warranty may be void for any damage to the fuel tank or fuel system if the correct genuine Ford or Motorcraft fuel filler cap is not used.



The fuel system may be under pressure. If the fuel filler cap is venting vapor or if you hear a hissing sound, wait until it stops before completely removing the fuel filler cap. Otherwise, fuel may spray out and injure you or others.

Maintenance and Specifications



If you do not use the proper fuel filler cap, excessive pressure or vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in possible personal injury.

FORD RECOMMENDS BP



Choosing the right fuel

Use only UNLEADED FUEL. The use of leaded fuel is prohibited by law and could damage your vehicle.

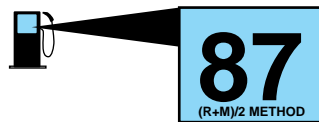
Your vehicle was not designed to use fuel or fuel additives with metallic compounds, including manganese-based additives. Studies indicate that these additives can cause your vehicle's emission control system to deteriorate more rapidly. In Canada, premium grade fuel generally contains more metallic additives than regular grade fuel. We recommend using regular grade fuel. In Canada, many fuels contain metallic additives, but fuels free of such additives may be available; check with your local fuel dealer.

Do not use fuel containing methanol. It can damage critical fuel system components.

Repairs to correct the effects of using a fuel for which your vehicle was not designed may not be covered by your warranty.

Octane recommendations

Your vehicle is designed to use "Regular" unleaded gasoline with pump (R+M)/2 octane rating of 87. We do not recommend the use of gasolines labeled as "Regular" that are sold with octane ratings of 86 or lower in high altitude areas.



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

Fuel quality

If you are experiencing starting, rough idle or hesitation driveability problems during a cold start, try a different brand of gasoline. If the problems persist, see your authorized dealer.

It should not be necessary to add any aftermarket products to your fuel tank if you continue to use high quality fuel of the recommended octane rating. Aftermarket products could cause damage to the fuel system. Repairs to correct the effects of using an aftermarket product in your fuel may not be covered by your warranty.

Many of the world's automakers approved the World-wide Fuel Charter that recommends gasoline specifications to provide improved performance and emission control system protection for your vehicle. Gasolines that meet the World-wide Fuel Charter should be used when available. Ask your fuel supplier about gasolines that meet the World-wide Fuel Charter.


Cleaner air

Ford endorses the use of reformulated "cleaner-burning" gasolines to improve air quality.

Running out of fuel

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

If you have run out of fuel:

- You may need to cycle the ignition from off to on several times after refueling, to allow the fuel system to pump the fuel from the tank to the engine.
- The  indicator may come on. For more information on the "check engine" or the "service engine soon" indicator, refer to *Warning lights and chimes* in the *Instrument Cluster* chapter.

ESSENTIALS OF GOOD FUEL ECONOMY

Measuring techniques

Your best source of information about actual fuel economy is you, the driver. You must gather information as accurately and consistently as

Maintenance and Specifications

possible. Fuel expense, frequency of fill-ups or fuel gauge readings are NOT accurate as a measure of fuel economy. We do not recommend taking fuel economy measurements during the first 1,000 miles (1,600 km) of driving (engine break-in period). You will get a more accurate measurement after 2,000 miles-3,000 miles (3,000 km-5,000 km).

Filling the tank

The advertised fuel capacity of the fuel tank on your vehicle is equal to the rated refill capacity of the fuel tank as listed in the *Refill capacities* section of this chapter.

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

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

For consistent results when filling the fuel tank:

- Turn the engine/ignition switch to the off position prior to refueling, an error in the reading will result if the engine is left running.
- Use the same filling rate setting (low — medium — high) each time the tank is filled.
- Allow no more than two automatic click-offs when filling.
- Always use fuel with the recommended octane rating.
- Use a known quality gasoline, preferably a national brand.
- Use the same side of the same pump and have the vehicle facing the same direction each time you fill up.
- Have the vehicle loading and distribution the same every time.

Your results will be most accurate if your filling method is consistent.

Calculating fuel economy

1. Fill the fuel tank completely and record the initial odometer reading (in miles or kilometers).
2. Each time you fill the tank, record the amount of fuel added (in gallons or liters).

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3. After at least three to five tank fill-ups, fill the fuel tank and record the current odometer reading.
4. Subtract your initial odometer reading from the current odometer reading.
5. Follow one of the simple calculations in order to determine fuel economy:

Calculation 1: **Divide total miles traveled by total gallons used.**

Calculation 2: **Multiply liters used by 100, then divide by total kilometers traveled.**

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

Driving style — good driving and fuel economy habits

Give consideration to the lists that follow and you may be able to change a number of variables and improve your fuel economy.

Habits

- Smooth, moderate operation can yield up to 10% savings in fuel.
- Steady speeds without stopping will usually give the best fuel economy.
- Idling for long periods of time (greater than one minute) may waste fuel.
- Anticipate stopping; slowing down may eliminate the need to stop.
- Sudden or hard accelerations may reduce fuel economy.
- Slow down gradually.
- Driving at reasonable speeds (traveling at 55 mph [88 km/h] uses 15% less fuel than traveling at 65 mph [105 km/h]).
- Revving the engine before turning it off may reduce fuel economy.
- Using the air conditioner or defroster may reduce fuel economy.
- You may want to turn off the speed control in hilly terrain if unnecessary shifting between third and fourth gear occurs. Unnecessary shifting of this type could result in reduced fuel economy.
- Warming up a vehicle on cold mornings is not required and may reduce fuel economy.

Maintenance and Specifications

- Resting your foot on the brake pedal while driving may reduce fuel economy.
- Combine errands and minimize stop-and-go driving.

Maintenance

- Keep tires properly inflated and use only recommended size.
- Operating a vehicle with the wheels out of alignment will reduce fuel economy.
- Use recommended engine oil. Refer to *Lubricant specifications* in this chapter.
- Perform all regularly scheduled maintenance items. Follow the recommended maintenance schedule and owner maintenance checks found in *scheduled maintenance information*.

Conditions

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

EPA window sticker

Every new vehicle should have the EPA window sticker. Contact your authorized dealer if the window sticker is not supplied with your vehicle. The EPA window sticker should be your guide for the fuel economy comparisons with other vehicles.

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It is important to note the box in the lower left corner of the window sticker. These numbers represent the range of fuel economy expected on the vehicle under optimum conditions. Your fuel economy may vary depending upon the method of operation and conditions.

EMISSION CONTROL SYSTEM

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


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

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

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



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

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



Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment.



Do not make any unauthorized changes to your vehicle or engine. By law, vehicle owners and anyone who manufactures, repairs, services,

Maintenance and Specifications


sells, leases, trades vehicles, or supervises a fleet of vehicles are not permitted to intentionally remove an emission control device or prevent it from working. Information about your vehicle's emission system is on the Vehicle Emission Control Information Decal located on or near the engine. This decal identifies engine displacement and gives some tune up specifications.


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

On board diagnostics (OBD-II)



Your vehicle is equipped with a computer that monitors the engine's emission control system. This system is commonly known as the On Board Diagnostics System (OBD-II). This OBD-II system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists your authorized dealer in properly servicing your vehicle. When the  indicator illuminates, the OBD-II system has detected a malfunction. Temporary malfunctions may cause the  indicator to illuminate. Examples are:

1. The vehicle has run out of fuel—the engine may misfire or run poorly.
2. Poor fuel quality or water in the fuel.
3. The fuel cap may not have been securely tightened. See *Fuel filler cap* in this chapter.

These temporary malfunctions can be corrected by filling the fuel tank with good quality fuel and/or properly tightening the fuel cap. After three driving cycles without these or any other temporary malfunctions present, the  indicator should turn off—A driving cycle consists of a cold engine startup followed by mixed city/highway driving. No additional vehicle service is required.

If the  indicator remains on, have your vehicle serviced at the first available opportunity.

Readiness for Inspection/Maintenance (I/M) testing

In some localities, it may be a legal requirement to pass an I/M test of the on-board diagnostics system. If the  indicator is on, refer to the description in the *Warning lights and chimes* section of the *Instrument Cluster* chapter. Your vehicle may not pass the I/M test with the  indicator on.

If the vehicle's powertrain system or its battery has just been serviced, the on-board diagnostics system is reset to a "not ready for I/M test"

Maintenance and Specifications

condition. To ready the on-board diagnostics system for I/M testing, a minimum of 30 minutes of city and highway driving is necessary as described below:

- First, at least 10 minutes of driving on an expressway or highway.
- Next, at least 20 minutes driving in stop-and-go, city-type traffic with at least four idle periods.

Allow the vehicle to sit for at least eight hours without starting the engine. Then, start the engine and complete the above driving cycle. The engine must warm up to its normal operating temperature. Once started, do not turn off the engine until the above driving cycle is complete.

POWER STEERING FLUID

Check the power steering fluid. Refer to the *scheduled maintenance information* for the service interval schedules. If adding fluid is necessary, use only Ford Premium Power Steering Fluid or MERCON® ATF.

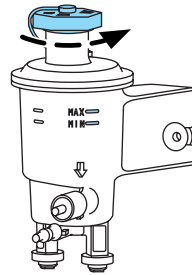
1. Start the engine and let it run until it reaches normal operating temperature (the engine coolant temperature gauge indicator will be near the center of the normal area between H and C).

2. While the engine idles, turn the steering wheel left and right several times.

3. Turn the engine off.

4. Check the fluid level in the reservoir. It should be between the MIN and MAX lines. Do not add fluid if the level is in this range.

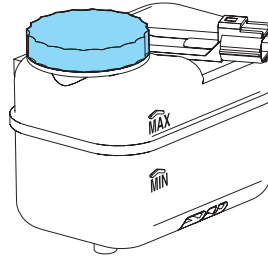
5. If the fluid is low, add fluid in small amounts, continuously checking the level until it reaches the range between the MIN and MAX lines. Be sure to put the cap back on the reservoir.



Maintenance and Specifications

BRAKE FLUID

The fluid level will drop slowly as the brakes wear, and will rise when the brake components are replaced. Fluid levels between the “MIN” and “MAX” lines are within the normal operating range; there is no need to add fluid. If the fluid levels are outside of the normal operating range the performance of your brake system could be compromised; seek service from your authorized dealer immediately.



TRANSMISSION FLUID

Checking automatic transmission fluid

Refer to your *scheduled maintenance information* for scheduled intervals for fluid checks and changes. Your transmission does not consume fluid. However, the fluid level should be checked if the transmission is not working properly, i.e., if the transmission slips or shifts slowly or if you notice some sign of fluid leakage.

Automatic transmission fluid expands when warmed. To obtain an accurate fluid check, drive the vehicle until it is at normal operating temperature (approximately 20 miles [30 km]). If your vehicle has been operated for an extended period at high speeds, in city traffic during hot weather or pulling a trailer, the vehicle should be turned off for about 30 minutes to allow fluid to cool before checking.

1. Drive the vehicle 20 miles (30 km) or until it reaches normal operating temperature.
2. Park the vehicle on a level surface and engage the parking brake.
3. With the parking brake engaged and your foot on the brake pedal, start the engine and move the gearshift lever through all of the gear ranges. Allow sufficient time for each gear to engage.
4. Latch the gearshift lever in P (Park) and leave the engine running.
5. Remove the dipstick, wiping it clean with a clean, dry lint free rag. If necessary, refer to *Identifying components in the engine compartment* in this chapter for the location of the dipstick.
6. Install the dipstick making sure it is fully seated in the filler tube.

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7. Remove the dipstick and inspect the fluid level. The fluid should be in the designated area for normal operating temperature or ambient temperature.

Low fluid level

Do not drive the vehicle if the fluid level is at the bottom of the dipstick and the ambient temperature is above 50°F (10°C).

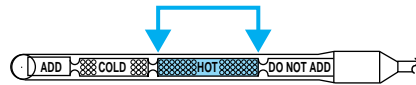


Correct fluid level

The transmission fluid should be checked at normal operating temperature 150°F-170°F (66°C-77°C) on a level surface. The normal operating temperature can be reached after approximately 20 miles (30 km) of driving.

You can check the fluid without driving if the ambient temperature is above 50°F (10°C). However, if fluid is added at this time, an overfill condition could result when the vehicle reaches normal operating temperature.

The transmission fluid should be in this range if at normal operating temperature (150°F-170°F [66°C-77°C]).



The transmission fluid should be in this range if at ambient temperature (50°F-95°F [10°C-35°C]).



High fluid level

Fluid levels above the safe range may result in transmission failure. An overfill condition of transmission fluid may cause shift and/or engagement concerns and/or possible damage.

High fluid levels can be caused by an overheating condition.



Adjusting automatic transmission fluid levels

Before adding any fluid, make sure the correct type is used. The type of fluid used is normally indicated on the dipstick and also in the *Lubricant specifications* section in this chapter.

Use of a non-approved automatic transmission fluid may cause internal transmission component damage.

Maintenance and Specifications

If necessary, add fluid in 1/2 pint (250 mL) increments through the filler tube until the level is correct.

If an overfill occurs, excess fluid should be removed by an authorized dealer.



An overfill condition of transmission fluid may cause shift and/or engagement concerns and/or possible damage.

Do not use supplemental transmission fluid additives, treatments or cleaning agents. The use of these materials may affect transmission operation and result in damage to internal transmission components.

AIR FILTER

Refer to *scheduled maintenance information* for the appropriate intervals for changing the air filter element.

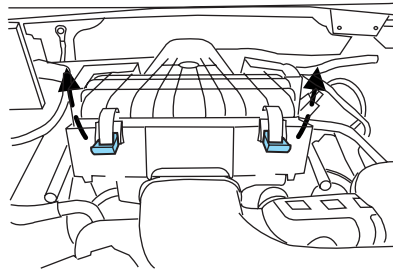
When changing the air filter element, use only the Motorcraft air filter element listed. Refer to *Motorcraft part numbers* in this chapter.



To reduce the risk of vehicle damage and/or personal burn injuries do not start your engine with the air cleaner removed and do not remove it while the engine is running.

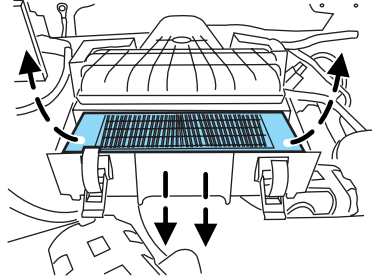
Changing the air filter element

1. Release two retainer clamps.



Maintenance and Specifications

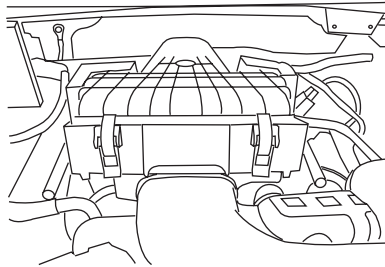
2. Pull air filter tray assembly out toward front of vehicle and lift air filter element up and out of housing.



The air filter box needs to be free of any debris before installing a new air filter.

3. Install a new air filter element into the tray assembly.

4. Return air filter tray to original position by pressing firmly on the handle until all rearward movement stops and secure the two clamps.



DRIVELINE UNIVERSAL JOINT AND SLIP YOKE

Your vehicle may be equipped with universal joints that require lubrication. Refer to the *scheduled maintenance information* for maintenance intervals. If the original universal joints are replaced with universal joints equipped with grease fittings, lubrication will also be necessary.

Maintenance and Specifications

MOTORCRAFT PART NUMBERS

Component	5.4L 3V V8 engine
Air filter element	FA-1754
Battery	BXT-65-650
Fuel filter	FG-986B
Oil filter	FL-820-S
PCV valve	¹
Spark plugs	²

¹The PCV valve is a critical emission component. It is one of the items listed in *scheduled maintenance information* and is essential to the life and performance of your vehicle and to its emissions system.

For PCV valve replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the PCV valve.

Replace the PCV valve with one that meets Ford material and design specifications for your vehicle, such as a Motorcraft or equivalent replacement part. The customer warranty may be void for any damage to the emissions system if such a PCV valve is not used.

²For spark plug replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the spark plugs.

Replace the spark plugs with ones that meet Ford material and design specifications for your vehicle, such as Motorcraft or equivalent replacement parts. The customer warranty may be void for any damage to the engine if such spark plugs are not used.

Maintenance and Specifications

REFILL CAPACITIES

Fluid	Ford Part Name	Application	Capacity
Brake fluid	Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid	All	Fill to line on reservoir
Engine oil (includes filter change) ⁶	Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil (US) Motorcraft SAE 5W-20 Super Premium Motor Oil (Canada)	All	7.0 quarts (6.6 L)
Fuel tank	N/A	All	28.0 gallons (106L)
Power steering fluid	Motorcraft MERCON [®] ATF	All	Fill to line on reservoir
Transmission fluid ¹	Motorcraft MERCON [®] V ATF	4R75E	13.9 quarts (13.1L) ²
Transfer case fluid	Motorcraft MERCON [®] ATF	4x4 vehicles	2.0 quarts (1.9L)

Maintenance and Specifications

Fluid	Ford Part Name	Application	Capacity
Engine coolant ³	Motorcraft Premium Gold Engine Coolant (yellow-colored)	5.4L Base Radiator without aux rear heat	19.4 quarts (18.4L)
		5.4L Heavy Duty Trailer Tow Radiator without aux rear heat	19.7 quarts (18.6L)
		5.4L Base Radiator with aux rear heat	20.7 quarts (19.6L)
		5.4L Heavy Duty Trailer Tow Radiator with aux rear heat	20.9 quarts (19.8L)
Front axle lubricant	Motorcraft SAE 80W-90 Premium Rear Axle Lubricant	4x4 vehicles	3.5-3.7 pints (1.8-2.0L)
Rear axle lubricant ⁴	Motorcraft SAE 75W-140 Synthetic Rear Axle Lubricant	Conventional differential (9.75 inch axle)	4.5 pints (2.13L)
		Limited-slip differential (9.75 inch axle)	4.25 pints (2.01L) ⁵
Windshield washer fluid	Motorcraft Premium Windshield Washer Concentrate	All	4.5 quarts (4.1L)

¹Ensure the correct automatic transmission fluid is used. Transmission fluid requirements are indicated on the dipstick or on the dipstick handle. Check the container to verify the fluid being added is of the correct type. Refer to your *scheduled maintenance information* to determine the correct service interval.

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Some transmission fluids may be labeled as dual usage, such as MERCON® and MERCON® V. These dual usage fluids are not to be used in an automatic transmission that requires use of the MERCON® type fluid. However, these dual usage fluids may be used in transmissions that require the MERCON® V type fluid.

MERCON® and MERCON® V type fluids are not interchangeable. DO NOT mix MERCON® and MERCON® V. Use of a transmission fluid that indicates dual usage (MERCON® and MERCON® V) in an automatic transmission application requiring MERCON® may cause transmission damage. Use of any fluid other than the recommended fluid may cause transmission damage.

²Indicates only approximate dry-fill capacity. Some applications may vary based on cooler size and if equipped with an in-tank cooler. The amount of transmission fluid and fluid level should be set by the indication on the dipstick's normal operating range.

³Add the coolant type originally equipped in your vehicle.

⁴Your vehicle's rear axle is filled with a synthetic rear axle lubricant and is considered lubricated for life. These lubricants are not to be checked or changed unless a leak is suspected, service is required or the axle has been submerged in water. The axle lubricant should be changed any time the axle has been submerged in water.

⁵Add 4 oz. (118 ml) of Additive Friction Modifier XL-3 (or equivalent) for complete refill of Limited Slip axles. For complete refills, fill using the Additive Friction Modifier first.

⁶Use of synthetic or synthetic blend motor oil is not mandatory. Engine oil need only meet the requirements of Ford specification WSS-M2C930-A and the API Certification mark.

Maintenance and Specifications

LUBRICANT SPECIFICATIONS

Item	Ford part name	Ford part number	Ford specification
Brake fluid	Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid	PM-1 or PM-1-C	ESA-M6C25-A or WSS-M6C62-A
Hinges, latches, striker plates and rotors, seat tracks, fuel filler door hinge and spring	Multi-Purpose Grease	XG-4 or XL-5	ESB-M1C93-B
Lock cylinders, swing-away spare tire carrier padlock	Motorcraft Penetrating and Lock Lubricant	XL-1	none
Driveshaft, slip spline, double Cardan joint center ball	Premium Long Life Grease	XG-1-C	ESA-M1C75-B
Engine coolant	Motorcraft Premium Gold Engine Coolant (yellow-colored)	VC-7-A (except CA, OR and NM), VC-7-B (CA, OR and NM)	WSS-M97B51-A1
Cooling system stop leak pellets	Motorcraft Cooling System Stop Leak Pellets	VC-6	WSS-M99B37-B6

Maintenance and Specifications

Item	Ford part name	Ford part number	Ford specification
Engine oil	Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil Motorcraft SAE 5W-20 Super Premium Motor Oil (Canada)	XO-5W20-QSP (US) CXO-5W20-LSP12 (Canada)	WSS-M2C930-A and API Certification Mark
4x4 front wheel bearings, 4x4 spindle needle bearings, spindle thrust bearings & front drive axle u-joint/slip spline	High Temperature 4x4 Front Axle & Wheel Bearing Grease	E8TZ-19590-A	ESA-M1C198-A
Automatic transmission 4R75E ¹	Motorcraft MERCON [®] V ATF	XT-5-QM	MERCON [®] V
Power steering fluid	Motorcraft MERCON [®] ATF	XT-2-QDX	MERCON [®]
Rear axle ²	Motorcraft SAE 75W-140 Synthetic Rear Axle Lube	XY-75W140-QL	WSL-M2C192-A
Front axle (4X4)	Motorcraft SAE 80W-90 Premium Rear Axle Lube	XY-80W90-QL	WSP-M2C197-A
Transfer case (4X4)	Motorcraft MERCON [®] ATF	XT-2-QDX	MERCON [®]

Maintenance and Specifications

Item	Ford part name	Ford part number	Ford specification
Windshield washer fluid	Motorcraft Premium Windshield Washer Concentrate	ZC-32-A	WSB-M8B16-A2

¹Ensure the correct automatic transmission fluid is used. Transmission fluid requirements are indicated on the dipstick or on the dipstick handle. Check the container to verify the fluid being added is of the correct type. Refer to your *scheduled maintenance information* to determine the correct service interval.

Some transmission fluids may be labeled as dual usage, such as MERCON® and MERCON® V. These dual usage fluids are not to be used in an automatic transmission that requires use of the MERCON® type fluid. However, these dual usage fluids may be used in transmissions that require the MERCON® V type fluid.

MERCON® and MERCON® V type fluids are not interchangeable. DO NOT mix MERCON® and MERCON® V. Use of a transmission fluid that indicates dual usage (MERCON® and MERCON® V) in an automatic transmission application requiring MERCON® may cause transmission damage. Use of any fluid other than the recommended fluid may cause transmission damage.

²Add 4 oz. (118 ml) of Additive Friction Modifier XL-3 or equivalent for complete refill of Ford Limited Slip rear axles.

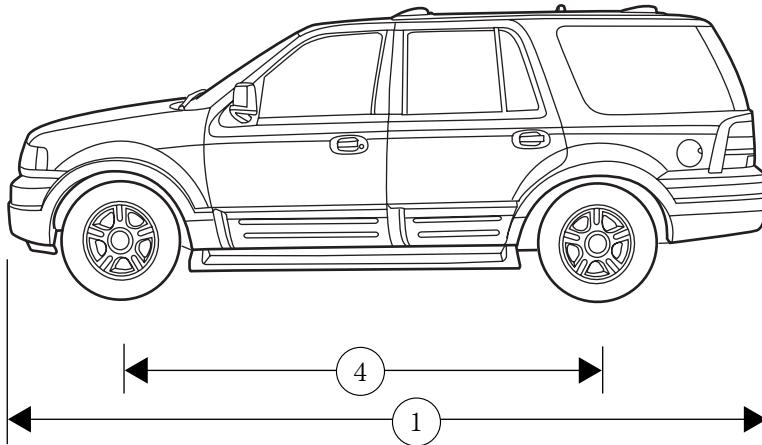
ENGINE DATA

Engine	5.4L V8 engine
Cubic inches	330
Required fuel	87 octane
Firing order	1-3-7-2-6-5-4-8
Ignition system	Coil on plug
Spark plug gap ¹	0.040–0.050 inch (1.02–1.27 mm)
Compression ratio	9.85:1
¹ Spark plug gap not adjustable	

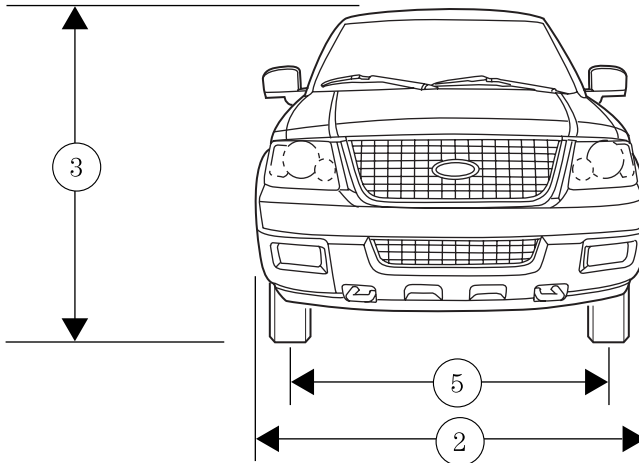
Maintenance and Specifications

VEHICLE DIMENSIONS

Vehicle dimensions	4x2 - inches (mm)	4x4 - inches (mm)
(1) Overall length	205.8 (5228)	205.8 (5228)
(2) Vehicle width (Body)	78.7 (2000)	78.7 (2000)
(2) Vehicle width including mirrors	94.2 (2392)	94.2 (2392)
(2) Vehicle width with mirrors folded	79.9 (2029)	79.9 (2029)
(2) Vehicle width with optional running boards	81.7 (2074)	81.7 (2074)
(3) Overall height (with roof rack)	76.7 (1948)	76.6 (1944)
(4) Wheelbase	119.0 (3023)	119.0 (3023)
(5) Track - Front	67.0 (1701)	67.0 (1701)
(5) Track - Rear	67.3 (1708)	67.3 (1708)



Maintenance and Specifications



IDENTIFYING YOUR VEHICLE

Safety Compliance Certification Label


The National Highway Traffic Safety Administration Regulations require that a Safety Compliance Certification Label be affixed to a vehicle and prescribe where the Safety Compliance Certification Label may be located. The Safety Compliance Certification Label is located on the structure by the trailing edge of the driver's door or the edge of the driver's door.

MFD. BY FORD MOTOR CO.					
DATE: XX/XX		GVWR: XXXXXLB/ XXXXXKG			
FRONT GAWR: XXXXL		REAR GAWR: XXXXLB			
XXXXKG	WITH	XXXXKG	WITH		
XXXX/XXXXXX	TIRES	XXXX/XXXXXX	TIRES		
XXXX.XX	RIMS	XXXX.XX	RIMS		
AT XXX kPa/XX	PSI COLD	AT XXX kPa/XX	PSI COLD		
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.					
VIN: XXXXXXXXXXXXXXXXX		XXXXX			
TYPE: XXX		XXXXX			
EXT PNT: XX		RC: XX		DSO:	
WB ¹ BRK ¹ INT TR ¹ TP/PS ¹ R ¹		AXLE ¹ TR ¹ SPR ¹		XXXXX	
XXX X XX		X XX X XX		XXX	
XXXXXXXXXXXXX XXX XXXX-XXXXXX-XX					

Maintenance and Specifications

TRANSMISSION/TRANSAXLE CODE DESIGNATIONS

You can find a transmission/transaxle code on the Safety Compliance Certification Label. The following table tells you which transmission or transaxle each code represents.

MFD. BY FORD MOTOR CO.									
DATE: XX/XX	GVWR: XXXXXLB/ XXXXXKG								
FRONT GAWR: XXXXL	WITH XXXXKG		REAR GAWR: XXXXLB		WITH XXXXLB				
XXXXXX	TIRES: XXXX/XXXXXX		XXXXXX		TIRES XXXX/XXXXXX				
XXXX.XX	RIMS: XXXX.XX		XXXX.XX		RIMS XXXX.XX				
AT XXX kPa/XX	PSI COLD		AT XXX kPa/XX		PSI COLD				
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.									
VIN: XXXXXXXXXXXXXXXXX									XXXXX
TYPE: XXX									XXXXX
									
EXT PNT: XX	RC: XX		DSO:						
WB ¹ BRK ²	INT TR ³	TP/PS ⁴	R ⁵	AXLE ⁶	TR ⁷	SPR ⁸	XXXXX		
XXX X	XX	X	XX	X	X	XX	XXX		
XXXXXXXXXXXXX XX XXXX-XXXXXX-XX									

Description	Code
Four-speed automatic (4R75E)	Q

Accessories

GENUINE FORD ACCESSORIES FOR YOUR VEHICLE

A wide selection of Genuine Ford Accessories are available for your vehicle through your local Ford or Ford of Canada dealer. These quality accessories have been specifically engineered to fulfill your automotive needs; they are custom designed to complement the style and aerodynamic appearance of your vehicle. In addition, each accessory is made from high quality materials and meets or exceeds Ford's rigorous engineering and safety specifications. Ford Motor Company will repair or replace any properly dealer-installed Genuine Ford Accessories found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessory. The accessories will be warranted for whichever provides you the greatest benefit:

- 12 months or 12,000 miles (20,000 km) (whichever occurs first), or
- the remainder of your new vehicle limited warranty.

This means that Genuine Ford Accessories purchased along with your new vehicle and installed by a dealer are covered for the full length of your New Vehicle's Limited Warranty — 3 years or 36,000 miles (60,000 km) (whichever occurs first). Contact your dealer for details and a copy of the warranty.

Not all accessories are available for all models.

The following is a list of several Genuine Ford Accessories. Not all accessories are available for all models. For a complete listing of the accessories that are available for your vehicle, please contact your dealer or visit our online store at: www.fordaccessoriesstore.com.

Exterior style

Bug shields
Deflectors
Running boards
Splash guards
Step bars
Wheels

Interior style

Electrochromatic compass/temperature interior mirrors
Floor mats
Scuff plates

Accessories

Lifestyle

Cargo organization and management

Smoker's package

Rear seat entertainment systems

Trailer hitches, wiring harnesses and accessories

Peace of mind

Mobile-Ease[™] hands-free communication system

Remote start

Vehicle security systems

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Consult your authorized dealer for specific weight information.
- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems — such as two-way radios, telephones and theft alarms - that are equipped with radio transmitters. Any such equipment installed in your vehicle should comply with FCC or CRTC regulations and should be installed only by a qualified service technician.
- Mobile communications systems may harm the operation of your vehicle, particularly if they are not properly designed for automotive use.
- To avoid interference with other vehicle functions, such as anti-lock braking systems, amateur radio users who install radios and antennas onto their vehicle should not locate the Amateur Radio Antennas in the area of the driver's side hood.
- Electrical or electronic accessories or components that are added to the vehicle by the authorized dealer or the owner may adversely affect battery performance and durability.

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