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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 the 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 and prevent possible damage to others, your vehicle and its equipment? In this guide, answers to such questions are contained in comments highlighted by the warning triangle symbol. These comments should be read and observed.

Warning symbols on your vehicle

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



Protecting the environment

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



BREAKING-IN YOUR VEHICLE

Your vehicle does not need an extensive break-in. Try not to drive continuously at the same speed for the first 1,600 km (1,000 miles) of new vehicle operation. Vary your speed to allow parts to adjust themselves to other parts.

Drive your new vehicle at least 800 km (500 miles) before towing a trailer.

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

Introduction

SPECIAL NOTICES

Emission warranty

The New Vehicle Limited Warranty includes Bumper-to-Bumper Coverage, Safety Restraint Coverage, Corrosion Coverage, and 7.3L Power Stroke Diesel Engine Coverage. In addition, your vehicle is eligible for Emissions Defect and Emissions Performance Warranties. For a detailed description of what is covered and what is not covered, refer to the *Warranty Guide* that is provided to you along with your Owner's Guide.

Data Recording

Computers in your vehicle are capable of recording detailed data potentially including but not limited to information such as:

- the use of restraint systems including seat belts by the driver and passengers,
- information about the performance of various systems and modules in the vehicle, and
- information related to engine, throttle, steering, brake or other system status.

Any of this information could potentially include information regarding how the driver operates the vehicle potentially including but not limited to information regarding vehicle speed, brake or accelerator application or steering input. This information may be stored during regular operation or in a crash or near crash event.

This stored information may be read out and used by:

- Ford Motor Company.
- service and repair facilities.
- law enforcement or government agencies.
- others who may assert a right or obtain your consent to know such information.

Special instructions

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

Please read the section *Supplemental Restraint System (SRS)* in the *Seating and safety restraints* chapter. Failure to follow the specific warnings and instructions could result in personal injury.

Front seat mounted rear facing child or infant seats should **NEVER** be used in front of a passenger side air bag unless the air bag can be and is turned OFF.

Using your vehicle with a snowplow

Do not use this vehicle for snowplowing.

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.

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 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 Guide for all other required information and warnings.**

Introduction

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

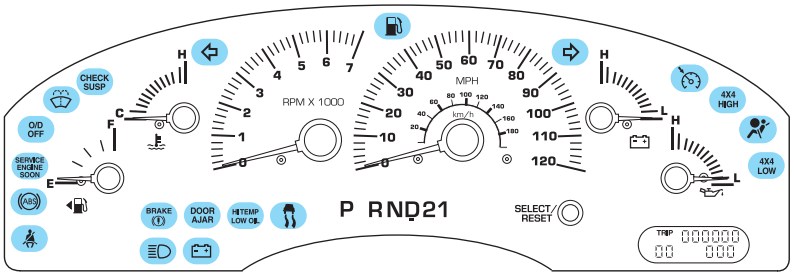
Vehicle Symbol Glossary

Safety Alert		See Owner's Guide	
Fasten Safety Belt		Air Bag-Front	
Air Bag-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	
Traction Control		AdvanceTrac™	
Master Lighting Switch		Hazard Warning Flasher	
Fog Lamps-Front		Fuse Compartment	
Fuel Pump Reset		Windshield Wash/Wipe	
Windshield Defrost/Demist		Rear Window Defrost/Demist	

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 warning	

WARNING LIGHTS AND CHIMES



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, have the respective system inspected immediately.**

Service engine soon

SERVICE ENGINE SOON

Illuminates briefly to ensure the system is functional. If it comes on after the engine is started, one of the engine's emission control systems may be malfunctioning. The light may illuminate without a driveability concern being noted. The vehicle will usually be drivable and will not require towing.

Light remains on:

Temporary malfunctions may cause the light to illuminate. Examples are:

1. The vehicle has run out of fuel.

2. Poor fuel quality or water in the fuel.

3. The fuel cap may not have been properly installed and securely tightened.

These temporary malfunctions can be corrected by filling the fuel tank with high quality fuel of the recommended octane and/or properly installing and securely tightening the fuel cap. After three driving cycles without these or any other temporary malfunctions present, the light 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 light remains on, have your vehicle serviced at the first available opportunity.

Light is blinking:

Engine misfire is occurring which could damage your catalytic converter. You should drive in a moderate fashion (avoid heavy acceleration and deceleration) and have your vehicle serviced at the first available opportunity.

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.

Brake system warning



To confirm the brake system warning light is functional, it will momentarily illuminate when the ignition is turned to the ON position (alternatively for some vehicles when the ignition is moved from the ON position to START position, the light will momentarily illuminate prior to reaching the START position). It also illuminates if the parking brake is engaged. If the brake system warning light does not illuminate as described, seek service immediately. Illumination after the parking brake is released indicates low brake fluid level or a brake system malfunction and the brake system should be serviced immediately by a qualified technician.

Refer to *Brakes* in the *Driving* chapter for more information.

Anti-lock brake system (ABS)



To confirm the anti-lock brake system (ABS) warning light is functional it will momentarily illuminate when the ignition is turned to the ON position (alternatively for some vehicles when the ignition is moved from the ON position to the START position, the light will momentarily illuminate just prior to reaching the START position). If the light remains on, continues to flash or fails to illuminate, have the ABS serviced immediately. If the ABS light remains on, it means the anti-lock brake system has malfunctioned and is disabled, however, the normal brake system will still function unless the brake warning light also remains illuminated and parking brake is off. Refer to *Brakes* in the *Driving* chapter for more information.

Instrument Cluster

Safety belt

Illuminates to remind you to fasten your safety belts. For more information, refer to the *Seating and safety restraints* chapter.



Air bag readiness

Illuminates to confirm that the air bags (front or side) are operational. If the light fails to illuminate, continues to flash or remains on, have the system serviced immediately.



Charging system

Illuminates when the battery is not charging properly.



AdvanceTrac™ (if equipped)

Flashes when the AdvanceTrac™ system is active. If the light remains on, have the system serviced immediately.

For more information, refer to the *Driving* chapter.



Low fuel

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



Low washer fluid

Illuminates when the windshield washer fluid is low.



Speed control

Illuminates when the speed control is activated.



Oil pressure/Engine coolant

Illuminates when the engine coolant temperature is above the normal range or the engine oil pressure is outside normal range. Check the engine oil and coolant level refer to *Adding engine oil* and *Adding coolant* in the *Maintenance and specifications chapter.*

HI TEMP
LOW OIL

Turn signals

Illuminates when the turn signals or the hazard lights are turned on. If the lights stay on continuously or flash faster, check for a burned-out bulb.



High beams

Illuminates when the high beam headlamps are turned on.



Door ajar

Illuminates when any door is open (or not fully closed).

DOOR
AJAR

O/D off

Illuminates when the overdrive function has been turned OFF using the Transmission Control Switch (TCS) on the gearshift. If the light does not come on or the light flashes steadily, have your vehicle serviced as soon as possible, otherwise damage to the transmission could occur.

O/D
OFF

Four wheel drive low (if equipped)

Illuminates when four-wheel drive low is engaged. If the light continues to flash have the system serviced.

4x4
LOW

Four wheel drive high (if equipped)

Illuminates when four-wheel drive is put in high range. If the light continues to flash have the system serviced.

4x4
HIGH

Check air suspension (if equipped)

Illuminates when the air suspension switch is turned OFF or the air suspension system requires servicing.

CHECK
SUSP

For information on the air suspension system, refer to the *Driving* chapter.

Safety belt warning chime

Sounds to remind you to fasten your safety belts.

BeltMinder™ chime

Sounds intermittently to remind you to fasten your safety belts.

Supplemental restraint system (SRS) warning chime

Sounds when a malfunction in the supplemental restraint system (front or side airbags) has been detected. Have the supplemental restraint system inspected immediately.

Headlamps on warning chime

Sounds when the headlamps or parking lamps are on, the key is removed from the ignition and the driver's door is opened.

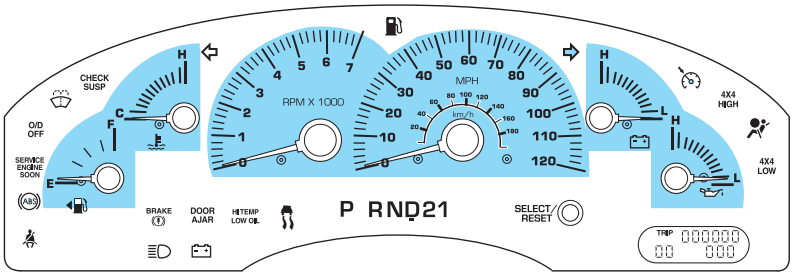
Key-in-ignition warning chime

Sounds when the key is left in the ignition and the driver's door is opened.

Door ajar warning chime

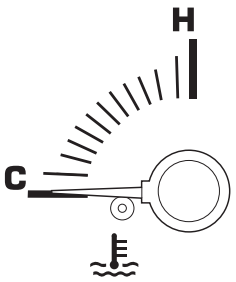
Sounds when any door or liftgate is opened (or not fully closed).

GAUGES



Engine coolant temperature gauge

Indicates the temperature of the engine coolant. At normal operating temperature, the needle remains within the normal area (the area between the “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 immediately and let the engine cool. Refer to *Engine coolant* in the *Maintenance and specifications* chapter.

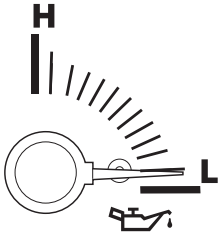


Never remove the coolant reservoir cap while the engine is running or hot. Steam and scalding liquid from a hot cooling system can burn you badly.

This gauge indicates the temperature of the engine coolant, not the coolant level. If the coolant is not at its proper level the gauge indication will not be accurate. If the gauge enters the red section, the oil pressure/engine coolant and *Check Engine/Service Engine Soon* indicators illuminate, refer to *What you should know about fail-safe cooling* in the *Maintenance and specifications* chapter.

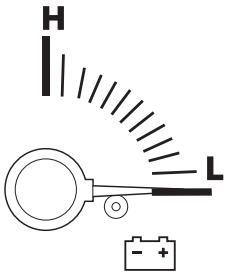
Instrument Cluster

Engine oil pressure gauge



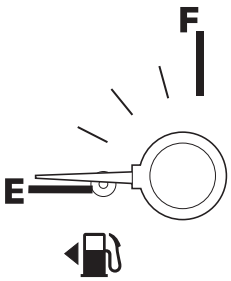
Indicates engine oil pressure. At normal operating temperature, the needle will be in the normal range (the area between the “L” and “H”); if the needle goes below the normal range, stop the vehicle as soon as safely possible and switch off the engine immediately. Check the oil level. Add oil if needed (refer to *Engine oil* in the *Maintenance and specifications* chapter). If the oil level is correct, have your vehicle checked at your dealership or by a qualified technician.

Battery voltage gauge



Indicates battery voltage. If the pointer moves and stays outside the normal operating range, have the vehicle’s electrical system checked as soon as possible.

Fuel gauge



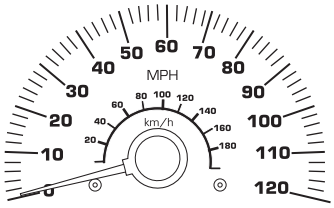
Displays approximately how much fuel is in the fuel tank. The fuel gauge may vary slightly when the vehicle is in motion or on a grade.

When refueling the vehicle from empty indication, the amount of fuel that can be added will be less than the advertised capacity due to the reserve fuel.

If the key is left in the ON position during fueling, a minimum of 22.2 L (six gallons) must be added to the fuel tank in order for the gauge to instantaneously update. If less than six gallons is added, the gauge will take between five to twenty minutes to update.

Speedometer

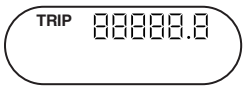
Indicates the current vehicle speed.



Odometer

Registers the total kilometers (miles) of the vehicle.

- Standard instrument cluster



- Optional instrument cluster

MESSAGE CENTER



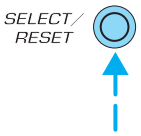
Refer to *Message Center* in the *Driver Controls* chapter for information on how to switch the display from metric to English measurements.

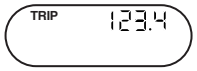
Trip odometer

Registers the kilometers (miles) of individual journeys.

- Standard instrument cluster

Press and release the SELECT/RESET button to toggle between the odometer and trip odometer display. Press and hold the button to reset.

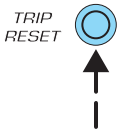




Instrument Cluster

- Optional instrument cluster

Press and release the TRIP/RESET button to toggle between the odometer and trip odometer display. Press and hold the button to reset.

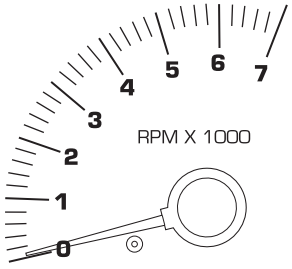




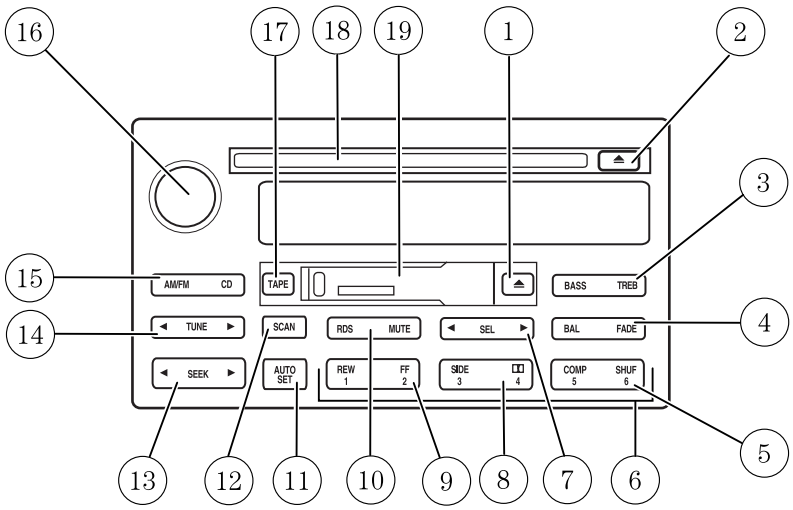
Tachometer

Indicates the engine speed in revolutions per minute.

Driving with your tachometer pointer continuously at the top of the scale may damage the engine.



PREMIUM AM/FM STEREO/CASSETTE/SINGLE CD



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 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 SEL to decrease ◀ or increase ▶ the treble levels.



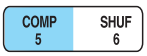
4. **BAL (Balance):** Allows you to shift speaker sound between the right and left speakers. Press BAL then press SEL to shift sound to the left ◀ or right ▶ .



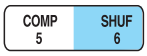
FADE: Allows you to shift speaker sound between the front and rear speakers. Press FADE then press SEL to shift the sound to the rear ◀ or the front ▶ .



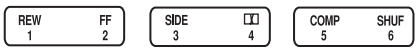
5. **COMP (Compression):** In CD mode, press to bring soft and loud passages together for a more consistent listening level. Press again to deactivate.



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



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. **SEL (Select):** Use to adjust bass, treble, balance and fade levels.



8. **Side:** Press to play the alternate side of the tape.



Dolby: Dolby® noise reduction: Reduces tape noise and hiss; press to activate/deactivate.



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.

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



In tape mode, radio play continues until rewind is stopped (with the TAPE control) or the beginning of the tape is reached.

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

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.

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

10. **MUTE:** Press to mute the playing media. Press again to return to playing media.



Note: If your vehicle is equipped with the Reverse Sensing System, the audio volume (if set above a certain level) will be lowered to a preset value when the Reverse Sensing tone is sounded.

RDS: (Radio Data System): Press RDS to access the clock mode and the RDS features.

RDS must be turned ON to activate the Traffic, Find Program Type and Show functions. To turn RDS ON, put the radio in FM mode then press the RDS button until RDS OFF appears then press SEL control to toggle function ON.

- **Traffic:** 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.* To activate, press RDS until TRAFFIC OFF appears in the display then use SEL control to toggle function ON.
- **FIND Program type:** 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. Press RDS until FIND appears in the display then use SEL control to scroll through the desired music types. Press SEEK or SCAN to find program type.
- **Show TYPE:** Allows you to display radio station call sign or format. To activate, press RDS until SHOW appears in the display, then use the SEL to select NAME or TYPE.

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.

- **Setting the clock:** Press RDS until SELECT HOUR or SELECT MINS is displayed. Press SEL to increase (◀) or decrease (▶). Press RDS again to disengage the clock mode.

11. **AUTOSET:** Press to set first six strong stations into AM, FM1 or FM2 memory buttons; press again to return to the original preset stations. 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.



12. **SCAN:** Works in radio, tape and CD modes. Press SCAN for a brief sampling of radio stations, tape selections or CD tracks. Press again to deactivate scan mode.



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



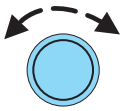
14. **TUNE:** Works in radio mode. Press ◀ /▶ to manually advance down/up the frequency band.



15. **AM/FM/CD:** Press AM/FM to select a radio frequency. Press while in tape or CD mode to return to radio mode. Press CD to enter CD mode and to play a CD already in the system. Press AM/FM to switch between AM, FM1, or FM2 memory preset stations. Press the CD control to toggle between CD and DVD (if equipped).



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 the AM/FM select control or the TAPE/CD select control.

Speed sensitive volume (if equipped): Automatically changes the volume with vehicle speed to compensate for road and wind noise. The recommended level is 1–3. Level 0 turns the speed sensitive volume off and level 7 is the maximum setting.
To engage the speed sensitive volume feature, press and hold the volume control for five seconds (with the radio on). Press SEL to increase◀ /decrease▶ volume compensation levels. The selected level will appear in the display.

17. **TAPE:** Press to begin tape play. Press during fast forward or rewind to stop fast forward or rewind function.

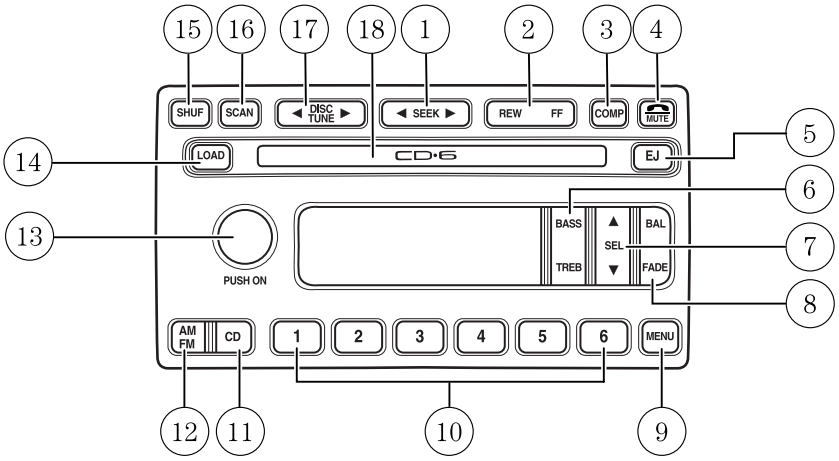


18. **CD door:** Insert the disc with the playing side down and printed side up.

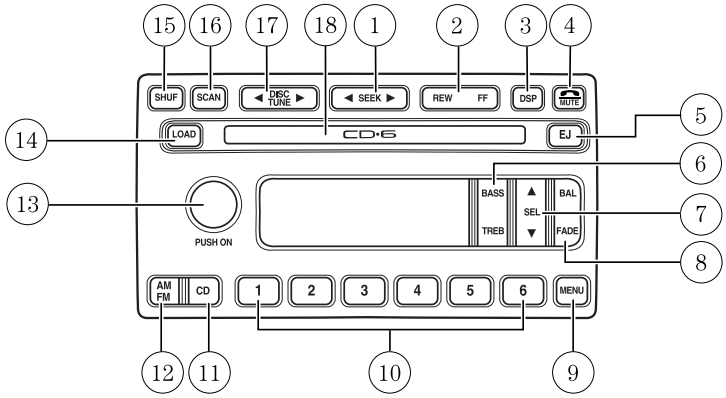
CD units are designed to play commercially pressed 12 cm (4.75 in) audio compact discs only. Due to technical incompatibility, certain recordable and re-recordable compact discs may not function correctly when used in Ford CD players. Irregular shaped CDs, CDs with a scratch protection film attached, 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. Ball point pens may damage CDs. Please contact your dealer for further information.

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

PREMIUM IN-DASH SIX CD SOUND SYSTEM



AUDIOPHILE IN-DASH SIX CD SOUND SYSTEM



1. **SEEK:** Works in radio or CD mode. Press and release SEEK ◀ / ▶ for previous/next strong station or track.



2. **REW (Rewind):** In CD mode, press to reverse within the current track.



FF (Fast forward): In CD mode, press to advance within the current track



3. **COMP or DSP**

COMP (Compression): The compression feature operates in CD mode and brings soft and loud CD passages together for a more consistent listening level. Press the COMP control until COMP ON is displayed.

DSP (Digital Signal Processing): Your vehicle will have one of the following Digital Signal Processing (DSP) features:

- **DSP ambiance:** This feature gives the feeling of "being there" to your music, creating increased clarity as well as an open and spacious feel to the music. Press DSP to access the ambiance menu. Press SEL to engage/disengage. Turn the volume control to increase/decrease the level of ambiance.



or

- **DSP:** Press to enter DSP mode. Press SEL to select the desired signal modes, (i.e., JAZZ CLUB, HALL, CHURCH or STADIUM).

Both DSP features allow you to choose the occupancy mode you want. Press DSP twice then use the SEL control to scroll the occupancy mode to optimize sound for:

- ALL SEATS
- DRIVER SEAT
- REAR SEATS

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

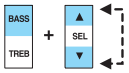


Note: If your vehicle is equipped with the Reverse Sensing System, the audio volume (if set above a certain level) will be lowered to a preset value when the Reverse Sensing tone is sounded.

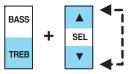
5. **EJ (Eject):** To eject a single disc, press EJ and the corresponding preset button number. Press and hold to eject all loaded discs. The eject feature is active whether the ignition is on or off.



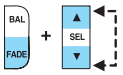
6. **BASS:** Press BASS; then press SEL ◀ /▶ to decrease/increase the bass output.



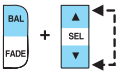
TREB (Treble): Press TREB; then press SEL ◀ /▶ to decrease/increase the treble output.



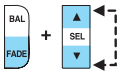
7. **SEL (Select):** Use with Bass, Treble, Balance and Fade controls to adjust levels.



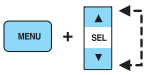
8. **BAL (Balance):** Press BAL; then press SEL ▲ /▼ to shift sound to the left/right speakers.



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



9. **MENU:** Press MENU to access clock mode, RDS features, or compression status (Audiophile systems only).



RDS must be turned ON to activate Traffic, Find Program Type and Show functions. To turn RDS ON, put the radio in FM mode then press the MENU button until RDS OFF appears then press SEL control to toggle function ON.

- **Traffic:** 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.* To activate, press MENU until TRAFFIC OFF appears in the display then use SEL to toggle function ON.

- **FIND Program type:** 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. Press RDS until FIND appears in the display then use the SEL control to scroll through the desired music types. Press SEEK or SCAN to find program types.
- **Show TYPE:** Allows you to display radio station call sign or format. To activate, press MENU until SHOW appears in the display, then use the SEL to select NAME or TYPE.

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.

- **Compression:** (Audiophile systems only) Brings soft and loud CD passages together for a more consistent listening level. To activate, press MENU until COMPRESS OFF appears in the display then use SEL control to toggle function ON
- **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.

10. **Memory presets:** 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.



11. **CD:** Press to select CD mode. Press the CD control to toggle between CD and DVD (if equipped).



12. **AM/FM:** Press to select AM/FM frequency band, or to toggle between AM, FM1 or FM2 memory preset stations.



Autoset: Allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2. Press and momentarily hold AM/FM. AUTOSET will flash on the display. 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.

13. **PUSH ON (Power/volume):** Press to turn ON/OFF; turn to increase or decrease volume levels.



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 the AM/FM select control or the TAPE/CD select control.

Speed sensitive volume (if equipped): Automatically changes the volume with vehicle speed to compensate for road and wind noise. The recommended level is 1–3. Level 0 turns the speed sensitive volume off and level 7 is the maximum setting.
To engage the speed sensitive volume feature, press and hold the volume control for five seconds (with the radio on). Press SEL to increase▲ /decrease▼ volume compensation levels. The selected level will appear in the display.

14. **LOAD:** To load a single disc, press LOAD and then the corresponding preset number. Press and hold to load up to six discs. The load function is active whether the ignition is on or off.



CD display description: Six circles are always lit in the digital display. These signify the six CD slots in the audio system. When a disc is loaded into a particular slot (1–6), the number inside that specific circle lights. If the circle is empty, there is no CD in that particular slot.

This six disc CD player is equipped with a CD door. Compact discs should only be inserted into the player after the door has been opened by the player. Do not attempt to force the door open. Compact discs should only be loaded by pressing the LOAD control.

15. **SHUF (Shuffle):** Press to play tracks in random order. Press again to deactivate random play.



16. **SCAN:** Press for a brief sampling of radio stations or CD tracks. Press again to stop.



17. **DISC TUNE:** In radio mode: Press ◀ or ▶ to manually tune down or up the radio frequency band.



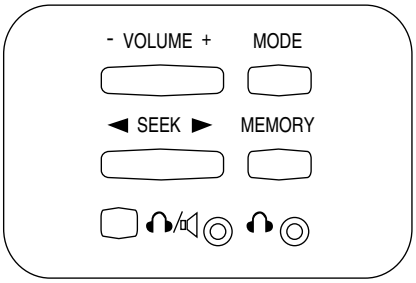
In CD mode: Press ◀ to select the previous disc or ▶ to select the next disc.

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

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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. 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.)



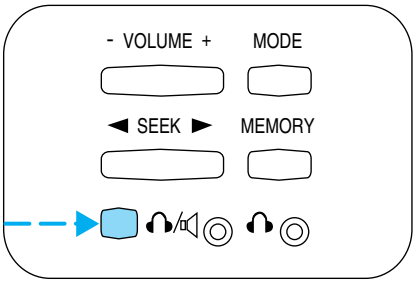
When the rear seat controls are activated, rear seat passengers can use the controls to change the playing media for all passengers (Single Play mode). In this mode, all speakers will play audio from the same media source for all passengers to hear. To activate the rear seat radio controls:



- 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.

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 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.



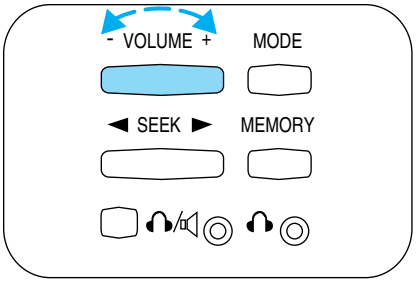
The rear speakers mute and rear seat passengers have audio (for their selected media) available through their headphones.

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.

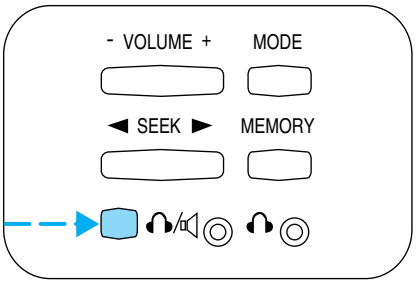
Press the - control to decrease volume.



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

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

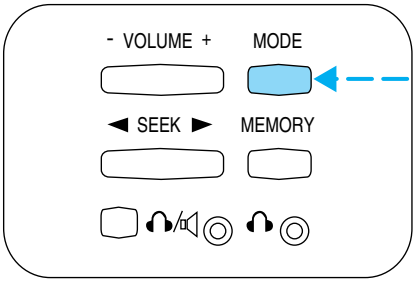
Plug a 3.5 mm headphone (not included) into the jack. Press the speaker on/off control to operate the headphones. DUAL PLAY illuminates in the radio display and the fade control is disabled, signaling that Dual Play has been activated.

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

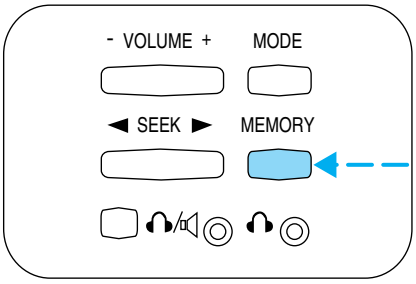
Push the MODE control to toggle between AM, FM1, FM2, tape (if equipped), CD, CD changer (if equipped) or DVD (if equipped). If in Dual Play mode, SHARED illuminates in the radio display when the front and rear modes are set to the same media.



Memory preset control

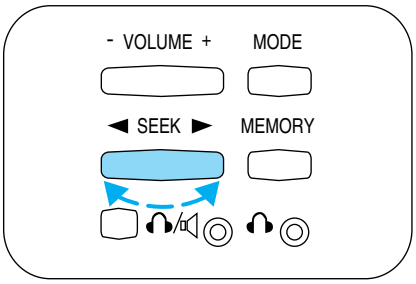
Push the MEMORY control successively to allow rear seat passengers to scroll through the 6 memory presets in AM, FM1 or FM2.

Push the MEMORY 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 audio 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.

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 an FM 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:

- Expose discs to direct sunlight or heat sources for extended periods of time.
- Insert more than one disc into each slot of the CD changer magazine.
- Clean using a circular motion.

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AUDIO SYSTEM WARRANTY AND SERVICE

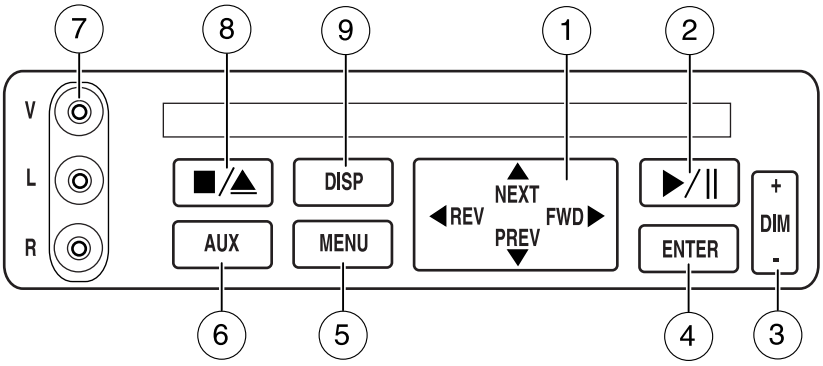
Refer to the *Warranty Guide* for audio system warranty information. If service is necessary, see your dealer or qualified technician.

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 Rear Seat Entertainment DVD System which allows you to watch DVDs, play music CDs and to plug in and play video game systems. Please review this material to become familiar with the system features and safety information.

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.

7. **Auxiliary jacks**

Insert lines for standard video game players.

8. **STOP/EJECT** control

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

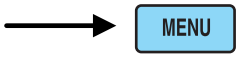
9. **DISPLAY (DISP)** control

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

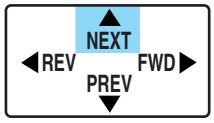
DVD control features

Menu control

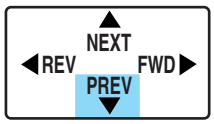
Press the MENU control to enter into MENU mode. This allows you to move and choose within the DVD generated menu structure. Once in MENU mode:



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



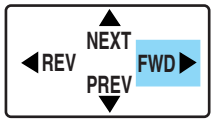
- Press the PREV control to move the cursor one position downward



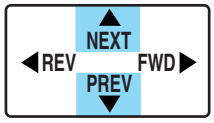
- Press the REV control to move the cursor left one position



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

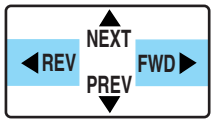


Next/Previous control



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 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.



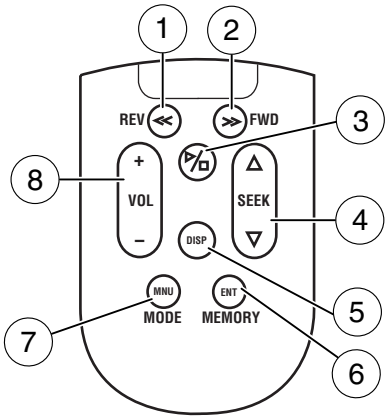
User menu mode

To adjust the display setting, press DISP once and the player menu will appear. Press DISP again to adjust the display setting. Use the arrow controls and the ENTER controls to select the various screen settings. (Available screen selections are 16x9, Normal, 4x3 and Zoom).



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. 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 player menu and again to adjust the display setting. Select zoom from the screen settings by using the arrow and ENTER controls.

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.

7. **MNU/MODE** control

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

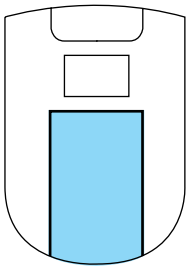
In stop mode, press to change to a different playing media (e.g. AM, FM, CD . . .)

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.

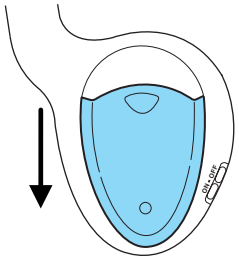
For further information about the Rear Seat Controls, refer to *Rear Seat Controls* section in this chapter.

Wireless headphones

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



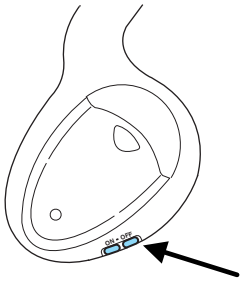
To install the batteries, lightly press down on the top of the left earpiece and slide the cover off.



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

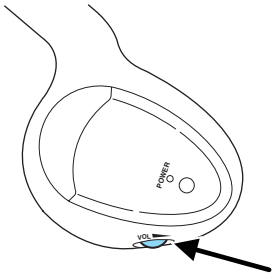
Wireless headphone operation

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.

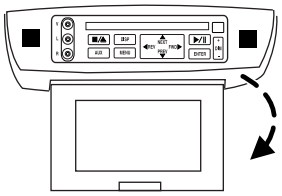
Note: The volume level of the wireless headphones can only be controlled by the thumbwheel. Neither the remote control nor the rear seat controls will affect the volume output of the wireless headphones.



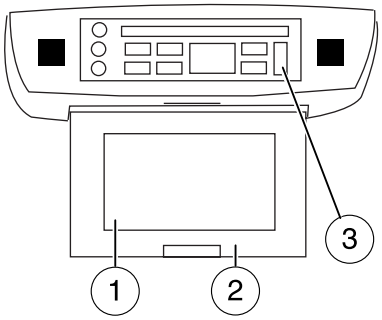
When not using the headphones, shut them off to preserve battery power. The headphones will automatically turn off after five minutes if they have not received an infrared audio signal from the overhead pod.

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.

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 standard CDs or DVDs.
- The DVD player is only capable of playback of DVDs and CDs. The player is not compatible with CDR/RW media.

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.
- 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 only capable of playback of DVDs and CDs. The player is not compatible with CDR/RW media.
- 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 12 cm (4.75 in) 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. Ball point pens may damage discs. Please contact your dealer for further information.

Inserting a CD/DVD

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.

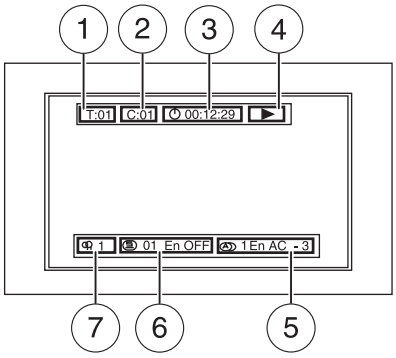
Playing a video game/auxiliary device

1. Connect the video line from your video game 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. CD track
2. DVD chapter
3. SYSTEM COUNTER — displays current viewing time of desired media. (HOURS:MINUTES:SECONDS)
4. DVD/ CD STATUS (PLAY/FF/REW/PAUSE)
5. AUDIO OUTPUT (not changeable)
6. Subtitles (specific language type - English or Spanish, dependent on disc capability and ON/OFF selection.)
7. Camera angle (of picture) - Adjustable with cursor controls and ENTER control.

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.

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.

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 compact discs

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

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. 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.

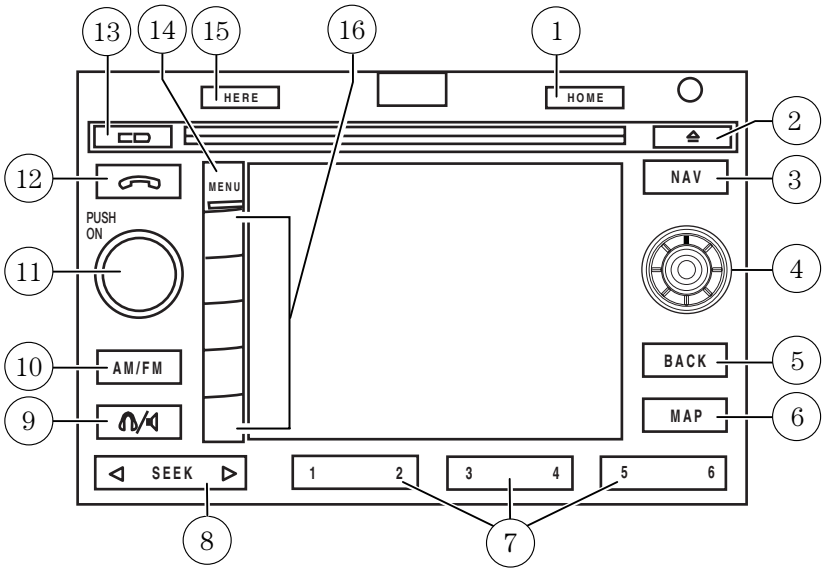
The driver must not attempt to operate any detailed operation of the navigation system while the vehicle is in motion. Give full attention to driving and to the road. Pull off the road and park in a safe place before performing detailed operations.

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.
- 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



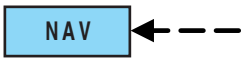
1. **HOME:** When the home location is empty, pressing and holding this key will store the vehicle's current location as home. Pressing the home key after the home location has been set will calculate a route to that set home location.



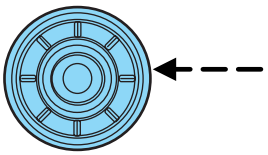
2. **Eject:** Press this control to eject an audio CD or a navigation CD.



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



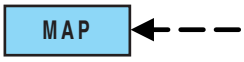
4. **Cursor control:** Use this control when viewing a menu in the navigation system. Press the control up or down, left or right to highlight an item in the display. Press the center of the control to make your selection.



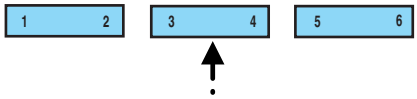
5. **BACK:** Use this control in the navigation system. Press to return to the previous screen or you can press MENU to return to the main navigation menu.



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

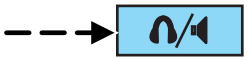


7. **Memory presets:** The memory presets store favorite AM/FM stations and allow you to access various discs when in CD DJ mode. Press and hold a preset control until PRESET SAVED appears in the display.



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).

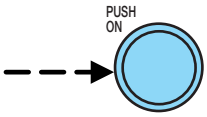


When in RSC mode, Dual Play mode can be enabled and disabled by the RSC, or by pressing Preset 2 and 4 simultaneously on the Navigation radio system. The system is in Dual Play mode if both the Headphone and Speaker icons are present, and in just RSC mode if only the Headphone icon is present.

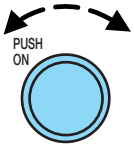
10. **AM/FM:** Press to listen to the AM or FM frequency band (AM, FM1, FM2). Pressing AM/FM in Navigation mode will return you to the audio screen.



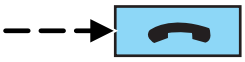
11. **On/volume:** Press the ON control to turn on the VNR system. Press again to turn the system off.



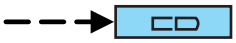
Turn the control to adjust the audio volume levels. To adjust the voice output levels from the navigation system, adjust the volume levels only during voice output.



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.



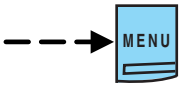
13. **CD:** Press to enter CD mode or to begin play of a CD that is already loaded in the system. Press the CD control again to toggle CD, CD DJ and DVD (if equipped).



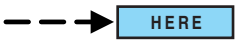
NOTE: Navigation CD's are not operational in the CD DJ.

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.



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.

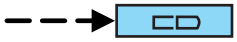


3. Press the SEEK control to locate a station.



To play a CD in the VNR:

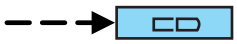
1. Ensure that the ignition and the VNR system are ON.



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.

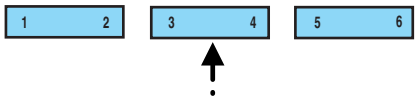
To play a CD in the CD DJ:

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.



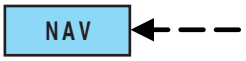
Note: Navigation CD's are not operational in the CD DJ.

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.

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.

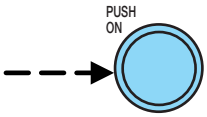
1. Station name
2. Station frequency
3. Stereo indicator
4. Preset selected
5. Band selected



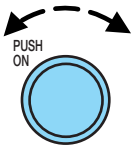
If the navigation system is activated during radio or CD playback (CD DJ), audio output continues but route guidance screens will appear in the display.

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.

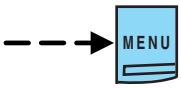


To adjust the navigation voice output level, adjust the volume control only when the navigation system is speaking. Otherwise, it will adjust the radio levels.

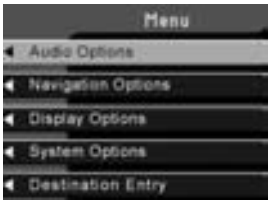
Automatic volume control (AVC)

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

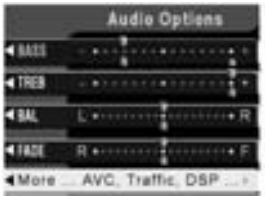
1. Press the MENU control.



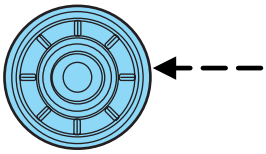
2. Select AUDIO OPTIONS.



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.



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

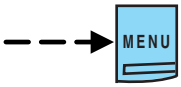
To begin CD play (if a CD is already loaded), press the CD control. The first track of the disc will begin playing. After that, CD play will begin where it stopped last. Press the CD control again to toggle between CD, CD DJ, DVD/Video (or DVD/Aux Mode), if equipped with DVD Rear seat entertainment system.



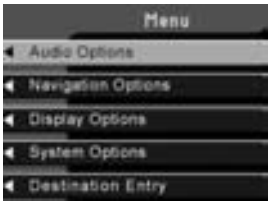
If a navigation CD is in the head unit and you press CD, the system will automatically search for an audio CD in the CD DJ and begin play if it is present.

Adjusting the levels

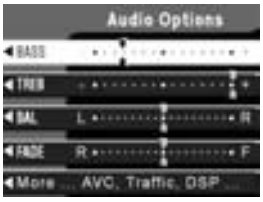
1. Press the MENU control.



2. Select the AUDIO OPTIONS soft key.



3. Select BASS, TREB, BAL or FADE.



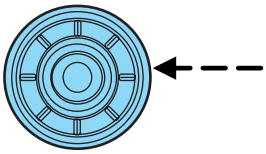
The bass adjust allows you to increase or decrease the audio system's bass output.

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.

You can then select the following signal modes:



- 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
- NEWS — ”voice-only” type of sound with a limited audio band

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.

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).

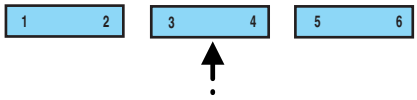
The presets will also allow you to access CDs which are loaded in the CD DJ. When in CD mode, simply press the preset number which corresponds to the desired disc.

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.

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 softkey 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.

Scan function

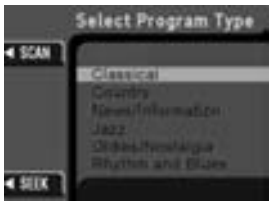
Press the soft key next to SCAN for a brief sampling of all listenable stations on the selected frequency. Press again to disable scan and remain on the current station.



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.

Compression

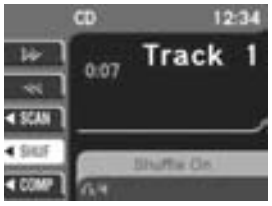
The compression feature will boost quieter music and lower louder music to minimize the need for volume adjustments.

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)

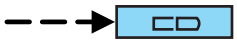
Your vehicle may be equipped with a DVD Rear Seat Entertainment system. Your Vehicle Navigation Radio (VNR) System allows you to have control over the DVD player as well.

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.

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.

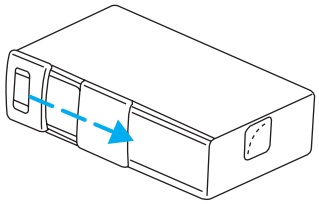
Keep the CD DJ door closed. Coins and foreign objects will damage the CD player and void your audio system warranty.

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

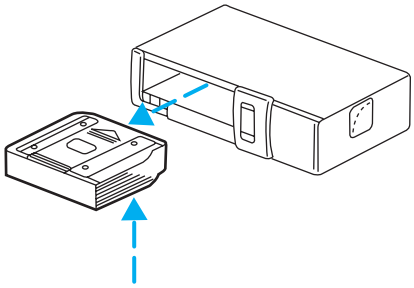
CD units are designed to play commercially pressed 12 cm (4.75 in) audio compact discs only. Due to technical incompatibility, certain recordable and re-recordable compact discs may not function correctly when used in Ford CD players. Irregular shaped CDs, CDs with a scratch protection film attached, 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. Ball point pens may damage CDs. Please contact your dealer for further information.

To access the CD DJ:

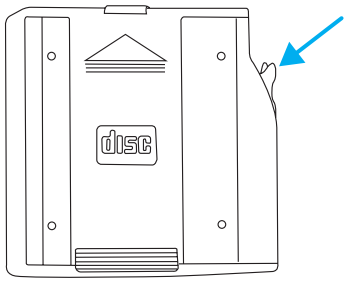
Slide the door to access the CD DJ magazine.



Press ⏏ to eject the magazine.

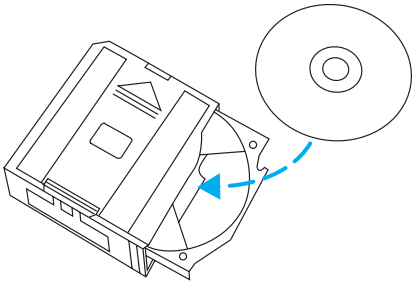


1. Pull the lever to remove a CD tray from the magazine.

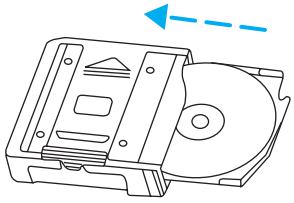


2. Insert one disc into each CD tray of the magazine (up to 6 discs). Ensure that the label side is facing up.

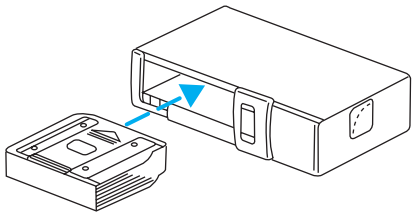
If you pull too hard on the disc holder, the disc holder may come completely out of the magazine. If this happens, reinsert the disc holder back into the magazine.



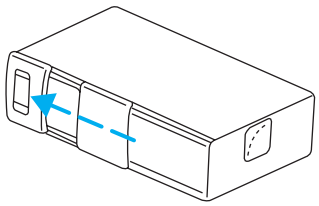
3. Insert each CD tray, with the disc loaded, all the way into the CD magazine.



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.

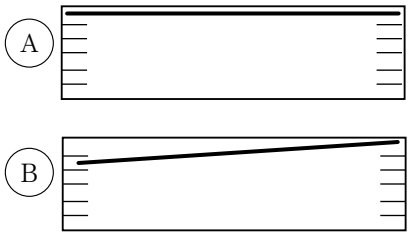


The magazine does not need to be full for the CD DJ to operate.

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).



CD DJ information screen

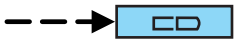
The CD DJ screen will display various information such as:



- 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.



Scan feature

When in CD DJ mode, press SCAN for a brief sampling of all tracks on the current CD. Press again to disengage the feature and listen to the selected song.



Shuffle mode

When in CD DJ mode, press SHUF to engage and disengage the shuffle feature. The tracks will be played in random order. The unit will play all the tracks on the selected disc and then move onto the other discs and play the tracks in random order.



Compression

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

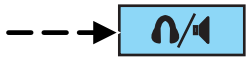
When in CD DJ mode, press COMP to engage or disengage the compression feature.



Rear seat controls (RSC)

Your vehicle is equipped with rear seat controls, which allow the rear seat passengers to operate and listen to a different playing media than the front seat passengers. To engage the rear seat controls from the VNR system:

- Press the headphone/speaker icon on the VNR system. The headphone icon illuminates in the display indicating the system has enabled Rear Seat Control mode. A subsequent press of this button will disable rear seat control (headphone/speaker icon on display will appear with a red slash through it).



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

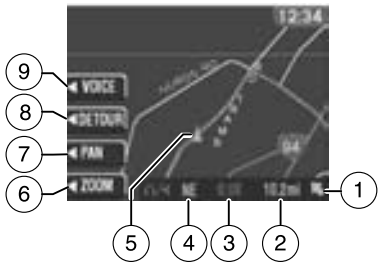
The route guidance navigation system in your audio unit will not function unless a navigation CD is inserted.

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.

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

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.



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:

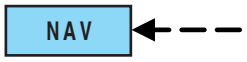
- in multi-story parking garages
- in tunnels and under bridges
- in between high buildings
- by forests or tree-lined avenues
- in heavy rain showers and thunderstorms
- in valleys and in mountainous regions

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:

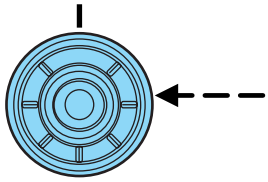
- Green — A clear GPS signal is being received.
- Yellow — The GPS signal is partially blocked.
- Red — The GPS signal is unavailable and may be temporarily blocked.

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

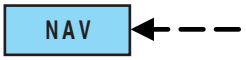
When using the navigation system, the map display screen will appear to guide you to your location. On the screen, you are able to make the following choices:



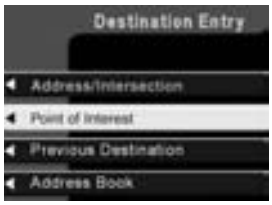
- VOICE — Press to repeat the last voice prompt.
- DETOUR — Press to select a detour from your current navigation route.
- PAN — Press to move the current view of the map.
- ZOOM — Press to adjust the area covered on the map display.

Selecting a destination

Press NAV to access the destination entry menu.



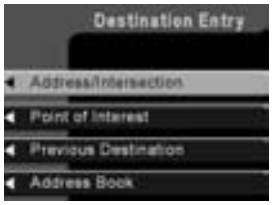
From this menu, you may select from the following options:



- **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:



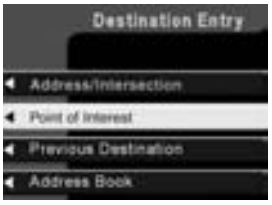
- **Town/City Name** – Select this option if you know the town or city name.
- **Street Name** – Select if you know the street address but are uncertain of the city.

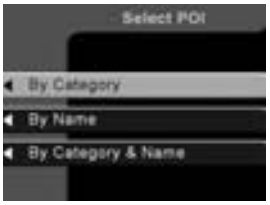
The next two options are:

- **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:





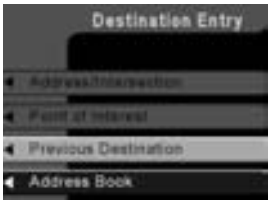
- **By Category** – Lists POIs by categories, such as airports, gas stations, etc. Use the cursor control to select and confirm choice.
- **By Name** – A keyboard display enables you to spell out the first four letters of the desired POI. A slight time delay will occur if large numbers of letter options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

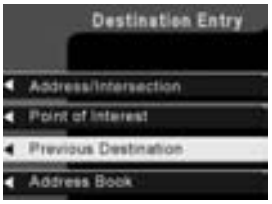


The last 50 destinations entered into the navigation system are automatically stored in the system's memory.

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.

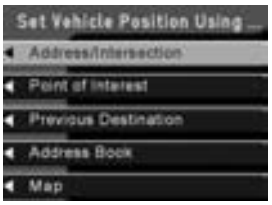
Deleting a previous destination



- 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:



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.

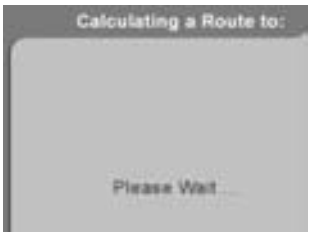
4. **Avoid freeways** — Creates a driving route which avoids major freeways where possible.

5. **Use freeways** — Creates a route which uses freeways where possible.

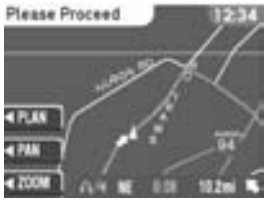
Route calculation

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
- 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

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. 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.

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.



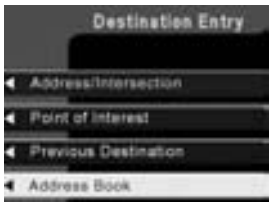
Arrival

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:



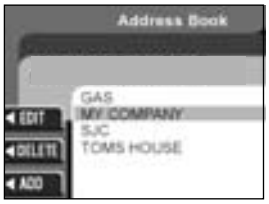
1. Once in navigation mode, select 'Address book'.
2. Confirm the selection.

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.

Adding, deleting or editing the address book

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



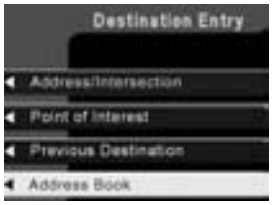
1. Ensure that you are in navigation mode.
2. Select Address book.
3. Confirm selection.
4. Press the DELETE soft key to delete the current entry.
5. Press the ADD soft key to add an additional entry.



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

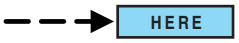


If you are at a location you would like to store in the address book, such as a new restaurant:

- 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.

Current location

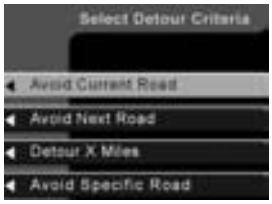
To access your current location, press HERE when in navigation mode. Your current location and the name/distance to the next/last intersection are displayed.



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.

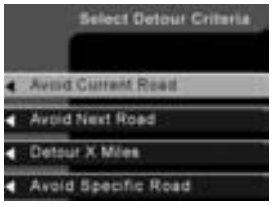


Detour options

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.

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.

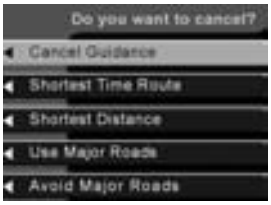


If the ignition is not turned off, simply continue along your highlighted route.

Route changes or cancellations

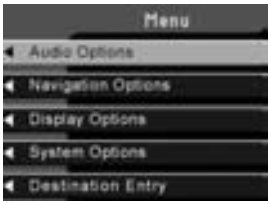
To cancel or change your current route:

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

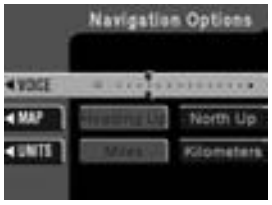


Navigation Menu

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:



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.

Display options

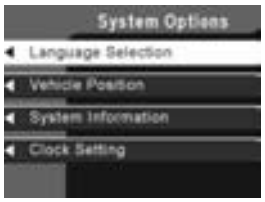


Use this feature to change the display setting. This feature can be accessed by selecting "Display Options" within the Main Menu.

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' — Select turn the display off. Press any button to turn the display back on again.

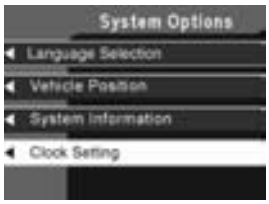
System options



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

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

1. Access the CLOCK screen.



2. Press the ADJUST 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.

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.

Ordering additional map CDs

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

Navigation Technologies

P.O. Box 543442

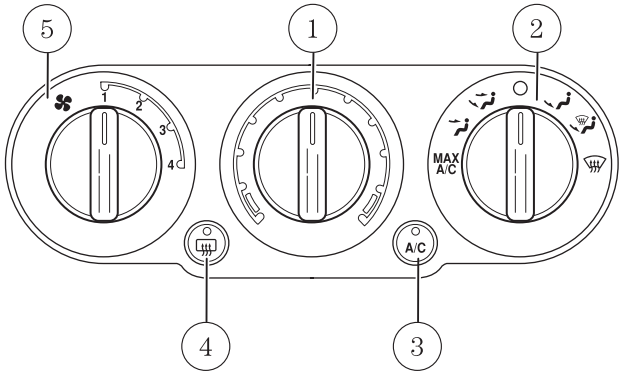
Chicago, IL 60654–0442

Website — www.navtech.com

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.

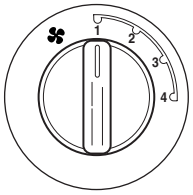
MANUAL HEATING AND AIR CONDITIONING SYSTEM (IF EQUIPPED)



1. Temperature control
2. Mode selector control
3. A/C control
4. Rear defrost control
5. Fan speed control

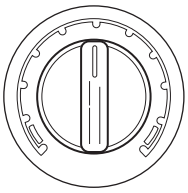
FAN SPEED CONTROL

Controls the volume of air circulated in the vehicle.



TEMPERATURE CONTROL KNOB

Controls the temperature of the airflow inside the vehicle.



MODE SELECTOR CONTROL

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

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



- MAX A/C – Distributes recirculated air through the instrument panel registers. Max A/C is noisier than A/C, but more economical and efficient. This mode will reduce undesirable odors from entering the vehicle. When placed in Max A/C, the A/C indicator will be illuminated and cannot be manually disabled.
- (Panel) – Distributes outside air through the instrument panel registers. The system will allow some airflow through the floor ducts.
- (Panel & Floor) — Distributes outside air through the instrument panel registers and the floor ducts and side window demisters. The air distributed through the floor ducts will be slightly warmer than that sent to the instrument panel registers.
- O (Off) – Outside air is shut out and the fan will not operate. This mode will reduce undesirable odors from entering the vehicle but may increase the possibility of interior window fogging.
- (Floor) – Distributes outside air through the floor ducts and side window demisters.
- (Floor & Defrost) – Distributes outside air through the floor ducts, windshield defroster ducts and the side window demisters. However, the A/C indicator will not be lit. The air distributed through the floor ducts will be slightly warmer than that sent to the windshield defroster ducts and the side window demisters.
- (Defrost) – Distributes outside air through the windshield defroster ducts and the side window demisters. However, the A/C indicator will not be lit. This mode will clear ice and fog from the windshield.

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.

A/C control

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

When manual A/C is selected (On) the indicator will be lit. When manual A/C is selected (Off) the indicator will not be lit.

In Floor & Defrost and Defrost, if the outside temperature is above approximately 2°C (35°F), the air conditioner will automatically dehumidify the air to reduce fogging. The A/C indicator will not illuminate.

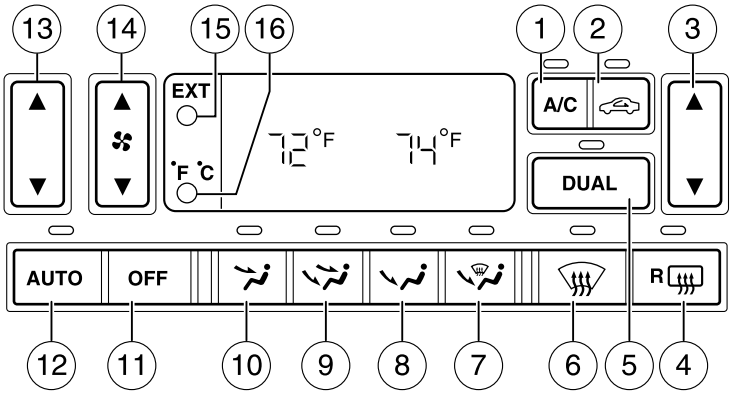
When placed in Max A/C, the A/C indicator will automatically illuminate and cannot be manually disabled.

OPERATING TIPS

- To reduce fogging in humid weather conditions, unless in Defrost or Floor & Defrost, press the A/C control before driving as the air conditioning removes moisture from the air. To reduce humidity buildup inside the vehicle under warm weather conditions, do not drive with the climate control system in the Off mode.
- To reduce humidity buildup inside the vehicle under cold weather conditions, do not drive with the climate control system in Max A/C or Off mode.
- Under normal weather conditions, do not leave your vehicle in the Max A/C or Off mode when turning off the vehicle.
- Under snowy or dirty weather conditions, leave your vehicle in the Max A/C or Off mode when turning off the ignition.
- Remove any snow, ice or leaves from the exterior base of the windshield.
- To increase the efficiency of the A/C, drive with the windows slightly open for two to three minutes after start up or until the vehicle has been “aired out”.
- Do not place objects under the front seat or over the defroster ducts. They may reduce visibility, fall into the ducts, or degrade the performance of your climate control system.

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

DUAL ELECTRONIC AUTOMATIC TEMPERATURE CONTROL (DEATC) SYSTEM (IF EQUIPPED)

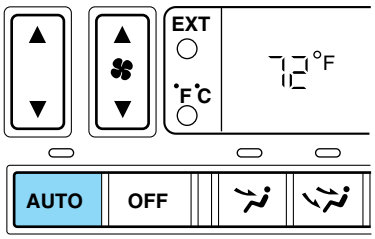


1. A/C control
2. Recirculated air control
3. Passenger temperature control
4. Rear defrost control
5. DUAL control
6. Defrost control
7. Floor & Defrost control
8. Floor control
9. Panel & Floor control
10. Panel control
11. OFF control
12. AUTO control
13. Driver temperature control
14. Fan speed control
15. Exterior temperature control
16. Temperature conversion control

The DEATC system will maintain a selected temperature setting and automatically control the fan speed and airflow location.

The dual temperature zone feature allows the driver and front passenger to set their own independent temperature set points for individual comfort. The system uses common controls for air distribution and fan speed for both driver and passenger.

AUTOMATIC OPERATION

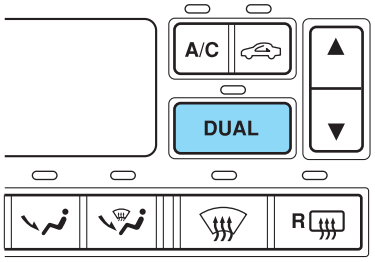


Press AUTO and select the desired temperature. The system will either heat or cool the vehicle to achieve the selected temperature. The system will automatically determine fan speed, airflow location and whether outside or recirculated air is required.

When in automatic operation and weather conditions require heat, the air will be sent to the floor ducts. However, until the engine is warmed, the fan speed will operate at a low speed and airflow will be directed to the windshield defroster ducts. Upon engine warm up, the system will automatically direct airflow to the floor ducts and operate at the required fan speed to achieve the selected temperature.

If unusual conditions exist (i.e. window fogging, etc.), the manual overrides allow you to select airflow locations and fan speed. To return to automatic operation, press AUTO.

TEMPERATURE ZONE



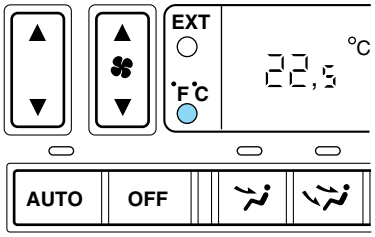
Press DUAL to enable or disable the dual zone temperature feature. When DUAL is pressed, the display window indicates the current temperature setting for the driver and the last temperature setting for the passenger. In addition to the DUAL control, the passenger may manually enable the dual zone temperature feature by pressing the passenger temperature control.

When DUAL has been enabled, the DUAL indicator will be illuminated.

TEMPERATURE SELECTION

To control the temperature for the driver and for the passenger, select the desired temperature by pressing the driver or passenger temperature controls.

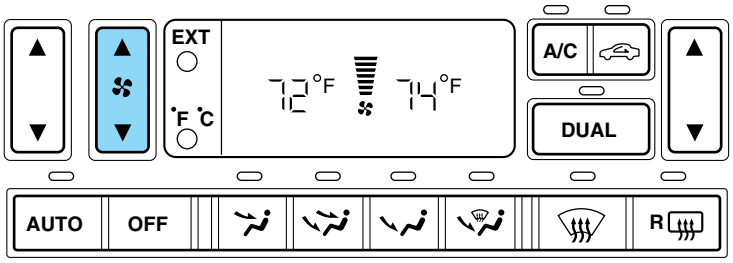
TEMPERATURE CONVERSION



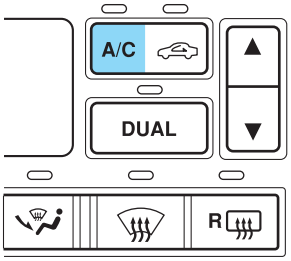
Press the F/C control to switch between Fahrenheit and Celsius temperature on the display. The temperature in Celsius will be displayed in half-degree increments.

The English/Metric control on the trip computer and message center (if equipped) will not change the temperature display.

FAN SPEED ( )



When in automatic operation, fan speed operates as necessary to achieve the selected temperature. If desired, the fan speed can be adjusted manually through the use of the fan speed control. When the fan speed is adjusted while in automatic operation, the AUTO indicator will remain lit and the system will remain in automatic operation. To return to automatic fan operation, press AUTO.

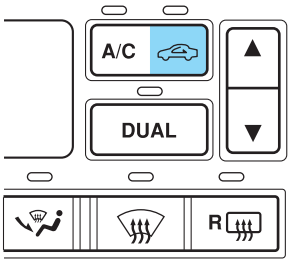


- **A/C control**

A/C (air conditioning) — Used to manually enable or disable air conditioning in all modes except Defrost. However, the A/C will only function if the outside temperature is above approximately 2°C (35°F). In Defrost, the A/C will operate automatically if the outside temperature is above approximately 2°C (35°F); however, the A/C indicator will not be lit.

In automatic operation, the air conditioning operates as necessary to achieve the selected temperature and the A/C indicator will be lit. If desired, the air conditioning can be controlled manually through the use of the A/C control. When the air conditioning is controlled while in automatic operation, the AUTO indicator will remain lit and the system will remain in automatic operation. To return to automatic air conditioning operation, press AUTO.

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



- **Recirculation control**

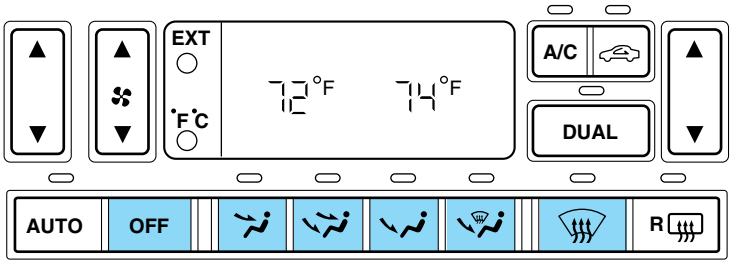
(recirculated air) — Used to manually enable or disable the operation of recirculated air in all modes except Defrost. When the air conditioning is operating, recirculated air helps to reduce the amount of time required to cool the inside of the vehicle. Recirculated air will reduce undesirable odors from entering the vehicle.

The recirculated air cannot be selected in Defrost, as interior fogging may occur. To reduce the risk of fogging while in Floor & Defrost, the recirculated air can be enabled for approximately 4 minutes and the recirculated air indicator will be lit. After approximately 4 minutes of recirculated air operation while in Floor & Defrost, the DEATC (Dual Electronic Automatic Temperature Control) will automatically disable the recirculation control and the recirculated air indicator will not be lit.

In automatic operation, the recirculated air operates automatically as necessary to achieve the selected temperature. If desired, the recirculation control can be controlled manually through the use of the recirculated air. When the recirculated air is controlled while in automatic operation, the AUTO indicator will remain lit and the system will remain in automatic operation. To return to automatic recirculated air, press AUTO.

Under cold or damp conditions, do not leave the climate control system in recirculated air for extended periods of time as this may cause interior fogging of the windows.

MANUAL OVERRIDE CONTROLS



The manual override controls allow you to determine where airflow is directed. To return to full automatic control, press AUTO.

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

- OFF-Outside air is shut out and the fan will not operate. This mode will reduce undesirable odors from entering the vehicle but may increase the possibility of interior window fogging.
- (Panel) - Distributes outside or recirculated air through the instrument panel registers. The system will allow some airflow through the floor ducts.
- (Panel & Floor) - Distributes outside or recirculated air through the instrument panel registers and the floor ducts, and side window demisters. The air distributed through the floor ducts will be slightly warmer than that sent to the instrument panel registers.
- (Floor) - Distributes outside or recirculated air through the floor ducts and side window demisters.
- (Floor & Defrost) - Distributes outside air through the floor ducts, windshield defroster ducts and the side window demisters. The air distributed through the floor ducts will be slightly warmer than that sent to the windshield defroster ducts and the side window demisters.
- (Defrost) - Distributes outside air through the windshield defroster ducts and the side window demisters. However, the A/C indicator will not be lit. This mode will clear ice and fog from the windshield. The system will allow some airflow through the floor ducts.

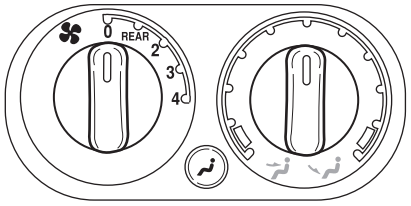
OPERATING TIPS

- To reduce fogging in humid weather conditions, unless in Defrost or Floor & Defrost, press the A/C control before driving as the air conditioning removes moisture form the air.
- To reduce humidity buildup inside the vehicle in warm weather conditions, do not drive with the climate control system in the Off mode.
- To reduce humidity buildup inside the vehicle in cold weather conditions, don't drive with the climate control system in recirculation mode or Off mode.
- Remove any snow, ice or leaves from the exterior base of the windshield.
- To increase the efficiency of the A/C, drive with the windows slightly open for 2–3 minutes after start up or until the vehicle has been "aired out."
- Do not place objects under the front seat or over the defroster ducts. They may reduce visibility, fall into the ducts, or degrade the performance of your climate control system.

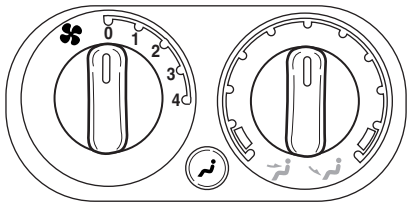
Do not place objects on top of the instrument panel, as these objects may become projectiles in a collision or sudden stop.

AUXILIARY CLIMATE CONTROLS (IF EQUIPPED)

The auxiliary climate control feature provides increased capacity 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 equipped).



The auxiliary climate control system is dependent on the main climate control system. If the main climate control system is in the Off position, the auxiliary climate control will not operate. If the main climate control system is on, the auxiliary air will not be cooled unless the air conditioning is functioning on the main climate control system.

The auxiliary unit can be controlled either by the front seat 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 control must be in the REAR position.

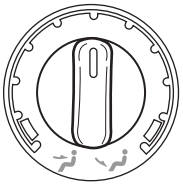
FAN SPEED CONTROL

Controls the fan speed in the rear of the vehicle.



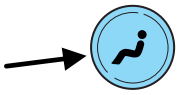
TEMPERATURE CONTROL

Controls the temperature of the airflow in the rear of the vehicle.

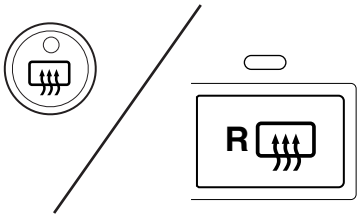


MODE SELECTOR

Press the mode selector once to select air distribution through the overhead vents. The Panel icon will illuminate on the temperature control selector. Press the mode selector again to select air distribution through the floor vents. The Floor icon will illuminate on the temperature control selector. Only the auxiliary control head (front or rear) that is active will have the icons illuminated.



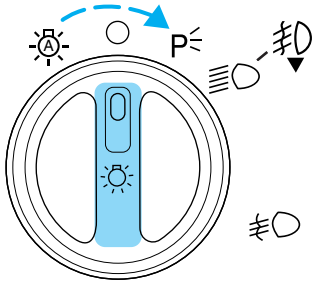
REAR WINDOW DEFROSTER



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.

HEADLAMP CONTROL

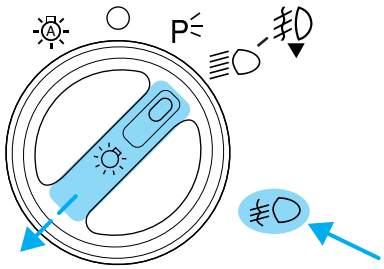
Rotate the headlamp control to the first position to turn on the parking lamps. Rotate to the second position to turn on the headlamps.



Foglamp control (if equipped)

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

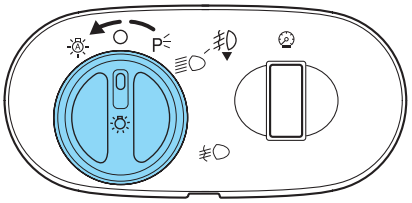
Pull headlamp control towards you to turn foglamps on. The foglamp indicator light will illuminate.



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.

Daytime running lamps (DRL) (if equipped)

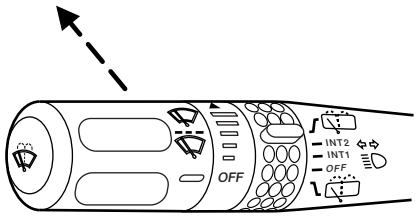
Turns the foglamps on at full intensity output. To activate:

- 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 with your tail lamps and generally may not provide adequate lighting during these conditions. Failure to activate your headlamps under these conditions may result in a collision.

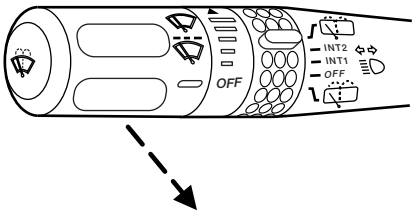
High beams

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

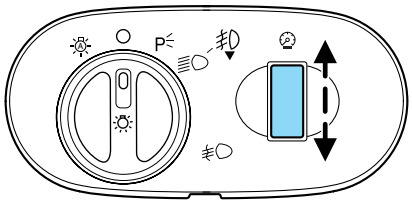


Flash to pass

Pull toward you slightly to activate and release to deactivate.



PANEL DIMMER CONTROL



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

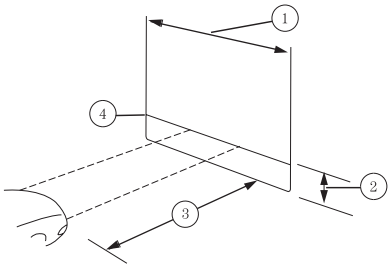
Move the control to the full upright position, past detent, to turn on the interior lamps.

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

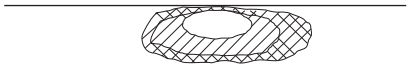
1. Park the vehicle on a level surface approximately 7.6 meters (25 feet) from a vertical wall or screen directly in front of it.

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



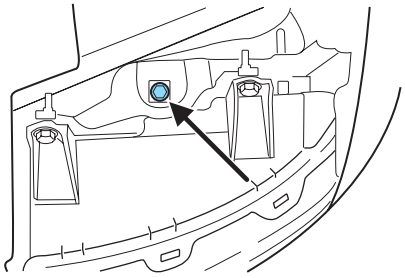
2. Measure the height from the center of your headlamp (indicated by a 3.0 mm circle on the lens) to the ground and mark a 2.4 meter (8 foot) horizontal reference line on the vertical wall or screen at this height (a piece of masking tape works well).

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.

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.



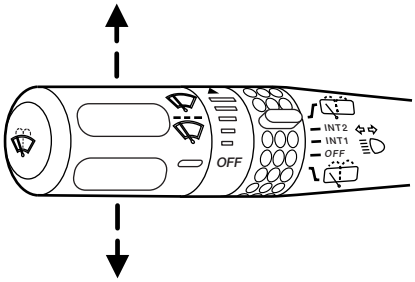
6. HORIZONTAL AIM IS NOT REQUIRED FOR THIS VEHICLE AND IS NON-ADJUSTABLE.

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

8. Close the hood and turn off the lamps.

TURN SIGNAL CONTROL ⇦ ⇨

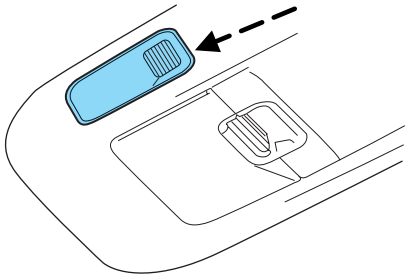
- Push down to activate the left turn signal.
- Push up to activate the right turn signal.



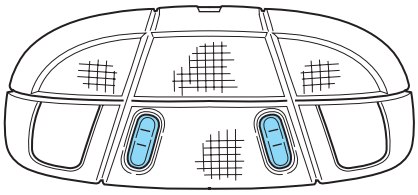
INTERIOR LAMPS

Front row map lights (if equipped)

To turn on the map lights, press the rear edge of the light.



Front row dome lamp/ map light (if equipped)

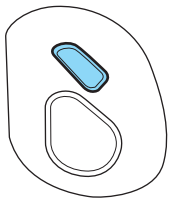


The dome lamp lights when:

- 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 lights are activated by pressing the controls on either side of the lens.

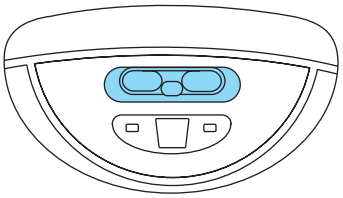
Second row map lights (if equipped)



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

- Press the controls to activate the lights.

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.

BULBS

Replacing exterior bulbs

Check the operation of all the bulbs frequently.

Using the right bulbs

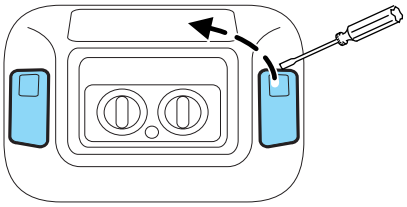
Replacement bulbs are specified in the chart below. Headlamp bulbs must be marked with an authorized “D.O.T.” for North America to ensure lamp performance, light brightness and pattern and safe visibility. The correct bulbs will not damage the lamp assembly or void the lamp assembly warranty and will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

Function	Number of bulbs	Trade number
Headlamps (low-beam)	2	9006
Headlamps (high-beam)	2	9005
Front park/turn/sidemarker lamps	2	3457 K
Foglamps	2	899
Dome/map lamps	2	579
Turn/tail/brake/sidemarker lamps	2	3157
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 dealer		
* To obtain replacement approach lamp assembly bulbs, see your dealer and reference Ford part no. 2L1Z–13B374–BB for the passenger side mirror and 2L1Z–13B375–BB for the driver side mirror.		

Replacing the interior bulbs

Check the operation of all bulbs frequently.

Map lamps

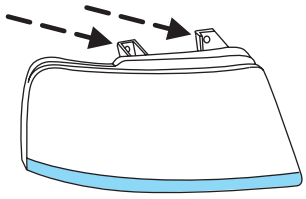


To change the map lamp bulbs:

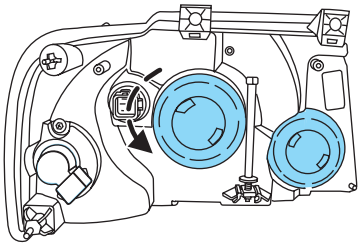
1. Use a small screwdriver to remove the map lamp lens.
2. To remove the old bulb, twist ¼ turn and pull it out.
3. Twist in a new bulb.
4. Align and press the map lamp lens back on and test the lamp operation.

Replacing headlamp bulbs

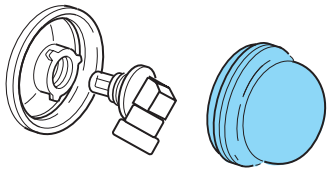
1. Make sure that the headlamp control is in the OFF position.
2. Open the hood.



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.
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.

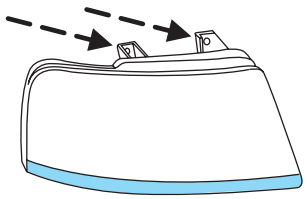
Replacing front parking lamp/turn/sidemarker signal bulbs

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.

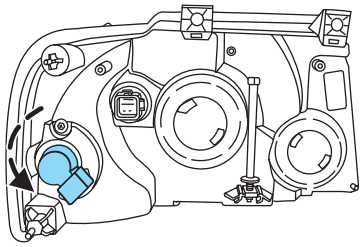


5. Rotate the bulb socket counterclockwise and remove from the lamp assembly.

6. Carefully pull the bulb out of the socket and push in the new bulb.

7. Install the bulb socket into the lamp assembly and rotate clockwise.

8. Replace the lamp assembly and install all three retainer bolts on the lamp assembly.

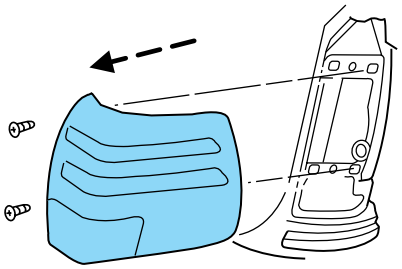


Replacing tail/stop/turn/sidemarker/backup lamp bulbs

The tail/stop/turn/sidemarker/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.

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

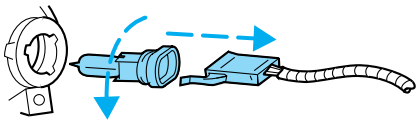
5. Pull bulb straight out of socket and snap in the new bulb.

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.

Replacing foglamp bulbs

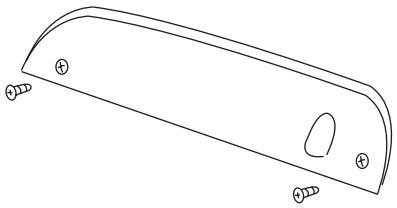
Handle a halogen headlamp bulb carefully and keep out of children's reach. Grasp the bulb only by its plastic base and do not touch the glass. The oil from your hand could cause the bulb to break the next time the headlamps are operated.



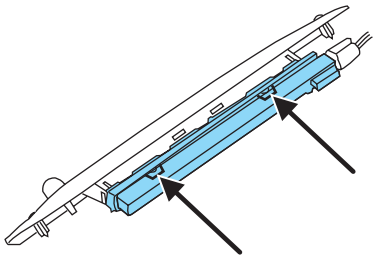
1. Remove the bulb socket from the foglamp by turning counterclockwise.
2. Disconnect the electrical connector from the foglamp bulb.
3. Connect the new foglamp bulb to the electrical connector.
4. Install the bulb socket in the foglamp turning clockwise.

High-mount brakelamp

To change the high-mount brakelamp bulbs:



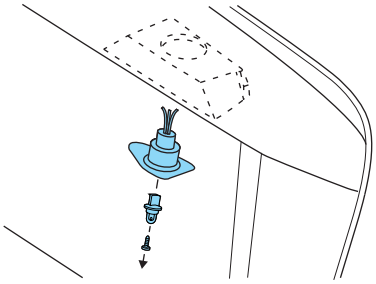
1. Remove the two screws holding the lamp assembly in place.



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 license plate lamp bulb

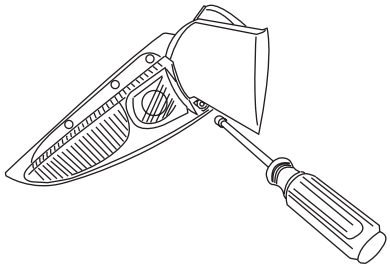
The license plate bulbs are located in the license plate housing assembly on the liftgate. To change the license plate bulbs:



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.

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

To change the bulbs:

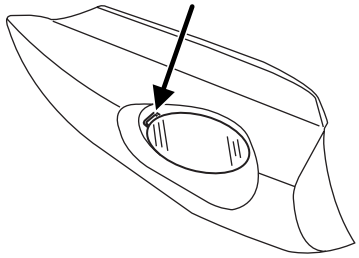


1. Make sure the headlamp switch is in the OFF position and then fold the mirror forward.
2. Remove the torx screw on the bottom of the turn signal lens using a T-10 torx driver.
3. Pull the turn signal lens down to remove it from the mirror assembly
4. Disconnect the bulb assembly from the lens.
5.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



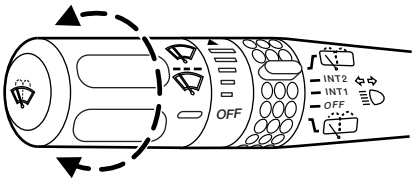
2. With a small flat tipped screwdriver, insert the tip into the approach light module slot located on the outboard corner of the lens to release the clip.

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.

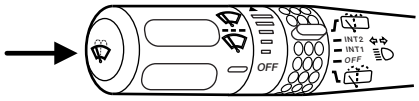
5. Reverse the order to reassemble the approach light module.

WINDSHIELD WIPER/WASHER CONTROLS



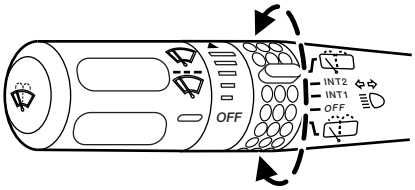
Rotate the windshield wiper control to the desired interval, low or high speed position.

The bars of varying length are for intermittent wipers. When in this position rotate the control upward for fast intervals and downward for slow intervals.



Push (tap) the end of the stalk briefly for a single swipe (no wash). Push and hold for three swipes with wash. Push and hold for a longer wash (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.

Speed dependent wipers

When the windshield wiper control is set on the intermittent settings, speed-sensitive front wipers automatically adjust as the vehicle's speed changes.

Windshield wiper blades

Check the wiper blades for wear at least twice a year or when they seem less effective. Substances such as tree sap and some hot wax treatments used by commercial car washes reduce the effectiveness of wiper blades.

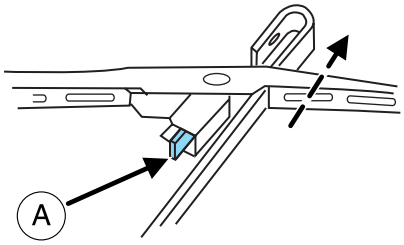
Checking the wiper blades

If the wiper blades do not wipe properly, clean both the windshield and wiper blades using undiluted windshield wiper solution or a mild detergent. Rinse thoroughly with clean water. To avoid damaging the blades, do not use fuel, kerosene, paint thinner or other solvents.

Changing the wiper blades

It is recommended that wiper blades are renewed before winter.

To replace the wiper blades:

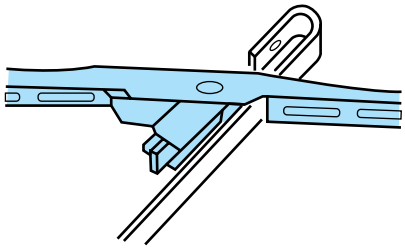


1. Fold back the wiper arm and position the wiper blade at right angles to the wiper arm.
2. To remove, press the retaining clip (A) to disengage the wiper blade, then pull the blade down toward the windshield to remove it from the arm.
3. Install the new wiper blade on the arm and press it into place until a click is heard.

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.

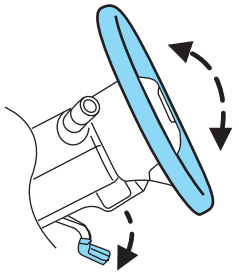
To replace the wiper blade:



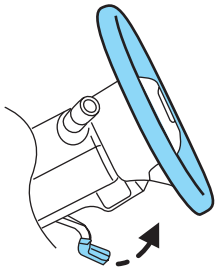
1. Lift and hold the wiper blade off the glass.
2. Press the release tab to unlock wiper blade from wiper arm.
3. Pull the wiper blade toward the base of the wiper arm and remove it from the arm.
4. Attach the new wiper to the wiper arm and press it into place until a click is heard.

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.



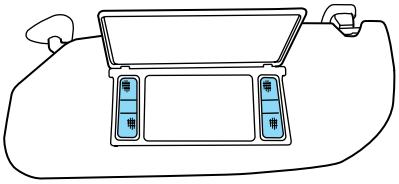
While holding the steering wheel, pull the lever up to its original position to lock the steering column.



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 lamps.

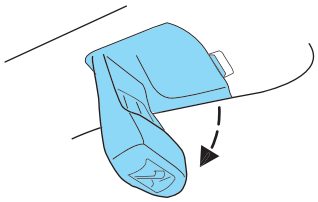


OVERHEAD CONSOLE

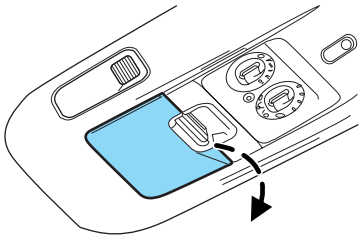
The appearance of your vehicle's overhead console will vary according to your option package.

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.

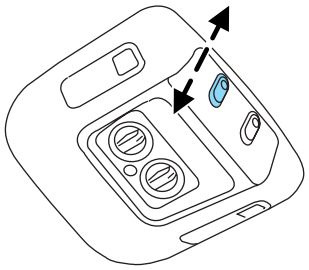


This does not replace the rear view mirror.

One-touch moon roof (if equipped)

To open the moon roof:

- Press and release the bottom portion of the moon roof control to open.
- Press and hold (as desired) the top portion of the moon roof control to close.
- To halt motion at any point during one-touch opening, press the control a second time.



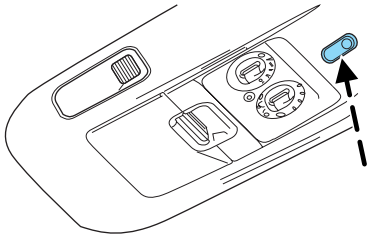
To vent:

- To tilt the moon roof into the vent position (when the glass panel is closed), press and hold the top portion of the control. To close the moon roof from the vent position, press and hold the bottom portion of the control until the glass panel stops moving.
- The moon roof has a sliding shade that can be manually opened or closed when the glass panel is in tilt/vent and shut positions.
- To close the shade, pull it toward the front of the vehicle.

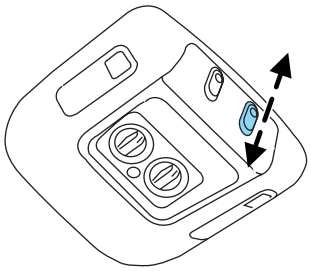
Do not let children play with the moon roof. They may seriously hurt themselves.

Power quarter rear windows (if equipped)

- Without a moon roof



- With a moon roof



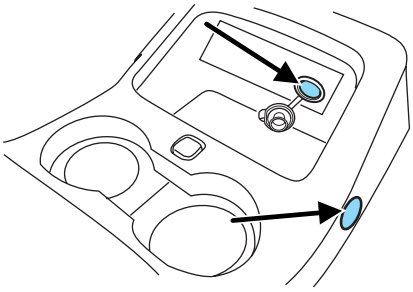
Press the ▲ portion of the VENT control to open the power rear quarter windows.

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

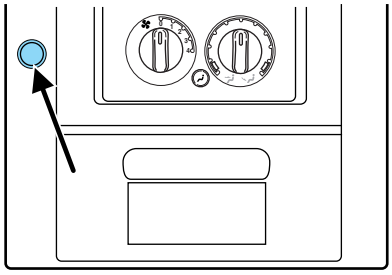
AUXILIARY POWER POINT 12V

Power points are designed for accessory plugs only. Do not hang any type of accessory or accessory bracket from the plug. Improper use of the power point can cause damage not covered by your warranty.

On vehicles equipped with a center console there are three power points located in the console. On vehicles without a center console there is one power point located in the instrument panel.

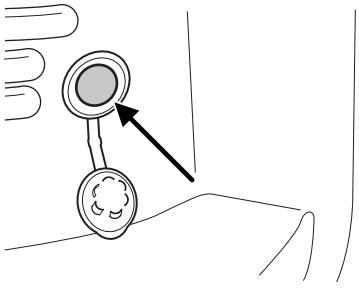


The third auxiliary power point on the center console is accessible from the rear seats.

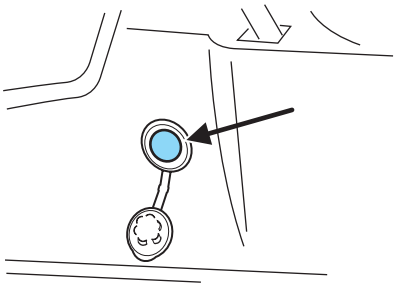


The rear auxiliary power point is located on the right rear quarter panel. The power point is accessible from the liftgate or the third row seat.

Equipped with rear climate control



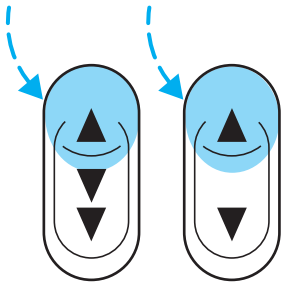
Not equipped with rear climate control



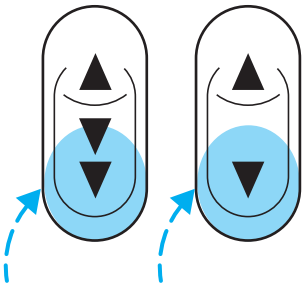
POWER WINDOWS

Press and hold the rocker switches to open and close windows.

- Press the top portion of the rocker switch to close.



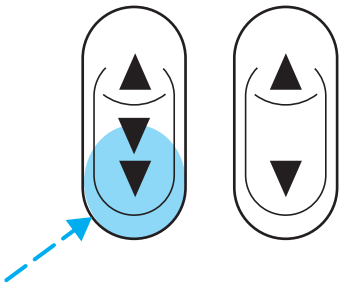
- Press the bottom portion of the rocker switch to open.



One touch down

- Press the bottom portion of the rocker switch completely down and release quickly. The driver's window will open fully. Depress again to stop window operation.

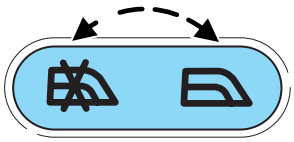
One touch down can be deactivated during operation by pushing down on the top part of the driver power window control.



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

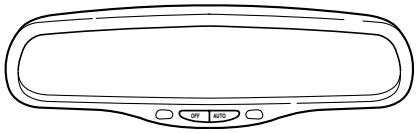
With accessory delay, the window switches and audio system may be used for up to ten minutes after the ignition switch is turned to the OFF position or until any door is opened.

MIRRORS

Automatic dimming rear view mirrors (if equipped)

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

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



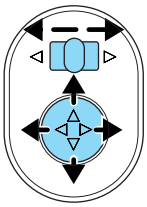
Press the control to turn the mirror OFF or AUTO.

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

Power side view mirrors

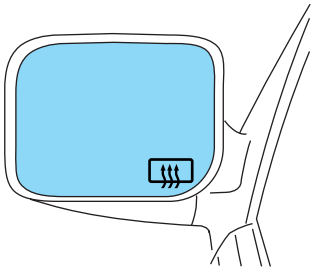
The ignition can be in any position to adjust the power side view mirrors.

To adjust your mirrors:



1. Select ◀ to adjust the left mirror or ▶ to adjust the right mirror.
2. Move the control in the direction you wish to tilt the mirror.
3. Return to the center position to disable adjust function.

Heated outside mirrors

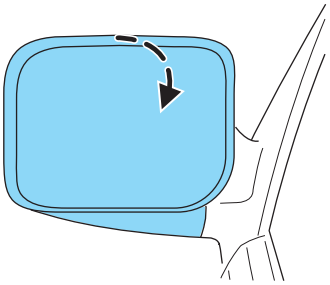


Both mirrors are heated automatically to remove ice, mist and fog when the rear window defrost is activated.

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.

Reverse tilt down mirrors (if equipped)

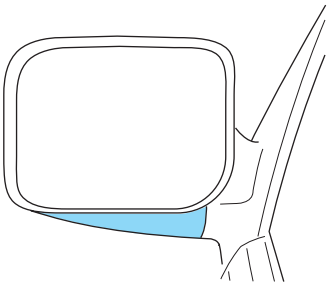
The side mirrors may be programmed to tilt down when the vehicle is put in R (Reverse). Refer to the *Message Center* in the *Driver Controls* chapter to turn this feature ON or OFF.



Signal mirrors (if equipped)

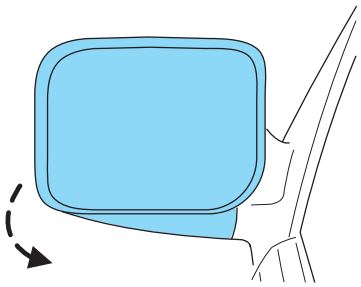
When the turn signal is activated, the lower portion of the mirror housing will blink.

This provides an additional warning to other drivers that your vehicle is about to turn.

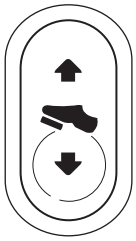


Fold-away mirrors

Pull the side mirrors in carefully when driving through a narrow space, like an automatic car wash.



POWER ADJUSTABLE FOOT PEDALS



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.

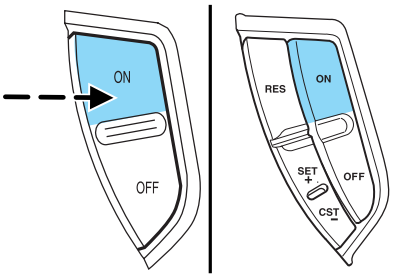
- Press the bottom of the control to adjust the pedals toward you.
- Press the top of the control to adjust the pedals away from you.

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

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

SPEED CONTROL

To turn speed control on



- Press ON.

Vehicle speed cannot be controlled until the vehicle is traveling at or above 48 km/h (30 mph).

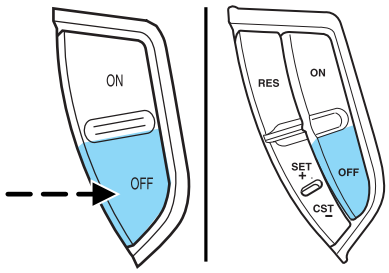
Do not shift the gearshift lever into N (Neutral) with the speed control on.

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

To turn speed control off

- Press OFF or
- Turn off the vehicle ignition.

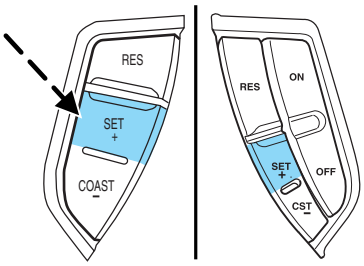
Once speed control is switched off, the previously programmed set speed will be erased.



To set a speed

- Press SET+. For speed control to operate, the speed control must be ON and the vehicle speed must be greater than 48 km/h (30 mph).

If you drive up or down a steep hill, your vehicle speed may vary momentarily slower or faster than the set speed. This is normal.



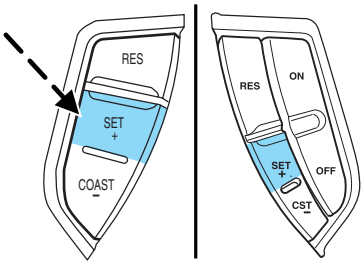
Speed control cannot reduce the vehicle speed if it increases above the set speed going downhill. If your vehicle speed is faster than the set speed while driving downhill, you may want to shift to the next lower gear or apply the brakes to reduce your vehicle speed.

If your vehicle slows down more than 16 km/h (10 mph) below your set speed on an uphill, your speed control will disengage. This is normal. Pressing RES will re-engage it.

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

To set a higher set speed

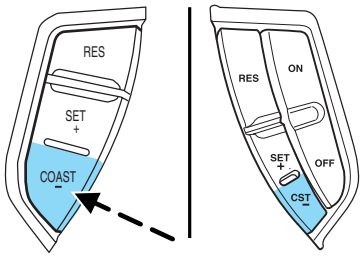
- Press and hold SET +. Release the control when the desired vehicle speed is reached or
- Press and release SET + to operate the Tap-Up function. Each press will increase the set speed by 1.6 km/h (1 mph) or
- Accelerate with your accelerator pedal. When the desired vehicle speed is reached, press and release SET +.



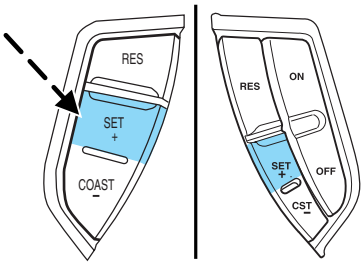
You can accelerate with the accelerator pedal at any time during speed control usage. Releasing the accelerator pedal will return your vehicle to the previously programmed set speed.

To set a lower set speed

- Press and hold COAST/CST –. Release the control when the desired speed is reached or
- Press and release COAST/CST – to operate the Tap-Down function. Each press will decrease the set speed by 1.6 km/h (1 mph) or



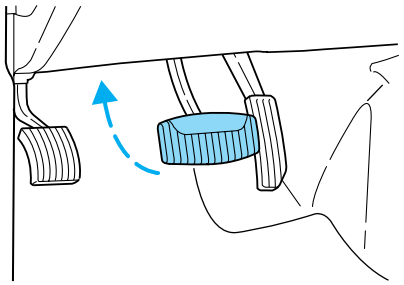
- Depress the brake pedal. When the desired vehicle speed is reached, press SET +.



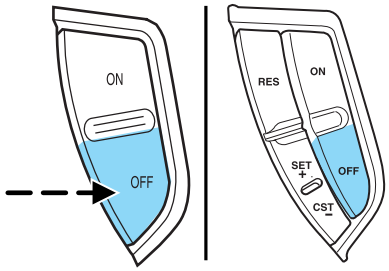
To disengage speed control

- Depress the brake pedal.

Disengaging the speed control will not erase the previously programmed set speed.

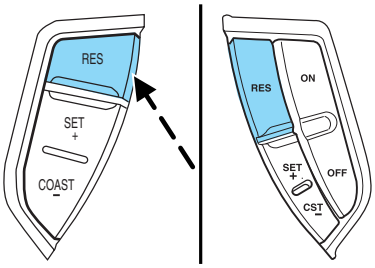


Pressing OFF will erase the previously programmed set speed.

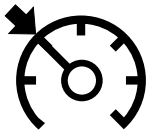


To return to a previously set speed

- Press RES. For RES to operate, the vehicle speed must be faster than 48 km/h (30 mph).



Indicator light



This light comes on when either the SET ACCEL or RES controls are pressed. The vehicle speed must be at or above 48 km/h (30 mph). It turns off when the speed control OFF control is pressed, the brake or clutch is applied, or the ignition is turned to the OFF position.

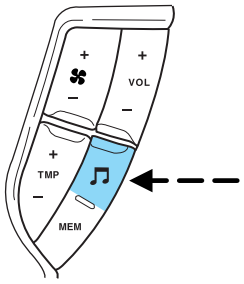
STEERING WHEEL CONTROLS (IF EQUIPPED)

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).

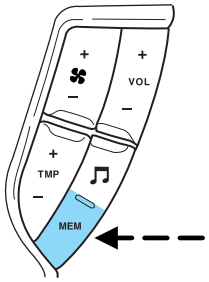


In AM, FM1, or FM2 mode:

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

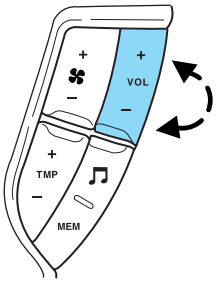
In CD mode:

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



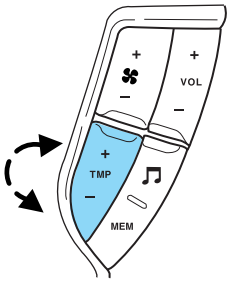
In any mode:

- Press VOL + or – to adjust volume.

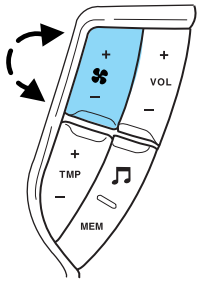


Climate control features

Press TMP + or - to adjust temperature.



Press + or - to adjust fan speed.



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 current 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.

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.**

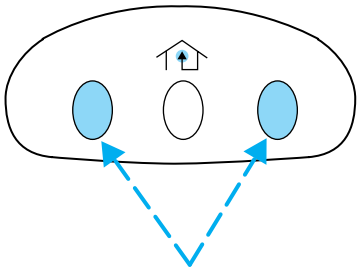
Retain the original transmitter for use in other vehicles as well as for future programming procedures (i.e. new HomeLink® equipped vehicle purchase). It is also suggested that upon the sale of the vehicle, the programmed Homelink® buttons be erased for security purposes, refer to *Programming* in this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

Programming

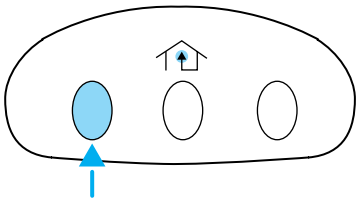
Do not program HomeLink® with the vehicle parked in the garage.

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 red light begins to flash after 20 seconds. **Do not** repeat step one 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 2–8 cm (1–3 inches) away from the HomeLink® button you wish to program (located on your visor) while keeping the red light in view.



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

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

4. The red light will flash slowly and then rapidly. Release both buttons when the red 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 red light. If the light is a constant red, 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 red 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).

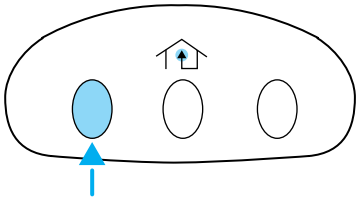
7. Press and release the "learn" or "smart" button. (The name and color of the button may vary by manufacturer.)

Note: There are 30 seconds in which to initiate step eight.

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.**

Gate Operator & Canadian Programming



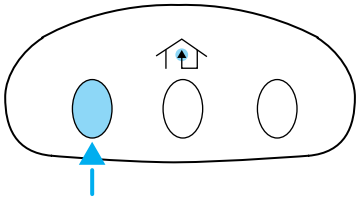
During programming, your hand-held transmitter may automatically stop transmitting — not allowing enough time for HomeLink® to accept the signal from the hand-held transmitter.

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.

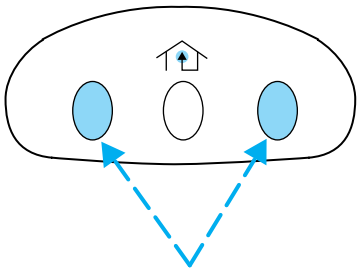
- Continue to press and hold the HomeLink® button (note step 3 in the "Programming" section) while you press and release — **every two seconds** ("cycle") your hand-held transmitter until the frequency signal has been accepted by the HomeLink®. The red indicator light will flash slowly and then rapidly 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.**

Erasing HomeLink® buttons



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

- Press and hold the two outer HomeLink® buttons until the red indicator light begins to flash-after 20 seconds. Release both buttons. Do not hold for longer that 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 red 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 (IF EQUIPPED)

Outside air temperature



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

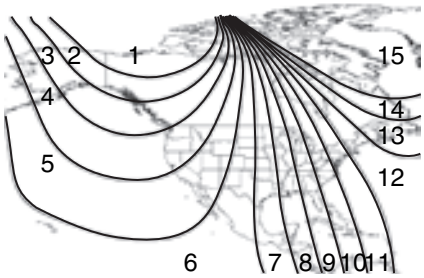
The compass reading may be affected when you drive near large buildings, bridges, power lines and powerful broadcast antennas. Magnetic or metallic objects placed in, on or near the vehicle may also affect compass accuracy.

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.*

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.*

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. Press the TRIP/RESET button (near your odometer display), hold for six seconds and release. You will see that ZONE appears in the instrument cluster display.



5. 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.

6. When you get to the desired ZONE number, hold the TRIP/RESET button down to “lock in” the new value.

The cluster display will return to the “normal” mode when the TRIP/RESET button has not been pressed for 6 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.

1. Start the vehicle.



2. To enter the compass calibration mode, press and hold the TRIP/RESET button for greater than eight seconds. The display will then show CAL in the display window.

3. Drive the vehicle slowly (less than 5 km/h [3 mph]) in circles until CAL indicator turns off. As many as 5 complete circles may be required.

4. The compass is now calibrated.

MESSAGE CENTER (IF EQUIPPED)

MESSAGE CENTER

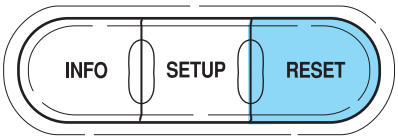


With the ignition in the ON position, the message center, located on your instrument cluster, displays important vehicle information **through a constant monitor of vehicle systems.** You may select display features on the message center for a display of status preceded by a brief indicator chime. The system will also notify you of potential vehicle problems with a display of system warnings followed by a long indicator chime.

Selectable features

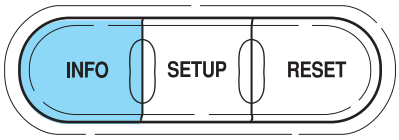
Reset

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



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

Odometer/Trip odometer

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

Compass display

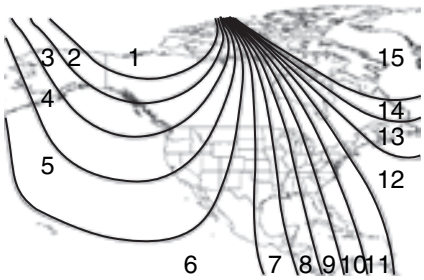
The compass reading may be affected when you drive near large buildings, bridges, power lines and powerful broadcast antenna. Magnetic or metallic objects placed in, on or near the vehicle may also affect compass accuracy.

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.*

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 SETUP and RESET controls until the message center display changes to show the current zone setting (XX).



6. Press 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 01 to 15 and “wraps” back to 01.

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



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.

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



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

10. The compass is now calibrated.



Average fuel economy (AFE)

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



If you calculate your average fuel economy by dividing liters of fuel used by 100 kilometers traveled (miles traveled by gallons 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 liter (gallon)

1. Drive the vehicle at least 8 km (5 miles) 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 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.

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.



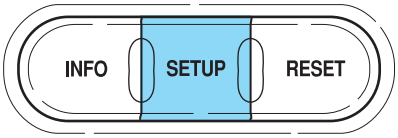
The DTE function will display LOW FUEL LEVEL and sound a tone for one second when you have approximately 80 km (50 miles) to empty. If you RESET this warning message, this display and tone will return within 10 minutes.

DTE is calculated using a running average fuel economy, which is based on your recent driving history of 800 km (500miles). 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.

Setup menu

Press this control for the following displays:

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



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 autolocks 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.

Reverse mirrors (if equipped)

This feature automatically tilts the side view mirrors down when the vehicle is put in R (Reverse).

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

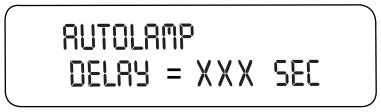


2. Press the RESET control to turn the reverse mirrors ON or OFF.

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 turn select a new Autolamp delay value.

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, select this function from the SETUP control for the current display mode.



2. Press the RESET control to turn the backup aid OFF.

Language

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



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

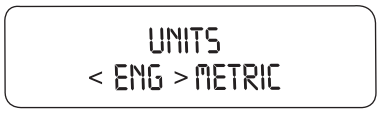


3. Press and hold the RESET control to set the language choice.



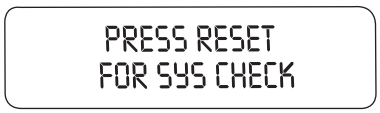
Units (English/Metric)

1. Select this function from the SETUP menu for the current units to be displayed.
2. Press the RESET control to change from English to Metric.



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.



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. FUEL LEVEL
2. WASHER FLUID LEVEL
3. ADVANCETRAC™ (if equipped)
4. ENGINE TEMP
5. OIL PRESSURE
6. TIRE PRESSURE SYSTEM (if equipped)
7. BRAKE FLUID LEVEL
8. CHARGING SYSTEM

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 will reappear on the display every minute from the time of reset.
- 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.

Warning display	Status
Check backup aid (if equipped)	Warning displays when R (reverse) gear is selected.
PRNDL error no backup aid (if equipped)	
Door ajar	Warning returns after 10 minutes
Liftgate or liftglass ajar	
Warning-tire very low (if equipped)	
Low fuel level	
Check charging system	
Low brake fluid level	
Low oil pressure	
Check engine temperature	
Reduced engine power	
Stop engine safely	
Tire pressure system fault (if equipped)	Warning returns after the ignition key is turned from OFF to ON.
Check tire pressure (if equipped)	
Check spare tire pressure (if equipped)	
Tire pressure sensor fault (if equipped)	
Low washer fluid level	
Check AdvTrac (if equipped)	
Check air suspension (if equipped)	
Air suspension switched OFF (if equipped)	
Check fuel cap	

CHECK BACKUP AID (if equipped). Displayed when the transmission is in R (Reverse).

PRNDL ERROR NO BACKUP AID (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.

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

LIFTGATE OR LIFTGLASS AJAR. Displayed when the liftgate 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 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 dealer as soon as safely 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 dealer as soon as safely possible.

WARNING-TIRE VERY LOW (if equipped). Displayed when one or more tires have very low pressure. When this warning message is displayed, a warning chime will sound reminding you to stop the vehicle as soon as safely possible and check your tires for proper pressure, leaks and damage. Refer to *Servicing your tires* in the *Maintenance and specifications* chapter.

TIRE PRESSURE SYSTEM FAULT (if equipped). Displayed when a tire pressure monitoring system is malfunctioning. If the warning stays on or continues to come on, have the system checked by your dealer.

CHECK TIRE PRESSURE (if equipped). Displayed when any of the tire pressures are high or low. Refer to *Checking the tire pressure* in the *Maintenance and specifications* chapter.

CHECK SPARE TIRE PRESSURE (if equipped). Displayed when the spare tire pressure is high or low. Refer to *Checking the tire pressure* in the *Maintenance and specifications* chapter.

TIRE PRESSURE SENSOR FAULT (if equipped). Displayed when a tire pressure sensor is malfunctioning. If the warning stays on or continues to come on, have the system checked by your 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.

LOW BRAKE FLUID LEVEL. Indicates the brake fluid level is low and the brake system should be inspected immediately. Refer to *Checking and adding brake fluid* 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 dealership 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™ system is not operating properly. If this message is displayed on the message center the AdvanceTrac™ system may be partially operable. If this warning stays on while the engine is running, contact your dealer for service as soon as possible. For further information, refer to *AdvanceTrac™ stability enhancement system* in the *Driving* chapter.

CHECK AIR 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 SWITCHED 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.

TIRE PRESSURE SYSTEM OFF (if equipped). Displayed when the tire pressure monitoring system is turned off. Only your dealer can turn the system on or off. It is recommended that the tire pressure monitoring system is always turned ON.

DATA ERR. These messages indicate improper operation of the vehicle network communication between electronic modules.

- Fuel computer
- Charging system
- Door sensor
- Washer fluid
- Brake fluid
- Compass
- Outside temperature
- Engine sensor

Contact your dealer as soon as possible if these messages occur on a regular basis.

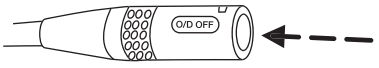
OVERDRIVE CONTROL

Activating overdrive

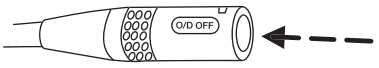
(Overdrive) is the normal drive position for the best fuel economy. The overdrive function allows automatic upshifts and downshifts through all available gears.

Deactivating overdrive

Press the transmission control switch (TCS) located on the end of the gearshift lever. The O/D OFF indicator light will illuminate on the instrument cluster. The transmission will operate in all gears except overdrive.



To return to normal overdrive mode, press the transmission control switch again. The O/D OFF will no longer be illuminated.



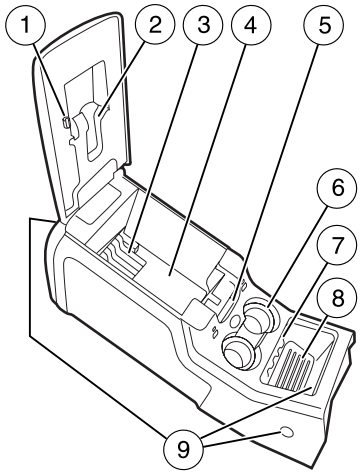
When you shut off and re-start your vehicle, the transmission will automatically return to normal (Overdrive) mode.

For additional information about the gearshift lever and the transmission control switch operation refer to the *Automatic Transmission Operation* section of the *Driving* chapter.

CENTER CONSOLE (IF EQUIPPED)

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

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



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

Cell phone use

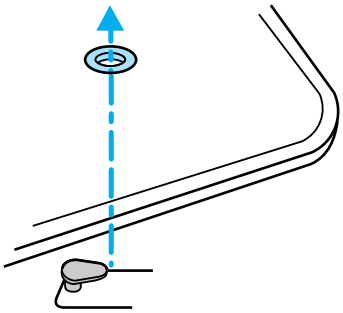
The use of Mobile Communications Equipment has become increasingly important in the conduct of business and personal affairs. However, drivers must not compromise their own or others' safety when using such equipment. Mobile Communications can enhance personal safety and security when appropriately used, 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.

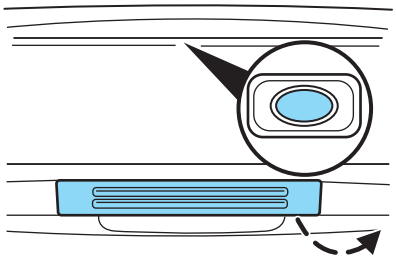
A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communications Equipment.

POSITIVE RETENTION FLOOR MAT (IF EQUIPPED)

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.

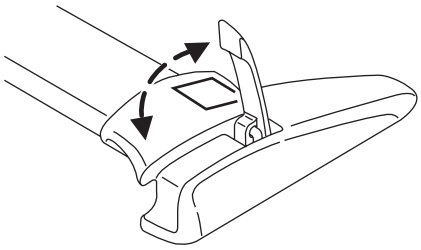
Do not pull the liftgate handle from the bottom. Doing so may cause wrist or arm injury.

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

The rear cross-bar can be adjusted to fit the item being carried. The front cross-bar does not move.

To adjust the luggage rack, push the adjustment lever forward (toward the front of the vehicle), then slide the cross-bar forward and lock the adjusting levers by pushing them down (toward the back of the vehicle). Pull the cross-bar rearward to ensure that it is locked in place.



Load luggage at the front cross-bar and adjust the rear cross-bar as necessary.

- Do not exceed 90.7 kg (200 lb) of luggage if the weight is placed directly on the cross-bars.
- Do not exceed 68 kg (150 lb) if the weight is resting directly on the roof.

Use the integrated tie down loops to secure the load.

KEYS

The key operates all locks on your vehicle. In case of loss, replacement keys are available from your dealer.

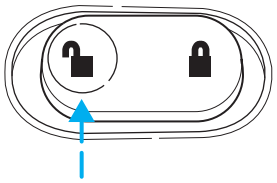
You should always carry a second key with you in a safe place in case you require it in an emergency.

Refer to *SecuriLock™ Passive Anti-Theft System* for more information.

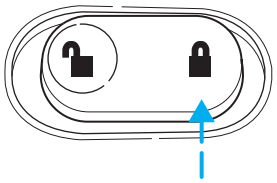
POWER DOOR LOCKS

If the door does not unlock when the control is pressed, see *Power door lock disable feature* in the *Remote entry section* in this chapter.

Press control to unlock all doors.

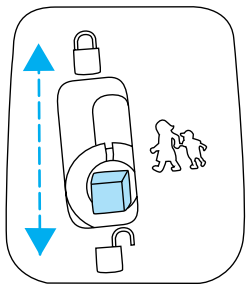


Press control to lock all doors.



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 RS-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.

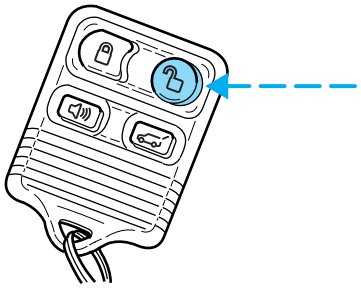
The liftgate glass feature operates as long as the ignition is in the ON (3) position and the vehicle is in (P) PARK. The panic feature operates with the key in the OFF (1) and ACC (2) position.

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

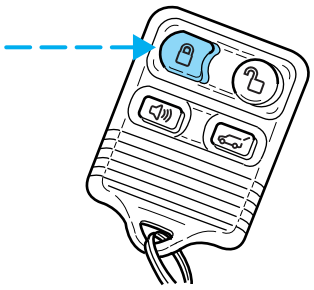
Unlocking the doors/liftgate

Press this control to unlock the driver's door. The interior lamps will illuminate with the ignition OFF.

Press the control a second time within three seconds to unlock all doors and liftgate.



Locking the doors/liftgate

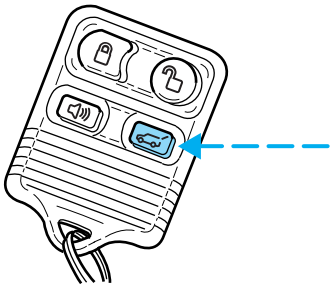


Press this control to lock all doors and liftgate. The park/turn signal lamps will flash once.

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.

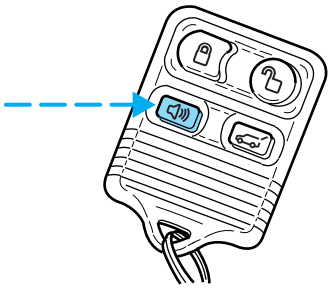
If any of the doors or liftgate are ajar, the horn will make two quick chirps, reminding you to properly close all doors.

Opening the liftgate window



Press the control to unlatch the liftgate window.

Sounding a panic alarm



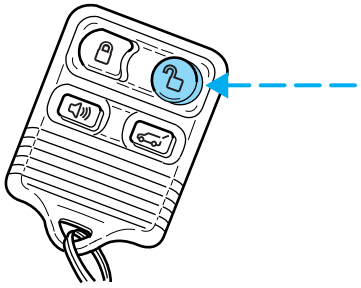
Press this control to activate the alarm.

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 ON.

Memory feature (if equipped)

The remote entry system can also control the memory feature.

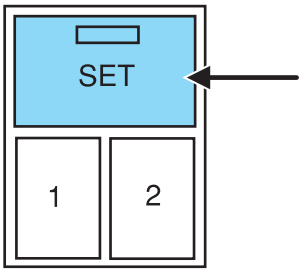


Press the control once to unlock the driver's door. Pressing the control will automatically move the seat, rearview mirrors, and adjustable pedals to the desired memory position (the memory position corresponds to the transmitter being used).

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.

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.

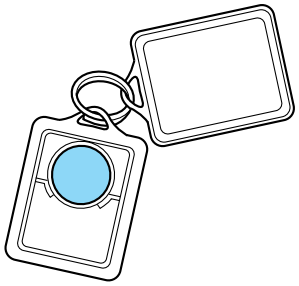
3. Repeat this procedure for another remote transmitter if desired.

Replacing the battery

The remote transmitter is powered by one coin type three-volt lithium battery CR2032 or equivalent. Typical operating range will allow you to be up to 10 meters (33 feet) away from your vehicle. A decrease in operating range can be caused by the following factors:

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

To replace the battery:



1. Twist a thin coin between the two halves of the transmitter near the key ring. DO NOT TAKE THE FRONT PART OF THE TRANSMITTER APART.

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

3. Place the positive (+) side of new battery in the same orientation. Refer to the diagram inside the transmitter unit. Press the battery down to ensure that it is fully seated in the battery housing cavity.

4. Snap the two halves back together.

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

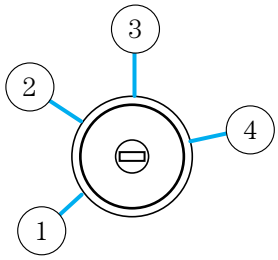
If a remote transmitter has been lost and you would like to remove it from the vehicle's memory, or you would like to purchase additional remote transmitters and have them programmed to your vehicle:

- 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 four — original and/or new) of your remote transmitters available prior to beginning this procedure.

To program the transmitters yourself:



- Unlock all doors using the power door lock/unlock control. Insert a key in the ignition and turn from 1 (LOCK) to 3 (ON) and cycle between 1 (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 between unlocked and locked 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 1 (LOCK) or wait 20 seconds. Again the doors will lock/unlock to confirm programming has been completed.

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 ON or ACC position. The dome lamp control must **not** be set to the OFF position for the illuminated entry system to operate.

The inside lights will not turn off if:

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

The battery saver will shut off the interior lamps 30 minutes after the ignition has been turned to the OFF position.

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 RUN position.
- The transmission is in either a forward or reverse gear.
- The vehicle has a speed of 8 km/h (5 mph) 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 8 km/h (5 mph) 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.

Power door lock disable feature

This feature will help protect your vehicle from unauthorized entry.

The UNLOCK function on the power door control will not operate with the ignition OFF and twenty seconds after the doors are closed and electronically locked by the remote entry transmitter, key pad, or power door control (if pressed while the door was open).

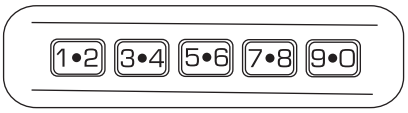
The UNLOCK function will operate again after you unlock the vehicle using the remote entry transmitter or key pad, turn the ignition to ON, or open the door from inside of the vehicle.

Deactivating/activating power door lock disable feature

This feature may be deactivated/activated by an authorized dealer.

KEYLESS ENTRY SYSTEM

With the keyless entry keypad, you can:



- lock or unlock the vehicle doors without using the key.

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
- or at your dealer.

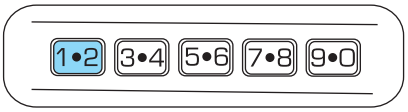
When pressing the controls on the keyless entry keypad, press the middle of the controls to ensure a good activation.

This system will disable the power door lock controls. These will not work until the vehicle is disarmed.

Programming your own personal entry code

To program your own code:

5. Enter factory set code (keypad will illuminate when pressed).
6. Press 1/2 control within five seconds of step 1.



7. Enter your personal 5 digit code. Enter each digit within five seconds of previous one.
8. After the code is entered, the locks will cycle, confirming that the new code has been set.

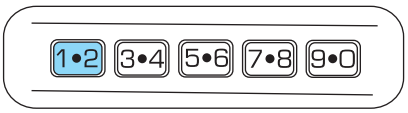
Do not set a code that includes five of the same number or presents them in sequential order. Thieves can easily figure out these types of codes.

Your personal code does not replace the permanent code that the dealership 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 factory set code.
2. Press 1/2 control and release.

The system will now only respond to the factory set code.



Anti-scan feature

The anti-scan feature prevents repeated attempts at arriving at a valid key code.

The keyless entry pad is disabled for 1 minute after 7 unsuccessful attempts (35 consecutive button presses) at entering a valid key code. The keypad will flash during this 1 minute mode. However, the 7/8 and 9/0 controls will still lock the vehicle.

Anti-scan will be turned off after:

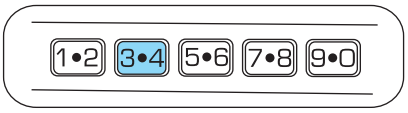
- one minute of keypad inactivity.
- the remote entry transmitter UNLOCK button is pressed.
- the ignition is turned to the ON position.

Unlocking the doors with the keyless entry system

To unlock the driver door, enter either the factory set code or the personal code (each digit must be pressed within five seconds of the prior digit). The interior lamps will also illuminate.

To unlock all doors, enter the factory set code or personal code (driver door unlocks) and press the 3/4 control within five seconds.

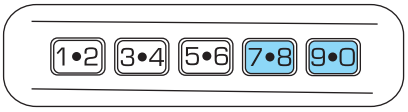
Locking the doors with the keyless entry system



It is not necessary to enter the factory or personal code prior to locking all doors. To lock the doors:

- with the driver's door closed, press the 7/8 control and the 9/0 control at the same time.

Activating/deactivating autolock with the keyless entry system



Before following the activation or deactivation procedures, make sure that the anti-theft system (if equipped) is not armed, ignition is off, and all vehicle doors and liftgate window are closed.

1. Enter 5 digit entry code
2. Press and hold 7/8 control
3. Press and release 3/4 control while holding 7/8 control
4. Release 7/8 control

The horn will chirp once if autolock was deactivated or twice (one short and one long chirp) if autolock was activated.

To re-activate autolock, repeat steps 1–4.

SECURILOCK™ PASSIVE ANTI-THEFT SYSTEM

SecuriLock™ passive anti-theft system is an engine immobilization system. This system is designed to 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

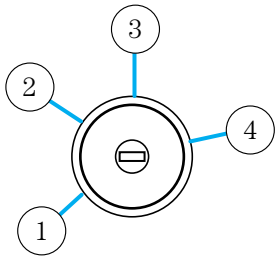
The theft indicator is the flashing red indicator located on the dash panel.

- When the ignition is in the OFF 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 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 ON position. If this occurs, the vehicle should be taken to an authorized dealer for service.

Automatic arming

The vehicle is armed immediately after switching the ignition to the 1 (OFF) 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 dealership. Your dealership can program your key or you can "do it yourself." Refer to *Programming spare keys*.

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 OFF 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 dealership or a locksmith. The key codes will need to be erased from your vehicle and new key codes will need to be re-coded.

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.

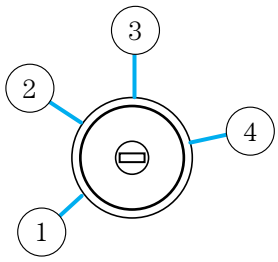
Programming spare keys

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 dealership 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 1 (OFF) to 3 (ON) (maintain ignition in 3 (ON) for at least one second, but no more than ten seconds).



2. Turn ignition from 3 (ON) back to 1 (OFF) 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 1 (OFF) to 3 (ON) (maintain ignition in 3 (ON) for at least one second but no more than ten seconds).

4. Turn the ignition from 3 (ON) back to 1 (OFF) 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 1 (OFF) to 3 (ON) (maintain ignition in 3 (ON) for at least one second, but no more than ten seconds). This step will program your new key to a coded key.

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 dealership to have the new spare key(s) programmed.

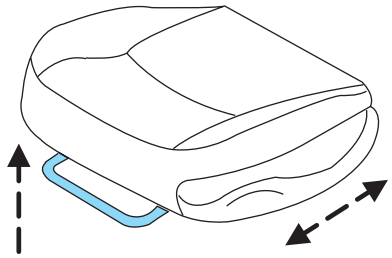
SEATING

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.

Lift handle to move seat forward or backward.

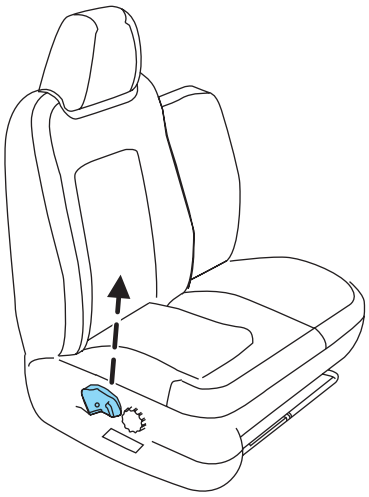


Seat recliner

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

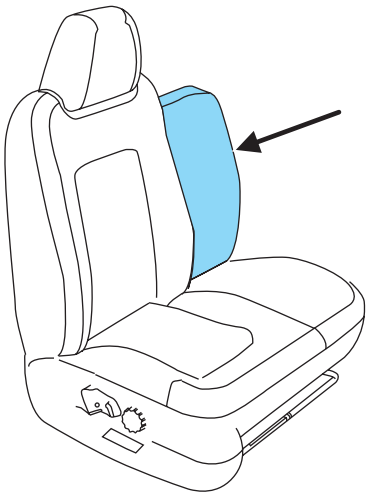
Reclining the seatback can cause an occupant to slide under the seat's safety belt, resulting in severe personal injuries in the event of a collision.

Pull the seatback handle up to recline the seat.



Using the armrest (if equipped)

Push the release control to move the armrest up or down.

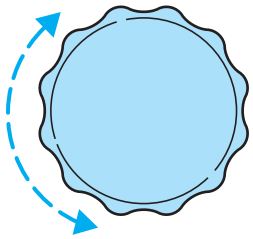


Using the manual lumbar support

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.



Adjusting the front power seat (if equipped)

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

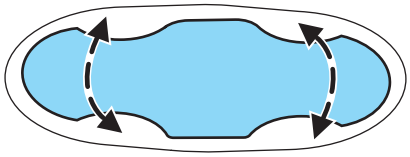
Do not pile cargo higher than the seatbacks to avoid injuring people in a collision or sudden stop.

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

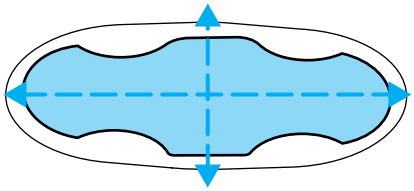
Reclining the seatback can cause an occupant to slide under the seat's safety belt, resulting in severe personal injuries in the event of a collision.

The control is located on the outboard side of the seat cushion.

Press the front or rear portion to tilt the seat.

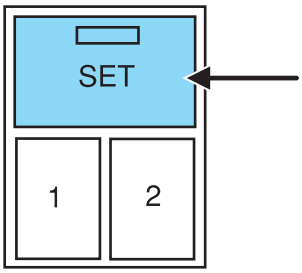


Press the control to move the seat forward, backward, up or down.



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. 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.

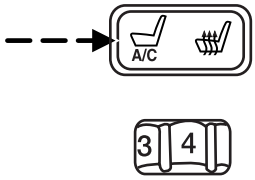
To program the memory function to a specific remote entry transmitter, refer to *Remote entry system* in the *Locks and security chapter*.

CLIMATE CONTROLLED SEATS (if equipped)

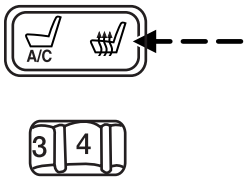
The controls for the climate controlled seats are located on the center console.

To operate the climate controlled seats the engine must be running.

- Push the icon on the button to activate cooled seats. A blue light illuminates on the button. Push the icon again to disengage.



- Push the icon on the button to activate heated seats. A red light illuminates on the button. Push the icon again to disengage.



In heat mode:

- Rotate the thumbwheel to select the desired heat level from 1 (MIN) to 5 (MAX).

In cool mode:

- Rotate the thumbwheel to select the desired cooling level from 1 (MIN) to 5 (MAX). When setting **1** is selected, the seat(s) will provide vent cooling only (same temperature as cabin air).



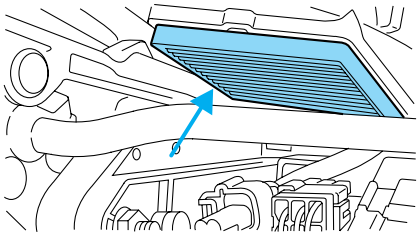
Allow five minutes for the temperature level to stabilize.

The climate controlled seats turn off after approximately 15 minutes in heat mode and approximately 30 minutes in cool mode to minimize unintended drain on the vehicle's power supply.

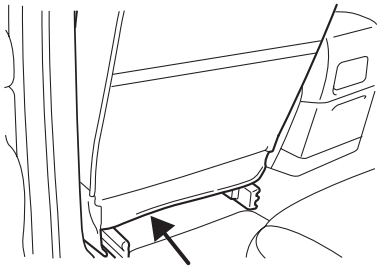
Climate controlled seats air filter replacement

The climate controlled seat system includes an air filter that has to be replaced periodically. Refer to the *Scheduled Maintenance Guide* for more information.

- There is a filter located under both front seats.

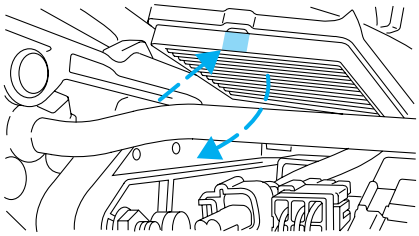


- It can be accessed from the second row seat. Move the front seat all the way forward and up to ease access.

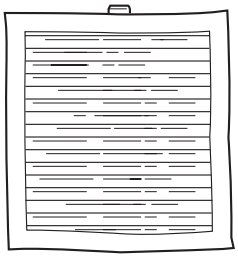


To remove climate controlled seat air filter:

- Remove key from ignition.
- Push on the outside rigid edge of the air filter at the center and rotate downward once tab is released.

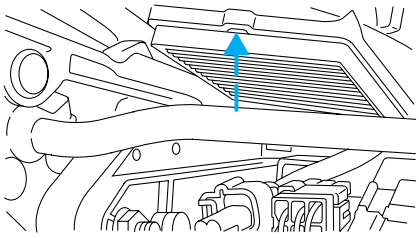


- Remove filter.



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.

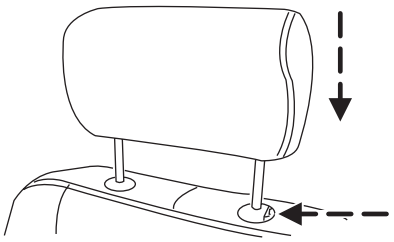


REAR SEATS

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.

Use caution when folding the seatback to the flat back position as the system will move forward when you lift the release handle.

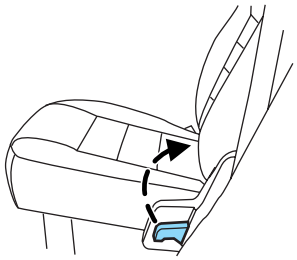
For assistance, refer to the label located on the side of the seat cushion.

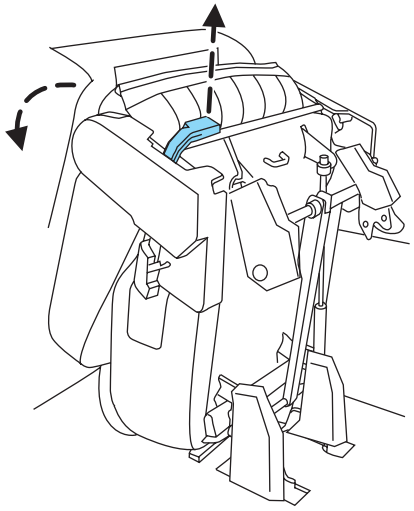
Adjusting the 2nd row outboard seat for E-Z Entry

The 2nd row outboard seats allow for easier entry and exit to and from the 3rd row seat.

To enter the 3rd row seat:

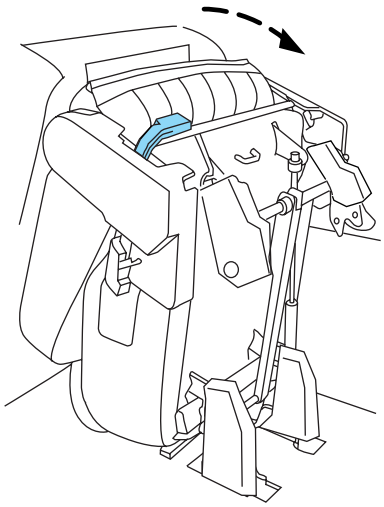
1. Locate the handle on the side of the seat, lifting it to release the seatback.





2. Pull up on the handle located at the back of the seat. The seat will flip forward.

3. To return the seat to a seating position, push down on the seat until the seat is latched to the floor.



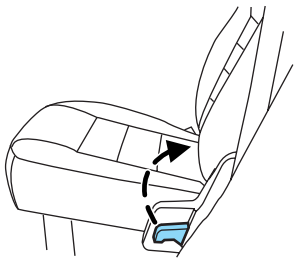
4. Lift the seatback to the upright position.

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.

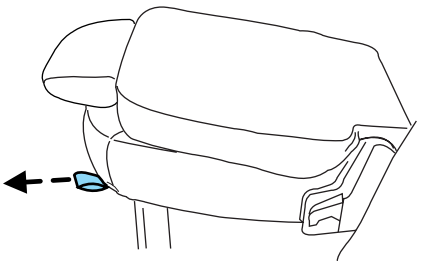
Folding 40% seat system to full lowered load floor position

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.

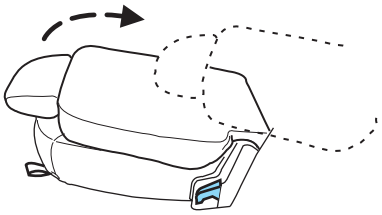
Returning to the upright position from full lowered load floor position

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:

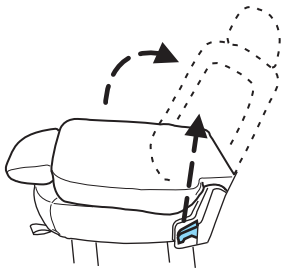
From the full lowered position:

1. Lift and pull the seat rearward until the latch is engaged.

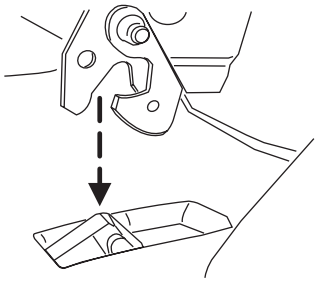
Do not attempt to un-latch the rear floor hooks while the seat is in the kneel down position.



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.

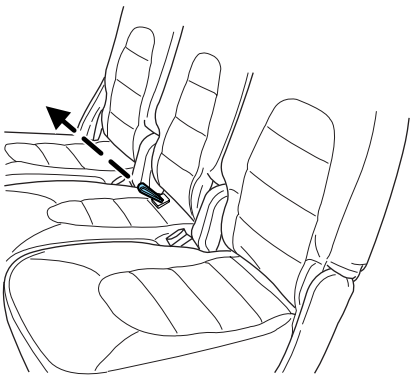


The rear latch hooks must be properly engaged with the floor striker. Position the rear legs of the seat over the floor strikers and engage.

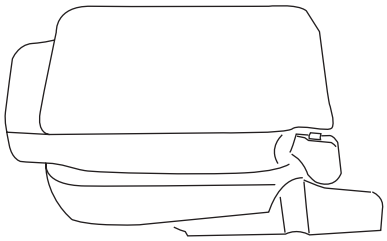


Folding the 20% seat system (if equipped)

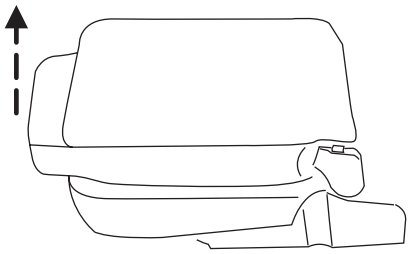
1. Locate the release strap located between the front cushion and the seat back, and pull the strap to release the folding seat latch.



2. With the latch released the seatback can be lowered into the load floor position.

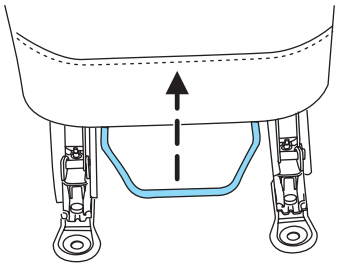


3. To return the seat to the upright position, lift the seatback until the latch is fully engaged.



Adjusting the second row 20% seat (if equipped)

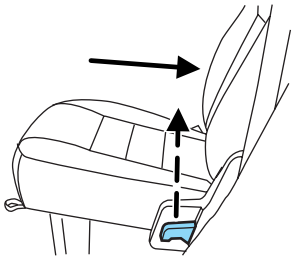
Lift the handle to move the seat forward or backward.



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.

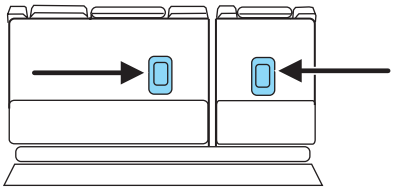
Third row seats

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.

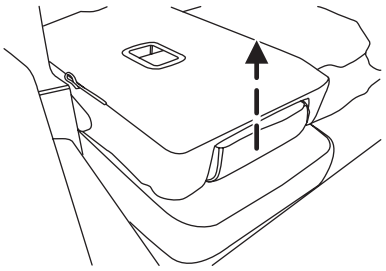
Folding down the third row seat to the load floor

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.



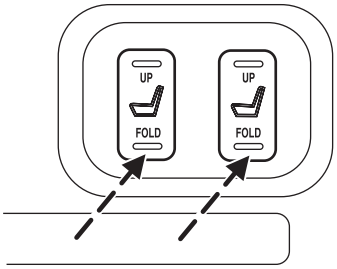
To return the seatback to its original position lift the seatback until it latches into place.



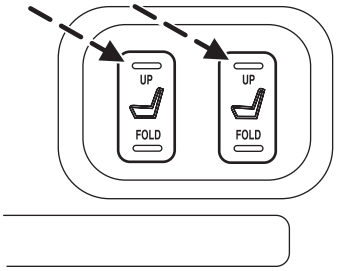
Third row power folding seat (if equipped)

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.



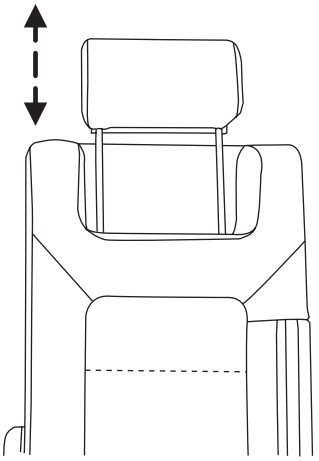
The power folding seats are designed to stall within 1–10 seconds of encountering an obstruction when opening or closing. Should this occur, remove the obstruction and wait approximately 1–4 minutes for the seat motor to reset.

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.

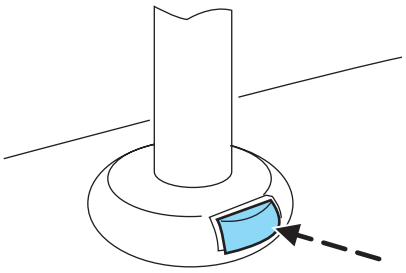
Third row adjustable head restraints

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.



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 air bag-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 air bag 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 air bags, 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 air bag supplemental restraints based on crash severity and occupant conditions.

The fact that the pretensioners or air bags 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 air bags 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 air bag supplemental restraints

The dual-stage air bags offer the capability to tailor the level of air bag inflation energy. A lower, less forceful energy level is provided for more common, moderate-severity impacts. A higher energy level is used for the most severe impacts. Refer to *Air bag 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 air bags 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 air bag based on seat position. The system is designed to help protect smaller drivers sitting close to the driver air bag by providing a lower air bag 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 air bag deployment and safety belt pretensioner activation depending upon safety belt usage. Refer to *Safety Belt* section in this chapter.

Front safety belt pretensioners

The safety belt pretensioners are designed to tighten the safety belts firmly against the occupant's body during a collision. This maximizes the effectiveness of the safety belts and helps properly position the occupant relative to the air bag to improve protection. The safety belt pretensioners can be either activated alone or, if the collision is of sufficient severity, together with the air bags.

Front safety belt energy management retractors

The front 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 Belt* 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 to the *Warning Light* 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 air bag 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 your dealership or by a qualified technician 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 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 air bag (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.

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.

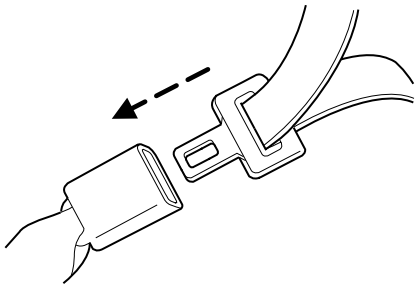
Always transport children 12 years old and under in the back seat and always properly use appropriate child restraints.

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.

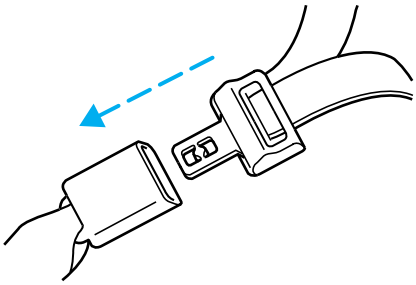
Combination lap and shoulder belts

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.

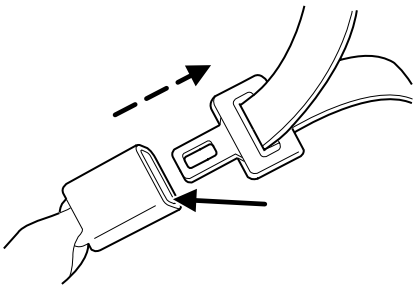
- Front seats



- Rear seats



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



The front outboard, rear outboard, and second and third row center safety restraints in the vehicle are combination lap and shoulder belts. The front center safety restraint (if equipped) is a manually-adjustable lap belt. All of the passenger 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 8 km/h (5 mph) 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.

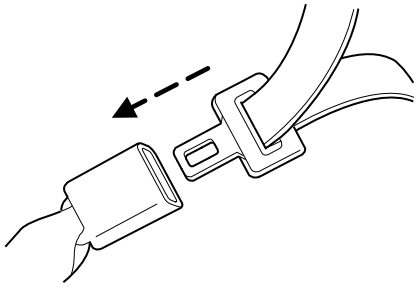
The automatic locking mode is not available on the driver safety belt.

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.

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 activate the vehicle sensitive (emergency) locking mode.

After any vehicle collision, the combination lap and shoulder belt system at all passenger seating positions must be checked by a qualified technician to verify that the “automatic locking retractor” feature for child seats is still functioning properly, in addition to other checks for proper seat belt system function.

BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED if the safety belt assembly “automatic locking retractor” feature or any other safety belt function is not operating properly. In addition, all safety belts should be checked for proper function. Failure to replace the belt and retractor assembly could increase the risk of injury in collisions.

Safety belt pretensioner

Your vehicle is equipped with safety belt pretensioners at the driver and right front passenger seating positions.

The safety belt pretensioner removes some slack from the safety belt system at the start of a crash. The safety belt pretensioner uses the same crash sensor system as the front airbags and Safety Canopy™ system. When the safety belt pretensioner deploys, the lap and shoulder belt are tightened.

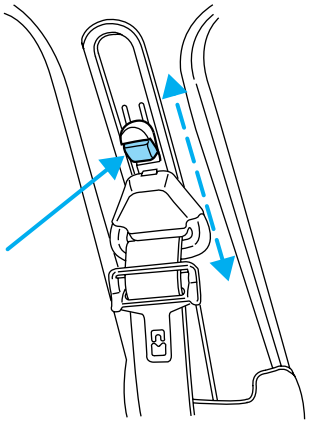
When the Safety Canopy™ system and/or the front airbags are activated, the safety belt pretensioners for the driver and right front passenger seating positions will be activated when the respective seatbelt is properly buckled.

The driver and the right front passenger seat 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 air bags or Safety Canopy™ and safety belt pretensioners.

Refer to the *Safety belt maintenance* section in this chapter.

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.

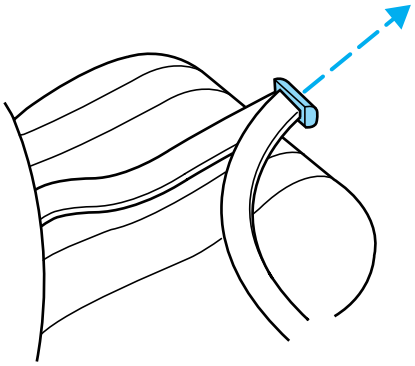
First row center lap belt (if equipped)

Adjusting the lap belt

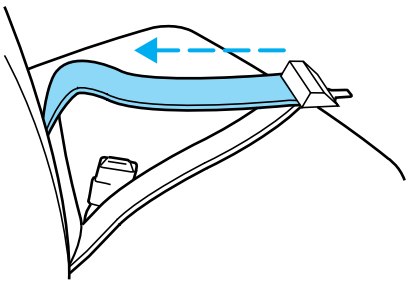
The lap belt should fit snugly and as low as possible around the hips, not across the waist.

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.



Shorten and fasten the belt when not in use.



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.

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. *1 in 4 of us will be seriously injured in a crash during our lifetime.*
"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.
"I was in a hurry"	**Prime time for an accident.** BeltMinder™ reminds us to take a few seconds to buckle up.
"Seat 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.

Reasons given...	Consider...
"I have an air bag"	Air bags 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 Belt Minder™ chime. Sitting on the safety belt will increase the risk of injury in an accident. To disable (one-time) or deactivate the Belt Minder™ 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.

Deactivating/activating the BeltMinder™ feature

Read steps 1 - 9 thoroughly before proceeding with the deactivation/activation programming procedure.

The 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
- All vehicle doors are closed
- The driver's safety belt is unbuckled
- The parklamps/headlamps are in OFF position (If vehicle is equipped with Autolamps, this will not affect the procedure.)

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 1–2 minutes)

- Steps 3–5 must be completed within 60 seconds or the procedure will have to be repeated.

3. Buckle then unbuckle the safety belt three times, ending with the safety belt unbuckled. This can be done before or during BeltMinder™ warning activation.

4. Turn on the parklamps/headlamps, turn off the parklamps/headlamps.

5. Buckle then unbuckle the safety belt three times, ending with the safety belt unbuckled.

- After step 5 the safety belt warning light will be turned on for three seconds.

6. Within seven seconds of the safety belt warning light turning off, buckle then unbuckle the safety belt.

- This will disable BeltMinder™ if it is currently enabled, or enable BeltMinder if it is currently disabled.

7. Confirmation of disabling BeltMinder™ is provided by flashing the safety belt warning light four times per second for three seconds.

8. Confirmation of enabling BeltMinder™ is provided by flashing the safety belt warning light four times per second for three seconds, followed by three seconds with the safety belt warning light off, then followed by flashing the safety belt warning light four times per second for three seconds again.

9. After receiving confirmation, the deactivation/activation procedure is complete.

Safety belt extension assembly

If the safety belt is too short when fully extended, there is a 20 cm (8 inch) safety belt extension assembly that can be added (part number 611C22). This assembly can be obtained from your dealer at no cost.

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.

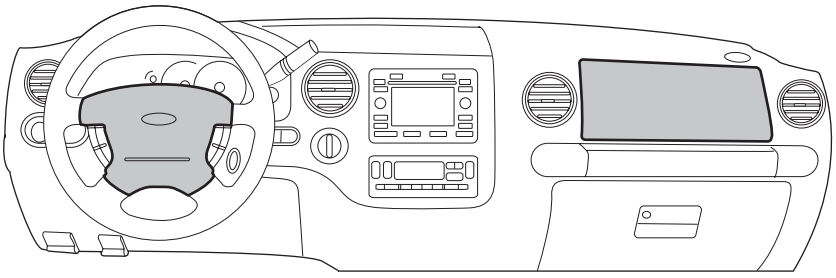
Do not use extensions to change the fit of the shoulder belt across the torso.

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 there are no nicks, tears or cuts. Replace if necessary. All safety belt assemblies, including retractors, buckles, front seat 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 used in vehicles involved in a collision be replaced. However, if the collision was minor and a qualified technician 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.

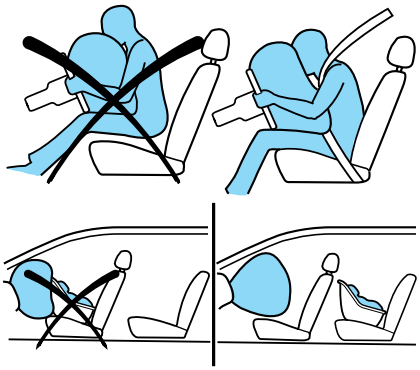
Refer to *Interior* in the *Cleaning* chapter.

AIR BAG 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. Air bags DO NOT inflate slowly; there is a risk of injury from a deploying air bag.



All occupants of the vehicle, including the driver, should always properly wear their safety belts, even when an air bag (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 25 cm (10 inches) between an occupant's chest and the driver air bag module.

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

To properly position yourself away from the air bag:

- 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 air bag module. Placing objects on or over the air bag inflation area may cause those objects to be propelled by the air bag into your face and torso causing serious injury.

Do not attempt to service, repair, or modify the air bag supplemental restraint systems or its fuses. See your Ford or Lincoln Mercury dealer.

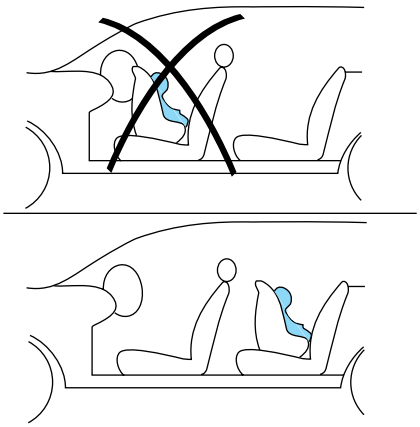
The front passenger air bag is not designed to offer protection to an occupant in the center front seating position.

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 air bag system, increasing the risk of injury. Do not modify the front end of the vehicle.

Additional equipment may affect the performance of the air bag sensors increasing the risk of injury.

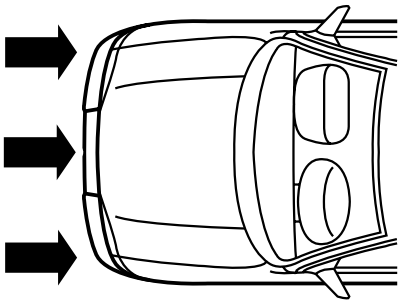
Children and air bags

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.



Air bags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active air bag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

How does the air bag supplemental restraint system work?



The air bag SRS is designed to activate when the vehicle sustains longitudinal deceleration sufficient to cause the sensors to close an electrical circuit that initiates air bag inflation.

The fact that the air bags 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.



The air bags inflate and deflate rapidly upon activation. After air bag 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 air bag. 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 air bag may also cause abrasions, swelling or temporary hearing loss. Because air bags 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 air bag deployment. Thus, it is extremely important that occupants be properly restrained as far away from the air bag module as possible while maintaining vehicle control.

Several air bag system components get hot after inflation. Do not touch them after inflation.

If the air bag has deployed, **the air bag will not function again and must be replaced immediately.** If the air bag is not replaced, the unrepaired area will increase the risk of injury in a collision.

The SRS consists of:

- driver and passenger air bag modules (which include the inflators and air bags),
- 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 air bag electrical system warning (including the impact sensors, the system wiring, the air bag system readiness light, the air bag back up power and the air bag 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 *Air bag readiness* section in the *Instrument cluster* chapter. Routine maintenance of the air bag is not required.

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

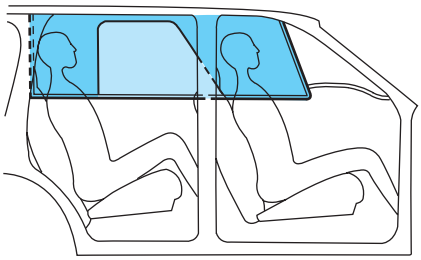


- The readiness light will either flash or stay lit.
- The readiness light will not illuminate immediately after ignition is turned on.
- A series of five beeps will be heard. The tone pattern will repeat periodically until the problem and/or light are repaired.

If any of these things happen, even intermittently, have the SRS serviced at your dealership or by a qualified technician 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.



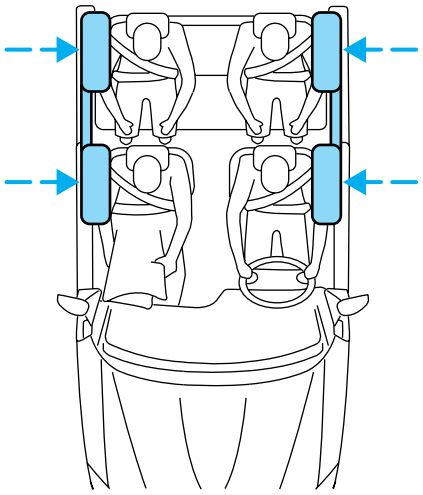
Do not lean your head on the door. The Safety Canopy™ could injure you as it deploys from the headliner.

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 Ford or Lincoln Mercury dealer.

All occupants of the vehicle including the driver should always wear their safety belts even when an air bag 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 Air Bag 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).
- Two crash sensors located at the c-pillar behind the rear doors (one on each side).
- Rollover sensor in the restraints control module (RCM).

The Safety Canopy™ system, in combination with seat belts, can help reduce the risk of severe injuries in the event of a significant side impact collision or rollover event.

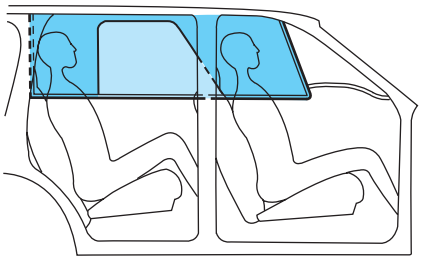
Children 12 years old and under should always be properly restrained in the second or third row seats. The Safety Canopy™ will not interfere with children restrained using a properly installed child or booster seat because it is designed to inflate downward from the headliner above the doors along the 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. In certain rollover events, the Safety Canopy™ on both sides of the vehicle will be inflated, 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 qualified technician in accordance with the vehicle service manual.** If the Safety Canopy™ is not replaced, the unrepaired area will increase the risk of injury in a collision.

Determining if the system is operational

The SRS uses a readiness light in the instrument cluster or a tone to indicate the condition of the system. Refer to the *Air bag readiness* section in the *Instrument Cluster* chapter. Routine maintenance of the air bag 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 air bag 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 your dealership or by a qualified technician immediately. Unless serviced, the system may not function properly in the event of a collision or rollover event.

Disposal of air bags and air bag equipped vehicles (including pretensioners)

See your local dealership or qualified technician. Air bags 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 *Air bag supplemental restraint system (SRS)* in this chapter for special instructions about using air bags.

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 18 kg [40 lbs] or less) ride in your vehicle, you must put them in safety seats made especially for children. Check your local and state or provincial laws for specific requirements regarding the safety of children in your vehicle. When possible, always place children under age 12 in the rear seat of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position.

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

Always follow the instructions and warnings that come with any infant or child restraint you might use.

Children and safety belts

If the child is the proper size, restrain the child in a safety seat.

Children who are too large for child safety seats (as specified by your child safety seat manufacturer) should always wear safety belts.

Follow all the important safety restraint and air bag 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 pounds 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.

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.

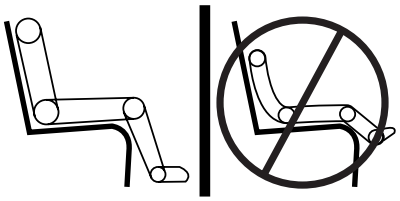
Booster seats position a child so that safety belts fit better. They lift the child up so that the lap belt rests low across the hips and the knees bend comfortably. Booster seats also make the shoulder belt fit better and more comfortably for growing children.

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 lbs (about 8 to 12 years old).

Booster seats should be used until you can answer YES to ALL of these questions:

- Can the child sit all the way back against the vehicle seat back with knees bent comfortably at the edge of the seat without slouching?



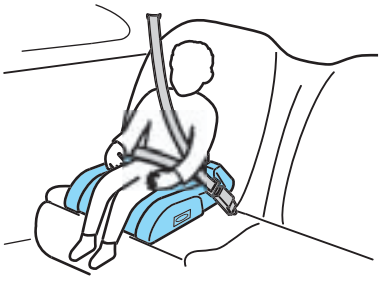
- Does the lap belt rest low across the hips?
- Is the shoulder belt centered on the shoulder and chest?
- Can the child stay seated like this for the whole trip?

Types of booster seats

There are two types of belt-positioning booster seats:

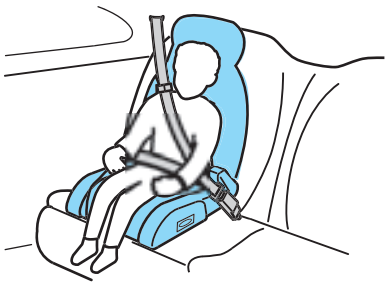
- Those that are backless.

  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.



Both can be used in any vehicle in a seating position equipped with lap/shoulder belts if your child is over 40 lbs.

The shoulder belt should cross the chest, resting snugly on the center of the shoulder. The lap belt should rest low and snug across the hips, never up high across the stomach.

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.

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.

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

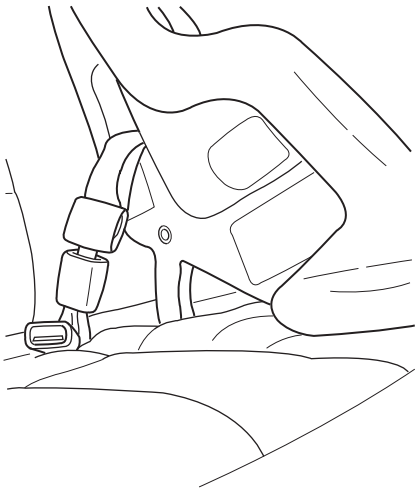


Child and infant or child safety seats

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 *Air bag 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.

Ford recommends the use of a child safety seat having a top tether strap and LATCH attachments. Install the child safety seat in a seating position which is capable of providing tether and LATCH anchors. For more information, refer to *Attaching child safety seats with tether straps.* and *Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments for child seat anchors* 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

Air bags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active air bag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

Children 12 and under should be properly restrained in the rear seat whenever possible.

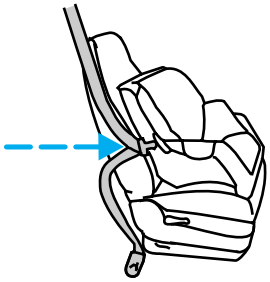
1. Position the child safety seat in a seat with a combination lap and shoulder belt.



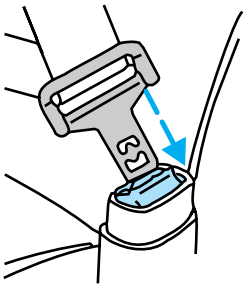
2. Pull down on the shoulder belt and then grasp the shoulder belt and lap belt together.



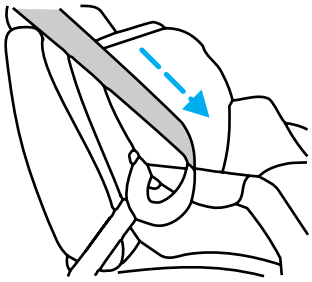
3. While holding the shoulder and lap belt portions together, route the tongue through the child seat according to the child seat manufacturer's instructions. Be sure the belt webbing is not twisted.



4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.

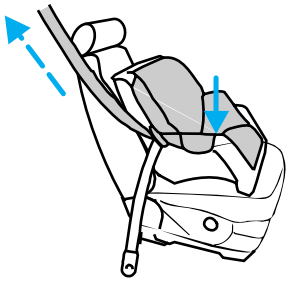


5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until all of the belt is pulled out and a click is heard.



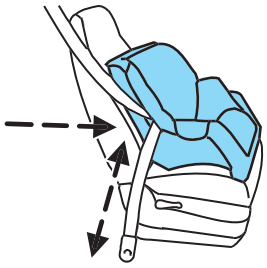
6. Allow the belt to retract. The belt will click as it retracts to indicate it is in the automatic locking mode.

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 two through nine.

Check to make sure the child seat is properly secured before each use.

Installing child safety seats in the center front seating position

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

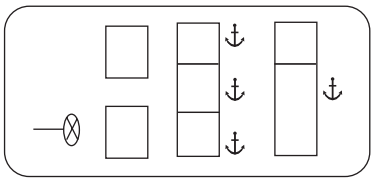
Most new forward-facing child safety seats include a tether strap which goes over the back of the seat and hooks to an anchoring point. Tether straps are available as an accessory for many older safety seats. Contact the manufacturer of your child seat for information about ordering a tether strap.

Some of the rear seats of your vehicle are equipped with built-in tether strap anchors located behind the seats as described below.

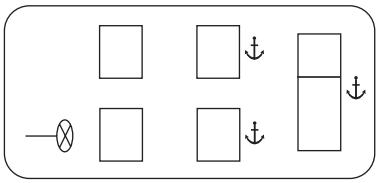
In the third row center seating position, the tether anchor is a loop at the bottom of the seatback.

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

- Second row bench seat



- Second row bucket seats

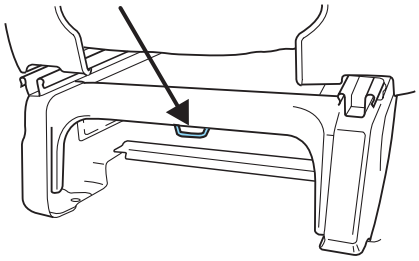


Attach the tether strap only to the appropriate tether anchor as shown. The tether strap may not work properly if attached somewhere other than the correct tether anchor.

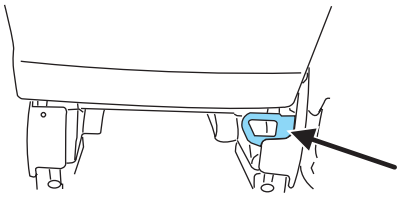
Second row seating positions

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

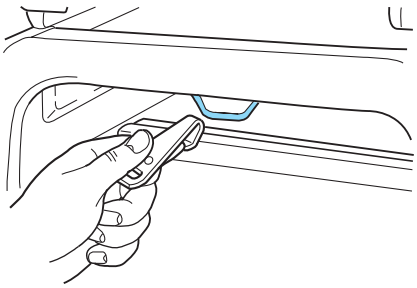


- center seating position (if equipped)

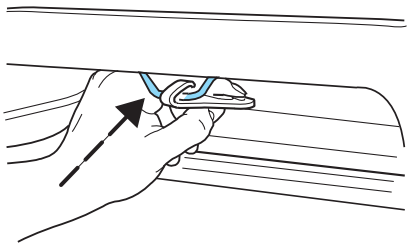


3. Route the child safety seat tether strap under the head restraint (outboard seats) and over the back of the seat.

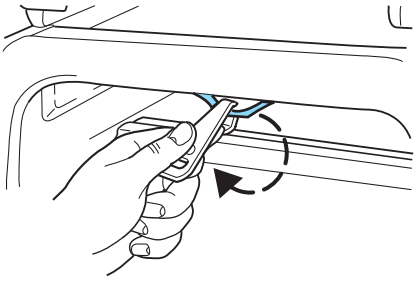
4. Grasp the tether strap and position it to the seat frame.



5. Rotate the tether strap, and clip the tether strap to the anchor on the seat frame.



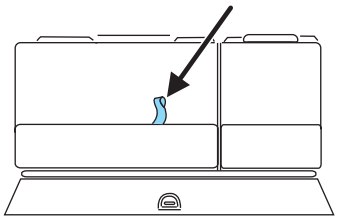
6. Rotate the tether strap clip.



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

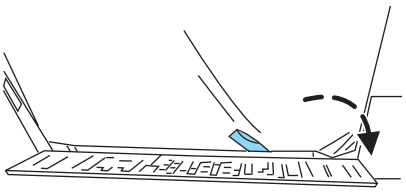
Third row seating position

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.

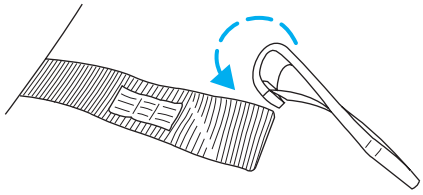


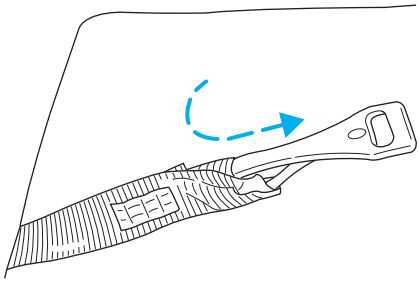
3. Locate the anchor webbing loop for the seating position.

- You may need to pull back the top of the hinged panel along the bottom of the seat back to access the tether anchor.



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. Refer to the *Installing child safety seats in combination lap and shoulder belt seating positions* section of this chapter for further instructions to secure the child safety seat.

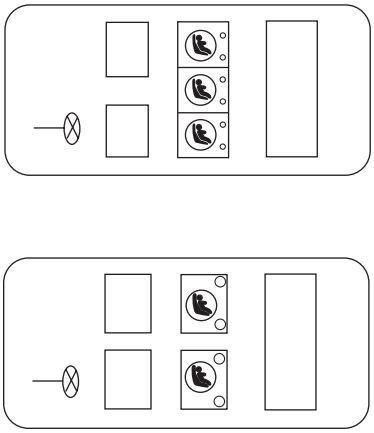
6. Tighten the child safety seat tether strap according to the manufacturer's instructions.

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

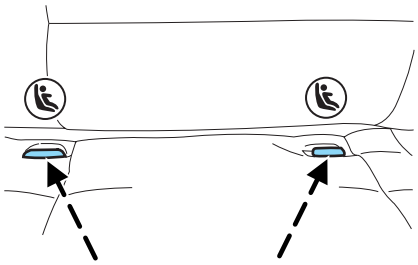
Some child safety seats have two rigid or webbing mounted attachments that connect to two anchors at certain seating positions in your vehicle. This type of child seat eliminates the need to use seat belts to attach the child seat. For forward-facing child seats, the tether strap must also be attached to the proper tether anchor. See *Attaching safety seats with tether straps* in this chapter.

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.

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

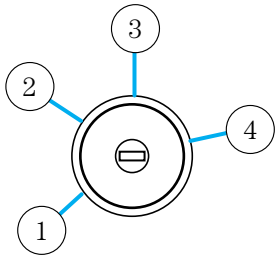
If you install a child seat with rigid LATCH attachments, do not tighten the tether strap enough to lift the child seat off the vehicle seat cushion when the child is seated in it. Keep the tether strap just snug without lifting the front of the child seat. Keeping the child seat just touching the vehicle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

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.

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:

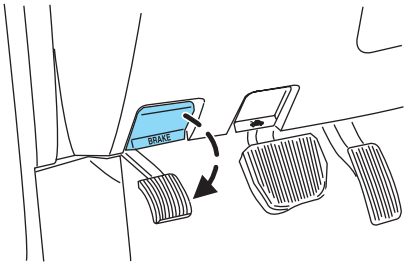
1. Make sure all vehicle occupants have buckled their safety belts. For more information on safety belts and their proper usage, refer to the *Seating and Safety Restraints* chapter.

2. Make sure the headlamps and vehicle accessories are off.

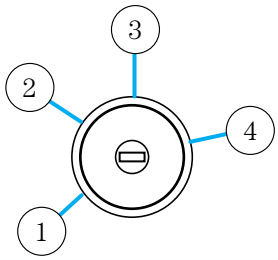
3. Make sure the gearshift is in P (Park).

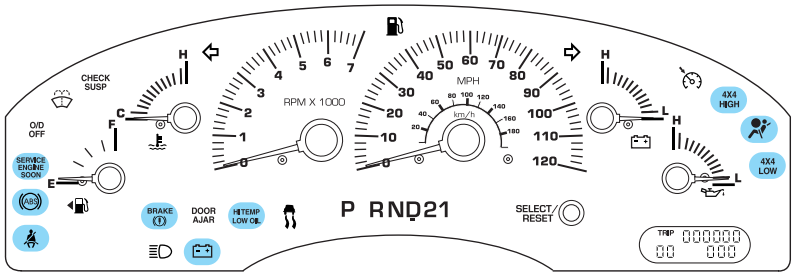


4. Make sure the parking brake is set.



5. Turn the key to 3 (ON) without turning the key to 4 (START).





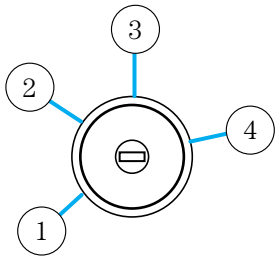
Make sure the corresponding lights illuminate or illuminate briefly. If a light fails to illuminate, have the vehicle serviced.

- If the driver's safety belt is fastened, the light may not illuminate.

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, then release the accelerator pedal gradually as the engine speeds up.
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.

Using the engine block heater (if equipped)

Use of an engine block heater is strongly recommended if you live in a region where temperatures reach -23° C (-10° F) or below. For best results, plug the heater in at least three hours before starting the vehicle. The heater can be plugged in the night before starting the vehicle.

To reduce the risk of electrical shock, do not use your heater with ungrounded electrical systems or two-pronged (cheater) adapters.

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 2.5 cm (one inch) or adjust the heating or air conditioning to bring in fresh air.

BRAKES

Your service brakes are self-adjusting. Refer to the scheduled maintenance guide 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 a qualified service technician.

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.

Under normal operating conditions, brake dust may accumulate on the wheels. Some brake dust is inevitable with use; this does not contribute to brake noise. The use of modern friction materials with emphasis on improved performance and environmental considerations can lead to more dust than in the past. Brake dust can be cleaned by washing with soapy water and a soft sponge. Heavier deposits can be removed with Motorcraft Wheel and Tire Cleaner (ZC-37–A).

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 a qualified service technician.

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 to the ON position. 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

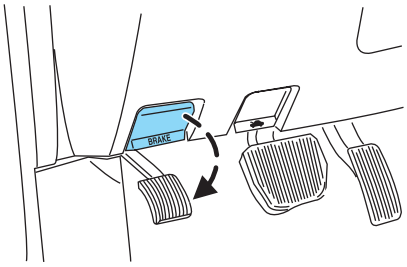
Brake Assist

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.

Parking brake (P)

Apply the parking brake whenever the vehicle is parked. To set the parking brake, press the parking brake pedal down until the pedal stops.



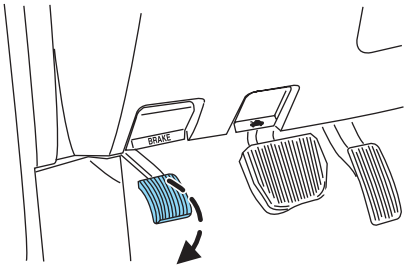
The BRAKE warning lamp in the instrument cluster illuminates and remains illuminated (when the ignition is turned ON) until the parking brake is released.

BRAKE

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.



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

Speed sensitive steering

Your vehicle is equipped with engine speed sensitive steering. At higher engine speeds associated with high vehicle speed, the steering assist will decrease to improve steering feel.

If the amount of effort required to steer your vehicle changes while maintaining a constant engine speed, have the power steering system checked by your dealer or a qualified service technician.

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.

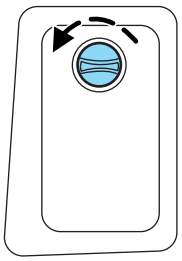
When you enter the vehicle and the ignition is off, the air suspension will have automatically lowered the vehicle to its lowest height to provide easier entry. When a door or the liftgate is opened, the system memorizes and maintains that height until either all doors are closed or the vehicle's speed exceeds 24 km/h (15 mph). 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 it's lowest position; instead, the ride height is raised above the normal ride height position (at speeds below 40 km/h [25 mph]) to improve ground clearance.

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.

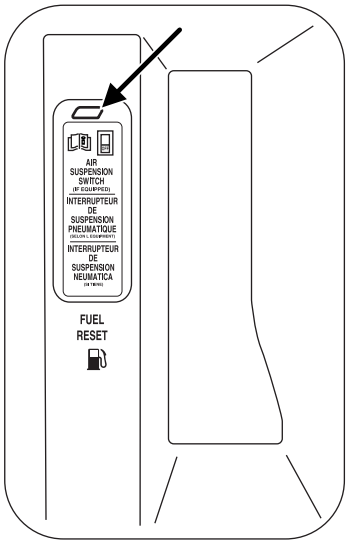
When exiting the vehicle, the air suspension will automatically lower the vehicle to its lowest height to provide easier exit. You may hear a buzz or click from the air suspension system when the ignition is turned off. The air suspension system will stay active for 40 minutes after the ignition is turned 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 two access panels on the left rear quarter trim panel, near the liftgate. To remove the first panel, turn the control counterclockwise and remove the panel.

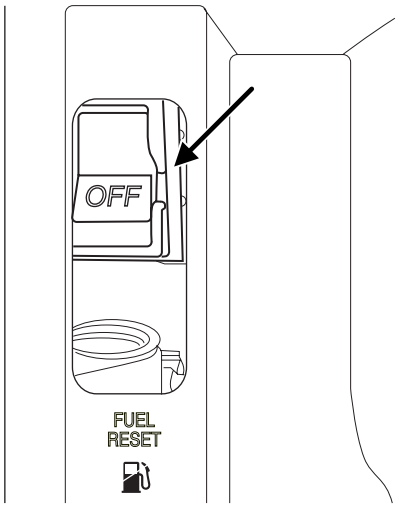


On vehicles equipped with air suspension, turn the air suspension and the ignition switch off prior to jacking, hoisting or towing your vehicle.

To remove the second panel, press the tab down to unlock the access panel.



Press the bottom portion of the switch to turn off the air suspension.



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 YOUR VEHICLE

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.

Use extra caution while becoming familiar with your vehicle. Know the capabilities and limitations of both you as a driver and your vehicle.

ADVANCETRAC™ STABILITY ENHANCEMENT SYSTEM (IF EQUIPPED)

The AdvanceTrac™ system provides a stability enhancement feature as well as a traction enhancement feature. It 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.

If your vehicle should become stuck in deep snow or mud, try switching the AdvanceTrac™ system off by pressing the AdvanceTrac™ button. This will allow your tires to “dig” for traction.

If the AdvanceTrac™ 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™ 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.

AdvanceTrac™ 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™ system helps the driver maintain steering control if the vehicle begins to slide excessively left or right or spin out. AdvanceTrac™ 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 AdvanceTrac™ include:

- Taking a turn too fast
- 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 AdvanceTrac™ 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™ button allows the driver to control the availability of the AdvanceTrac™ system. AdvanceTrac™ 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.

If a failure is detected in the AdvanceTrac™ 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 immediately.

Pressing the control once will disable the AdvanceTrac™ stability enhancement 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 control for more than five seconds will disable the AdvanceTrac™ 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™ 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™ stability enhancement feature 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™ performs a system self-check. During AdvanceTrac™ operation you may experience the following:

- A rumble or grinding noise
- A slight deceleration of the vehicle
- The AdvanceTrac™ 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™ 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™ 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™ sensors located in this area.

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™ 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.

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.

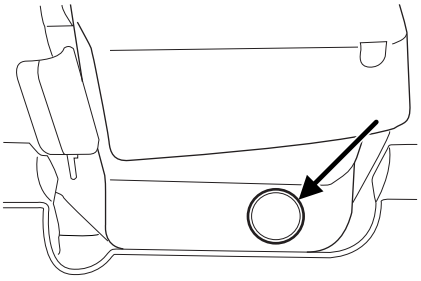
If you cannot move the gearshift lever out of P (Park) with ignition in the ON position and the brake pedal depressed, or when the ignition is in the OFF position, it is possible that a fuse has blown or the vehicle's brakelamps are not operating properly. Refer to *Fuses and relays* in the *Roadside 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.

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 dealer or a qualified service technician.

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 –5° C (23° F) or below and the engine coolant temperature is below 38° C (100° F), light throttle upshifts may be slightly delayed. Once the engine coolant temperature reaches 71° C (160° F) 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 dealer or a qualified service technician 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.

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

R (Reverse)

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



N (Neutral)

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

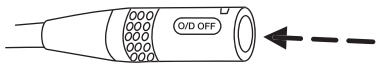


D *(Overdrive)*

The normal driving position for the best fuel economy. Transmission operates in gears one through four.



D (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.



Drive – Not shown on the display. Activate by pressing the transmission control switch (TCS) on the end of the gearshift lever with the gearshift in the D position. The TCIL will illuminate in the instrument cluster. Transmission operates in gears one through three. D (Drive) provides more engine braking than D (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.

To return to D (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.



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 (Overdrive). 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.



Forced Downshifts

To gain acceleration in D (Overdrive) or Drive (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 from 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™, it may be beneficial to turn the system off so the wheels are allowed to spin.

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:

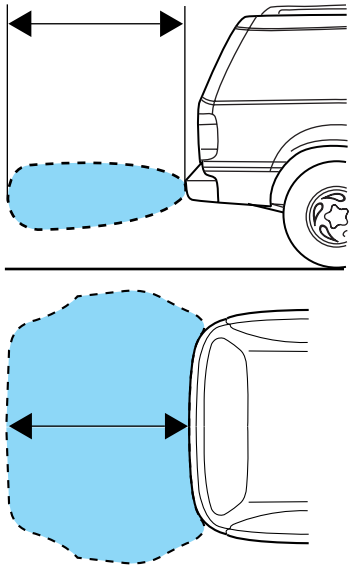
- the vehicle is moving toward a stationary object at a speed of 5 km/h (3 mph) or less.
- the vehicle is in R (Reverse) but not moving backward (the brake pedal is depressed or the parking brake is applied), and a moving object is approaching the rear of the vehicle at a speed of 5 km/h (3 mph) or less.
- the vehicle is moving in reverse at a speed of less than 5 km/h (3 mph) and a moving object is approaching the rear of the vehicle at a speed of less than 5 km/h (3 mph).

The RSS is not effective at speeds greater than 5 km/h (3 mph) 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.



The RSS detects obstacles up to 2 meters (6 ft.) 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 25.0 cm (10 in.) away, the tone will sound continuously. If the RSS detects a stationary or receding object further than 25.0 cm (10 in.) 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 Ford dealer as soon as possible.

- **4X4 HIGH** - momentarily illuminates when the vehicle is started. Illuminates when 4H is selected.

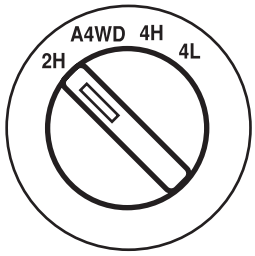
4x4
HIGH

- **4X4 LOW** – momentarily illuminates when the vehicle is started. Illuminates when 4L is selected.

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.

- **4H (4X4 HIGH)** provides mechanically locked four-wheel drive power to front and rear wheels. The “4X4” 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™, the AdvanceTrac™ 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™ stability enhancement system can be turned off manually by pressing the AdvanceTrac™ button (refer to *AdvanceTrac™ 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.

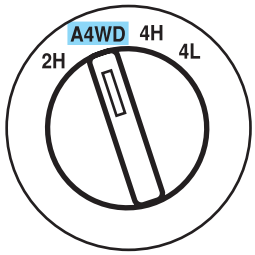
Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns or abrupt maneuvers in these vehicles.

Note: The Control Trac selector knob should not be changed while the rear wheels are slipping.

Using the Control Trac system

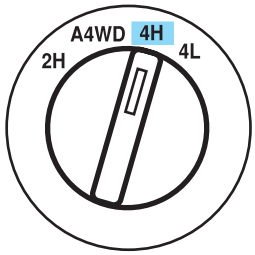
Shifting from 2H to A4WD or 4H

Move the control to the A4WD or 4H position at any forward speed up to 88 km/h (55 mph). The “4X4” light in the instrument cluster will illuminate if 4H is selected.



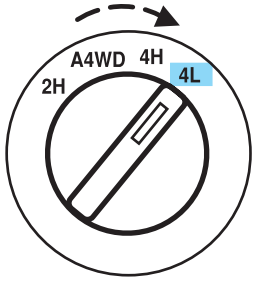
Shifting from A4WD to 4H

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.

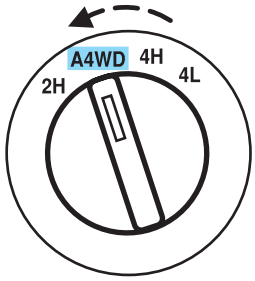


Note: Some noise may be heard as the system shifts or engages.

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.

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™ stability enhancement system can be turned off manually by pressing the AdvanceTrac™ button (refer to *AdvanceTrac™ 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 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.

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 dealer or a qualified service technician.

Do not spin the wheels at over 56 km/h (35 mph). The tires may fail and injure a passenger or bystander.

Emergency maneuvers

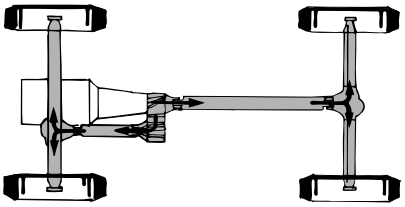
- In an unavoidable emergency situation where a sudden sharp turn must be made, remember to avoid "over-driving" your vehicle, i.e., turn the steering wheel only as rapidly and as far as required to avoid the emergency. Excessive steering will result in less vehicle control, not more. Additionally, smooth 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

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.

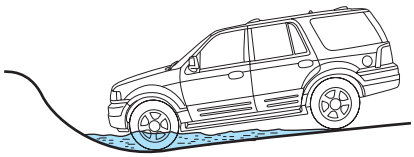
If you must reduce the tire pressure for whatever reason in sand, make sure you re-inflate the tires as soon as possible.

Note: If your vehicle is equipped with the tire pressure monitoring system, the system indocator 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.

If your vehicle is equipped with AdvanceTrac™, press the AdvanceTrac™ button (refer to *AdvanceTrac™ 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.

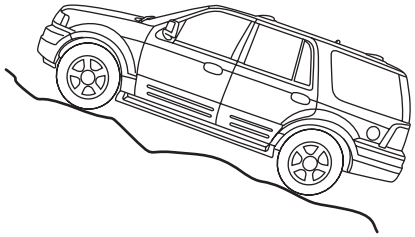


"Tread Lightly" is an educational program designed to increase public awareness of land-use regulations and responsibilities in our nations wilderness areas. Ford Motor Company joins the U.S. Forest Service and the Bureau of Land Management in encouraging you to help preserve our national forest and 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.

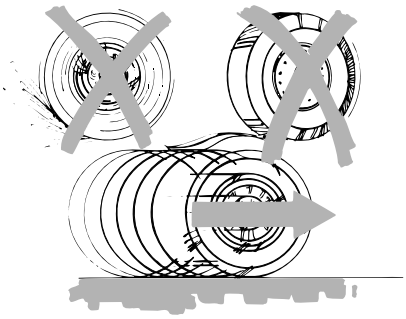
When climbing a steep slope or hill, start in a lower gear rather than downshifting to a lower gear from a higher gear once the ascent has started. This reduces strain on the engine and the possibility of stalling.



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 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.

Tires, Replacement Requirements

Do not use a size and type of tire and wheel other than that originally provided by Ford Motor Company because it can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, and/or serious personal injury or death.

Make sure all road tires and road wheels on the vehicle are of the same size, type, tread design, brand and load carrying capacity (for information on the spare tire, refer to *Changing the Tires* in the *Roadside emergencies* chapter). If you have questions regarding tire replacement, see an authorized Ford or Lincoln/Mercury dealer.

If you nevertheless decide to equip your four–wheel drive for off-road use with tires larger than what Ford Motor Company recommends, you should not use these tires for highway driving.

If you use any tire/wheel combination not recommended by Ford Motor Company, it may adversely affect vehicle handling and could cause steering, suspension, axle or transfer case failure as well as the increased risk of loss of vehicle control.

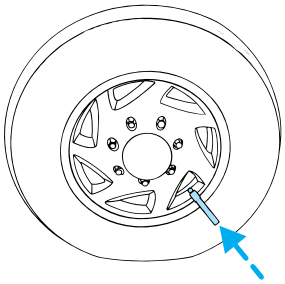
Do not use "aftermarket lift kits" or other suspension modifications, whether or not they are used with larger tires and wheels.

These “aftermarket lift kits” could adversely affect the vehicle’s handling characteristics, which could lead to loss of vehicle control or rollover and serious injury.

Tires can be damaged during off-road use. For your safety, tires that are damaged should not be used for highway driving because they are more likely to blow out or fail.

You should carefully observe the recommended tire inflation pressure found on the safety compliance certification label attached to the left front door latch post pillar (a label may also be found on the fuel cap filler door). Failure to follow tire pressure recommendations can adversely affect the way your vehicle handles. Do not exceed the Ford Motor Company recommended pressure even if it is less than the maximum pressure allowed for the tire.

Each 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. Check tire pressure with a tire gauge every few weeks (including spare). Safe operation requires tires that are neither underinflated nor a vehicle which is overloaded.



Periodically inspect the tire treads and remove stones, nails, glass or other objects 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.

Inspect the tire side walls for cuts, bruises and other damage. If internal damage to the tire is suspected, have the tire demounted and inspected to determine whether it needs to be repaired or replaced.

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.

DRIVING THROUGH WATER

Do not drive quickly through standing water, especially if the depth is unknown. Traction or brake capability may be limited and if the ignition system gets wet, your engine may stall. Water may also enter your engine's air intake and severely damage your engine.

If driving through deep or standing water is unavoidable, proceed very slowly. Never drive through water that is higher than the bottom of the hubs (for trucks) or the bottom of the wheel rims (for cars).

Once through the 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.

Driving through deep water where the transmission vent tube is submerged may allow water into the transmission and cause internal transmission damage. Have the fluid checked and, if water is found, replace the fluid.

VEHICLE LOADING

Before loading a vehicle, familiarize yourself with the following terms:

- **Base Curb Weight:** Weight of the vehicle including any standard equipment, fluids, lubricants, etc. It does not include occupants or aftermarket equipment.
- **Payload:** Combined maximum allowable weight of cargo, occupants and optional equipment. The payload equals the gross vehicle weight rating minus base curb weight.
- **GVW (Gross Vehicle Weight):** Base curb weight plus payload weight. The GVW is not a limit or a specification.
- **GVWR (Gross Vehicle Weight Rating):** Maximum permissible total weight of the base vehicle, occupants, optional equipment and cargo. The GVWR is specific to each vehicle and is listed on the Safety Certification Label on the driver's door pillar.

- **GAWR (Gross Axle Weight Rating):** Carrying capacity for each axle system. The GAWR is specific to each vehicle and is listed on the Safety Certification Label on the driver's door pillar.
- **GCW (Gross Combined Weight):** The combined weight of the towing vehicle (including occupants and cargo) and the loaded trailer.
- **GCWR (Gross Combined Weight Rating):** Maximum permissible combined weight of towing vehicle (including occupants and cargo) and the loaded trailer
- **Maximum Trailer Weight Rating:** Maximum weight of a trailer the vehicle is permitted to tow. The maximum trailer weight rating is determined by subtracting the vehicle curb weight for each engine/transmission combination, any required option weight for trailer towing and the weight of the driver from the GCWR for the towing vehicle.
- **Maximum Trailer Weight:** Maximum weight of a trailer the loaded vehicle (including occupants and cargo) is permitted to tow. It is determined by subtracting the weight of the loaded trailer towing vehicle from the GCWR for the towing vehicle.
- **Trailer Weight Range:** Specified weight range that the trailer must fall within that ranges from zero to the maximum trailer weight rating.

Remember to figure in the tongue load of your loaded trailer when figuring the total weight.



Do not exceed the GVWR or the GAWR specified on the 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.

The Safety Certification Label, found on the driver's door pillar, lists several important vehicle weight rating limitations. Before adding any additional equipment, refer to these limitations. If you are adding weight to the front of your vehicle, (potentially including weight added to the cab), the weight added should not exceed the front axle reserve capacity (FARC). Additional frontal weight may be added to the front axle reserve capacity provided you limit your payload in other ways (i.e. restrict the number of occupants or amount of cargo carried).

Always ensure that the weight of occupants, cargo and equipment being carried is within the weight limitations that have been established for your vehicle including both gross vehicle weight and front and rear gross axle weight rating limits. Under no circumstance should these limitations be exceeded.

Exceeding any vehicle weight rating limitation could result in serious damage to the vehicle loss of vehicle control, vehicle rollover, and/or personal injury.

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 this chapter.

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.

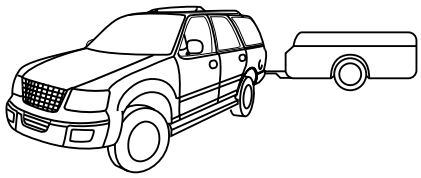
Calculating the load your vehicle can carry/tow

1. Use the appropriate maximum gross combined weight rating (GCWR) chart (in the *Trailer Towing* section) to find the maximum GCWR for your type engine and rear axle ratio.

2. Weigh your vehicle as you customarily operate the vehicle without cargo. To obtain correct weights, try taking your vehicle to a shipping company or an inspection station for trucks.

3. Subtract your loaded vehicle weight from the maximum GCWR on the following charts. This is the maximum trailer weight your vehicle can tow and must fall below the maximum shown under maximum trailer weight on the chart.

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 800 km (500 miles).
- Refer to the instructions included with towing accessories for the proper installation and adjustment specifications.

Your vehicle is equipped with heavy duty trailer tow wiring. An electrical connector is provided under the instrument panel for installing a customer-supplied electric brake controller. A Class I (4–pin) electrical connector and Class II/III/IV (7–pin) electrical connector are provided at the hitch. These connectors provide power to the trailer for taillamps, stop and turn lamps, back up lamps, battery charge, electric brakes (when a customer provided controller is installed) and ground. A kit containing a wiring harness/adapter and installation instructions to attach an electric brake controller may be obtained from any Ford or Lincoln/Mercury dealer (part number 2L1Z–14A348–AB). Before towing a trailer, make sure the trailer brakes (if equipped) and lamps are properly connected and functional. Refer to the brake controller instructions to check for trailer brake functionality.

Engine	Rear axle ratio	Maximum GCWR - kg (lbs.)	Trailer weight range (0 - maximum) kg (lbs.)
4x2			
4.6L	All	4762 (10500)	0-2268 (0-5000)
5.4L	All	6577 (14500)	0–4060 (0–8950)
4x4			
4.6L	All	4853 (10700)	0-2268 (0-5000)
5.4L	All	6577 (14500)	0–3924 (0–8650)
Maximum frontal area of trailer is 5.6 square meters (60 square feet)			

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.

If your vehicle is equipped with AdvanceTrac™, you may experience AdvanceTrac™ 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.

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 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.

Mode	Maximum Gross Trailer Weight - kg (lbs.)	Maximum Tongue Weight - kg (lbs.)
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 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 0–13 mm (0.5 in) of the reference point. After proper adjustment, the rear bumper should be no higher than in Step 3.

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 your trailer lamps conform to local and Federal regulations. See your dealer or trailer rental agency for proper instructions and equipment for hooking up trailer lamps.

Driving while you tow

When towing a trailer:

- Turn off the speed control. The speed control may shut off automatically when you are towing on long, steep grades.

- Consult your local motor vehicle speed regulations for towing a trailer.
- To eliminate excessive shifting, use a lower gear. This will also assist in transmission cooling. (For additional information, refer to the *Understanding the positions of the 4–speed automatic transmission* section in this chapter.
- Anticipate stops and brake gradually.
- Do not exceed the GCWR rating or transmission damage may occur.

Servicing after towing

If you tow a trailer for long distances, your vehicle will require more frequent service intervals. Refer to your scheduled maintenance guide 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.
- After you have traveled 80 km (50 miles), thoroughly check your hitch, electrical connections and trailer wheel lug nuts.
- To aid in engine/transmission cooling and A/C efficiency during hot weather while stopped in traffic, place the gearshift lever in P (Park).
- Vehicles with trailers should not be parked on a grade. If you must park on a grade, place wheel chocks under the trailer's wheels.

Launching or retrieving a boat

Disconnect the wiring to the trailer before backing the trailer into the water. Reconnect the wiring to the trailer after the trailer is removed from the water.

When backing down a ramp during boat launching or retrieval:

- do not allow the static water level to rise above the bottom edge of the rear bumper.
- do not allow waves to break higher than 15 cm (6 inches) 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 56 km (35 mph)
- Maximum distance is 80 km (50 miles)

If a distance of 80 km (50 miles) or a speed of 56 km (35 mph) 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. See your local dealer for driveshaft removal/installation.

Improper removal/installation of the driveshaft can cause transmission fluid loss, damage to the driveshaft and internal transmission components.

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 local dealer if you must flat-tow a vehicle equipped with the Control Trac four-wheel drive system.

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 60,000 km (36,000 miles), whichever occurs first on Ford and Mercury vehicles, and four years or 80,000 km (50,000 miles) on Lincoln vehicles.

Roadside assistance will cover:

- changing a flat tire
- jump-starts
- lock-out assistance
- limited fuel delivery
- towing of your disabled vehicle to the nearest Ford Motor Company dealership, or your selling dealer if within 56.3 km (35 miles) of the nearest Ford Motor Company dealership (one tow per disablement). Even non-warranty related tows, like accidents or getting stuck in the mud or snow, are covered (some exclusions apply, such as impound towing or repossession).

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 Ford vehicles and is mailed to you if you own a Mercury or Lincoln. 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

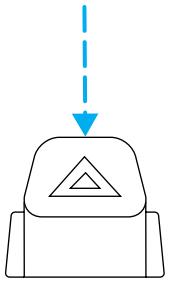
In the United States, you may purchase additional roadside assistance coverage beyond this period through the Ford Auto Club by contacting your Ford or Lincoln Mercury dealer.

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.

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.

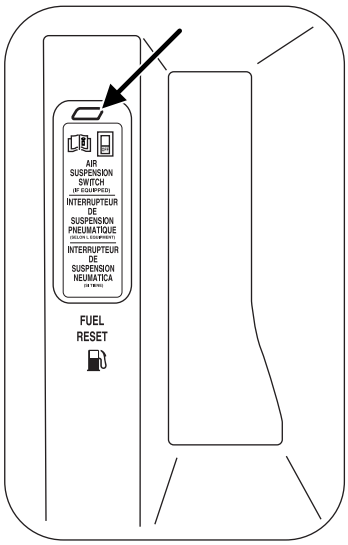


FUEL PUMP SHUT-OFF SWITCH FUEL RESET

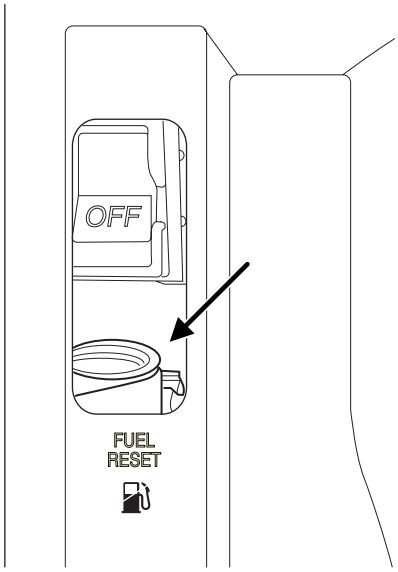
This device stops the electric fuel pump from sending fuel to the engine when your vehicle has had a substantial jolt.

After an accident, if the engine cranks but does not start, this 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 two access panels; the second panel has a tab that needs to be pushed down to remove the access panel door.



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). If the vehicle is not equipped with air suspension, the fuel pump shut-off switch's red reset button will still be visible behind this access panel.



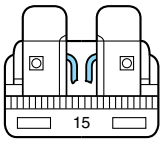
Use the following procedure to reset the fuel pump shut-off switch.

1. Turn the ignition to the OFF position.
2. Check the fuel system for leaks.
3. If no fuel leak is apparent, reset the fuel pump shut-off switch by pushing in on the reset button.
4. Turn the ignition to the ON position. Pause for a few seconds and return the key to the OFF position.
5. Make a further check for leaks in the fuel system.

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.

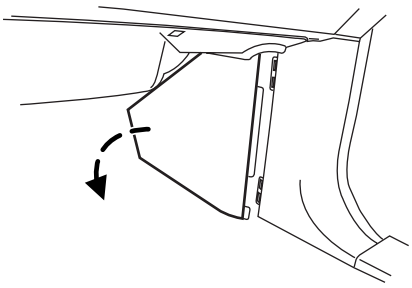
Standard fuse amperage rating and color

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

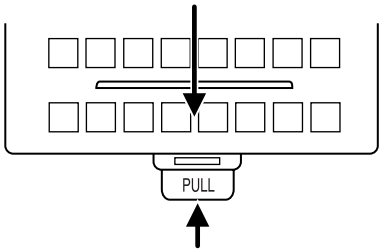
Passenger compartment fuse panel / power distribution box

The fuse panel is located under the right-hand side of the instrument panel.

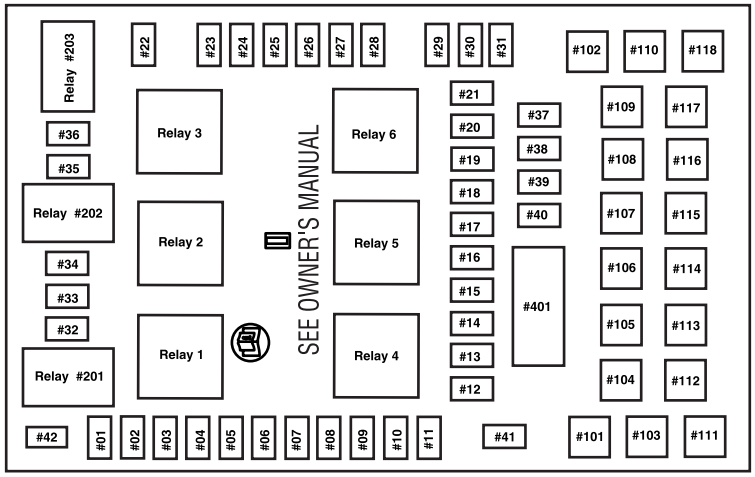
To remove the trim panel for access to the fuse box, pull the panel toward you and swing it out away from the side and remove it. To reinstall it, line up the tabs with the grooves on the panel, then push it shut.



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.



The fuses are coded as follows.

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
1	10A*	Run/Accessory - Front wiper motor, Instrument cluster, Rear wiper motor, Tire Pressure Monitor System (TPMS) module
2	20A*	Turn signal/Hazard flasher, Stoplamp switch, IVD (AdvanceTrac) stoplamps relay, 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)

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
4	15A*	DVD player, Rear seat audio controls, CDDJ (navigation radio)
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), Speed control servo, 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	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)

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
11	10A*	A/C compressor clutch relay, A/C compressor clutch solenoid, Air suspension compressor relay, 4x4 Integrated Wheel Ends (IWE) solenoid
12	10A*	Speed control servo, Speed control relay
13	10A*	Manual climate control mode switch, Rear window defroster relay coil, A/C refrigerant containment switch, A/C compressor thermistor, DEATC control head, DEATC solenoids, DEATC 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, Navigation radio, Manual A/C blend door actuator
15	5A*	AdvanceTrac™ switch, Instrument cluster (Run/Start feed)
16	10A*	ABS/AdvanceTrac™ module (Run/Start feed)
17	15A*	Foglamps

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
18	10A*	Auxiliary A/C temperature blend door actuator, Auxiliary A/C front auxiliary control, Turn signal flasher, Electrochromatic mirror, Auxiliary mode motor, Climate controlled seat modules
19	10A*	Restraints Control Module (RCM)
20	30A*	Air suspension module (air spring solenoids and height sensors), 4x4 module
21	15A*	Instrument cluster (B+), Interior (courtesy) lamps, Puddle lamps (outside mirrors), Tire Pressure Monitoring System (TPMS) module
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
25	10A*	LH low beam
26	20A*	Horn relay, Horns

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
27	5A*	Compass module, Reverse sensing system module, Brake shift interlock (BSI) solenoid, Overdrive cancel switch, Air suspension module (Run/Start sense)
28	5A*	PCM relay coil, Speed control relay coil, SecuriLock transceiver
29	30A*	Trailer tow electric brake controller, Trailer tow 7–wire connector (electric brake)
30	30A*	BSM (door locks, liftgate glass release relay), Liftgate glass release motor, Door/Liftgate lock motors
31	25A*	Radio (B+), Subwoofer
32	15A*	Catalyst Monitor Sensors (CMS), Transmission solenoids
33	20A*	Canister vent solenoid, HEGO sensors, VMV solenoid, Intake Manifold Tuning Valve (IMTV-4.6L engine) solenoid, A/C compressor clutch relay coil, EGR vacuum regulator (EVR) solenoid
34	20A*	PCM, Fuel injectors, Fuel pump relay, Fuel pump shut-off switch, Fuel pump motor, Idle air control (IAC) solenoid, 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

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
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)
41	20A*	Cigar 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 ™ module (pump motor)
104	30A**	LH 3rd row seat relay, LH 3rd row seat switch, LH 3rd row seat motor
105	40A**	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

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
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™ 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)
115	30A**	4x4 module, Transfer case shift motor
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**	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, DVD, Navigation antenna amplifier

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
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
R203	PCM relay	Fuse 32, Fuse 33, Fuse 34, Fuel pump relay, Fuel pump, PCM solenoids and sensors
R301	Trailer tow back-up lamp relay	Trailer tow 7–wire connector (back-up lamps)
R302	Speed control relay	Speed control servo
R303	Fuel pump relay	Fuel pump shut-off switch, PCM (fuel pump monitor), Fuel pump
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 dealer or a qualified technician 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.

The use of tire sealants is not recommended and may compromise the integrity of your tires. The use of tire sealants may also affect your tire pressure monitoring system (if equipped).

Spare tire information

Your vehicle is equipped with a spare tire that may be used as a spare or a regular tire. If your vehicle is equipped with TPMS, the spare wheel is identical to the other wheels on your vehicle. If your vehicle is not equipped with TPMS, the spare wheel does not have a TPMS sensor and will not match the other wheels.

If your vehicle is equipped with TPMS, have the flat tire serviced by a dealer or qualified technician so the TPMS sensor will not be damaged. 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

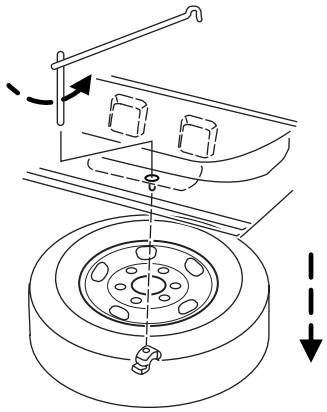
Removing the jack and tools

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.

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

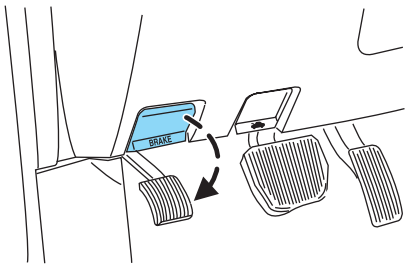
To prevent the vehicle from moving when you change a tire, be sure the parking brake is set, then block (in both directions) the wheel that is diagonally opposite (other side and end of the vehicle) to the tire being changed.

If the vehicle slips off the jack, you or someone else could be seriously injured.

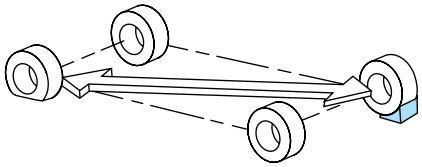
On vehicles equipped with Air Suspension, turn OFF the Air Suspension switch prior to jacking, hoisting or towing your vehicle.

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.

1. Park on a level surface, activate hazard flashers and set the parking brake.

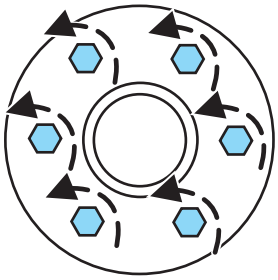


2. Place gearshift lever in P (Park), turn engine OFF and block the diagonally opposite wheel. (If changing the tire on a grade, block the diagonally opposite wheel on the downward side of the grade.)

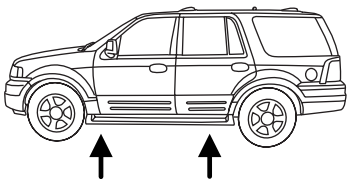


3. Obtain the spare tire and jack tools from their storage locations.

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.

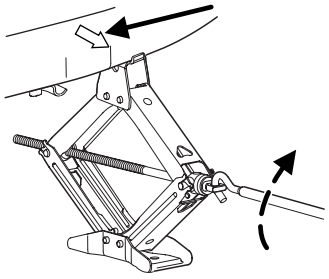


5. Position the jack according to the jack locator arrows found on the frame and turn the jack handle and extension tool assembly clockwise. Lift the vehicle so the tire is no further than 2.5 cm (1 inch) off the ground when installing the spare tire.

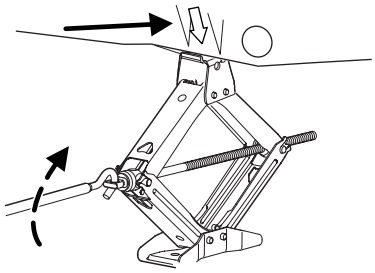


When one of the rear wheels is off the ground, the transmission alone will not prevent the vehicle from moving or slipping off the jack, even if the transmission is in P (Park). To prevent the vehicle from moving when you change the tire, be sure that the parking brake is set and the diagonally opposite wheel is blocked. If the vehicle slips off the jack, someone could be seriously injured.

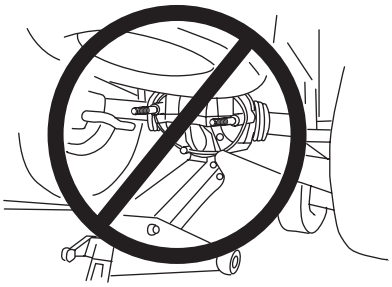
- Front



- 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.



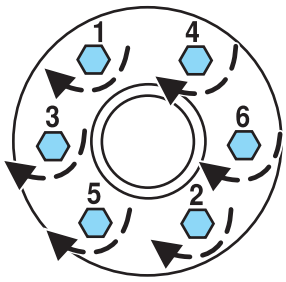
- **Never use the front or rear differential as a jacking point.**

6. Remove the lug nuts with the lug wrench.

7. 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.

8. Lower the wheel by turning the jack handle counterclockwise.

9. Remove the jack and fully tighten the lug nuts in the order shown and reinstall the wheel cover.



10. Unblock the wheels.

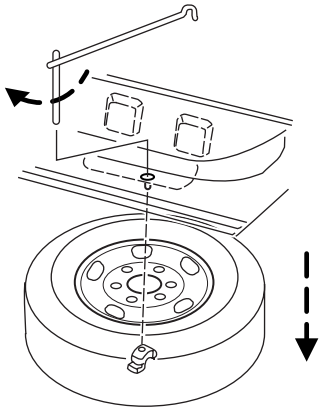
11. Put flat tire, jack, lug wrench and tools away. Make sure the jack is fastened securely so it does not rattle when you drive.

12. Turn on the air suspension switch (if equipped).

Stowing the spare tire

1. Lay the tire on the ground, near the rear of the vehicle, with the valve stem side facing up.

2. 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.



3. 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.

4. 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.

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).

JUMP STARTING YOUR VEHICLE

The gases around the battery can explode if exposed to flames, sparks, or lit cigarettes. An explosion could result in injury or vehicle damage.

Batteries contain sulfuric acid which can burn skin, eyes and clothing, if contacted.

Do not attempt to push-start your vehicle. Automatic transmissions do not have push-start capability; doing so may damage the catalytic converter.

Preparing your vehicle

When the battery is disconnected or a new battery is installed, the transmission must relearn its shift strategy. As a result, the transmission may have firm and/or soft shifts. This operation is considered normal and will not affect function or durability of the transmission. Over time, the adaptive learning process will fully update transmission operation.

1. **Use only a 12–volt supply to start your vehicle.**

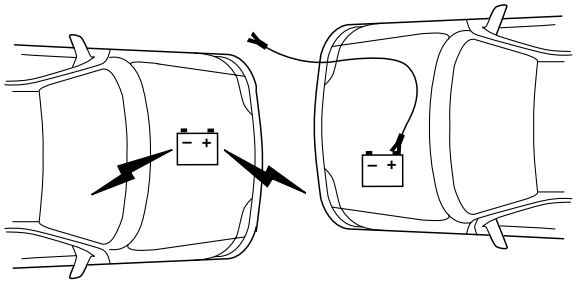
2. Do not disconnect the battery of the disabled vehicle as this could damage the vehicle's electrical system.

3. Park the booster vehicle close to the hood of the disabled vehicle making sure the two vehicles **do not** touch. Set the parking brake on both vehicles and stay clear of the engine cooling fan and other moving parts.

4. Check all battery terminals and remove any excessive corrosion before you attach the battery cables. Ensure that vent caps are tight and level.

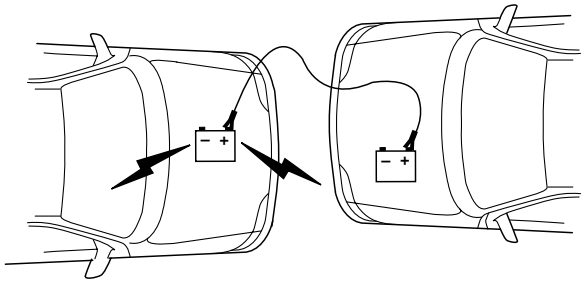
5. Turn the heater fan on in both vehicles to protect any electrical surges. Turn all other accessories off.

Connecting the jumper cables

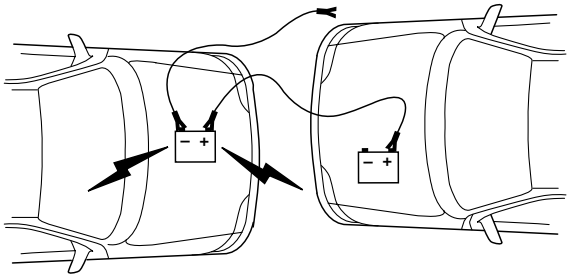


1. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.

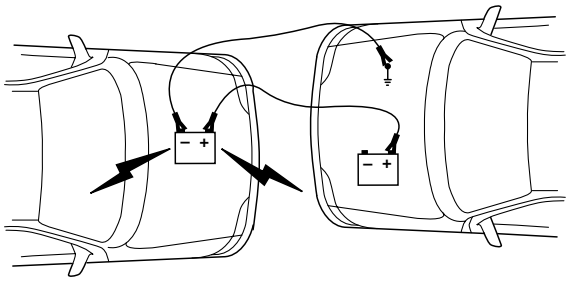
Note: In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.

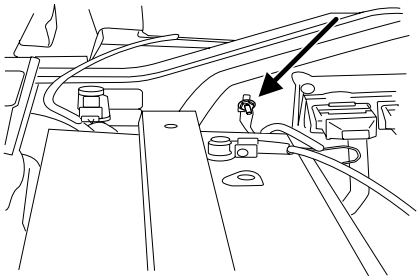


2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.



3. Connect the negative (-) cable to the negative (-) terminal of the assisting battery.





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.

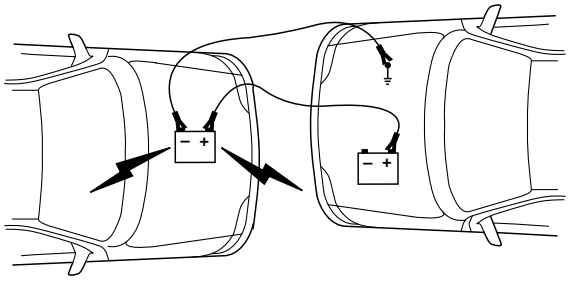
Jump starting

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.

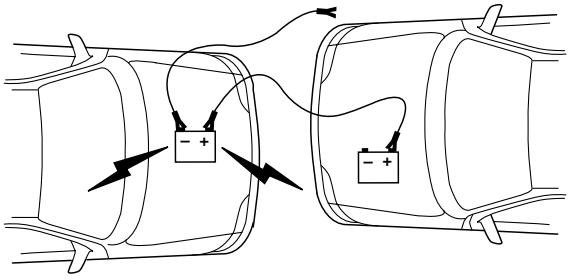
Removing the jumper cables



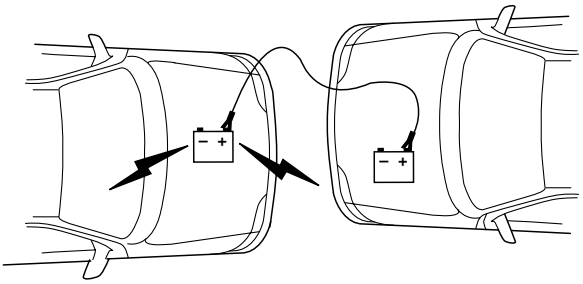
Remove the jumper cables in the reverse order that they were connected.

1. Remove the jumper cable from the *ground* metal surface.

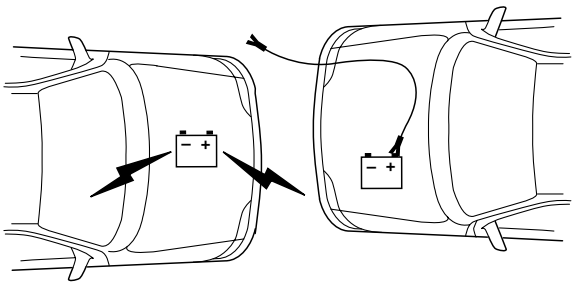
Note: In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.



2. Remove the jumper cable on the negative (-) connection of the booster vehicle's battery.



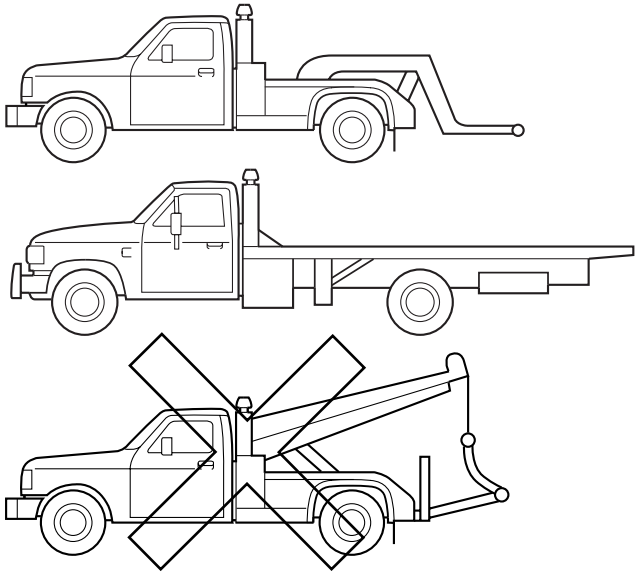
3. Remove the jumper cable from the positive (+) terminal of the booster vehicle's battery.



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.

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.

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.

If the vehicle is towed by other means or incorrectly, vehicle damage may occur.

Roadside Emergencies

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 80 km (50 miles).
- Do not exceed 56 km/h (35 mph) 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.

GETTING THE SERVICES YOU NEED

At home

Ford Motor Company and Ford of Canada have authorized dealerships to service your vehicle. It is preferred that you return to the authorized dealer where your vehicle was purchased when warranty repairs are needed. However, you may also take your vehicle to another Ford Motor Company or Ford of Canada dealership authorized for warranty repairs. Certain warranty repairs require special training though, so not all dealers are authorized to perform all warranty repairs. That means that depending on the warranty repair needed, the vehicle may need to be taken to another dealer. If a particular dealership cannot assist you, then contact the Customer Relationship Center.

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 dealership.

2. If your inquiry or concern remains unresolved, contact the Sales Manager or Service Manager at the dealership.

3. If the inquiry or concern cannot be resolved at the dealership level, please contact the Ford Customer Relationship Center.

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 dealership could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealership to help you.

In the United States:

Ford Motor Company
Customer Relationship Center
P.O. Box 6248
Dearborn, Michigan 48121
1-800-392-3673 (FORD)
(TDD for the hearing impaired: 1-800-232-5952)
www.ford.com, click on “contact us”

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 dealership could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealership to help you.

In the United States:
Ford Motor Company
Customer Relationship Center
P.O. Box 6248
Dearborn, Michigan 48121
1-800-521-4140
(TDD for the hearing impaired: 1-800-232-5952)
www.ford.com, click on “contact us”

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 dealer and the city where the dealership is located
- The year and make of your vehicle
- The date of vehicle purchase
- The current odometer reading
- The vehicle identification number (VIN)

If you still have a complaint involving a warranty dispute, you may wish to contact the Dispute Settlement Board (U.S.).

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 Dispute Settlement Board 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.

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. Ford ESP is an optional service contract which is backed by Ford Motor Company or Ford Motor Service Company (in the U.S.) and Ford of Canada (in Canada). 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 Ford and Lincoln Mercury and Ford of Canada 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 5,000 participating Ford or Lincoln Mercury and Ford of Canada 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 dealer for complete details about Ford Extended Service Plan coverage options, or visit the Ford ESP website at www.ford-esp.com.

THE DISPUTE SETTLEMENT BOARD (U.S. ONLY)

The Dispute Settlement Board is:

- an independent, third-party arbitration program for warranty disputes.
- available free to owners and lessees of qualifying Ford Motor Company vehicles.

The Dispute Settlement Board may not be available in all states. Ford Motor Company reserves the right to change eligibility limitations, modify procedures and/or to discontinue this service without notice and without incurring obligations per applicable state law.

What kinds of cases does the Board review?

Unresolved warranty repair concerns or vehicle performance concerns as on Ford and Lincoln Mercury cars and Ford and Lincoln Mercury light trucks which are within the terms of any applicable written new vehicle warranty are eligible for review, except those involving:

- a non-Ford product
- a non-Ford dealership
- sales disputes between customer and dealer except those associated with warranty repairs or concerns with the vehicle's performance as designed
- a request for reimbursement of consequential expenses unless a service or product concern is being reviewed
- items not covered by the New Vehicle Limited Warranty (including maintenance and wear items)
- alleged personal injury/property damage claims
- cases currently in litigation
- vehicles not used primarily for family, personal or household purposes (except in states where the Dispute Settlement Board is required to review commercial vehicles)
- vehicles with non-U.S. warranties

Concerns are ineligible for review if the New Vehicle Limited Warranty has expired at receipt of your application and, in certain states eligibility is dependent upon the customer's possession of the vehicle.

Eligibility may differ according to state law. For example, see the unique brochures for California, West Virginia, Georgia and Wisconsin purchasers/lessees.

Board membership

The Board consists of:

- Three consumer representatives
- A Ford or Lincoln Mercury dealership representative

Consumer candidates for Board membership are recruited and trained by an independent consulting firm. The dealership Board member is chosen from Ford and Lincoln Mercury dealership management, recognized for their business leadership qualities.

What the Board needs

To have your case reviewed you must complete the application in the DSB brochure and mail it to the address provided on the application form. Some states will require you to use certified mail, with return receipt requested.

Your application is reviewed and, if it is determined to be eligible, you will receive an acknowledgment indicating:

- The file number assigned to your application.
- The toll-free phone number of the DSB's independent administrator.

Your dealership and a Ford Motor Company representative will then be asked to submit statements.

To properly review your case, the Board needs the following information:

- Legible copies of all documents and maintenance or repair orders relevant to the case.
- The year, make, model, and Vehicle Identification Number (VIN) listed on your vehicle ownership license.
- The date of repair(s) and mileage at the time of occurrence(s).
- The current mileage.
- The name of the dealer(s) who sold or serviced the vehicle.
- A brief description of your unresolved concern.
- A brief summary of the action taken by the dealer(s) and Ford Motor Company.
- The names (if known) of all the people you contacted at the dealership(s).
- A description of the action you expect to resolve your concern.

You will receive a letter of explanation if your application does not qualify for Board review.

Oral presentations

If you would like to make an oral presentation, indicate YES to question 6 on the application. While it is your right to make an oral presentation before the Board, this is not a requirement and the Board will decide the case whether or not an oral presentation is made. An oral presentation may be requested by the Board as well.

Making a decision

Board members review all available information related to each complaint, including oral presentations, and arrive at a fair and impartial decision. Board review may be terminated at any time by either party.

Every effort is made to decide the case within 40 days of the date that all requested information is received by the Board. Since the Board generally meets once a month, it may take longer for the Board to consider some cases.

After a case is reviewed, the Board mails you a decision letter and a form on which to accept or reject the Board's decision. The decisions of the Board are binding on Ford (and, in some cases, on the dealer) but not on consumers who are free to pursue other remedies available to them under state or federal law.

To request a DSB Brochure/Application

For a brochure/application, speak to your dealer or write/call to the Board at the following address/phone number:

Dispute Settlement Board
P.O. Box 5120
Southfield, MI 48086–5120
1–800–428–3718

You may also contact the North American Customer Relationship Center at 1-800-392-3673 (Ford), TDD for the hearing impaired: 1-800-232-5952 or by writing to the Center at the following address:

Ford Motor Company
Customer Relationship Center
P.O. Box 6248
Dearborn, Michigan 48121

UTILIZING THE MEDIATION/ARBITRATION PROGRAM (CANADA ONLY)

In those cases where you continue to feel that the efforts by Ford and the 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; 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.

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 district 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.

In the United States, using leaded fuel may also result in difficulty importing your vehicle back into the U.S.

Customer Assistance

If your vehicle must be serviced while you are traveling or living in Central or South America, the Caribbean, or the Middle East, contact the nearest Ford dealership. If the dealership 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 Ford dealership. If the dealership 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.

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

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 dealer or by writing to Ford Motor Company of Canada, Limited, Service Publications, P.O. Box 1580, Station B, Mississauga, Ontario L4Y 4G3.

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 29,000 km (18,000 miles), whichever occurs first:

1. Two or more repair attempts are made on the same nonconformity 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

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 either call the Auto Safety Hotline toll-free at 1–800–424–9393 (or 366–0123 in the Washington D.C. area) or write to:

NHTSA
400 Seventh Street
U.S. Department of Transportation
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from the Hotline.

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 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 carwash 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.**

WAXING

Applying a polymer paint sealant 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.
- 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.

Cleaning

PAINT CHIPS

Your 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 jam) to your 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:

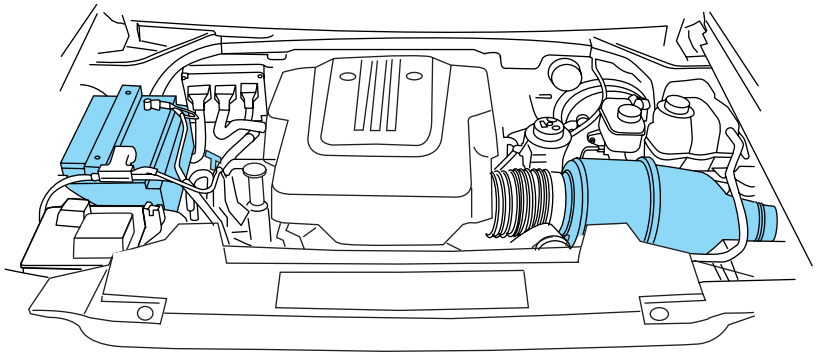
- Clean weekly with Motorcraft Wheel and Tire Cleaner (ZC-37–A), which is available from your dealer. Heavy dirt and brake dust accumulation may require agitation with a sponge. Rinse thoroughly with a strong stream of water.
- Never apply any cleaning chemical to hot or warm wheel rims or covers.
- 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 dealer.

ENGINE

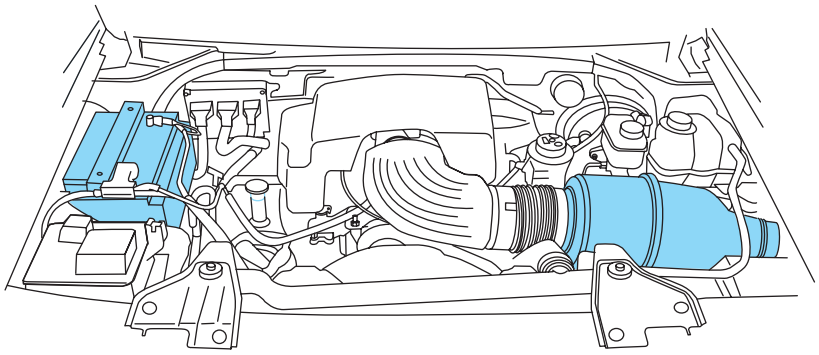
Engines are more efficient when they are clean because grease and dirt buildup keep the engine warmer than normal. When washing:

- Take care when using a power washer to clean the engine. The high-pressure fluid could penetrate the sealed parts and cause damage.
- Do not spray a hot engine with cold water to avoid cracking the engine block or other engine components.
- Spray Motorcraft Engine Shampoo and Degreaser (ZC-20) on all parts that require cleaning and pressure rinse clean.

- Cover the highlighted areas to prevent water damage when cleaning the engine.



- **4.6L V8 engine**



- **5.4L V8 engine**
- Never wash or rinse the engine while it is running; water in the running engine may cause internal damage.

Cleaning

PLASTIC (NON-PAINTED) EXTERIOR PARTS

Use only approved products to clean plastic parts. These products are available from your 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).

WINDOWS AND WIPER BLADES

The windshield, rear window and wiper blades should be cleaned regularly. If the wiper does not wipe properly, substances on the windshield, rear window or the wiper blades may be the cause. These may include hot wax treatments used by commercial car washes, tree sap, or other organic contamination. To clean these items, please follow these tips:

- The windshield or rear window may be cleaned with a non-abrasive cleaner such as Motorcraft Ultra Clear Spray Glass Cleaner (ZC-23), available from your dealer.
- Do not use abrasives, as they may cause scratches.
- Do not use fuel, kerosene, or paint thinner to clean any parts.
- Wiper blades can be cleaned with isopropyl (rubbing) alcohol or windshield washer solution. Be sure to replace wiper blades when they appear worn or do not function properly.

INSTRUMENT PANEL AND CLUSTER LENS

Clean the instrument panel with a damp cloth, then dry with a dry cloth.

- 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 air bag system.

- Be certain to wash or wipe your hands clean if you have been in contact with certain products such as insect repellent and suntan lotion in order to avoid possible damage to the interior painted surfaces.

INTERIOR

For fabric, carpets, cloth seats and safety belts:

- Remove dust and loose dirt with a vacuum cleaner.
- Remove light stains and soil with Motorcraft Extra Strength Upholstery Cleaner (ZC-41).
- If grease or tar is present on the material, spot-clean the area first with Motorcraft Spot and Stain Remover (ZC-14).
- Never saturate the seat covers with cleaning solution.
- 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 TRIMMED SEATS (IF EQUIPPED)

The leather trim has a clear, protective coating over the leather.

- To clean, use a soft cloth with Motorcraft Deluxe Leather and Vinyl Cleaner (ZC-11–A). Dry the area with a soft cloth.
- To help maintain its resiliency and color, use the Motorcraft Deluxe Leather Care Kit (ZC-11–D), available from your authorized dealer.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing of the clear, protective coating.

UNDERBODY

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

Cleaning

FORD, LINCOLN AND MERCURY CAR CARE PRODUCTS

Your Ford, Lincoln or Mercury 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 Custom Clearcoat Polish (ZC–8–A)

Ford Custom Vinyl Protectant* (not available in Canada) (F2AZ—19530–A)

Motorcraft Vinyl Cleaner (Canada only) (CXC-93)

Motorcraft Vinyl Conditioner (Canada only) (CXC-94)

Motorcraft Deluxe Leather and Vinyl Cleaner (not available in Canada) (ZC-11–A)

Motorcraft Bug and Tar Remover (not available in Canada) (ZC-42)

Motorcraft Extra Strength Upholstery Cleaner (not available in Canada) (ZC-41)

Motorcraft Custom Bright Metal Cleaner (ZC-15)

Motorcraft Wheel and Tire Cleaner (ZC-37–A)

Motorcraft Dash and Vinyl Cleaner (ZC-38–A)

Motorcraft Car Care Kit (ZC-26)

Ford Premium Car Wash Concentrate (F2SZ-19523–WC)

Motorcraft Carlite Glass Cleaner (Canada only) (CXC-100)

Motorcraft Spot and Stain Remover (ZC-14)

Motorcraft Detail Wash (ZC-3–A)

Motorcraft Tire Clean and Shine(ZC-28)

Motorcraft Triple Clean (ZC-13)

Motorcraft Ultra-Clear Spray Glass Cleaner (not available in Canada) (ZC-23)

Motorcraft Engine Shampoo and Degreaser (ZC-20)

* May be sold with the Motorcraft name

SERVICE RECOMMENDATIONS

To help you service your vehicle:

- We highlight do-it-yourself items in the engine compartment for easy location.
- We provide a scheduled maintenance guide which makes tracking routine service easy.

If your vehicle requires professional service, your dealership 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.

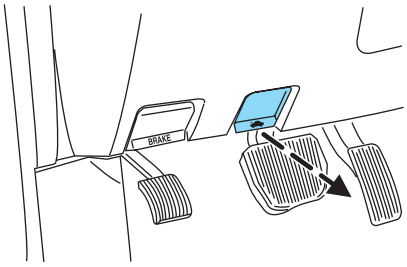
Working with the engine on

1. Set the parking brake and shift to P (Park).
2. Block the wheels.

Note: Do not start your engine with the air cleaner removed and do not remove it while the engine is running.

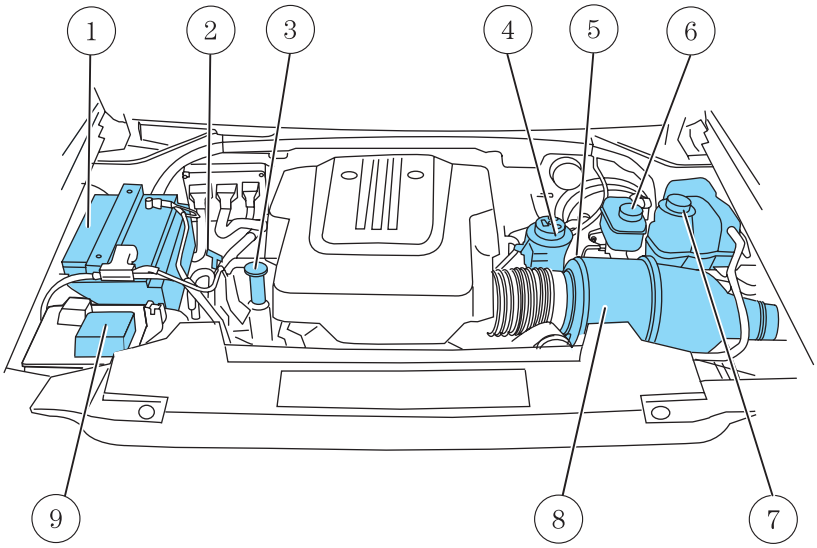
OPENING THE HOOD

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.



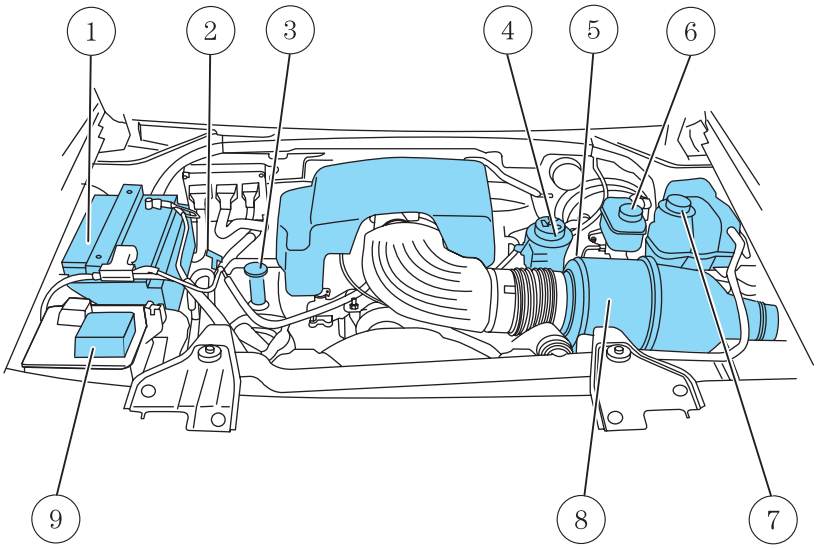
IDENTIFYING COMPONENTS IN THE ENGINE COMPARTMENT

4.6L V8 engines



1. Battery
2. Automatic transmission fluid dipstick
3. Engine oil filler cap
4. Power steering fluid reservoir
5. Engine oil dipstick
6. Brake fluid reservoir
7. Engine coolant reservoir
8. Air filter assembly
9. Windshield washer fluid reservoir

5.4L V8 engines

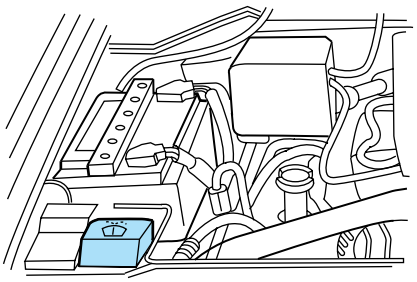


1. Battery
2. Automatic transmission fluid dipstick
3. Engine oil filler cap
4. Power steering fluid reservoir
5. Engine oil dipstick
6. Brake fluid reservoir
7. Engine coolant reservoir
8. Air filter assembly
9. Windshield washer fluid reservoir

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. 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 4.5° C (40° F), 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.

ENGINE OIL

Checking the engine oil

Refer to the scheduled maintenance guide for the appropriate intervals for checking the engine oil.

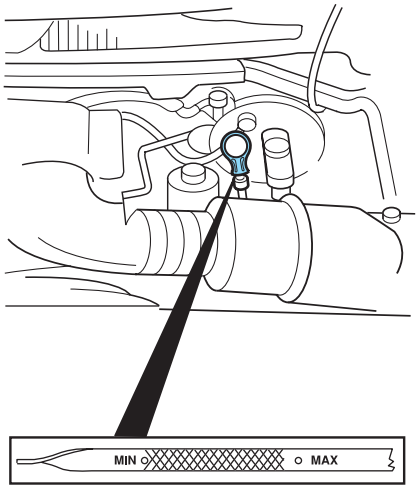
1. Make sure the vehicle is on level ground.

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).

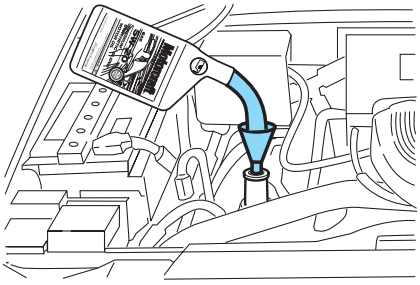
4. Open the hood. Protect yourself from engine heat.

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 **between the MIN and MAX marks,** the oil level is acceptable. **DO NOT ADD OIL.**
- If the oil level is below the MIN mark, add enough oil to raise the level within the MIN-MAX range.



- Oil levels above the MAX mark may cause engine damage. Some oil must be removed from the engine by a service technician.

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 MAX mark on the engine oil level indicator (dipstick).

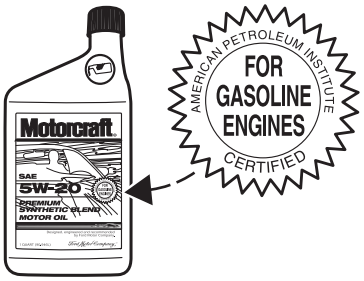
4. Install the indicator and ensure it is fully seated.

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.

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). To protect your engine’s warranty use Motorcraft SAE 5W-20 or an equivalent 5W-20 oil meeting Ford specification WSS-M2C153–H. **SAE 5W-20 oil provides optimum fuel economy and durability performance meeting all requirements for your vehicle’s engine**.

Do not use supplemental engine oil additives, cleaners or other engine treatments. They are unnecessary and could lead to engine damage that is not covered by Ford warranty.

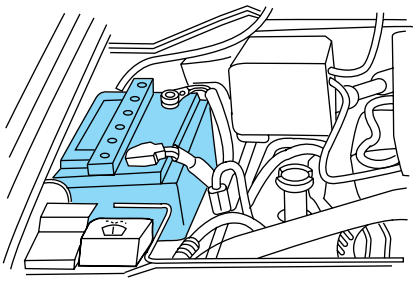
Change your engine oil according to the appropriate schedule listed in the scheduled maintenance guide.

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.

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 guide 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.

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 see “Shift strategy” in the driving section.

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 kilometers (miles) of operation.

If the shift quality does not improve within a few hundred kilometers (miles) of operation, or if the downshifts and other throttle conditions do not function normally or after a long deceleration period, see your dealer or a qualified service technician as soon as possible.

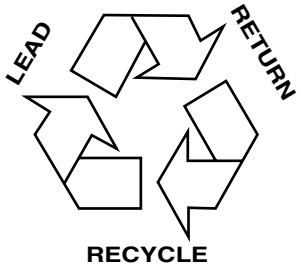
Because your vehicle's engine is also electronically controlled by a computer, some control conditions are maintained by power from the battery. When the battery is disconnected or a new battery is installed, the engine must relearn its idle and fuel trim strategy for optimum driveability and performance. 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 16 km (10 miles) 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

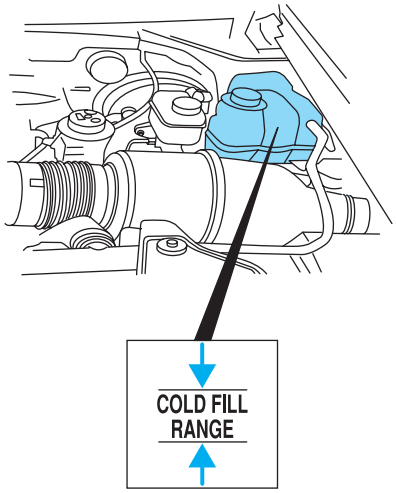
Checking engine coolant

The concentration and level of engine coolant should be checked at the mileage intervals listed in the scheduled maintenance guide. The coolant concentration should be maintained at 50/50 coolant and distilled water, which equates to a freeze point of -36° C (-34° F). 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 "cold full" of "cold fill range" level in the coolant reservoir. If the level falls below, add coolant per the instructions in the *Adding engine coolant* section.

Your vehicle was factory-filled with a 50/50 engine coolant and water concentration. If the concentration of coolant falls below 40% or above 60%, the engine parts could become damaged or not work properly. **A 50–50 mixture of coolant and water provides the following:**

- **Freeze protection down to -36° C (-34° F).**
- **Boiling protection up to 129° C (265° F).**
- **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 "cold fill level" or within the "cold fill range" as listed on the engine coolant reservoir (depending upon application).

- Refer to the Scheduled Maintenance Guide for service interval schedules.
- Be sure to read and understand *Precautions when servicing your vehicle* in this chapter.

If the engine coolant has not been checked at the recommended interval, the engine coolant reservoir may become low or empty. If the reservoir is low or empty, add engine coolant to the reservoir. Refer to *Adding engine coolant* in this chapter.

Note: Automotive fluids are not interchangeable; do not use engine coolant, antifreeze or windshield washer fluid outside of its specified function and vehicle location.

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 Motorcraft Premium Gold Engine Coolant (yellow-colored), VC-7–A (VC-7–B in Oregon), meeting Ford Specification WSS-M97B51–A1.**

Note: Use of Motorcraft Cooling System Stop Leak Pellets, VC-6, 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 Speciality Orange Engine Coolant, VC-2 (US) or CXC-209 (Canada), meeting Ford specification WSS-M97B44–D with the factory-filled coolant.** Mixing Motorcraft Speciality Orange Engine Coolant or any orange-colored extended life product with your factory filled coolant can result in degraded corrosion protection.

- A large amount of water without engine coolant may be added, in case of emergency, to reach a vehicle service location. In this instance, the cooling system must be drained and refilled with a 50/50 mixture of engine coolant and distilled water as soon as possible. Water alone (without engine coolant) can cause engine damage from corrosion, overheating or freezing.
- **Do not use alcohol, methanol, brine or any engine coolants mixed with alcohol or methanol antifreeze (coolant).** Alcohol and other liquids can cause engine damage from overheating or freezing.
- **Do not add extra inhibitors or additives to the coolant.** These can be harmful and compromise the corrosion protection of the engine coolant.

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 "cold full" 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 (an opaque 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 "cold full" 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* section. If the concentration is not 50/50 (protection to –34° F/–36° C), drain some coolant and adjust the concentration. It may take several drains and additions to obtain a 50/50 coolant concentration.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough 50/50 concentration of engine coolant and distilled water to bring the liquid level to the proper level.

If you have to add more than 1.0 liter (1.0 quart) of engine coolant per month, have your dealer check the engine cooling system. Your cooling system may have a leak. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

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 chapter.

Fill your engine coolant reservoir as outlined in *Adding engine coolant* in this chapter.

Severe climates

If you drive in extremely cold climates (less than –36° C [–34° F]):

- **It may be necessary to increase the coolant concentration above 50%.**
- **NEVER increase the coolant concentration above 60%.**
- **Increased engine coolant concentrations above 60% will decrease the overheat protection characteristics of the engine coolant and may cause engine damage.**
- **Refer to the chart on the coolant container to ensure the coolant concentration in your vehicle will provide adequate freeze protection at the temperatures in which you drive in the winter months.**

If you drive in extremely hot climates:

- **It is still necessary to maintain the coolant concentration above 40%.**
- **NEVER decrease the coolant concentration below 40%.**
- **Decreased engine coolant concentrations below 40% will decrease the corrosion protection characteristics of the engine coolant and may cause engine damage.**
- **Decreased engine coolant concentrations below 40% will decrease the freeze protection characteristics of the engine coolant and may cause engine damage.**
- **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.

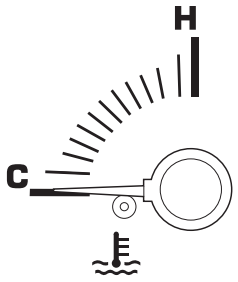
What you should know about fail-safe cooling

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.
- The HI TEMP/LOW OIL indicator will illuminate.
- The “Service Engine Soon” indicator light will illuminate.



If the engine reaches a preset over-temperature condition, the engine will automatically switch to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

When this occurs the vehicle will still operate. However:

- The engine power will be limited.
- The air conditioning system will be disabled.

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 a service facility as soon as possible to minimize engine damage.

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 a service facility.
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 a service facility.

Driving the vehicle without repairing the engine problem increases the chance of engine damage. Take your vehicle to a service facility as soon as possible.

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.

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

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

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.

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

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

Fuel Filler Cap

Your fuel tank filler cap has an indexed design with a 1/8 turn on/off feature.

When fueling your vehicle:

1. Turn the engine off.

2. Carefully turn the filler cap counterclockwise 1/8 of a 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 1/8 of a turn until it stops.

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.

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.

Choosing the right fuel

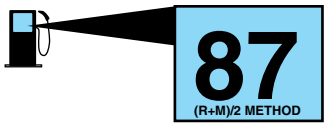
Use only UNLEADED FUEL. The use of leaded fuel is prohibited by law and could damage your vehicle.

Do not use fuel containing methanol. It can damage critical fuel system components.

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

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.

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 dealer or a qualified service technician 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 dealer or a qualified service technician.

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 affect 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.

- Your “Service Engine Soon” indicator may come on. For more information on the “Service Engine Soon” indicator, refer to the *Instrument cluster* chapter.

Fuel Filter

For fuel filter replacement, see your dealer or a qualified service technician. Refer to the scheduled maintenance guide 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.

ESSENTIALS OF GOOD FUEL ECONOMY

Measuring techniques

Your best source of information about actual fuel economy is you, the driver. You must gather information as accurately and consistently as possible. Fuel expense, frequency of fill-ups or fuel gauge readings are NOT accurate as a measure of fuel economy. We do not recommend taking fuel economy measurements during the first 1,600 km (1,000 miles) of driving (engine break-in period). You will get a more accurate measurement after 3,000 km–5,000 km (2,000 miles-3,000 miles).

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 2 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 kilometers or miles).
2. Each time you fill the tank, record the amount of fuel added (in liters or gallons).
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: **Multiply liters used by 100, then divide by total kilometers traveled.**

   Calculation 2: **Divide total miles traveled by total gallons used.**

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 88 km/h [55 mph] uses 15% less fuel than traveling at 105 km/h [65 mph]).
- 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.
- 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 your vehicle scheduled maintenance guide.

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 0.4 km/L [1 mpg] is lost for every 180 kg [400 lb] 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 12–16 km (8–10 miles) 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 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.

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 your scheduled maintenance guide performed according to the specified schedule.

The scheduled maintenance items listed in the scheduled maintenance guide 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 "Service Engine Soon" light, 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, 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.

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 your "Check Engine/Service Engine Soon" light 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 "Check Engine/Service Engine Soon" light on.

If the vehicle's powertrain system or its battery has just been serviced, the on-board diagnostics system is reset to a "not ready for I/M test" condition. To ready the on-board diagnostics system for I/M testing, a minimum of 30 minutes of city and highway driving is necessary as described below:

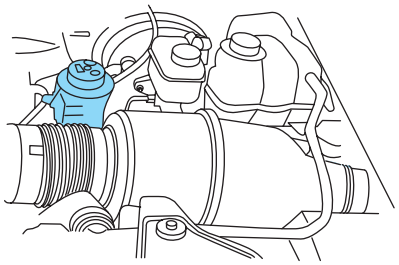
- First, at least 10 minutes of driving on an expressway or highway.
- Next, at least 20 minutes driving in stop-and-go, city-type traffic with at least four idle periods.

Allow the vehicle to sit for at least eight hours without starting the engine. Then, start the engine and complete the above driving cycle. The engine must warm up to its normal operating temperature. Once started, do not turn off the engine until the above driving cycle is complete.

CHECKING AND ADDING POWER STEERING FLUID

Check the power steering fluid. Refer to the scheduled maintenance guide for the service interval schedules. If adding fluid is necessary, use only 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).

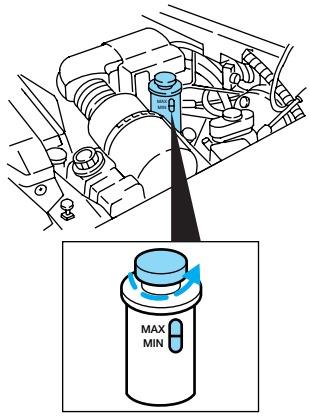


2. While the engine idles, turn the steering wheel left and right several times.

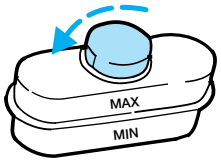
3. Turn the engine off.

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.



BRAKE FLUID RESERVOIR



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 dealer immediately.

TRANSMISSION FLUID

Checking automatic transmission fluid

Refer to your scheduled maintenance guide 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 30 km [20 miles]). 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 30 km (20 miles) 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.

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 10°C (50°F).

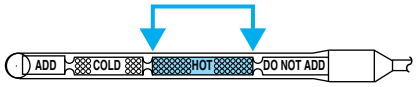


Correct fluid level

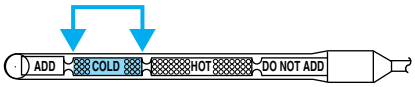
The transmission fluid should be checked at normal operating temperature 66°C-77°C (150°F-170°F) on a level surface. The normal operating temperature can be reached after approximately 30 km (20 miles) of driving.

You can check the fluid without driving if the ambient temperature is above 10°C (50°F). 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 (66°C-77°C [150°F-170°F]).



The transmission fluid should be in this range if at ambient temperature (10°C-35°C [50°F-95°F]).



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.

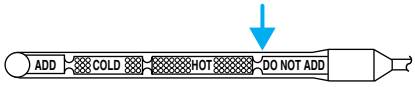
Adjusting automatic transmission fluid levels

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.

If necessary, add fluid in 250 mL (1/2 pint) increments through the filler tube until the level is correct.

If an overfill occurs, excess fluid should be removed by a qualified technician.



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.

DRIVELINE UNIVERSAL JOINT AND SLIP YOKE

Your vehicle may be equipped with universal joints that require lubrication. Refer to the scheduled maintenance guide for maintenance intervals. If the original universal joints are replaced with universal joints equipped with grease fittings, lubrication will also be necessary.

AIR FILTER MAINTENANCE

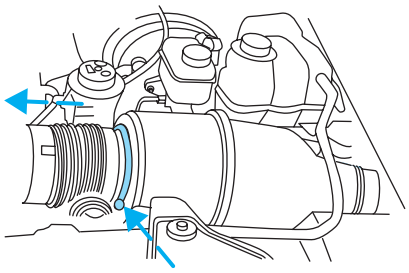
Refer to the scheduled maintenance guide for the appropriate intervals for changing the air filter element.

When changing the air filter element, use only the Motorcraft air filter element listed. Refer to *Motorcraft Part Numbers*.

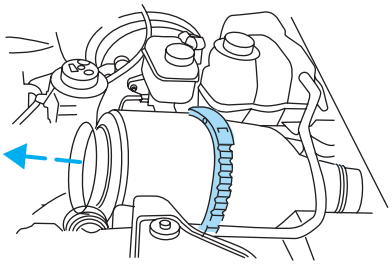
Note: Do not start your engine with the air cleaner removed and do not remove it while the engine is running.

Changing the air filter element

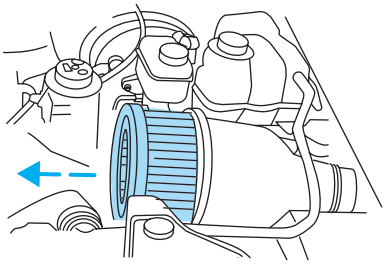
1. Loosen the clamp that secures the air inlet tube to the engine air filter cover and disconnect the tube from the cover.



2. Loosen the clamp that secures the air filter cover to the air filter housing and carefully separate the cover from housing.



3. Remove the air filter element from the air filter housing.



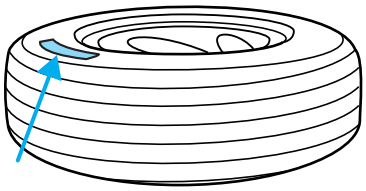
4. Install a new air filter element. Be careful not to crimp the filter element edges between the air filter housing and cover. This could cause filter damage and allow unmetered air to enter the engine if not properly seated.

5. Replace the air filter cover and secure the clamp.

6. Replace the air inlet tube and secure the clamp.

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 to give you the following information about tire grades exactly as the government has written it.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 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.

SERVICING YOUR TIRES

Checking the tire pressure

- Use an accurate tire pressure gauge.
- Check the tire pressure when tires are **cold,** after the vehicle has been parked for at least 3 hours or has been driven less than 5 km (3 miles). As you drive, the temperature in the tire warms up, increasing the tire pressure.
- Adjust tire pressure to recommended specifications found on the Certification Label. Tire pressure information can also be found on the Tire Information label located on the inside of the fuel filler door.
- Check tires for proper air pressure monthly. Check spare tire for proper air pressure every six months.

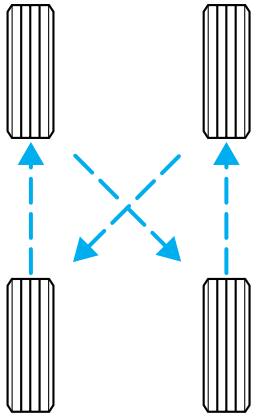
Check that the externally mounted spare tire is tight. Refer to *Stowing the flat/spare tire* of the tire changing section in the *Roadside Emergencies* chapter

Improperly inflated tires can affect vehicle handling and can fail suddenly, possibly resulting in loss of vehicle control, vehicle rollover and/or personal injury.

Tire rotation

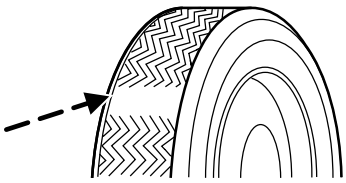
Because your vehicle's tires perform different jobs, they often wear differently. To make sure your tires wear evenly and last longer, rotate them as indicated in the scheduled maintenance guide. If you notice that the tires wear unevenly, have them checked.

- Four tire rotation



Replacing the tires

Replace the tires when the wear band is visible through the tire treads. Due to exposure to the elements and exhaust you should replace the spare tire when you replace the other tires.



When replacing full size tires, never mix radial bias-belted, or bias-type tires. Use only the tire sizes that are listed on the Certification Label. Make sure that all tires are the same size, speed rating, and load-carrying capacity. Use only the tire combinations recommended on the label. If you do not follow these precautions, your vehicle handling may be affected which can lead to loss of vehicle control, vehicle rollover and/or personal injury.

Make sure that all replacement tires are of the same size, type, speed rating, load-carrying capacity and tread design (e.g., "All Terrain", "Touring", etc.), as originally offered by Ford.

Do not replace your tires with "high performance" tires or larger size tires.

Failure to follow these precautions may adversely affect the handling of the vehicle, and increase the risk of loss of vehicle control, vehicle rollover and/or personal injury.

Tires that are larger or smaller than your vehicle's original tires may also affect the accuracy of your speedometer.

Tire pressure monitoring system (TPMS) (if equipped)

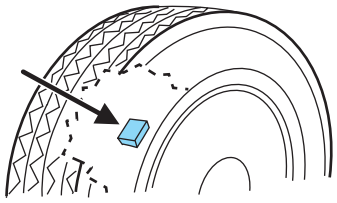
The tire pressure monitoring system provides the driver with a warning message indicating when tire pressure is severely low or high. This system is a supplement to normal tire maintenance including regular manual inspections. The device will inform the operator of severe low or high inflation pressures, but may not illuminate for less severe discrepancies in inflation pressure.

The system uses radio-frequency pressure sensors to monitor the tire pressure on all tires including the spare. The sensors transmit the tire pressure readings to the receiver module located in the vehicle. The receiver module then transmits the status to the message center. For more tire warning information, refer to the *Message Center* in the *Driver controls* chapter.

This device complies with part 15 of the FCC rules and with RS-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 *Checking the tire pressure* 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.

Changing tires with TPMS



It is recommended that you always have your tires serviced by a dealer or qualified technician. **Each tire is equipped with a tire pressure sensor mounted on the wheel inside the tire behind 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 when any tire is changed to minimize air leaks.

The tire pressure should be checked periodically (at least monthly) using a tire gauge, refer to *Checking the tire pressure* in this chapter.

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 48 km/h (30 mph) with tire chains on your vehicle.

MOTORCRAFT PART NUMBERS

Component	4.6L V8 engine	5.4L V8 engine
Air filter element	FA-1634	FA-1634
Battery	BTX-65-650	BTX-65-650
Fuel filter	FG-986B	FG-986B
Oil filter	FL-820-S	FL-820-S
PCV valve	EV-233	EV-238
Spark plugs*	AGSF-32PM	AGSF-22WM

* Refer to Vehicle Emissions Control Information (VECI) decal for spark plug gap information.

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)	Motorcraft SAE 5W—20 Premium Synthetic Blend Motor Oil	All	5.7L (6.0 quarts)
Fuel tank	N/A	All	106L (28.0 gallons)
Power steering fluid	Motorcraft MERCON ® ATF	All	Fill to line on reservoir
Transmission fluid [1]	Motorcraft MERCON®V ATF	4R70W	13.1L (13.9 quarts) [2]
Transfer case fluid	Motorcraft MERCON® ATF	4x4 vehicles	1.9L (2.0 quarts)

Fluid	Ford Part Name	Application	Capacity
Engine coolant [3]	Motorcraft Premium Gold Engine Coolant (yellow-colored)	4.6L V8 engine with 1 row radiator	19.0L (20.1 quarts)
		5.4L V8 engine with 1 row radiator	21.0L (22.2 quarts)
		4.6L V8 engine with 1 row radiator and aux rear heat	21.0L (22.2 quarts)
		5.4L V8 engine with 1 row radiator and aux rear heat	23.0L (24.3 quarts)
Front axle lubricant	Motorcraft SAE 75W-90 Premium 4x4 Front Axle Lubricant	4x4 vehicles	1.8-2.0L (3.5-3.7 pints)
Rear axle lubricant [4]	Motorcraft SAE 75W-90 Fuel Efficient High Performance Synthetic Rear Axle Lubricant	Conventional differential (8.8 inch axle)	1.90L (4.0 pints)
		Conventional differential (9.75 inch axle)	2.13L (4.5 pints)
	Motorcraft SAE 75W-140 High Performance Synthetic Rear Axle Lubricant	Limited-slip differential (8.8 inch axle)[5]	1.77L (3.75 pints)[5]
		Limited-slip differential (9.75 inch axle)[5]	2.01L (4.25 pints)[5]

Fluid	Ford Part Name	Application	Capacity
Windshield washer fluid	Motorcraft Premium Windshield Washer Concentrate	All	4.1L (4.5 quarts)

[1]Ensure 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 guide 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.

[2]Indicates only approximate dry-fill capacity. Some applications may vary based on cooler size and if equipped with an in-tank cooler. The amount of transmission fluid and fluid level should be set by the indication on the dipstick's normal operating range.

[3]Add the coolant type originally equipped in your vehicle.

[4]Your 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.

Service refill capacities are determined by filling the rear axle 9mm to 12mm (3/8 inch to 1/2 inch) below the bottom of the filler hole.

[5]Add 118 ml (4 oz.) of Additive Friction Modifier XL-3 (or equivalent) meeting Ford specification EST-M2C118–A for complete refill of Limited Slip axles. For complete refills, fill using the Additive Friction Modifier first.

LUBRICANT SPECIFICATIONS

Item	Ford part name	Ford part number	Ford specification
Hinges, latches, striker plates and rotors, seat tracks, fuel filler door hinge and spring	Multi-Purpose Grease	XG-4 or XL-5	ESR-M1C159-A or ESB-M1C93-B
Lock cylinders, swing-away spare tire carrier padlock	Penetrating and Lock Lubricant	Motorcaft XL-1	none
Brake fluid	Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid	PM-1	ESA-M6C25-A and DOT 3
Driveshaft, slip spline, double Cardan joint center ball	Premium Long Life Grease	XG-1-K or XG-1-C or XG-1-T	ESA-M1C75-B
Engine coolant	Motorcraft Premium Gold Engine Coolant (yellow-colored)	VC-7–A	WSS-M97B51-A1
Engine oil	Motorcraft SAE 5W20 Premium Synthetic Blend Motor Oil	XO-5W20-QSP	WSS-M2C153-H with API Certification Mark

Item	Ford part name	Ford part number	Ford specification
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 [1]	Motorcraft MERCON®V ATF	XT-5-QM	MERCON®V
Power steering fluid	Motorcraft MERCON® ATF	XT-2-QDX	MERCON®
Rear axle	Motorcraft SAE 75W-90 Fuel Efficient High Performance Synthetic Rear Axle Lube	XY-75W90–QFEHP	meets API GL-5
	Motorcraft SAE 75W-140 High Performance Synthetic Rear Axle Lube	XY-75W140–QL	WSL-M2C192-A
Front axle (4X4)	Motorcraft SAE 75W-90 Premium 4x4 Front Axle Lubricant	XY-75W90-TQL	WSP-M2C201-A
Transfer case (4X4)	Motorcraft MERCON® ATF	XT-2-QDX	MERCON®

Item	Ford part name	Ford part number	Ford specification
Windshield washer fluid	Motorcraft Premium Windshield Washer Concentrate	ZC-32–A	WSB-M8B16–A2

[1]Ensure 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 guide 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.

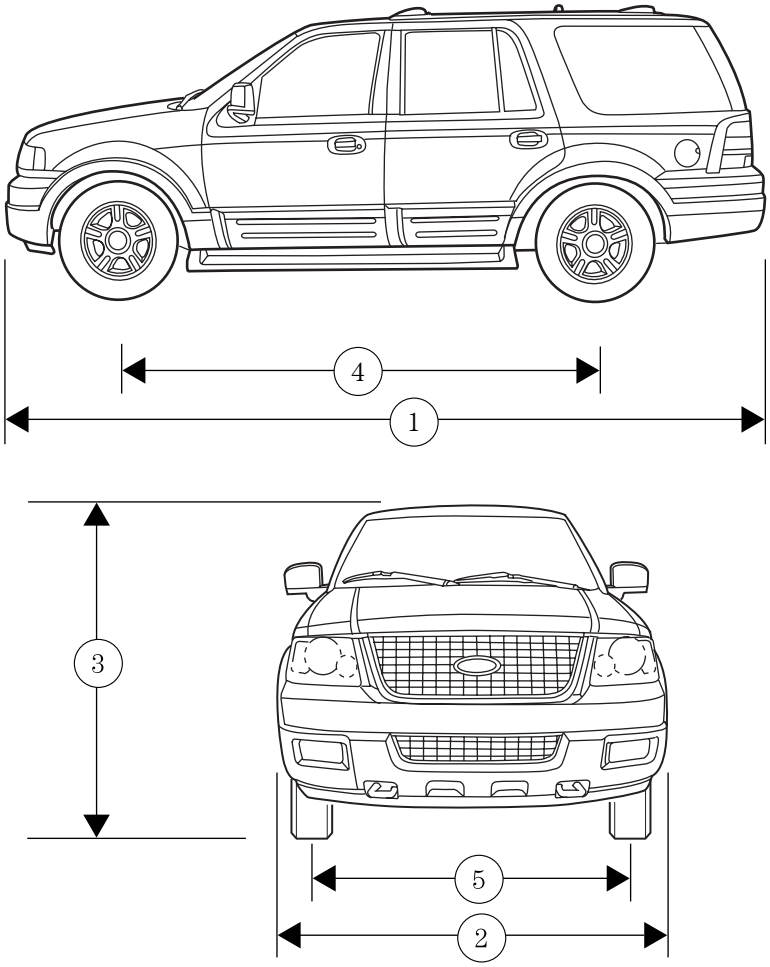
[2]Add 118 ml (4 oz.) of Additive Friction Modifier XL-3 or equivalent meeting Ford specification EST-M2C118-A for complete refill of Ford Limited Slip rear axles.

ENGINE DATA

Engine	4.6L V8 engine	5.4L V8 engine
Cubic inches	281	330
Required fuel	87 octane	87 octane
Firing order	1-3-7-2-6-5-4-8	1-3-7-2-6-5-4-8
Spark plug gap	1.3-1.4 mm (0.052-0.056 inch)	1.3-1.4 mm (0.052-0.056 inch)
Ignition system	Coil on plug	Coil on plug
Compression ratio	9.37:1	9.0:1

VEHICLE DIMENSIONS

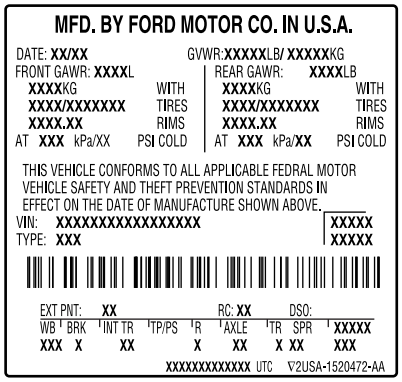
Vehicle dimensions	4x2 mm (in)	4x4 mm (in)
(1) Overall length	5228 (205.8)	5228 (205.8)
(2) Vehicle width (Body)	2000 (78.7)	2000 (78.7)
(2) Vehicle width including mirrors	2390 (94.1)	2390 (94.1)
(2) Vehicle width with mirrors folded	2029 (79.9)	2029 (79.9)
(2) Vehicle width with optional running boards	2074 (81.7)	2074 (81.7)
(3) Overall height (with roof rack)	1971 (77.6)	1966 (77.4)
(4) Wheelbase	3023 (119.0)	3023 (119.0)
(5) Track - Front	1701 (67.0)	1701 (67.0)
(5) Track - Rear	1708 (67.3)	1708 (67.3)


4
1
3
5
2

IDENTIFYING YOUR VEHICLE

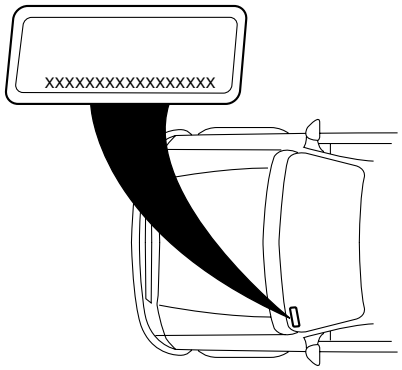
Certification label

The National Highway Traffic Safety Administration Regulations require that a Certification label be affixed to a vehicle and prescribe where the Certification label may be located. The Certification label is located on the front door latch pillar on the driver's side.



Vehicle identification number (VIN)

The vehicle identification number is attached to a metal tag and is located on the driver side instrument panel. (Please note that in the graphic XXXX is representative of your vehicle identification number.)



Engine number

The engine number (the last eight numbers of the vehicle identification number) is stamped on the engine block and transmission.

FORD ACCESSORIES FOR YOUR VEHICLE

A wide selection of genuine Ford accessories are available for your vehicle through your local authorized Ford, Lincoln, Mercury 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 Ford accessory found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessory. The accessory will be warranted for whichever provides you the greatest benefit:

- 12 months or 20,000 km (12,000 miles) (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 the dealer are covered for the full length of your New Vehicle's Limited Warranty — 3 years or 60,000 km (36,000 miles) (whichever occurs first). Contact your dealer for details and a copy of the warranty.

Not all accessories are available for all models.

Following is a list of several Ford Genuine Accessory products. Not all accessories are available for all models. To find out what accessories are available for your vehicle, please contact your dealer or visit our online store at: www.fordaccessoriesstore.com.

Vehicle Security

Wheel protector locks

Vehicle security systems

Accessories

Comfort and convenience

Battery warmer
Cargo organizers
Cargo trays
Carpeted cargo mat
Dash trim (wood grain)
Door edge guards
Molded in color running boards
Rear seat entertainment system – DVD
Remote Start System
Tail lamp surrounds (chrome, black and prime)
Smoker's pack
Swivel hitch/quick step

Travel equipment

Bike carriers
Canoe carrier
Daytime running lights (DRL)
Factory luggage rack adaptors
First aid kit
Framed luggage covers
Hard shell cargo box
Highway safety kit
Hitch mount bike carrier
Kayak carrier
Load warrior carrier basket
Load warrior carrier extension
Load warrior light bracket
Mega Warrior carrier basket
Navigation system
Pet guard/divider
Removable luggage rack (Track rider bars)

Removable luggage rack adapters

Roof rack cross bars

Ski/snowboard carrier

Soft luggage cover

Trailer hitch bars and balls

Trailer hitch receiver cover

Protection and appearance equipment

Air bag anti-theft locks

Cargo liners, interior

Carpet floor mats

Fender flares

Front end covers (full and sport)

Full vehicle cover

Hood deflectors

Leather steering wheel

Locking gas cap

Molded splash guards

Molded vinyl floor mats

Moonroof deflector

Rear air deflectors

Scuff plates-stainless steel

Side window air deflectors

Skid plate, front

Wheels

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 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 or are not properly installed. When operated, such systems may cause the engine to stumble or stall or cause the transmission to be damaged or operate improperly. In addition, such systems may be damaged or their performance may be affected by operating your vehicle. (Citizens band [CB] transceivers, garage door openers and other transmitters with outputs of five watts or less will not ordinarily affect your vehicle's operation.)
- Ford cannot assume responsibility for any adverse effects or damage that may result from the use of such equipment.
- Do not install equipment which modifies the vehicles suspension or steering. Such modifications can cause adverse effects to the AdvanceTrac system.
- Do not install a loudspeaker in the area of the front floor console or under the front driver or passenger seats. The speaker vibrations can adversely effect the AdvanceTrac sensors.

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