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

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

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

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.

## Introduction

### 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.

### 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 <sup>™</sup>	
Master Lighting Switch		Hazard Warning Flasher	
Fog Lamps-Front		Fuse Compartment	
Fuel Pump Reset		Windshield Wash/Wipe	
Windshield Defrost/Demist		Rear Window Defrost/Demist	



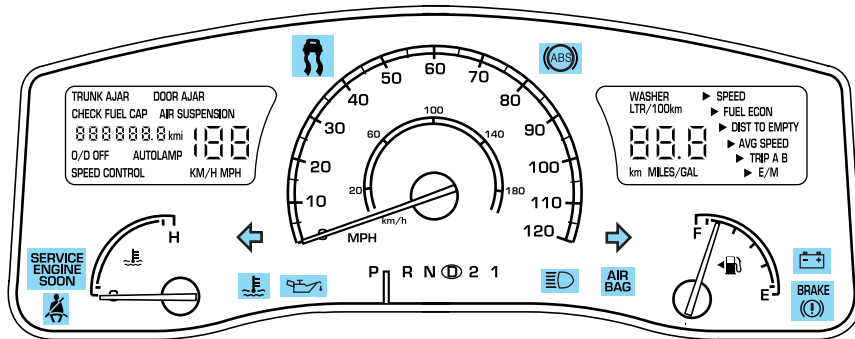
## Introduction

### Vehicle Symbol Glossary

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

## Instrument Cluster

### 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:** The *Service engine soon* indicator light

illuminates when the ignition is first turned to the ON position to check

the bulb. Solid illumination after the engine is started indicates the On Board Diagnostics System (OBD-II) has detected a malfunction. Refer to *On board diagnostics (OBD-II)* in the *Maintenance and Specifications* chapter. If the light is blinking, engine misfire is occurring which could damage your catalytic converter. Drive in a moderate fashion (avoid heavy acceleration and deceleration) and have your vehicle serviced immediately.

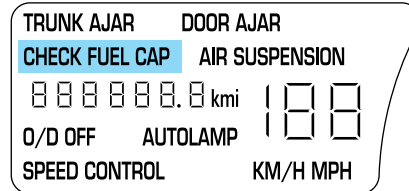
**SERVICE  
ENGINE  
SOON**



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.

## Instrument Cluster

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



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



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

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



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



## Instrument Cluster

**Safety belt:** Reminds you to fasten your safety belt. A chime will also sound to remind you to fasten your safety belt, refer to the *Seating and Safety Restraints* chapter.



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



**Engine oil pressure:** Illuminates when the oil pressure falls below the normal range, refer to *Engine oil* in the *Maintenance and specifications* chapter.

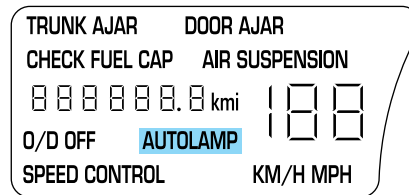


**Engine coolant temperature:** Illuminates when the engine coolant temperature is high. Stop the vehicle as soon as possible, switch off the engine and let cool. Refer to *Engine coolant* in the *Maintenance and specifications* chapter.



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

**Autolamp:** Illuminates when the autolamps are turned on.

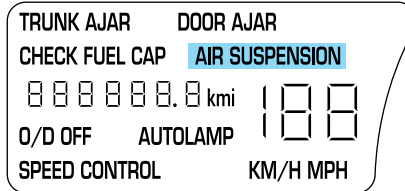


**Traction control<sup>™</sup>/AdvanceTrac<sup>™</sup> active:** Flashes when the Traction control<sup>™</sup> system is active. If the light remains on, have the system serviced immediately, refer to the *Driving* chapter for more information.

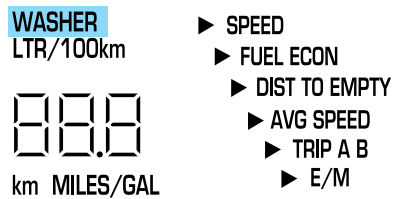


## Instrument Cluster

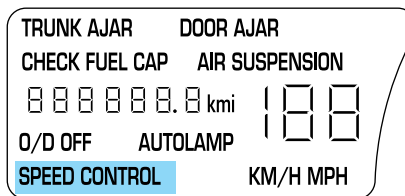
**Air suspension:** Illuminates when the air suspension is turned OFF or the air suspension system requires servicing.



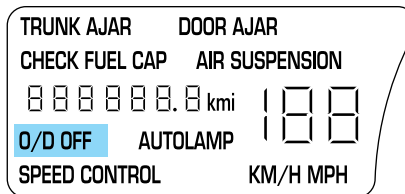
**Washer:** Illuminates when the windshield washer fluid is low.



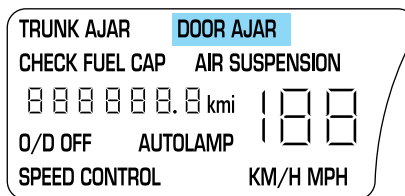
**Speed control:** Illuminates when the speed control is activated. Turns off when the speed control system is deactivated.



**O/D off:** Illuminates when the overdrive function of the transmission has been turned OFF using the transmission control switch (TCS), refer to the *Driving* chapter. If the light flashes steadily, have the system serviced immediately.

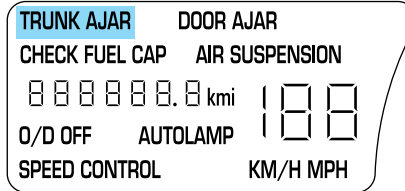


**Door ajar:** Illuminates when any door is open (or not fully closed).



## Instrument Cluster

**Trunk ajar:** Illuminates when the trunk is not completely closed. This light will flash and sound a tone for one second, then the light remains on.



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



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



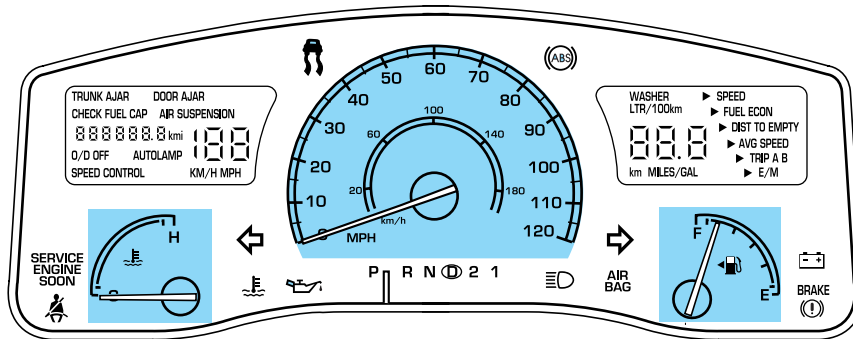
**Headlamps on warning chime:** Sounds when the headlamps or parking lamps are on, the ignition is off (and the key is not in the ignition) and the driver's door is opened.

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

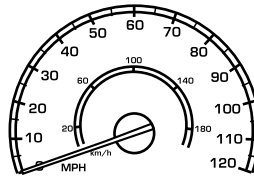
**Turn signal chime (if equipped):** Sounds when the turn signal lever has been activated to signal a turn and not turned off after the vehicle is driven more than 0.8 km (1/2 mile).

## Instrument Cluster

### GAUGES



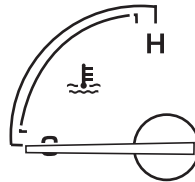
**Speedometer:** Indicates the current vehicle speed.



Select **SPEED** from the message center to display the digital speedometer on the left hand side of the cluster. Refer to the *Message Center* in the *Driver Controls* chapter for more information on the Trip A and B feature.

- ▶ **SPEED**
- ▶ **FUEL ECON**
- ▶ **DIST TO EMPTY**
- ▶ **AVG SPEED**
- ▶ **TRIP A B**
- ▶ **E/M**

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

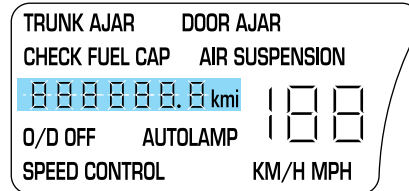


## Instrument Cluster



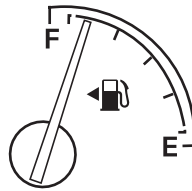
Never remove the coolant reservoir cap while the engine is running or hot.

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



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

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

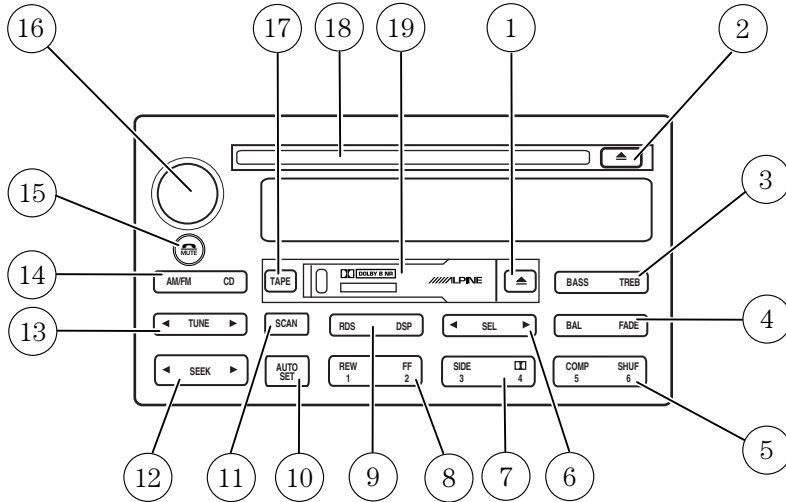


The FUEL DOOR icon and arrow indicates which side of the vehicle the fuel door is located.

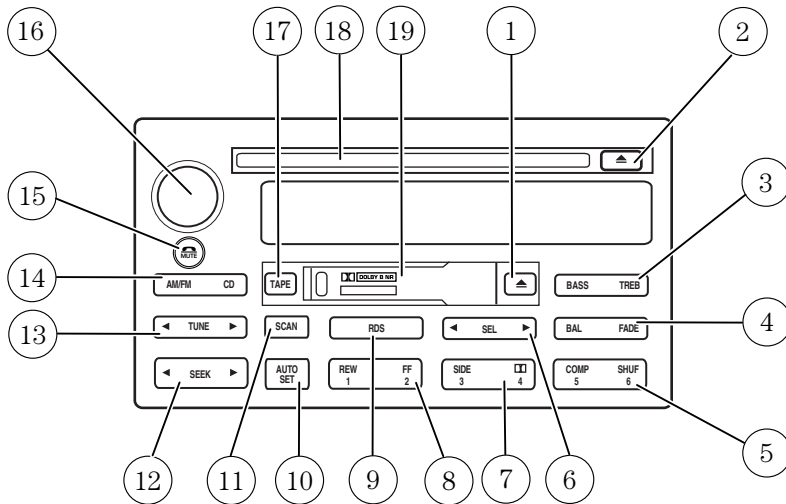


## Entertainment Systems

### AUDIOPHILE AM/FM STEREO/CASSETTE/SINGLE CD



### PREMIUM AM/FM STEREO/CASSETTE/SINGLE CD



## Entertainment Systems

1. **Eject:** Press to eject a tape.



2. **Eject:** Press to 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.



**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. **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.



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




6. **Select:** Use to adjust bass, treble, balance and fade levels.



7. **Side 1-2:** Press to change sides on the tape.



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



## Entertainment Systems

8. **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.

9. **Digital signal processing (if equipped):** Press to adjust the occupancy modes between the following:



- ALL SEATS
- DRIVER SEAT
- REAR SEATS

**RDS:** (Radio Data System): Allows you to access FM stations which are RDS- equipped. Press RDS then SEL to select from:



Traffic — Allows you to receive traffic announcements and control their volume level. **Traffic information is not available in most U.S. markets.**

Show — Allows you to view the frequency and program type of the chosen radio station.

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.

10. **Autoset:** Press to set first six strong stations into AM, FM1 or FM2 memory buttons; press again to return to normal stations.



## Entertainment Systems

11. **Scan:** Works in radio, tape and CD modes. Press SCAN for a brief sampling of radio stations, tape selections or CD tracks.



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



13. **Tune:** Works in radio mode. Press to manually advance up or down the frequency band.



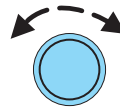
14. **AM/FM/CD:** Press AM/FM to select a radio frequency. Press while in tape or CD mode to return to radio mode. Press CD to enter CD mode and to play a CD already in the system.



15. **Mute mode:** Press to mute the playing media.



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



17. **Tape:** Press to play the tape.



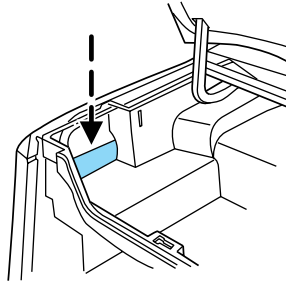
18. **CD door:** Insert the disc with the playing side down and printed side up.

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

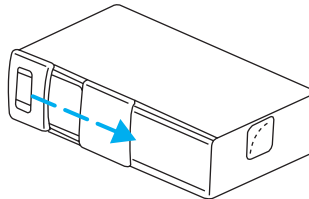
## Entertainment Systems

### CD CHANGER (IF EQUIPPED)

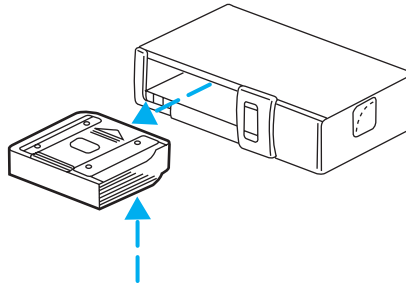
Your CD changer is located in the trunk.



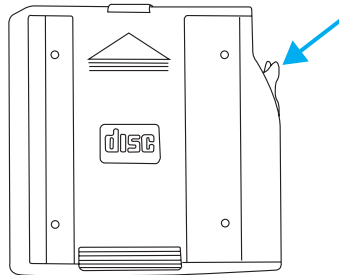
1. Slide the door to access the CD changer magazine.



2. Press ▲ to eject the magazine.



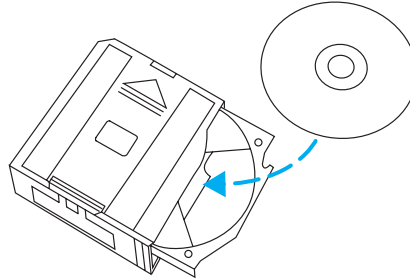
3. Pull the lever to remove a CD tray from the magazine.



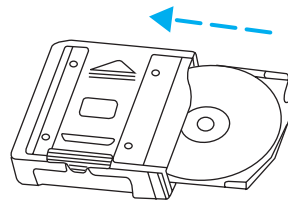
## Entertainment Systems

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

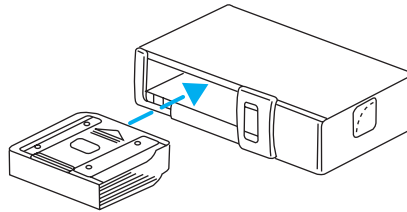
If you pull too hard on the disc holder, the disc holder may come completely out of the magazine. If this happens, reinsert the disc holder back into the magazine.



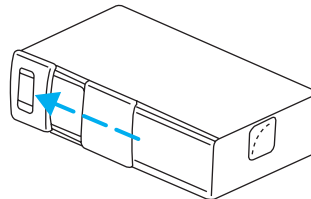
5. Insert each CD tray, with the disc loaded, all the way into the CD magazine.



6. Insert the CD magazine into the changer.



7. 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 changer to operate.

## Entertainment Systems

Radio power must be turned on to play the CDs in the changer. 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.

**Do not insert any promotional (odd shaped or sized) discs, or discs with removable labels into the CD player as jamming may occur.**

### 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.

## Entertainment Systems

### 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.

**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.**

### 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.

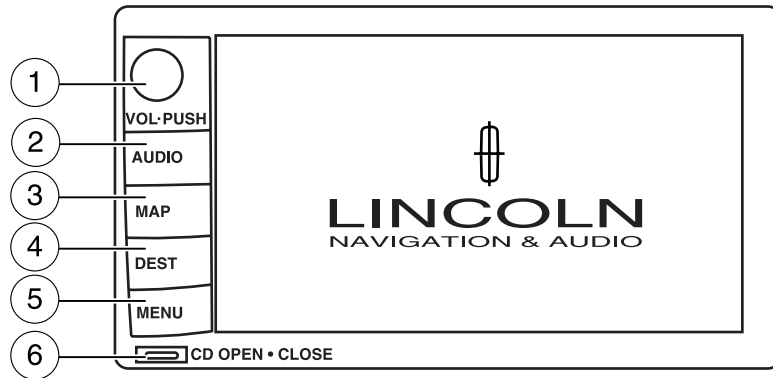
### LINCOLN NAVIGATION SYSTEM (IF EQUIPPED)

Your vehicle may be equipped with a Lincoln Navigation System which allows you to listen to the radio, play CDs and also navigate the vehicle using a navigation DVD.

Your system has a large range of features, yet is easy to use. Guidance is shown on the display screen and is supplemented with voice prompts. The display screen provides full information for operating the system through use of menus, text screens and map displays. Screen selections are made by touching the desired selection on the screen.



## Entertainment Systems



1. **VOL-PUSH:** Press to turn the system ON/OFF. Turn to adjust the audio volume level.
2. **AUDIO:** Press to enter audio mode and access radio, CD, CDDJ, DVD (if equipped) settings.
3. **MAP:** Press to enter map mode and view your current vehicle position on the map. Press and hold to obtain additional position information.
4. **DEST:** Press to enter Destination Entry mode. This allows you to enter a destination and route to it. With an active route, pressing DEST allows the user to request a Detour, display entire route, select route preferences, or change or cancel the destination.
5. **MENU:** Press to access system settings such as display, brightness, clock mode, etc.
6. **CD OPEN CLOSE:** Press to open/close the display screen and access the CD player.

### ***Cold temperature advisory***

When operating the system below 32° Fahrenheit (0° Celsius), the display screen requires 20–30 minutes warm-up to achieve maximum brightness. Ensure that the system display setting is set to DAY mode until maximum brightness is achieved (refer to *Menu mode* section). Once maximum brightness is achieved, revert to AUTO mode display setting.

## Entertainment Systems

### Initial map display

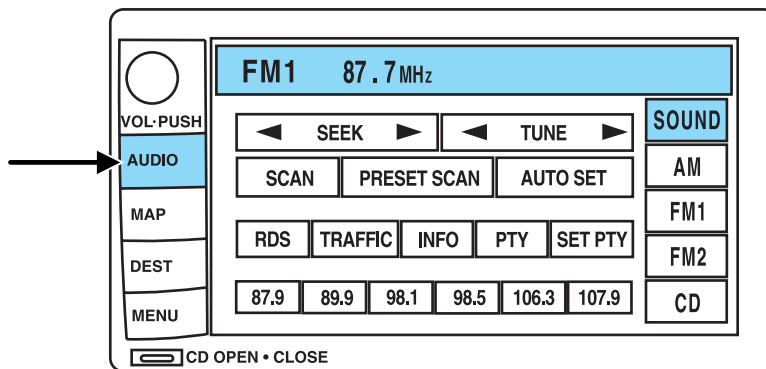
After pressing AGREE to the initial WARNING screen, you will move into the initial map screen which shows the current vehicle location. Pressing the globe icon will take you to the user settings — audible feedback, navigation units, language and clock.



### Quick Start — How to get going

#### To play a radio station:

1. Ensure that the vehicle ignition is on.
2. Press AUDIO.



3. Select AM, FM1 or FM2.
4. Press TUNE to adjust manually up (▶) or down (◀) the frequency band.
5. Press SEEK to find the next strong station up (▶) or down (◀).


**Note:** If PTY (program type) is selected, the station selection will be limited. Refer to *Program Type (PTY)* for further information.

## Entertainment Systems

### To play a previously loaded CD:

1. Ensure that the vehicle ignition is on.
2. Press AUDIO.
3. Press CD to select a CD which is already loaded. (NO CD will appear in the display if there are not CDs loaded into the system). Use the memory presets (1–6) to select the desired CD.
4. CD will begin to play.

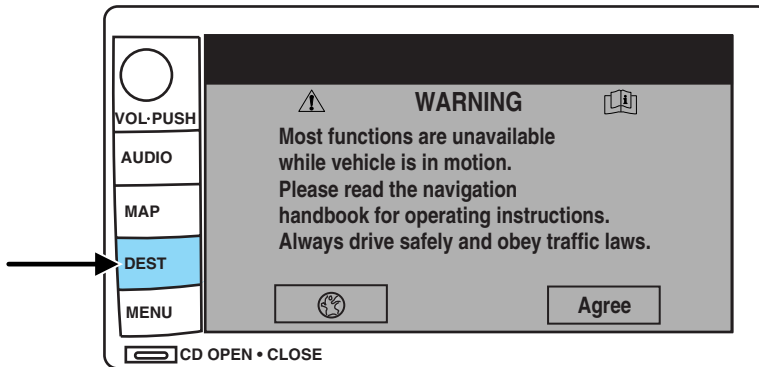
### To load CDs:

1. Press CD OPEN CLOSE at the bottom of the screen to load a CD. (The screen will open).  

2. Press LOAD and select the desired slot. Or, press and hold LOAD to auto load all available slots. The slot indicator lights blink rate will increase when the system is ready to accept a disc. Push CD OPEN CLOSE to close the screen. Once closed, the CD will begin to play.
3. Use the touch controls to advance tracks, scan, pause, etc. The small red lights below the CD slot will blink faster when the system is ready to accept a disc.

### To use the Navigation system:

1. Ensure that the vehicle ignition is on, and the navigation DVD is loaded into the navigation DVD player. Refer to *Loading the map DVD* for navigation DVD locations.
2. Press DEST. The warning screen will appear. After reading, press AGREE. The screen will show a map with your current location. Press DEST again.

## Entertainment Systems



3. Select the desired type of destination entry; Address, Point of Interest; Previous Dest; Special Memory Point; Select from map; Memory Point and Freeway Ent/Exit. Enter the required information.

4. Press DEST at the bottom of the map screen.

5. Choose the desired route by pressing the NEXT button (if it appears). There can be up to three alternative routes.

6. Press START to begin the navigation guidance.



### To adjust the voice guidance volume:

Press On/Off to turn the voice guidance option on/off. Use the numeric keys (1-7) to determine the volume level of the guidance voice prompts.



### Voice activated commands (if equipped)

Your Lincoln Navigation System (LNS) may be equipped with a voice activated feature which allows you to “speak” certain commands to the system. Speaking clearly will help to ensure that the system correctly responds to your commands.

## Entertainment Systems

At any time, you may say these commands:

- AM
- FM1
- FM2
- CD
- DVD (if equipped)

During normal radio operation, you may say:

- Seek up
- Seek down

During CD play with the in-dash 6 disc player:

- Track up
- Track down
- Disc up
- Disc down

While in navigation map mode, the following commands are available by voice activation:

- Zoom in
- Zoom out
- Minimum scale
- Maximum scale

While in navigation destination (DEST) mode, the following commands are available by voice activation:

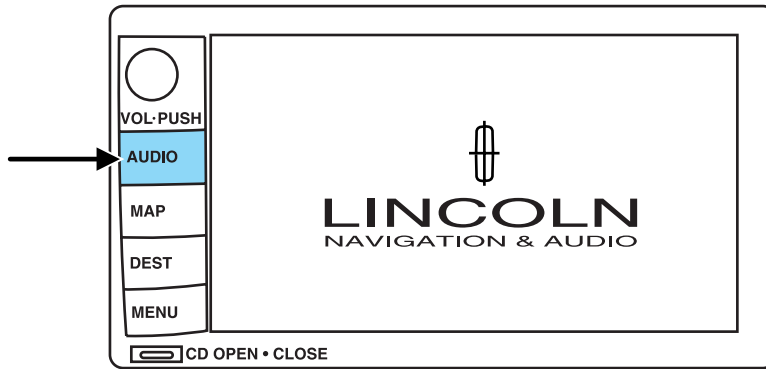
- Home
- Detour

While in navigation map mode, the following commands are available by voice activation:

- Gas station
- Gas
- Hospital
- Police station
- Restaurant
- Hotel

## Entertainment Systems

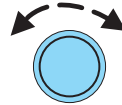
### Audio mode



Your Lincoln Navigation Audio System has many features including a full range of audio functions. To access these functions, press AUDIO on the main bezel. This will take you into audio mode.

#### **Volume/power control**

Press knob to turn the audio system on/off. Turn to raise or lower volume. The levels will be displayed on the screen.



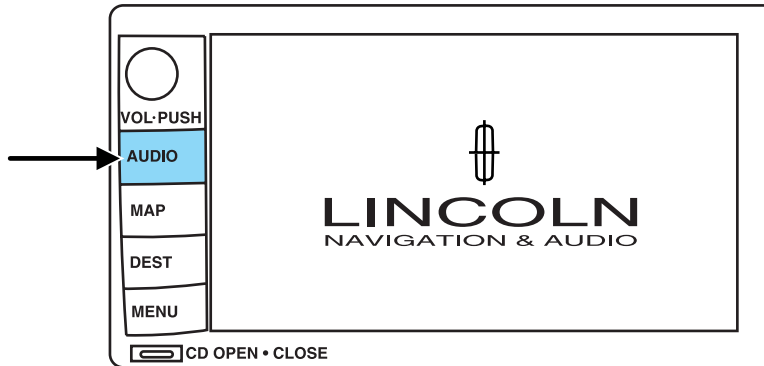
To activate the navigation mode, press MAP or DEST.

To adjust the navigation voice output level, select the NAV MENU button via the map screen.

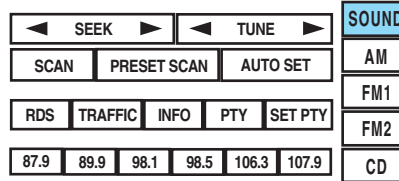
## Entertainment Systems

### ***Speed compensated volume (SCV)***

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



1. Press AUDIO.
2. Press SOUND.



3. SCV is located in the middle of the screen. Press to turn on.
4. Select setting 1 to 7 or turn off.



The recommended level for speed sensitive volume is from level 1 through level 3. Level 0 turns the speed sensitive volume off and level 7 is the maximum setting.

## Entertainment Systems

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

### **AM/FM select in radio mode**

Press AM/FM1/FM2 to switch between AM/FM1/FM2 memory preset stations.

### **AM/FM select in CD mode**

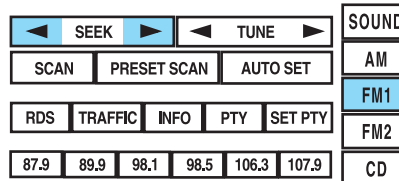
Press to stop CD play and begin radio play.

### **AM/FM select in navigation mode**

The radio will continue to play in the background of the navigation screens. To access, press AUDIO then AM/FM1/FM2.

### **Seek**

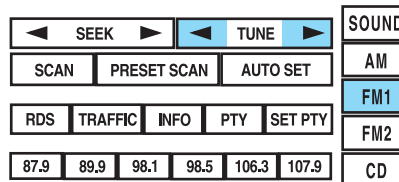
- Press ► / ◀ to find the next listenable station up/down the frequency band.
- Press ► / ◀ to advance to the next/previous track on a CD.



### **Tune adjust**

Press TUNE to manually move down/up (◀ / ►) the frequency band.

In CD mode, press TRACK to select the previous/next (◀ / ►).



### **Autoset memory preset**

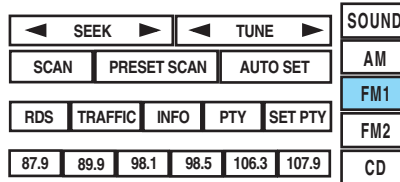
Autoset allows you to set strong radio stations without losing your original manually set preset stations. This feature is helpful on trips when you travel between cities with different radio stations.



## Entertainment Systems

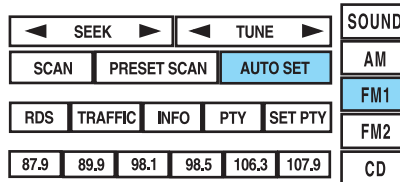
### Starting autoselect memory preset

1. Select a frequency band using AM/FM1/FM2.



2. Press AUTO SET.

3. When the first six strong stations are filled, the station stored in memory preset control 1 will start playing.

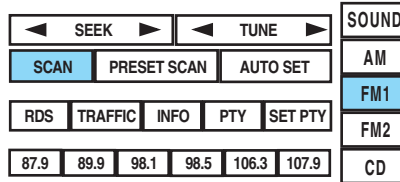


If there are less than six strong stations available on the frequency band, the remaining memory preset controls will all store the last strong station available.

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

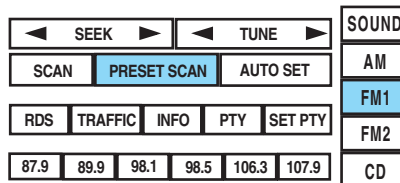
### Scan

Press SCAN for a brief sampling of all listenable stations and CD tracks. Press again to disable and remain on the current selection.



### Preset scan

Press PRESET SCAN to scan the stations stored in the memory presets.



## Entertainment Systems

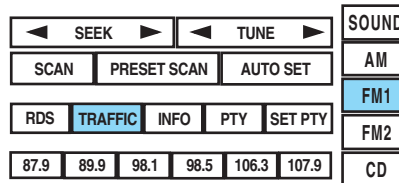
### **Radio data system (RDS) feature**

This feature allows your audio system to receive text information from RDS-equipped FM radio stations such as station call letters, program type, etc. When in FM mode, press RDS to activate/deactivate.



### **Traffic function**

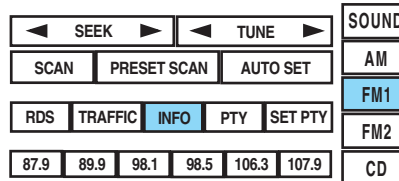
Select TRAFFIC for traffic information broadcast from certain stations which will automatically interrupt radio or CD playback at a preset volume level.



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

### **Information feature**

Press INFO to view the frequency, call letters and PTY category of the selected FM station.

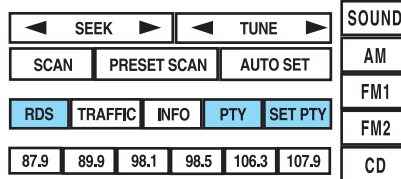


### **Program type (PTY)**

This feature allows you to search for Radio Data System (RDS) stations selectively by their program type.

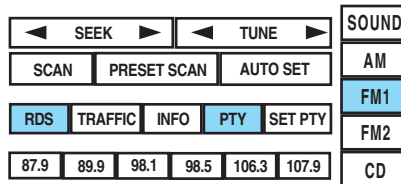
## Entertainment Systems

Ensure that the RDS function is turned on. Press PTY to turn the feature on/off.



### To set/change PTY:

Ensure that the RDS function is turned on.  
Press SET PTY to select from the following program types:



- All
- Classical
- Country
- Information
- Jazz
- Religious
- Rock
- Soft
- Top 40

Once PTY has been programmed, press SEEK (▶ / ◀) or SCAN to initiate a search up or down the frequency.

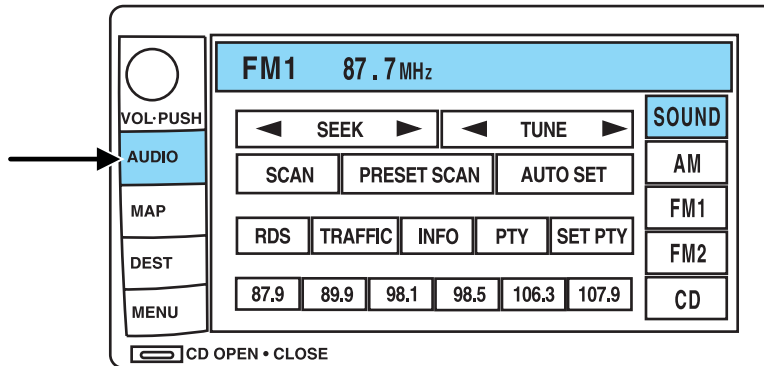
Preset scan and Autoset also initiate PTY searches. The search will stop when the desired program type has been reached. If no program type is found, a message will display.



## Entertainment Systems

### Sound functions

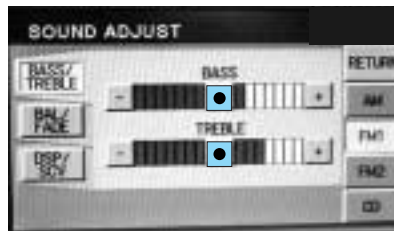
To access settings for Bass, Treble, Balance, Fade, DSP (Digital Signal Programming), SCV (Speed Compensated Volume), and Occupancy modes:



1. Press AUDIO.
2. Press SOUND.
3. Select from Bass/Treb; Bal/Fade; DSP/SCV.
4. Press +/- to increase/decrease the levels.

**Bass** : Allows you to increase or decrease the audio system's bass output.

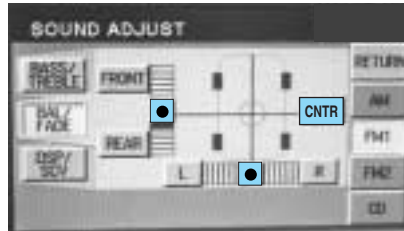
**Treble** : Allows you to raise or lower the audio system's treble output.



## Entertainment Systems

**Fade** : Allows you to adjust the amount of sound emitted from the front and rear speakers.

**Balance** : Allows you to adjust the sound distribution between the right and left speakers.



**SCV** (Speed Compensated Volume): Automatically compensates for road wind and noise. Refer to *Speed compensated volume* earlier in this chapter.

**DSP Occupancy mode** :Use to optimize the sound based upon the occupants in the vehicle. Select from ALL SEATS, REAR SEATS or DRIVER SEAT.



### **Setting memory preset stations**

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).

1. Select the frequency band with the AM/FM1/FM2 touch controls.
2. Select a station.
3. Press and hold a memory preset until the sound returns. The frequency will appear in the preset.

### **CD mode**

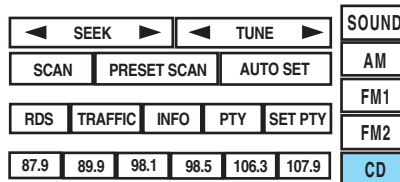
**CD units are designed to play commercially pressed 12 cm (4.75 in) audio compact discs only. Due to technical incompatibility, certain recordable and re-recordable compact discs may not function correctly when used in Ford CD players. Irregular shaped CDs, CDs with a scratch protection film attached, 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**

## Entertainment Systems

with permanent felt tip marker rather than adhesive labels. Ball point pens may damage CDs. Please contact your dealer for further information.

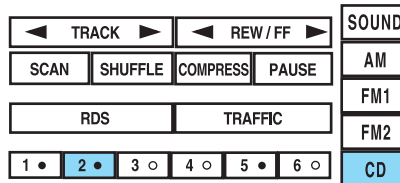
### Playing a previously loaded CD:

To begin CD play (if a CD is already loaded), press AUDIO hard button and then CD.

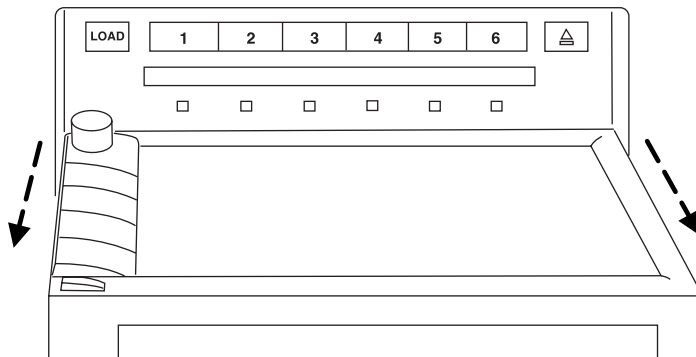


Press CD. CD play will begin where it stopped last.

### Loading a CD:



1. Press CD OPEN CLOSE on the bezel.



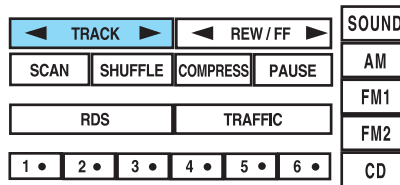
- The navigation screen will fold down, allowing you access to the in-dash six CD system.
- Press LOAD and the desired CD slot number. The indicator light will blink slowly at first, then quickly, signaling the system is ready.

## Entertainment Systems

4. Insert a disc.
5. **To load more than one disc**, press and hold LOAD. This will initiate autoload and will allow you to load all open CD slots. After an allotted time, the screen will close automatically or you may press CD OPEN CLOSE on the bezel again.
6. Once the screen closes, the system will start playing the last CD loaded.

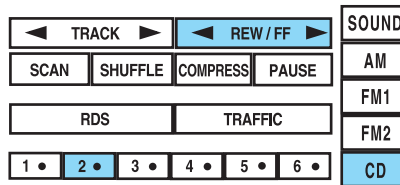
### Track

Press **▶ / ◀** to advance to the next/previous track.



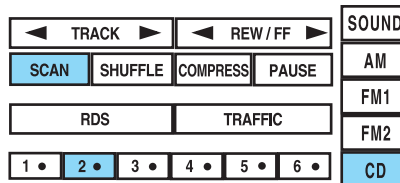
### Rewind/fast forward in CD mode

Press to reverse or advance (**◀ / ▶**) in the current CD track.



### Scan feature in CD mode

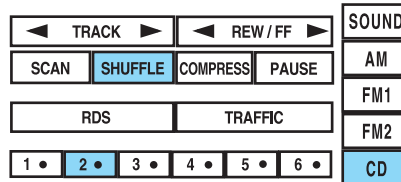
Press SCAN to hear a brief sampling of all tracks on the current CD. Press again to disengage and remain with the current track.



## Entertainment Systems

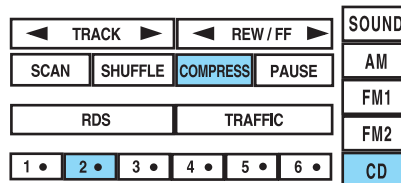
### Shuffle feature in CD mode

When in CD (or CDDJ mode), press SHUFFLE to engage the shuffle feature. Press to select from shuffling between tracks (SHUFFLE TRACK) on the current CD or between all tracks on all CDs (SHUFFLE DISC). All tracks will be played in random order. Press again to disengage (SHUFFLE OFF).



### Compression feature

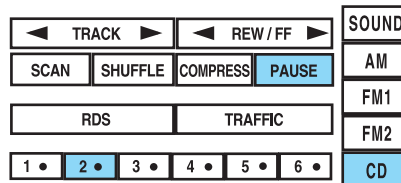
The compression feature works in CD mode and boosts more quiet music and lowers louder music to minimize the need for volume adjustments.



When in CD or CDDJ mode, press COMPRESS to engage or disengage the compression feature.

### Pause

In CD mode, press PAUSE to pause the current track. Press again to continue playing.

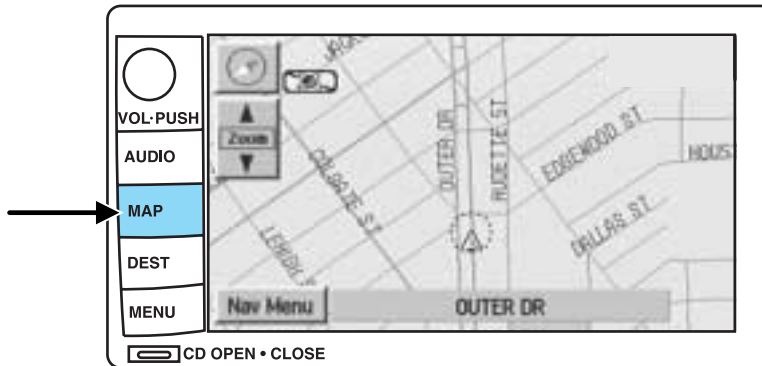




## Entertainment Systems

### Map mode

#### Map display information



To access the map display, press MAP on the bezel.

Once pressed, the current map display will appear on the screen showing the current vehicle location.



#### Zoom control

When 'Zoom' is pressed, the scale indicator is shown on the screen. The scale markings are: 1/32, 1/16, 1/4, 1/8, 1, 2, 4, 8, 16, 32, 64, 128 miles. The control can be used in a number of ways:

- touch and hold one of the arrow buttons for the map to be displayed again at each zoom level.
- touch one of the arrow buttons repeatedly for the map to be displayed again at the final zoom level.
- touch one of the segments of the scale indicator for the map to be displayed at the selected zoom level.

## Entertainment Systems

### **Additional map function buttons**

To initiate the display of additional map function buttons, tap the map anywhere on the screen. The following buttons will appear:



- **STORE** - stores current vehicle location as a memory point. Refer to *Memory Points* for further information.
- **POI (Point of Interest)**- brings up the Quick POI menu which allows the user to perform two functions:  
Display POI icons on the map for one category.  
Select local map area POIs as destinations or waypoints. The list of local area POIs can be sorted by distance, name, or icon. Refer to *Points of Interest* for further information.
- **NEXT** - Press for the system to step through a list of the POIs requested and display them on the map.
- **INFO** - Press to access the address and phone number of a selected POI.

If home has been previously programmed in the “Nav Menu”, the home icon (house) will appear on the screen and is able to be selected as a destination.

To delete POI icons from the map, touch the map again and press the POI off button.

## Entertainment Systems

### **Route preferences**

After entering a destination, the Route options will appear on the screen showing what is currently selected. You may choose to activate/deactivate selections which the system will factor in when calculating your route. Those options are:



- Minimize Time/Distance
- Use Major Roads
- Use Toll Roads
- Use Ferries

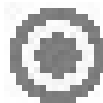


### **Screen symbols**

**Navigation symbol** — Indicates the current vehicle position and points to the direction in which the vehicle is currently traveling.



**Destination symbol** — Indicates the current route destination.



**Next turn symbol** — Shows the next maneuver that will need to be taken on the current route.



## Entertainment Systems

**North up button** — Indicates that the map is displayed with north to the top of the screen. Press to toggle between “North up” and “Heading up” map display states.



**Heading up button** — Indicates that the map is displayed with the vehicle heading to the top of the screen. The position of the pointer indicates the direction of north on the map. Press to toggle between “North up” and “Heading up” map display states.



**Avoid areas or points** — The left-hand symbol indicates an area to be avoided in route calculations. The right-hand symbol indicates an avoid point.



If the avoid point is enlarged to an avoid area, it will appear on the screen as a shaded box.



**Way point symbol** — Indicates the location of a way point (locations you wish to visit in route to your ultimate destination) on the map.



**Home position symbol** — Indicates the location on the map, currently stored as the home position.



**Stored location symbol** — Indicates the location of a memory point. This is the default symbol used when the point is stored. (If desired, an icon of your own choice can be selected from the 15 icons available.) Refer to *Choosing from the icon list*.



## Entertainment Systems

**GPS symbol**— Indicates that insufficient GPS satellite signals are being received for accurate map positioning. The symbol is not displayed under normal operation.



**Speaker icon symbol**— Press to turn voice guidance on/off.



### Navigation menu

To access the Navigation Menu, press NAV MENU at the bottom of the map screen.



Once pressed, the Navigation Menu will display showing the following options:

- Route Options/Preferences
- Navigation Set Up
- Display Options
- Stored Locations
- On Route Scroll
- Voice Guidance/Volume



Depending upon whether or not a route is active will determine if route options/route preferences is contained on the Navigation Menu.

### Route options (destination entered)

Once in navigation mode and a route is currently active, press “Chng. route” to access the ROUTE OPTIONS screen. Choose from the following selections:


- **Detour:** Press to select a detour around the current route. Refer to *Detour options* later in this chapter for further information.
- **Route Preferences:** When creating a destination, select from: Minimize Time/Distance, Use Major Roads, Use Toll Roads, Use Ferries.




## Entertainment Systems

- **Display Whole Route:** Will enter MAP mode and display your entire chosen route.

**Note:** Route preference appears on the Nav menu when no destination is entered.

 While driving under route guidance, only follow an instruction when it is safe to do so as the system cannot be aware of changing conditions. Use voice guidance as much as possible, and only view the display when driving conditions permit.

 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.

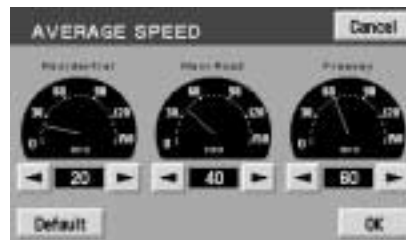
### Navigation set up

The Navigation Set up screen will allow you to make adjustments to the navigation displays.



### Average speed settings

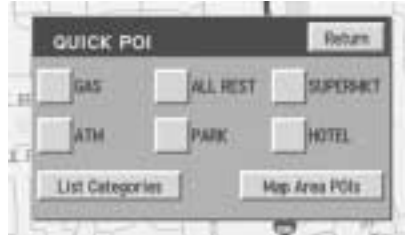
Allows you to set approximate speeds you drive. These speeds enable the navigation system to aid in calculating timing for routes.



## Entertainment Systems

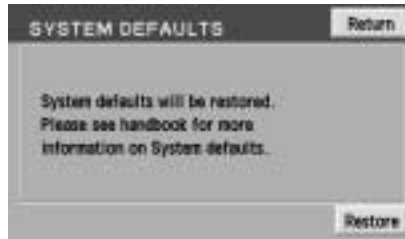
### **Quick POI (Point of Interest)**

Allows you to change the Quick POI menu settings. Select the desired Quick POI (Gas, ATM, etc.) and then press 'List Categories' for further categories, or 'Map Area POIs' to show the desired POIs on your current map.



### **Restore system defaults**

Resets all system user-selectable options to the default (automatic) values (i.e, guidance, voice, search area and route preferences).



### **Calibration**

This feature is helpful if the car has been towed, or if you notice it is not registering at the correct vehicle location on the map.

Press "Position" to reposition the vehicle location. Press the screen to scroll the map to the desired location and press OK to confirm.

Press "Distance" to calibrate by distance and improve the navigation accuracy. It is recommended to

activate this function after ever tire replacement. When the button is highlighted, calibration is in process and will turn off automatically when complete.



## Entertainment Systems

### **DVD map version**

Displays the version of the inserted navigation DVD. Refer to *Ordering additional map DVDs* for further information.



### **Display Options**

The Display Options screen will allow you make adjustments to the navigation display screen. You can choose from:

- Map Mode (Dual or Full)
- Guidance Mode (Arrows or Turn list)
- Guidance Display (On or Off)
- Time to destination (Show or Hide)





## Entertainment Systems

### **Stored locations**

The Stored locations screen will allow you to choose from destinations that have been saved into the navigation system.



In this screen, you can select from Memory Points, Special Memory Points, Home, Avoid Area, Destination and Way Point, or Previous Destination. Please refer to the *Destination menu* section for a complete description of the functions.



### **On route scroll**

The system automatically scrolls through the entire planned navigation route either forwards or backwards. To activate, press the arrow buttons at the bottom left of the map screen.



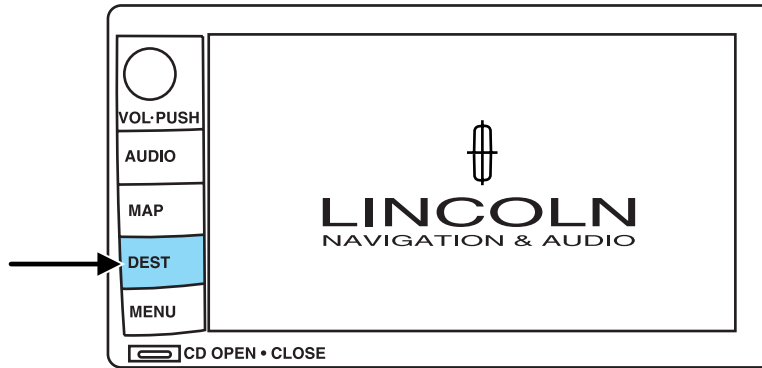
### **Voice guidance/volume**

Allows you to turn the voice guidance option on/off and to determine the volume level of the guidance voice prompts.



## Entertainment Systems

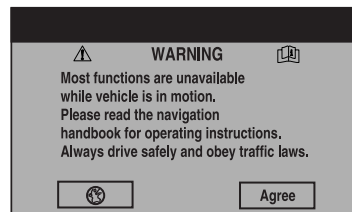
### Destination menu



Press DEST on the main bezel to access the navigation mode.

#### **Initial map display**

After pressing AGREE to the initial WARNING screen, you will move into the initial map screen which shows the current vehicle location. Pressing the globe icon will take you to the user settings — audible feedback, navigation units, language and clock.



**Note:** There may be a slight time delay between the soft key and the hard key functions.

## Entertainment Systems

### Destination entry

#### Selecting a destination

Press DEST to set a destination. From this menu, you may select from the following options:

- **Address**— Use to select a destination based on a known street address or intersection.
- **Point of Interest**— Use to select a destination that is a point of interest location (i.e., airport, restaurant, hospital).
- **Select from map**—Use to select a place on the map.
- **Previous Destination** — Use to select a destination from among the last 20 entered destinations

Press  'Next Page' to access more selections:

- **Memory point** — Use to select from a memory point.
- **Freeway exit/entrance** — Use to select a certain freeway exit or entrance.
- **Special Memory Points** — Use to select a destination from previously stored entries.



#### Search area

Your navigation system uses a regional search area. This area is the area from which navigational directions will be used. To check your area or reset, press CHANGE under the search area listing. The map will open and allow you to select another regional area. Ensure that your search area is correct prior to setting your destination.

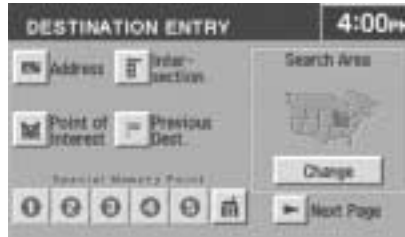


## Entertainment Systems

### **Points of interest (POI)**

Select “Point of Interest” from the Destination Entry Menu. In this next menu, you will have the following options:

- **By Name**— Enter POI name on the keyboard. Touch “List” to display the list of matching points of interest. If there are too many matches being listed, try entering the town name first.
- **By Category** — Press “Category”. Scroll down the list to select the category, then sub-category desired. Once you have selected a category, your entry of the POI will be restricted to that category.



### **Previous destination**

Press “Previous Destination” on the Destination Entry Menu.

- Select (touch) the desired item from the list of destinations previously reached. The item details will be listed.
- Confirm destination details.



### **Deleting previous destination**

- Press “Delete”. The list of previous destinations is displayed showing “Delete Previous Destination” at the top of the screen.
- Select (touch) the entry to be deleted. The item details will be listed.
- Press YES to confirm the deletion.
- Press DELETE ALL to delete all previous destination.



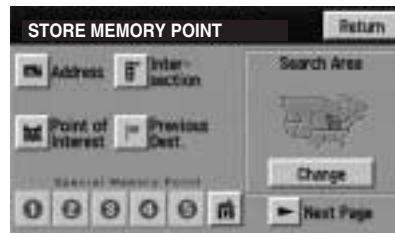
## Entertainment Systems

### **Memory point**

Your navigation system allows you to save special destinations you may wish to again visit. Select “Memory Point” from the Destination Entry Menu.



- Select the desired item from the list of stored memory points.
- Confirm destination details.



**Note:** The list can be sorted by date, name or icon by pressing the appropriate button.

### **Adding a memory point**

- Once in the Store Memory Point Menu, press ADD.
- Select (touch) the desired menu item.
- Enter/select any required details. The new point will be added to the stored list of memory points.

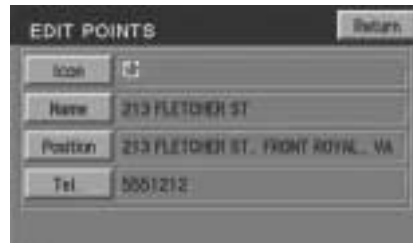
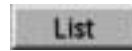
To give the new memory point a name:

- Select it from the list.
- Press NAME.
- Enter the desired name.

## Entertainment Systems

### Accessing memory point lists

- Press LIST
- Select the desired entry to view its location details.



### Sorting memory point lists

- Access the desired list.
- Press the button to sort the list as desired (i.e. date, name, distance or icon).

When sorted by distance, the points are ordered by distance from the current vehicle location. When sorting by icon, the icons are listed in the order they appear on the icon selection screen.



### Choosing from the icon list

After choosing ICON to edit, 15 normal and three audible icons will be displayed. Press the icon you wish to use.

The normal icons will be displayed on the map to indicate the map location identified with that icon. The audible icon will sound a distinctive chime when the vehicle is approaching the memory point associated with that icon.

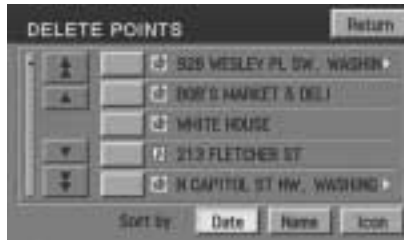


## Entertainment Systems

### **Deleting a memory point**

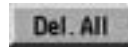
- In the Memory Point Menu, press DELETE.
- Select the entry to be deleted.
- The system will ask you to confirm deletion. Press YES to confirm.

The screen will briefly show “Memory Point Deleted”.



### **Deleting all memory points**

- In the Memory Point Menu, press DELETE ALL.

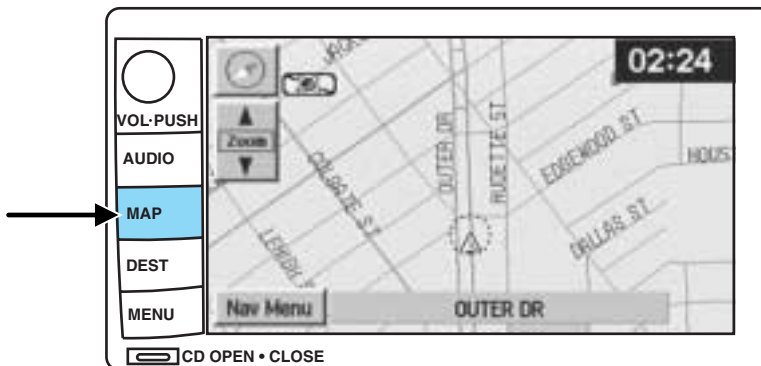


- The system will ask you to confirm deletion. Press YES to confirm.

The screen will briefly show “All Memory Points Deleted”.

### **Home**

To set home for the first time:



- Press MAP.
- Press “Nav. Menu”.
- Press “Stored Locations.”



## Entertainment Systems

- Press “Home”.
- Press “Add”. Set home by selecting the correct address, POI, Previous destination, or selecting from the map.



To view home, press the home icon (house) on the Destination Entry screen.

Once home is set, you may select home as a destination.

### **Adding a home location**

- Select the desired menu item you wish to set as Home (Address, Memory Point, Point of Interest, Previous Destination).
- Enter the required details.



- Press OK to set the home position.



### **To view the set home position:**

From the stored locations menu with home selected, press LIST to view the location of the stored home position.



## Entertainment Systems

### **Deleting a home location**

- Once in the stored locations menu with home selected, press DELETE.
- The system will ask you to confirm.
- Press YES to confirm.



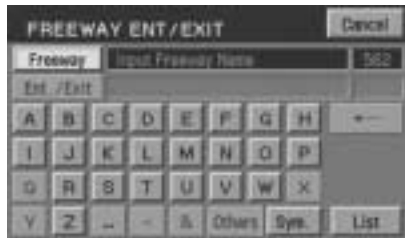
### **Freeway Entrance/Exit**

Select "Freeway Entrance/Exit" from the second page of the Destination Entry menu. Follow these steps:



1. **Enter freeway name**— Enter the freeway name using the keyboard. Press "List" to select a freeway from those displayed.

To enter numbers in the freeway name, press "Sym".



## Entertainment Systems

2. **Select entrance/exit**— Press “Entrance” if you wish to join the freeway at this junction. Press “Exit” if you wish to leave the freeway at this junction.

3. **Select Junction**— The screen will display a list of junctions on the freeway. They can be listed either by distance, (from the current vehicle location), by pressing the “Dist” button or alphabetically by pressing the “A-Z” button. Select the desired entrance or exit.



The destination details are displayed for confirmation.

### **Special memory points**

There are five possible memory points that you can set.

#### **To set a memory point:**

- Press MAP.
- Press “Nav Menu”.
- Press “Stored locations”.
- Press “Special Memory Point”.
- Select “Add” and input destination.
- Press OK to confirm.



#### **To delete a memory point:**

- Press “Delete”. The list will display.
- Select the special memory point to delete.
- Press “Del. all” to delete all entered special memory points.
- Press “Yes” to confirm.

Once all five special memory points are entered, the “Add” control will read as “Full”. You must delete points before more can be added.

## Entertainment Systems

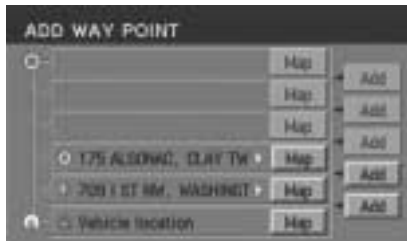
### ***Destination and way points***

The Store Dest. & Way Point menu is used after a destination or way point has been entered for the first time using the Destination Entry menu. You can store and delete destinations and way points (locations you wish to visit in route to your ultimate destination). You can also select the order in which you visit them.



### ***Adding (storing) a destination or way point***

- Once a destination is entered, press ADD to store the location. The Store Dest. & Way Point menu is displayed.
- Select whether you want to store an Address, Point of Interest or Previous Destination.
- Enter the necessary details for the selection.
- If a destination was entered, it will be stored as the current location. If a way point was entered, it will be added to the list of way points.



### ***Listing destinations and way points***

Press LIST to display the stored way points and destination (if entered).

The first way point to be visited is at the bottom of the list and the destination is at the top.

You may view the map location of any entry. On the map, location details for the entry are displayed at the top of the screen.

To adjust the position of the way point (or destination), scroll the map as required.

Press OK.



## Entertainment Systems

### **Editing and changing order of way points and destination**

Press “Chg. Order” to change the order in which the way points are visited. The points are listed chronologically from bottom up, the destination being on the top.

Press the MAP button to edit the way point location on the map display.

Press OK to confirm.



### **Deleting way points and destination**

After pressing DELETE, the list of way points and the destination (if entered) is displayed, showing the 'Delete Dest. &Way Pt.' menu.

Select the entry to be deleted. Press YES to confirm.

Press DELETE ALL to delete all way points. Press YES to confirm.



### **Selecting route criteria**

Once you have selected a destination, you may change the routing criteria by pressing “Change” in the route preferences screen. Refer to *Route preferences* for further information.



## Entertainment Systems

### **Route calculation**

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

The system may calculate up to four routes for the desired destination. Press "Next" to scroll through the various planned routes. Press "Start" to confirm the route selection and begin route guidance.



### **Detour options**

You may engage the detour option when on the map display by going to the "Nav menu" and selecting "Route Options".



Press DETOUR to activate. Use the soft controls to select and enter the number of miles you want to deviate off of the current road.



Press NEW ROUTE if you would like the system to plan a different route.

Press DETOUR to confirm the selection.

## Entertainment Systems

### **Route interruptions**

In the course of your destination, you may decide to temporarily leave your planned route for gas, food, etc. If you turn off the ignition, the option to continue the route guidance will be displayed when the ignition is turned on again. The route can be accessed once again after you press “Agree” on the warning screen.

### **Route alterations or cancellations**

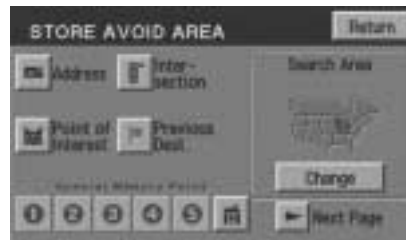
To cancel or change your current route from the map, press DEST or select “Nav Menu” and “Route Options”. You may then select from Detour, Display whole route, change route preferences or cancel guidance.



### **Avoiding an area while under guidance**

For one reason or another, you may choose to avoid a certain area while in route to your destination. To select the area to avoid:

- From the MAP screen, press Nav Menu.
- Select Route Options, then Display Whole Route
- Press Turn List
- Press Avoid next to the street to be avoided
- Choose OK to confirm
- Press Reroute to activate



The new area is added to the list of stored avoid areas.

**Note:** In some circumstances, it may not be possible to avoid all selected areas.

## Entertainment Systems

### ***Listing areas to avoid***

You can list all areas noted as “avoid”.

- Press “Nav Menu”.
- Press “Stored locations”.
- Press “Avoid area”.
- Press LIST to view all previously stored selections.
- Select the desired one. The map screen will be displayed, showing the location and address of the selected area.

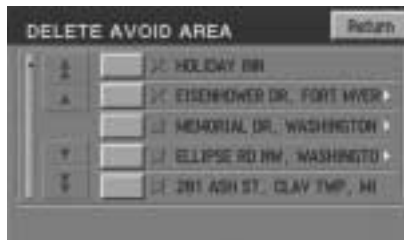


Press Enlarge or Reduce to adjust the size of the visible area. Scroll the map as required.

### ***Deleting areas to avoid***

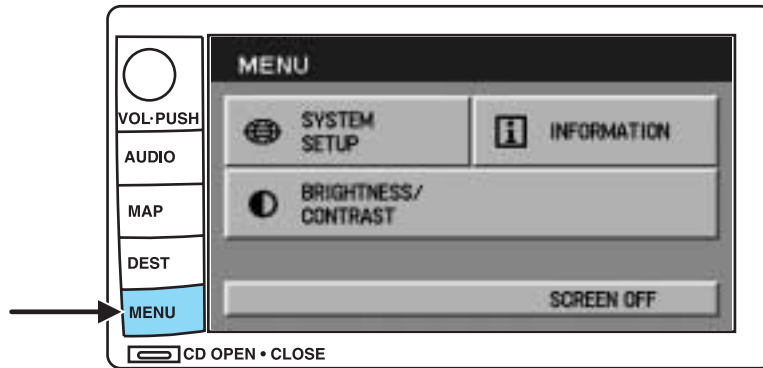
To delete a selection from the “Avoid area” list:

- From the stored locations menu, select “Avoid area”.
- Press DELETE
- Select the desired area to be deleted.
- Press DEL. ALL to delete all stored areas.
- Press YES to confirm.



## Entertainment Systems

### Menu mode



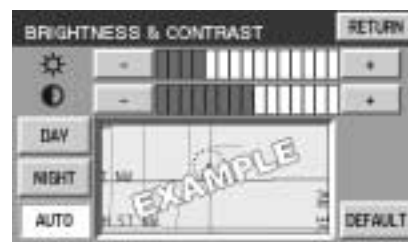
To access menu mode, press the MENU hard control.

Menu mode allows you to access:

- System Set-up
- Information — Gives you the Lincoln Customer Assistance Center information.



- Brightness/Contrast — Allows you to adjust the brightness and contrast on the screen.





## Entertainment Systems

- Screen off — Allows you to turn off the navigation screen.



### System setup

The system set up menu contains the following user settings:

- Audible Feedback — Press to activate audible voice navigation commands. Press again to deactivate.
- Navigation Units — Press to toggle between Metric/English units.



- Language — Press to toggle between English, French, or Spanish.



## Entertainment Systems

### General information

#### **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.



If the system is used for an extended period of time with the vehicle stationary, ensure that the engine is running to avoid draining the battery.

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 map database DVD 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 map database DVD whenever they become available.

## Entertainment Systems

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 Dealer.

### **Federal Communication Commission (FCC) Compliance**

Changes or modifications not approved by Ford 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.



The database reflects reality as existing before you received the database and it comprises data and information from government and other sources, which may contain errors and omissions. Accordingly, the database may contain inaccurate or incomplete information due to the passage of time, changing circumstances, and due to the nature of the sources used. The database does not include or reflect information on neighborhood safety, law enforcement, emergency assistance, construction work, road or land closures, vehicle or speed restrictions, road slope or grade, bridge height, weight or other limits, road or traffic conditions, special events, traffic congestion, or travel time.

### **Radio reception factors**

There are certain factors that may effect your radio reception.

- **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.

## Entertainment Systems

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.

### ***Principles of GPS (global positioning system) operation***

Your system directs you based on information derived from global positioning satellites, road maps stored on the DVD, 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 for 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
- inside or in between buildings
- by forests or tree-lined avenues
- in heavy rain showers and thunderstorms
- in valleys and in mountainous regions
- roads under cliffs

Ensure that you do not have any metal objects on the rear parcel shelf and that if your windows are tinted, they use non-metal tinting instead of metal oxide tinting. Both of these factors can also interrupt GPS reception.

### ***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.

## Entertainment Systems

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.

### **Loading the map DVD**

- Your navigation DVD unit is either located:
  - in the front lower center stack area by the passenger's feet (access door),
  - in the trunk,
  - or in the jack compartment.
- Ensure that the vehicle ignition is ON.
- If a DVD is already loaded in the Navigation unit, push the eject button.
- Load the DVD with the printed side up. Do not allow moisture or foreign objects to enter the slot.

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

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

### **Ordering additional map DVDs**

If you wish to order a replacement or additional map, please call 1-888-NAV-MAPS (1-888-628-6277) or to log onto [www.navtech.com](http://www.navtech.com).

### **Latest map DVDs**

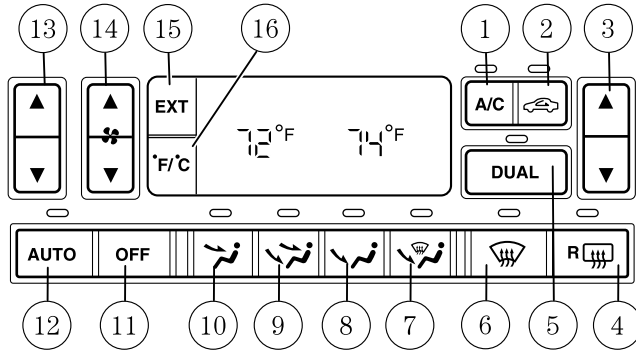
The map content is constantly changing due to new roads, traffic restrictions, etc. . Therefore, it is not always possible to exactly match the DVD map with the current roadways. For best results, always use the latest version of the map DVD. Map information is regularly updated, but all areas are not necessarily covered to the same level of detail. Some areas, in particular private roads, may not be included on the database. To help with accuracy, always use the latest DVD version for navigation.

### **Customer service**

If you need help operating your navigation/audio system, want to report a map database error or want to obtain a map DVD, please call 1 (888) 628-6277 (NAV-MAPS) or log onto [www.navtech.com](http://www.navtech.com).


## Climate Controls

### DUAL ELECTRONIC AUTOMATIC TEMPERATURE CONTROL (DEATC) SYSTEM



1. **A/C control:** Cools the vehicle and is used to reduce humidity in the vehicle. Press to turn on/off.



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



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








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



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



## Climate Controls

6.  : Distributes air through the windshield defroster vents and the side window demisters.
7.  : Distributes air through the windshield defroster vents, the side window demisters and floor vents.
8.  : Distributes air through the floor vents.
9.  : Distributes air through the instrument panel vents and the floor vents.
10.  : Distributes air through the instrument panel vents.

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



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



12. **AUTO:** Press and select the desired temperature. The system will automatically determine the fan speed, airflow location, outside or recirculated air to heat or cool the vehicle to the selected temperature. If unusual conditions exist, (i.e., window fogging, etc.), manual overrides allow you to select airflow locations and fan speed.



13. **Driver's side temperature control:** Controls the temperature on the driver side of the vehicle.



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



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



## Climate Controls


### 16. Temperature conversion:

Press to toggle between Fahrenheit and Celsius temperature on the DEATC display only. The set point




temperatures in Celsius will be displayed in half-degree increments.

### OPERATING TIPS

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the  position.
- To reduce humidity build up inside the vehicle: do not drive with the recirculation control on or the system turned off.
- Do not put objects under the front seats that will interfere with the airflow to the back seats.
- Remove any snow, ice or leaves from the air intake area at the base of the windshield.

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

1. Select 
2. Select A/C
3. Modulate the temperature control to maintain comfort.
4. Set the fan speed to HI
5. Direct the outer instrument panel vents towards the side windows

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



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

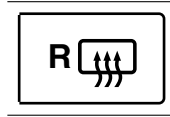


## Climate Controls

### REAR WINDOW DEFROSTER

The rear defroster control is located on the instrument panel.

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



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


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

The defroster turns off automatically after a predetermined amount of time or when the ignition is turned to the OFF position. To manually turn off the defroster before 10 minutes have passed, push the control again.

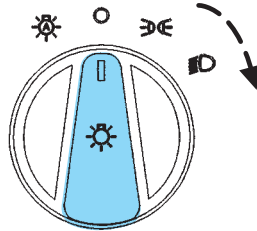
## Lights

### HEADLAMP CONTROL

OFF Turns the lamps off.

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

 Turns the headlamps on.



### Autolamp control

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

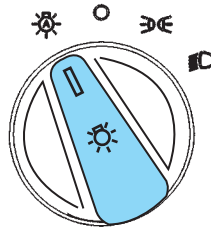
The autolamp system also keeps the lights on for a preselected period of time after the ignition switch is turned to OFF.

The autolamps are turned on at night or when the front wipers are turned on.

- To turn autolamps on, rotate the control counterclockwise. The preselected time lapse is adjustable up to approximately three minutes by continuing to rotate the control counterclockwise.
- To turn autolamps off, rotate the control clockwise to the off position (O).

The amount of time the autolamps stay on can be programmed by doing the following:

1. Turn the headlamp switch to OFF.
2. Turn the ignition to RUN and then back to OFF.
3. Turn the headlamp switch to the Autolamp position.
4. Wait the desired amount of time for delay, then turn the headlamp switch to OFF.
5. Steps 1 thru 3 need to be performed within 10 seconds.

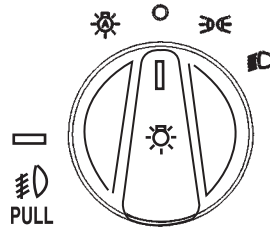


## Lights

### Foglamp control

The foglamps can be turned on when the headlamp control is pulled toward you and is in any of the following positions:

- Parking lamps
- Low beams
- Autolamps



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

The daytime running light system turns the headlamps on, with a reduced light output, when:

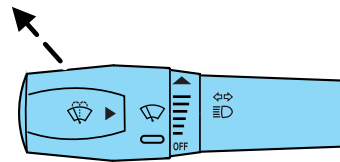
- the ignition is in RUN,
- the transmission is not in P (Park),
- the high beams are not in the flash to pass position and
- the headlamp system is not turned on by another feature such as using the headlamp control or Autolamp.



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

### High beams

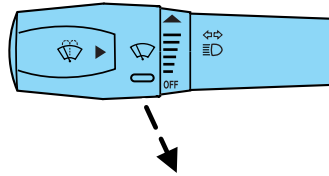
Push the lever toward the instrument panel to activate. Pull the lever towards you to deactivate.



## Lights

### Flash to pass

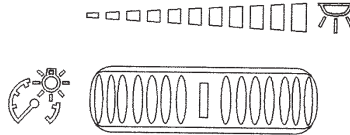
Pull toward you slightly to activate and release to deactivate.



### PANEL DIMMER CONTROL

Use to adjust the brightness of the instrument panel during headlight and parklamp operation.

- Rotate the thumbwheel from left to right to brighten the instrument panel.
- Rotate the thumbwheel from right to left to dim the instrument panel.



During full daylight, the instrument panel will still be visible with the headlamps operating.

### Domelamp Control

The panel dimmer control also controls the domelamp operation.

- Rotate the thumbwheel fully to the right, past detent to activate the domelamp.
- In order to turn off the domelamp, rotate the thumbwheel to the left.

### AIMING THE HEADLAMPS

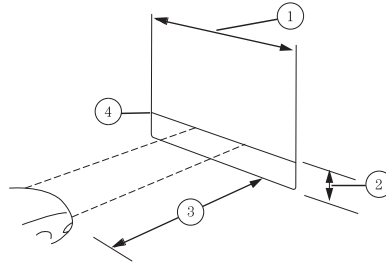
The headlamps on your vehicle are properly aimed at the assembly plant. If your vehicle has been in an accident the alignment of your headlamps should be checked by a qualified service technician.

### 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.

## Lights

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



2. Measure the height of the headlamp bulb center from the ground and mark a 2.5 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.

4. On the wall or screen you will observe an area of high intensity light. The top of the high intensity area should touch the horizontal reference line, if not, the beam will need to be adjusted.



To see a clearer light pattern for adjusting, you may want to block the light from one headlamp while adjusting the other.

5. Locate the vertical adjuster on each headlamp. Using a 4 mm wrench, turn the adjuster either clockwise (to adjust down) or counterclockwise (to adjust up). The horizontal edge of the brighter light should touch the horizontal reference line.



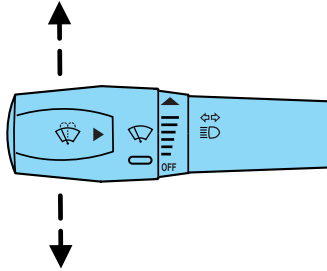
6. HORIZONTAL AIM IS NOT REQUIRED FOR THIS VEHICLE AND IS NON-ADJUSTABLE.

7. Close the hood and turn off the lamps.

## Lights

### TURN SIGNAL CONTROL ⇐⇒

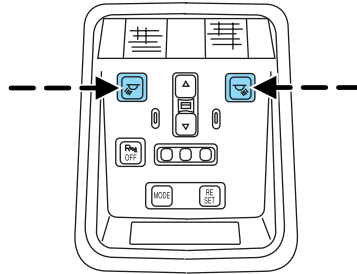
- Push down to activate the left turn signal.
- Push up to activate the right turn signal.



### INTERIOR LAMPS

#### Map/Courtesy lamps

To turn on the map lamps, press the map lamp control.

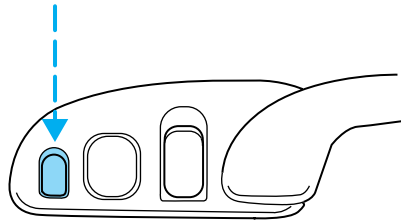


#### Rear courtesy/reading lamps

The courtesy lamp lights when:

- any door is opened.
- any of the remote entry controls are pressed and the ignition is OFF.

With the ignition key in the ACC or ON position, the reading lamp can be turned on by pressing the rocker control.



## Lights

### 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 and an "E" for Europe to assure 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	Trade Number
Headlamp (Hi beam)	9005
Headlamp (Lo beam)*	H7
Park and turn lamp (front)	3457 AK
Sidemarker (front)	168
Backup lamp	3156 K
Stop, tail, turn and sidemarker lamp (rear)	3157 K
Cornering lamp	3156 K
License plate lamp	168
High-mount brakelamp - Stop**	20 (LEDS)
High-mount brakelamp - Backup Aid**	6 (LEDS)
Luggage compartment lamp	212-2
Map lamp	578
Visor vanity lamp	168
Door courtesy lamp	904
Glove compartment	194
All replacement bulbs are clear in color except where noted.	
To replace all instrument panel lights - see your dealer.	

\* For vehicles with HID lamps, see your dealer for service.

\*\*When replacing the center high mount stop lamp, see your dealer for replacement bulbs.

#### Replacing the interior bulbs

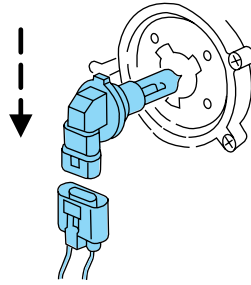
Check the operation of all bulbs frequently.

## Lights

### Replacing headlamp bulbs

To remove the headlamp bulb:

1. Make sure headlamp switch is in OFF position.
2. Remove the protective bulb cover by loosening and removing the five screws.
3. Rotate the light bulb socket counter clockwise and pull it straight out from the assembly.
4. Remove the old bulb from the lamp assembly by pulling it straight out of the bulb socket.



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.

5. To complete installation, follow the removal procedure in reverse order.

**Note:** To ensure a good seal, attach the bulb cap and partially tighten the screws. Check to ensure the gasket is fully centered. Finish tightening the screws in a criss-cross pattern (upper-left, lower right etc.)

### Replacing HID headlamp bulbs (if equipped)

The low beam headlamps on your vehicle use a “high intensity discharge” source. These lamps operate at a high voltage. When the bulb is burned out, the bulb and starter capsule assembly must be replaced by your dealer or a qualified technician.

### Replacing front parking lamp/turn signal bulbs

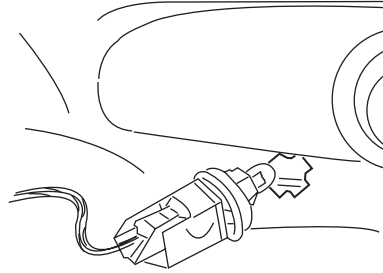
The park/turn lamp bulbs can be replaced without removing the headlamp assembly.

1. Make sure headlamp switch is in OFF position, then open the hood.
2. Remove the protective bulb cover by removing the three retaining bolts.



## Lights

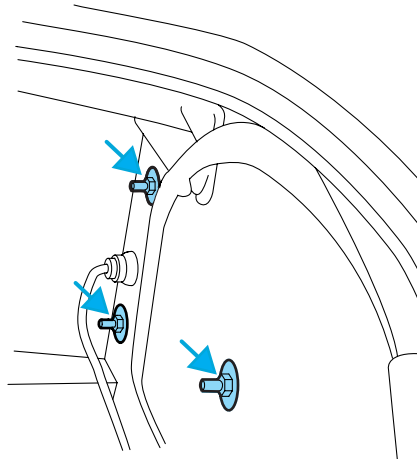
3. Rotate the bulb socket counterclockwise and remove from lamp assembly.
4. Carefully pull bulb straight out of the socket and push in the new bulb until it snaps, locking it into position.
5. To complete installation, follow the removal procedure in reverse order.



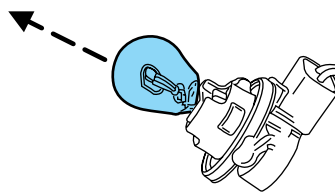
### **Replacing tail lamp/brake/turn lamp bulbs**

The tail lamp, the brake lamp and the turn signal lamp bulbs are located in the tail lamp assembly. Follow the same steps to replace either bulb.

1. Make sure headlamp switch is in OFF position, then open the trunk and carefully pull the carpet away to expose the plastic retainer.
2. Remove plastic retainer to expose the lamp assembly hardware.
3. Remove three nut and washer assemblies and the lamp assembly from the vehicle.
4. Remove the bulb socket by rotating it counterclockwise, then pulling it out of the lamp assembly.



5. Pull the bulb from the socket and push in the new bulb.
6. Install the bulb socket into the lamp assembly by rotating it clockwise.
7. Install the lamp assembly on the vehicle with three nut and washer



## Lights

assemblies ensuring the washers on the nuts are flush with the body to prevent water from entering the trunk.

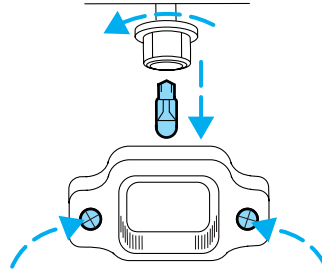
8. Install the plastic retainer and carefully push the carpet back in to place.

### **Replacing license plate lamp bulbs**

1. Make sure headlamp switch is in OFF position, then remove two screws, grommets and the license plate lamp assembly from the trunk lid.

2. Carefully pull the bulb from the socket and push in the new bulb.

3. Install the lamp assembly on trunk lid with two grommets, ensuring the grommets are pushed all the way in to the trunk lid and secure with two screws.

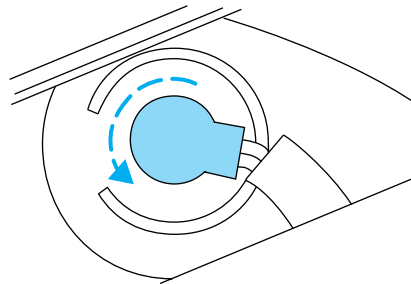


### **Replacing backup lamp bulbs**

1. Make sure headlamp switch is in OFF position, then open trunk and remove bulb socket from the trunk lid by turning counterclockwise.

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

3. Install the bulb socket in trunk lid by turning clockwise.



### **Replacing high-mount brakelamp bulbs**

To change the high-mount brake lamp assembly:

1. Make sure headlamp switch is in OFF position, then pry the light assembly away from its housing to disengage it from the retaining clips.

2. Remove the light assembly from the headliner.

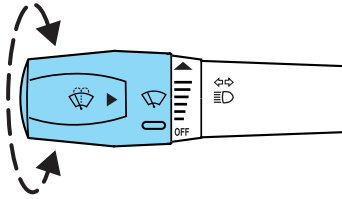
3. Disconnect the light assembly wiring and replace the light assembly.



## Driver Controls

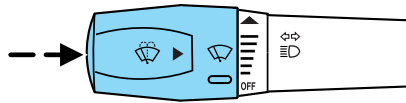
### MULTI-FUNCTION LEVER

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



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

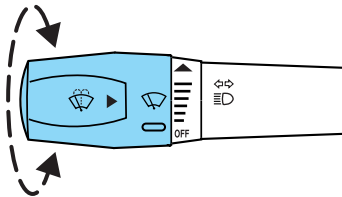
- Quickly pressing the end of the stalk switch causes a single wipe without washer fluid.
- Push and hold the end of the stalk to activate the washer. The wash cycle will continue for up to ten seconds or until released. After release, there will be three clearing wipes.



### Moisture sensitive wipers (if equipped)

The moisture sensitive wipers will automatically activate when moisture is present on the windshield and the multifunction switch is set to one of five Auto/Interval sensitivity settings. The five Auto/Interval sensitivity settings determine how often the wipers will wipe based upon the moisture on the windshield. Rotating the knob from the Auto/Interval position towards the windshield selects a higher sensitivity setting and more wipes will occur. For fewer wipes, select a lower setting.

The wipers will continue to wipe as long as the presence of moisture is detected on the windshield. The speed of the moisture sensitive wipers will vary based on the amount of moisture detected on the windshield and the Auto/Interval setting. The speed is automatically increased at night. When the ignition is turned ON, the wipers will perform one wipe if one of the five Auto/Interval settings is selected.



## Driver Controls

More or less wiping may occur under the following conditions:

- on cool mornings with high humidity
- in very light mist or rain
- salty water/mist
- hydrophobic coating applied to the windshield such as Rain-X or wax (use of these types of coating is not recommended)

You can override the moisture sensitive wiper function by selecting HIGH, LOW and OFF.

The moisture sensitive wiper feature should be turned OFF before entering a car wash.

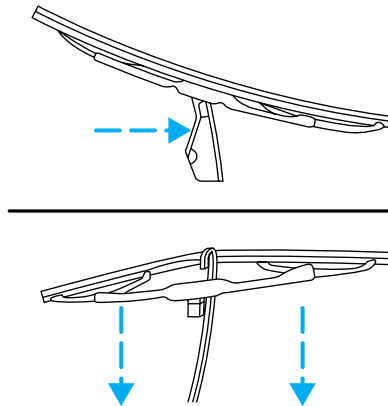
### Windshield wiper/washer features

The exterior lamps will illuminate after 10–20 second delay when the ignition is ON and the windshield wiper control is in the LO or HI position.

The lights will remain on for 30 seconds after the wipers are turned off.

### Changing the wiper blades

1. Pull the wiper arm away from the vehicle. Turn the blade at an angle from the wiper arm. Push the lock pin manually to release the blade and pull the wiper blade down toward the windshield to remove it from the arm.
2. Attach the new wiper to the wiper arm and press it into place until a click is heard.
3. Replace wiper blades every 6 months for optimum performance.

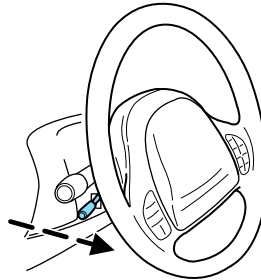


## Driver Controls

### TILT STEERING WHEEL

To adjust the steering wheel:

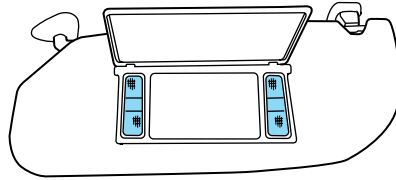
1. Pull and hold the steering wheel release control toward you.
2. Move the steering wheel up or down until you find the desired location.
3. Release the steering wheel release control. This will lock the steering wheel in position.



Never adjust the steering wheel when the vehicle is moving.

### ILLUMINATED VISOR MIRROR (IF EQUIPPED)

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



### OVERHEAD CONSOLE (IF EQUIPPED)

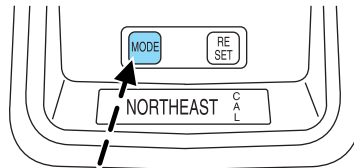
The appearance of your vehicle's overhead console will vary according to your option package. Some of the features in the overhead console include Compass, Homelink, Oil minder and Park assist deactivation.

## Driver Controls

### Normal mode

There are three normal modes; Compass, Oil Minder and Off. To select one of these:

1. From a blank display (OFF), press and release the MODE button once to enter the compass mode.
2. Press and release the MODE button again to enter the oil minder mode.
3. Press and release the MODE button again to return to OFF.



### Warning mode

A system warning will display for oil minder, park assist and alarm system related warnings. A higher priority active warning message will overwrite the lower message. Press the RESET button to acknowledge the warning, the warning message is cleared and a normal mode message or another warning message will be displayed.

- The park assist de-activation cannot be cleared by the RESET button and will remain displayed until the system is reactivated.
- The oil minder has a two-level warning. The first level messages disappear from the display when the RESET button is pressed. The second level messages return on the display after a period of time.
- The alarm system warning will be displayed when you first start the vehicle and can be cleared by pressing the RESET button.

### Compass mode

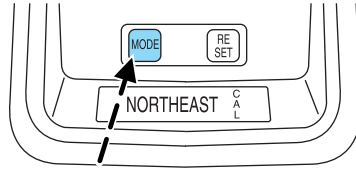
The compass reading may be affected when you drive near large buildings, bridges, power lines and powerful broadcast antenna. Magnetic or metallic objects placed in, on or near the vehicle may also affect compass accuracy.

1. Turn ignition to the ON position.
2. Start the engine.

## Driver Controls

3. From a blank display press and release the MODE button once. The directional heading will be displayed.

**Note:** If the compass is de-calibrated, CAL will be displayed in the right corner of the display. Refer to “*Calibration mode*” in this section for more details.



4. The overhead console displays the compass heading in one of eight directions: NORTH, NORTHEAST, EAST, SOUTHEAST, SOUTH, SOUTHWEST, WEST, and NORTHWEST.

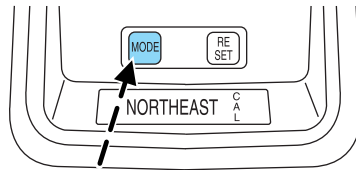
### **Zone variation mode**

Most geographic areas (zones) have a magnetic north compass point that varies slightly from the northerly direction on maps. A correct zone setting will eliminate compass heading error.

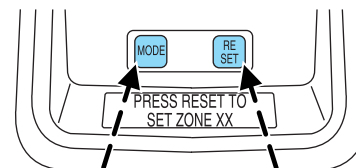
For optimum calibration, turn off all electrical accessories (heater/air conditioning, wipers, etc.) and make sure all vehicle doors are shut.

To set the compass zone:

1. Press and release the MODE button until the compass directional heading is displayed.



2. Hold down the MODE button for 5 seconds to enter zone mode. The display will read PRESS RESET TO SET ZONE XX where XX is the current zone.



3. Release the MODE button.

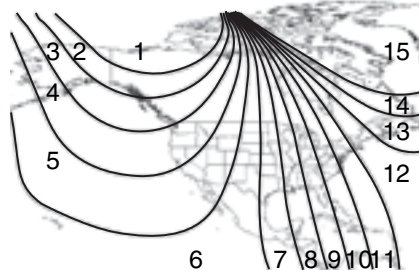
## Driver Controls

4. Repeatedly press and release the RESET button to scroll through the zones 1–15 until the desired zone is displayed.

5. Press the MODE button to save the new zone setting and return to the compass normal mode.

**Note:** The compass exits the zone setting mode and returns to its previous setting after one minute of no activity.

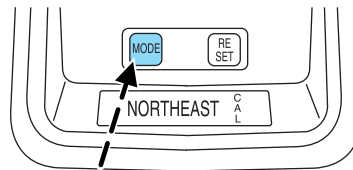
**Note:** If power is interrupted during the zone setting process, the compass resets to the same zone it was set to before the zone change process was started.



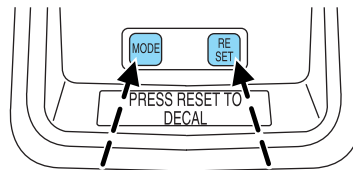
### Calibration mode

To calibrate the compass:

1. Press and release the MODE button until the compass directional heading is displayed.

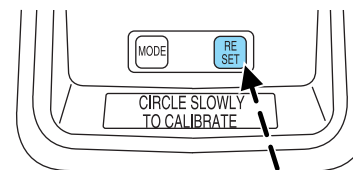


2. Hold down the MODE button for 10 seconds to enter the calibration mode. The display will read PRESS RESET TO DECAL.



3. Release the MODE button.

4. Press the RESET button to de-calibrate the compass. The display will read CIRCLE SLOWLY TO CALIBRATE for a few seconds and then display a direction with CAL displayed on the right side.



5. Slowly drive the vehicle in a circle (less than 5 km/h [3 mph]). This will take up to three circles to complete calibration.



## Driver Controls

6. The correct compass heading will be displayed when the compass is calibrated.

**Note:** If the RESET button is not pressed, the compass will exit calibration mode after three minutes of no activity and the original calibration data will be restored.

**Note:** If power is interrupted during the calibration process, the compass resets to the original calibration data from before the calibration process started.

### **HomeLink® mode (if equipped)**

#### **Train mode**

**Note:** Do not train the HomeLink® with the vehicle parked in the garage.

To train a HomeLink® button to control a specific device:

1. Select the HomeLink® button to train.

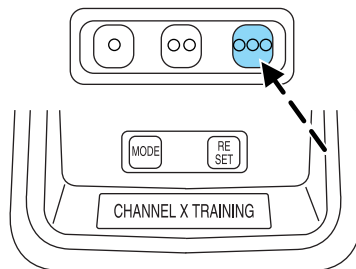
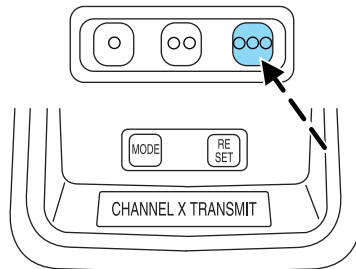
2. Press and continuously hold the button for 20 seconds. CHANNEL X TRANSMIT will be displayed (X will be 1, 2, or 3) during this time.

**Note:** If more than one button is pressed, priority will be given to the lowest numbered channel.

3. After 20 seconds, the display will read CHANNEL X TRAINING to indicate training has started. Continue to hold the button.

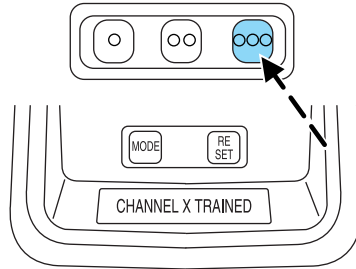
**Note:** If the channel being trained has not been previously trained, the channel will immediately enter the training mode (no 20 second delay).

4. Point the original garage door opener/transmitter at the overhead console. Hold down the original transmitter's button so the overhead console can learn the transmitter's frequency and data stream.



## Driver Controls

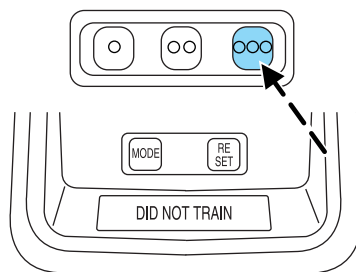
5. Training will be complete in 100 seconds or less. CHANNEL X TRAINED will be displayed when training is complete.



6. DID NOT TRAIN will be displayed if the channel did not properly train.

7. Release the channel X button. Training is complete.

**Note:** Additional training may be required for rolling code equipped devices. Refer to the *Rolling code programming* in this section.



### **Rolling code programming**

To train a garage door opener (or other rolling code equipped devices) with the rolling code feature, follow these instructions **after** completing the “**Train mode**” in this section. (A second person may make the following training procedures quicker & easier)

1. Locate the “**learn**” or “**smart**” button on the garage door motor head unit. Exact location and color of the button may vary by product brand. If there is difficulty locating the “learn” or “smart” button refer to the device’s owner manual or contact HomeLink® at **1-800-355-3515** or on the Internet at **www.homelink.com**.

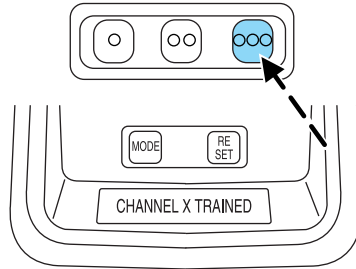
2. Press and release the “learn” or “smart” button on the garage door motor head unit.

**Note:** Following step 2, there are 30 seconds in which to initiate step 3.

## Driver Controls

3. Press and release the programmed HomeLink® button. Press and release the HomeLink® button a *second time* to complete the training process. (Some garage door openers may require this procedure to be done a *third time* to complete the training.)

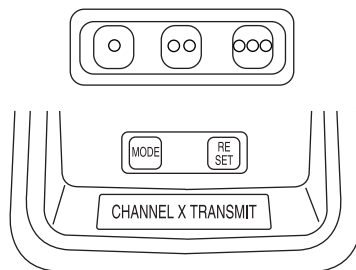
The rolling code equipped device should now recognize the HomeLink® signal and activate when the HomeLink button is pressed. The remaining two buttons may now be programmed if this has not previously been done. Refer to the “*Train mode*” in this section.



### **Transmit mode**

1. Select the button for the desired channel (for example, for the garage door you wish to open).
2. Press the button. CHANNEL X TRANSMIT is displayed.
3. The proper signal is transmitted to the device being controlled.
4. Release the button.

**Note:** If more than one button is pressed, priority will be given to the lowest numbered channel.

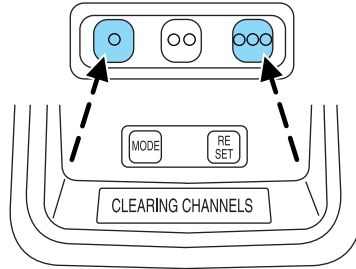


## Driver Controls

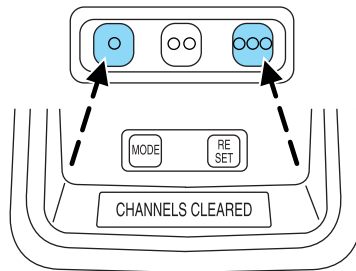
### **Erase mode**

To erase all three HomeLink® channel codes:

1. Simultaneously press and hold buttons 1 and 3 for 20 seconds.
2. CLEARING CHANNELS will be displayed when the channel codes are being erased.



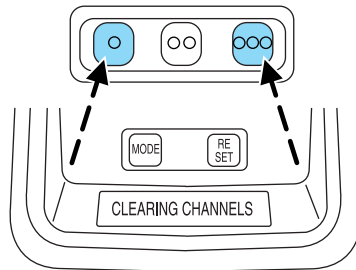
3. CHANNELS CLEARED will be displayed when the erase operation is complete.
4. Release buttons 1 and 3.



### **HomeLink® default code mode**

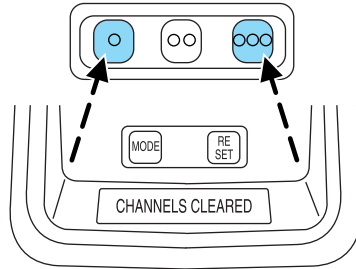
HomeLink® uses default codes for testing and for optional home lighting accessories. To load the default codes:

1. Simultaneously press and hold buttons 1 and 3. CLEARING CHANNELS is displayed.



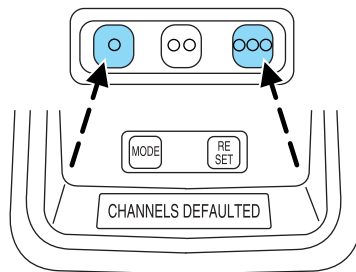
## Driver Controls

2. After 20 seconds CHANNELS CLEARED is displayed. Continue to hold the buttons.



3. After 10 more seconds, CHANNELS DEFAULTED is displayed when all the channel default codes have been successfully loaded.

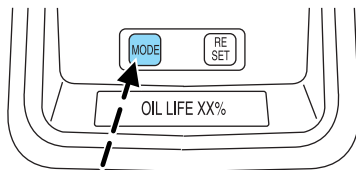
**Note:** If you need to train the garage door opener, refer to “Train mode” in this section.



### **Oil minder mode**

#### **Normal mode**

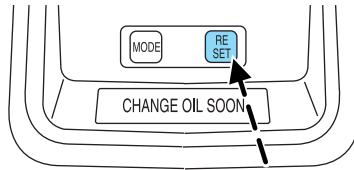
To enter oil minder mode, press the MODE button repeatedly until OIL LIFE XX% is displayed. XX will be 6–100 when oil life is OK.



## Driver Controls

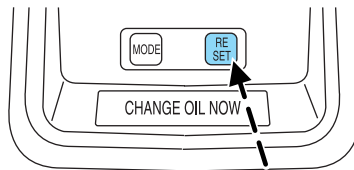
### **Change oil soon**

The overhead console will warn the user that it is time to change the oil based on the number of engine revolution counts, number of miles driven or the calendar time since the last “Oil Life” reset. These values are constantly updated while the vehicle is running. When CHANGE OIL SOON is displayed as a warning, it will be displayed until the RESET button is pressed and revert back to the previous mode.



### **Change oil now**

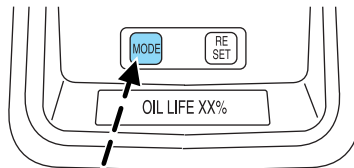
The overhead console will warn the user that the oil needs changing when CHANGE OIL NOW is displayed. This warning will remain on until the oil life is reset in oil minder mode (unless a higher priority message is requested). In any other mode, the CHANGE OIL NOW warning can be cleared by pressing RESET button but will return after a period of time.



### **Reset oil life mode**

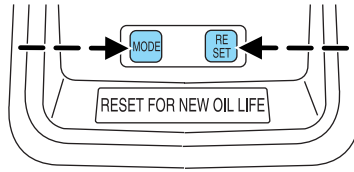
To reset oil minder when the vehicle oil is changed:

1. Press the MODE button repeatedly until one of these three messages is displayed; OIL LIFE XX%, CHANGE OIL SOON or CHANGE OIL NOW.



## Driver Controls

2. Press and hold the MODE button for 5 seconds until RESET FOR NEW OIL LIFE is displayed.
3. Press and hold the RESET button for 2 seconds. The oil life value will be reset to 100%



**Note:** If the RESET button is not pressed after one minute of no activity, the original oil life will be restored.

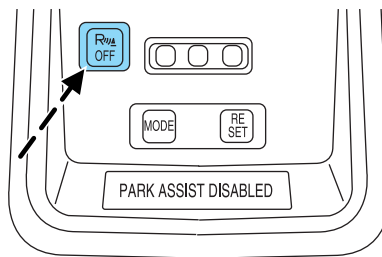
**Note:** If power is interrupted during the reset oil life mode, the overhead console resets the oil life to the original value.

### **Park assist de-activation (if equipped)**

Park assist can be de-activated/re-activated with the transmission in R (reverse) by pressing the control on the overhead console. The system will re-activate every time the ignition key is turned ON.

To de-activate park assist:

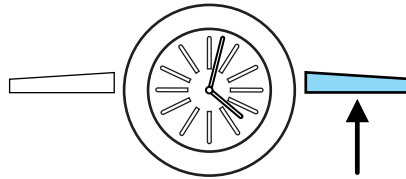
1. Press the **P** OFF button to de-activate. PARK ASSIST DISABLED will be displayed and the button will be backlit **amber**.
2. Press the **P** OFF button again to re-activate. The button will be backlit **green** at night time when the headlamps are ON.



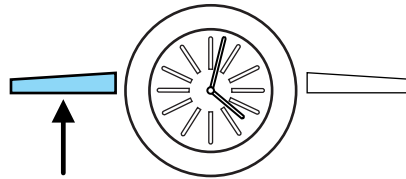
## Driver Controls

### CLOCK

Press the right control to move the time display forward.



Press the left control to move the time display backwards.



### AUXILIARY POWER POINT 12V

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

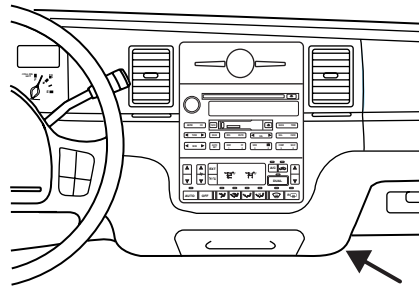
Do not plug optional electrical accessories into the cigarette lighter. Use the power point.

Do not use the power point for operating the cigarette lighter element.

The Maximum power each power point can supply depends on the fuse rating. For example: a 20A fuse should supply a maximum of 240 Watts, a 15A fuse should supply a maximum of 180 Watts and a 10A fuse should supply a maximum of 120 Watts. Exceeding these limits will result in a blown fuse.

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

The auxiliary power point is located under the instrument panel.



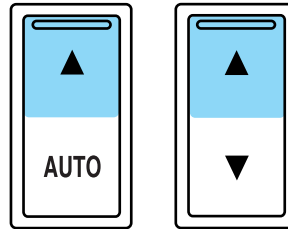


## Driver Controls

### POWER WINDOWS

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

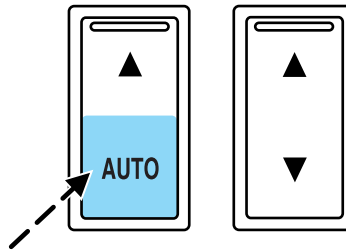
- Press the top portion of the rocker switch to close.
- Press the bottom portion of the rocker switch to open.



### One touch down

- Press AUTO completely down and release quickly. The driver's window will open fully. Depress again to stop window operation.

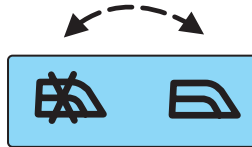
One touch down can be deactivated during operation by pushing down on the top part of the driver power window control.



### 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 (if equipped)

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

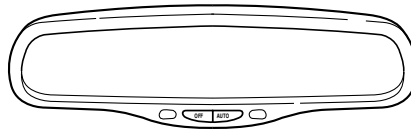
## Driver Controls

### MIRRORS

#### Automatic dimming inside rear view mirror (if equipped)

Your vehicle is equipped with an inside rear view mirror which has an auto-dimming function (available as an option on the outside driver's side mirror). The electronic day/night mirror will change from the normal state to the non-glare state when bright lights (glare) reach the mirror. When the mirror detects bright light from front or behind, it will automatically adjust (darken) to minimize glare.

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



Ensure the mirror is pulled down low enough to prevent visibility interference with the moon roof controls. The mirror support arm has two pivot points which lets you adjust the mirror UP or DOWN and from SIDE to SIDE.

Press the control to turn the mirror on or off.

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

To adjust your mirrors

1. Select **L** to adjust the left mirror or **R** 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 the adjust function.



## Driver Controls

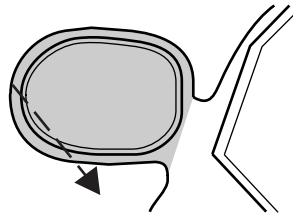
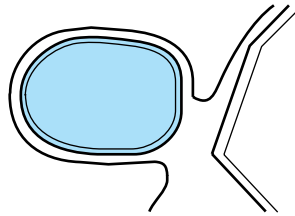
### Heated outside mirrors (if equipped)

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

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

### Fold-away mirrors

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



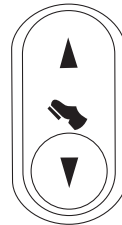
### POWER ADJUSTABLE FOOT PEDALS

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 65 mm (2.5 inches) of maximum travel.



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

### SPEED CONTROL

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

## Driver Controls

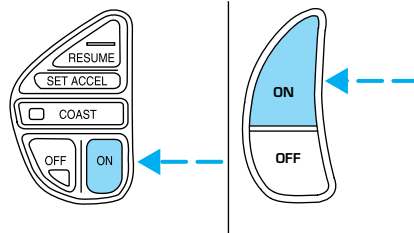


Do not use the speed control in heavy traffic or on roads that are winding, slippery or unpaved.

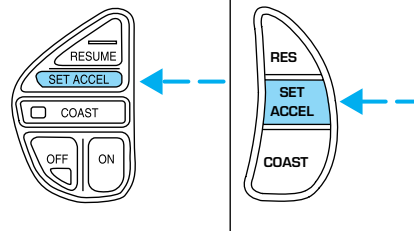
### Setting speed control

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

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



3. Press the SET ACCEL control and release it.
4. Take your foot off the accelerator pedal.
5. The message “SPEED CONTROL” will be displayed in the message center.



### Note:

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

### Disengaging speed control

To disengage the speed control:

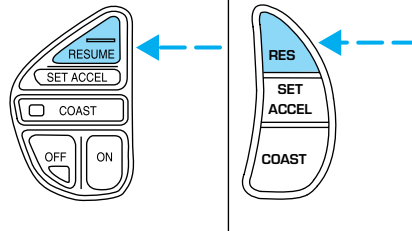
- Depress the brake pedal

Disengaging the speed control will not erase previous set speed.

## Driver Controls

### Resuming a set speed

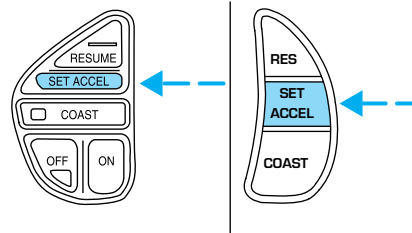
Press the RES/RESUME control and release it. This will automatically return the vehicle to the previously set speed. The RES/RESUME control will not work if the vehicle speed is not faster than 48 km/h (30 mph).



### Increasing speed while using speed control

There are two ways to set a higher speed:

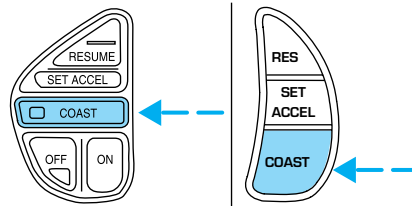
- Press and hold the SET ACCEL control until you get to the desired speed, then release the control. You can also use the SET ACCEL control to operate the Tap-Up function. Press and release this control to increase the vehicle set speed in small amounts by 1.6 km/h (1 mph).
- Use the accelerator pedal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



### Reducing speed while using speed control

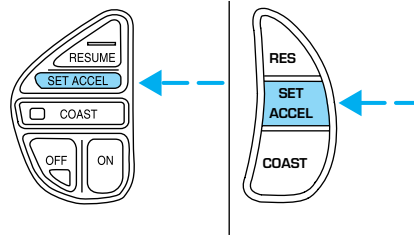
There are two ways to reduce a set speed:

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



## Driver Controls

- Depress the brake pedal until the desired vehicle speed is reached, press the SET ACCEL control.

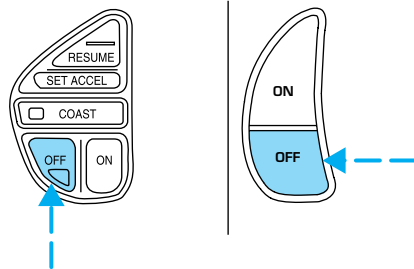


### Turning off speed control

There are two ways to turn off the speed control:

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

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



### Indicator light

#### Indicator message

This message is displayed in the Message Center when either the SET ACCEL or RES/RESUME controls are pressed. It turns off when the speed control OFF is pressed, the brake is applied or the ignition is turned to the OFF position.

## SPEED CONTROL

### STEERING WHEEL CONTROLS (IF EQUIPPED)

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

## Driver Controls

### Radio control features

- Press BAND/MODE to select AM, FM1, FM2, TAPE or CD (if equipped).

In Radio mode:

- Press MEM/NEXT to select a preset station from memory.

In Tape mode:

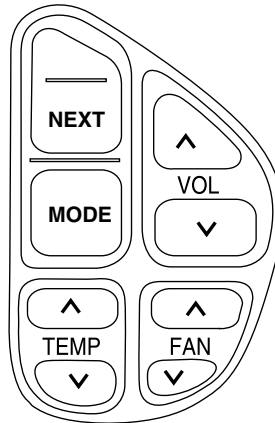
- Press MEM/NEXT to listen to the next selection on the tape.

In CD mode:

- Press MEM/NEXT to listen to the next track on the disc.

In any mode:

- Press VOL up or down to adjust the volume.



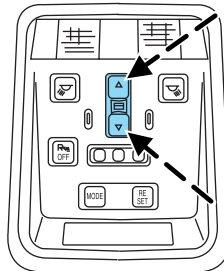
### Climate control features

- Press TEMP up or down to adjust temperature.
- Press FAN up or down to adjust fan speed.

### MOON ROOF (IF EQUIPPED)

To open the moon roof:

- Press and release the control.
- For one-touch operation, press and release the rear portion of the control; this will fully open the moon roof.
- To stop one-touch operation at the desired position, press and release the forward portion of the control.



To close the moon roof:

- Press and hold the front portion of the control.
- To close from the vent position, press and hold the rear portion of the control.

## Driver Controls



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

### 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.



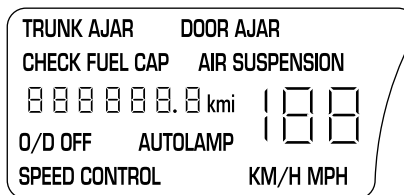
A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communications Equipment.

### ELECTRONIC MESSAGE CENTER

The electronic message center only works when the ignition is in the ON position.

The message center allows you to:

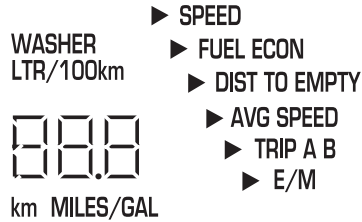
- see problems such as door ajar and trunk ajar.
- check the on/off status of air suspension, autolamp and speed control systems.





## Driver Controls

- see a more accurate speed while driving (this may not show the same speed as your analog speedometer).
- see how many kilometers/miles you can drive before running out of fuel.
- monitor the average fuel economy.
- monitor the average speed.
- check the distance traveled during a trip on either Trip A or Trip B.



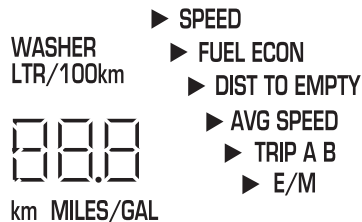
You can select different features for the message center to display by using the message center controls located in the center of the instrument panel.

### Selectable features

#### Select

Each press of the SELECT control will select a different feature as follows:

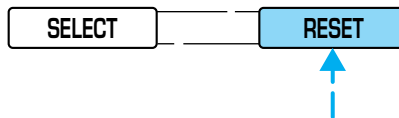
- SPEED
- FUEL ECON
- DIST TO EMPTY
- AVG SPEED
- TRIP A/TRIP B
- E/M



For descriptions of the SELECT features, refer to “Message center functions” later in this chapter.

#### Reset

Press this control to reset the selected message center function to zero. (The only functions which can be reset are FUEL ECON and TRIP A or B.)



## Driver Controls

### Message center functions

#### **Speed**

To use this function, select SPEED and press the RESET control. Your speed from that point will be displayed on the left side of the cluster until RESET is pressed again.

- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ AVG SPEED
- ▶ TRIP A B
- ▶ E/M

#### **Fuel econ (average fuel economy)**

Select this function 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)

- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ AVG SPEED
- ▶ TRIP A B
- ▶ E/M

#### **Checking your highway fuel economy using the electronic message center display**

The following procedure will allow you to accurately monitor your actual highway fuel economy. Since this procedure requires the vehicle speed control system to be set to highway speeds, it must be run only on suitable roadways where long distance speed control can be safely maintained.

You may notice gradual improvement in fuel economy over the course of your vehicle's break-in period (approximately 1 600 kilometers [1 000 miles]).

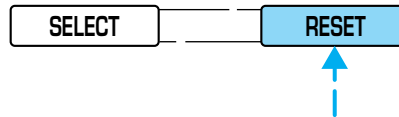
1. Set the speed control. Refer to *Speed control* in this chapter.

## Driver Controls

2. Select FUEL ECON

- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ AVG SPEED
- ▶ TRIP A B
- ▶ E/M

3. Press the RESET control to clear the system memory.



- *Actual highway fuel economy is now displayed.* This current average measure will change as the speed control system changes the engine speed to maintain a constant vehicle speed. This is most noticeable in hilly environments.
4. Drive the vehicle at least 8 km (5 miles) with the speed control system engaged to display a stabilized average.
5. 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.

### **Dist to empty (DTE)**

This function 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.

- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ AVG SPEED
- ▶ TRIP A B
- ▶ E/M

The DTE function will flash for 5 seconds and sound a tone for 1 second when you have approximately:

- 80 km (50 miles) left before you run out of fuel
- 40 km (25 miles)
- 16 km (10 miles)

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

## Driver Controls

If “CO” or “CS” is displayed, there is a problem with the fuel indication system and you should contact your dealer for service as soon as possible.

### **AVG speed**

To use this function, select AVG SPEED and press the RESET control. Your average speed from that point will be displayed until RESET is pressed again.

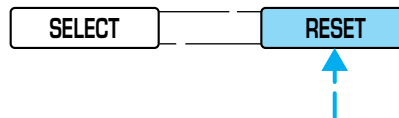
- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ **AVG SPEED**
- ▶ TRIP A B
- ▶ E/M

### **Trip A B**

These two functions allow you to see how far you have traveled since you last reset. Trip A and Trip B are completely independent and must be reset individually.

- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ AVG SPEED
- ▶ **TRIP A B**
- ▶ E/M

To reset either trip feature to zero, press the RESET control while the appropriate trip distance feature (A or B) is displayed.



### **E/M**

When this function is displayed, press the RESET control to change the message center display from metric to English units or from English to metric units.

- ▶ SPEED
- ▶ FUEL ECON
- ▶ DIST TO EMPTY
- ▶ AVG SPEED
- ▶ TRIP A B
- ▶ **E/M**

## Driver Controls

### POWER TRUNK (IF EQUIPPED)

Your vehicle is equipped with a power trunk controlled by the interior trunk control, the key fob or the keypad on the door.

If anything obstructs the power trunk while it is closing, the trunk will automatically reverse to the open position, provided it meets sufficient resistance. Resistance must be as strong as the force of the closing trunk, or stronger. The force of the closing trunk increases as the trunk approaches the latched position. The trunk will close with the next press of the interior trunk control or key fob button.



Make sure all persons are clear of the luggage compartment area before using the power trunk control.

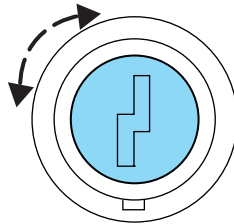
If the battery is disconnected, discharged, or a new battery is installed, the power trunk needs to be reset. To reset the power trunk:

- Reconnect the battery with the trunk closed
- Power activate the trunk with the power interior trunk release, the key fob or the keypad on the door to the full open position, then power activate the same power source and fully close the trunk. The power trunk is now reset.

### INTERIOR TRUNK CONTROL

The remote trunk release control is located on the driver's door trim panel and can be operated at any time except when your perimeter alarm system is armed.

If your vehicle is equipped with a power trunk, press the button once to open the trunk, press it again to close.



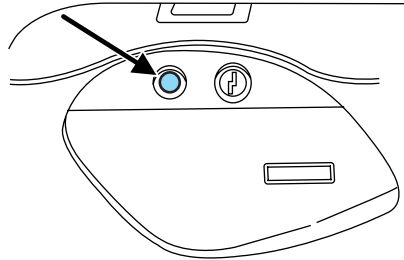
You can render the switch inoperable by locking the button with your master key.

The remote trunk release control and power door locks will be disabled when the vehicle perimeter alarm system is armed. This control will not work until the vehicle perimeter alarm system is disarmed. Refer to *Perimeter Alarm System* in the *Locks and Security* chapter.

## Driver Controls

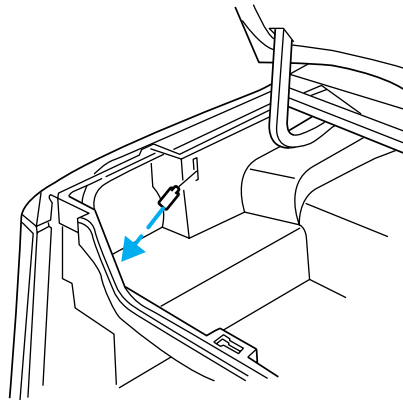
### FUEL DOOR RELEASE

Your vehicle is equipped with a locking fuel door. To open the door, press the control located on the door.



### Fuel filler door override release

If the remote release is inoperative, open the trunk, then pull the override release handle located inside the trunk to open the fuel filler door.



### REAR CENTER CONSOLE FEATURES (IF EQUIPPED)

The rear center console incorporates the following features:

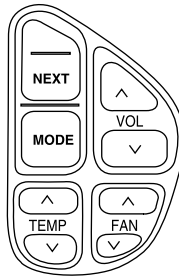
- utility compartment
- auxiliary power point (if equipped)
- remote radio/climate controls (if equipped)
- remote seat adjustment (if equipped)

## Driver Controls

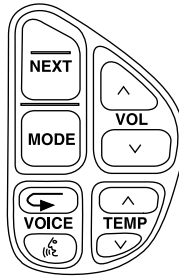
### Radio/climate controls

Refer to *Steering Wheel Controls* in this chapter for operation instructions.

#### Without navigation system



#### With navigation system



### Radio/climate controls lockout

The rear radio/climate control feature can be locked out by pressing the 3 and the 5 buttons on the radio simultaneously while the radio is on. To enable the rear radio/climate controls, press the 3 and the 5 buttons again.

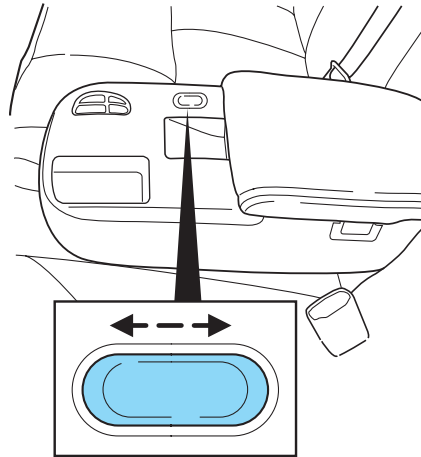
For navigation radio, press audio button, press sound soft button, press disable rear controls soft button.

## Driver Controls

### Remote seat adjustment

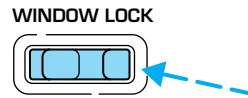
The rear passenger can move the front passenger seat forward or backward using the control located in the rear center console.

Move the control forward or backward to move front passenger seat.



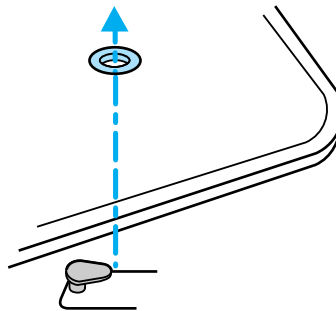
### Remote seat adjustment lockout

The window lockout control, located on the drivers door, will also lockout the remote seat adjustment. To lock out the remote seat adjustment feature, press the right side of the control. Press the left side to restore the remote seat adjustment control.



### POSITIVE RETENTION FLOOR MAT

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





## Locks and Security

### KEYS

Your vehicle is equipped with a master (black) key and a valet (gray) key lock system. The master (black) key will access:

- the driver's door,
- the trunk,
- the glove box,
- the ignition, and
- the interior trim remote trunk release.

The valet (gray) key will access:

- the driver's door,
- the ignition.

Before using the valet key, lock the interior trim remote trunk release control and the glove box with the master (black) key.

### POWER DOOR LOCKS

Press control to unlock all doors.

**Note:** When Perimeter Alarm is armed, this switch is disabled.



Press control to lock all doors.



### Smart locks

With the key in the ignition, in any switch position, and either the driver's or passenger's door open, the doors cannot be locked using the power door lock switches.

### Central locking/unlocking

- All doors are locked when the key is inserted into the driver door key cylinder and turned to the lock position.
- The driver's door is unlocked when the key is inserted into the driver door key cylinder and turned to the unlock position.
- If the key is turned a second time to the unlock position within 5 seconds, all vehicle doors will unlock.

## Locks and Security

### Power door trim switch inhibit

This feature disables the power door locks and trunk interior release switches if all doors are closed and the perimeter alarm becomes armed.

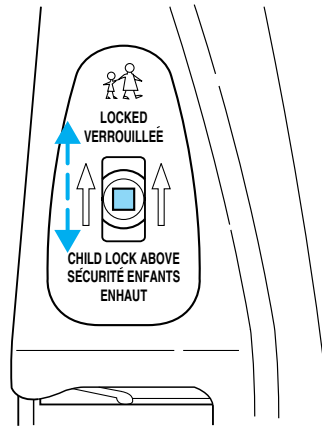
Once the power door trim switches are disabled, they can only become active when Perimeter Alarm is disarmed.

### 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.



### INTERIOR LUGGAGE COMPARTMENT RELEASE

Your vehicle is equipped with a mechanical interior luggage compartment release handle that provides a means of escape for children and adults in the event they become locked inside the luggage compartment.

Adults are advised to familiarize themselves with the operation and location of the release handle.

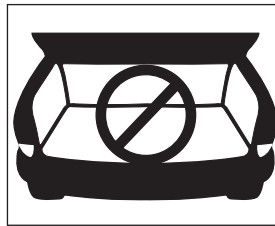
## Locks and Security

To open the luggage compartment door (lid) from within the luggage compartment, pull the illuminated “T” shaped handle and push up on the trunk lid. The handle is composed of a material that will glow for hours in darkness following brief exposure to ambient light.

The “T” shaped handle will be located either on the luggage compartment door (lid) or inside the luggage compartment near the tail lamps.



Keep vehicle doors and luggage compartment locked and keep keys and remote transmitters out of a child's reach. Unsupervised children could lock themselves in the trunk and risk injury. Children should be taught not to play in vehicles.



On hot days, the temperature in the trunk or vehicle interior can rise very quickly. Exposure of people or animals to these high temperatures for even a short time can cause death or serious heat-related injuries, including brain damage. Small children are particularly at risk.

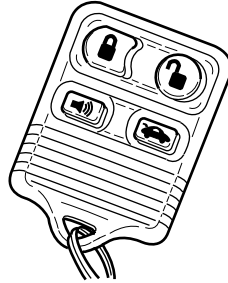
### REMOTE ENTRY SYSTEM

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.

## Locks and Security



**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 without a key. **Note:** the remote entry features operate with the ignition in any position except in RUN, when the transmission is in any position other than P (Park) or N (Neutral).



If there is a problem with the remote entry system make sure to take **ALL remote entry transmitters** with you to the dealership, this will aid in troubleshooting the problem.

### Unlocking the doors

1. Press  and release to unlock the driver's door. **Note:** The interior lamps will illuminate.
2. Press  and release again within five seconds to unlock all the doors.

### Security lighting



Your vehicle's headlamps and park lamps will illuminate if:

- it is dark outside (evening),
- the headlamp control is in the autolamp position, and
- the unlock control is pressed on the remote entry transmitter.

The headlamps and parklamps remain illuminated:

- for 25 seconds, or
- until you turn the ignition from the OFF position, or
- until the vehicle doors are locked using the remote entry transmitter or the power door unlock control.

### Locking the doors

1. Press  and release to lock all the doors. **Note:** The interior lamps will turn off, the horn will chirp and the parklamps will flash.
2. Press  and release again within five seconds to confirm that all the doors are closed and locked. **Note:** The doors will lock again, the horn will chirp once and the parklamps/tail lamps will flash.

## Locks and Security

### **Deactivating/activating the horn chirp feature**

The horn chirp feature can be turned on/off through the following procedure:

Complete steps 1-7 within 30 seconds or you must repeat the procedure. Wait 30 seconds before repeating the procedure.

1. Turn the ignition to the ON position.
2. Press the power door unlock control on the door panel 3 times.
3. Cycle the ignition from the ON to the OFF position.
4. Press the power door unlock control 3 times.
5. Turn the ignition to the ON position. The doors will lock and unlock.
6. Press the unlock control twice within 5 seconds. The horn will chirp twice to indicate a successful activation/deactivation of the horn chirp feature.
7. Turn the ignition to the OFF position.


### **Sounding a panic alarm**


Press  on the remote transmitter to activate the alarm. **Note:** The panic alarm only works with the ignition in the OFF position.

Press  a second time to deactivate the alarm. You may also deactivate the alarm in the following ways:

- Turn the ignition to the ACC, ON or START positions.
- Wait 2 minutes and 45 seconds for the alarm to time-out.

### **Opening the trunk**

Press  once to open the trunk.

If your vehicle is fitted with the optional power decklid, press  twice to open the trunk and twice to close it.



Before operating the power decklid, be sure that no one, particularly a child, is in a position where he or she can be injured by the trunk lid. NEVER leave the remote entry transmitter where it can be inadvertently activated, as someone could be seriously injured by a moving decklid.

- Ensure that the trunk is closed and latched before driving your vehicle. Failure to properly latch the trunk may cause objects to fall out or block the driver's rear view.

## Locks and Security

The remote entry system allows you to open the trunk while the ignition is in any position. However, if the ignition is in the ON position and the gearshift is in D (Drive), the trunk will only open if the vehicle is moving 5 km/h (3 mph) or slower.

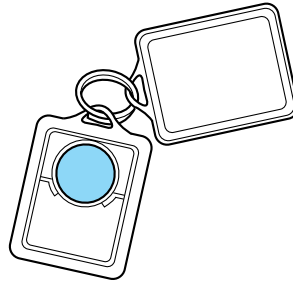
### Replacing the battery

The remote entry transmitter uses one coin type three-volt lithium battery CR2032 or equivalent. The typical operating range for your remote entry transmitter is approximately 10 meters (33 feet). A decrease in the operating range could be caused by:

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

To replace the battery:

1. Twist a thin coin between the two halves of the remote entry transmitter near the key ring. DO NOT TAKE THE FRONT PART OF THE REMOTE ENTRY TRANSMITTER APART.
2. Remove the old battery.
3. Insert the new battery. Refer to the diagram inside the remote entry transmitter for the correct orientation of the battery.
4. Snap the two halves back together.



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

### Replacing lost remote entry transmitters

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

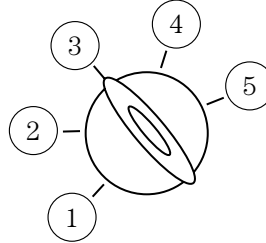
#### **How to reprogram your remote entry transmitters**

You must have **all remote entry transmitters** (maximum of four) available before beginning this procedure.

## Locks and Security

To reprogram the remote entry transmitters:

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



### Illuminated entry

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

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

- the ignition switch is turned to the ON or ACC positions, or
- the remote transmitter lock control is pressed, or
- after 25 seconds of illumination.

The dimmer panel 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 last door is closed, or after 10 minutes if the last door is left open.

## Locks and Security

### **Autolock**

This feature automatically locks all vehicle doors when the following conditions are met:

- all the doors are closed,
- the engine is running,
- you shift into gear, putting the vehicle in motion, and.
- the vehicle's speed is greater than 5 km/h (3 mph).

### **Relock**

The autolock feature repeats when the following conditions are met:

- any door is opened then closed while the engine is running, and
- you put the vehicle in motion.

### **To deactivate/reactivate the autolock feature using the power door unlock control**

You must complete steps 1-7 within 30 seconds or the procedure will have to be repeated. If the procedure needs to be repeated, you must wait 30 seconds.


1. Turn the ignition key to RUN.
2. Press the power door unlock control three times.
3. Turn the ignition key from RUN to OFF.
4. Press the power door unlock control three times.
5. Turn the ignition back to RUN. The horn will chirp.
6. Press the unlock control. The horn will chirp once to indicate the enabling/disabling of the autolock feature.
7. Turn the ignition to OFF. The horn will chirp once to confirm the procedure is complete.

Pressing the power door unlock control again will toggle the Autolock/Relock states.

Turn ignition to OFF to exit programming.

### **Memory seat/mirrors/adjustable pedals feature (if equipped)**

The remote keyless entry system can also control the memory seats/mirrors/adjustable pedals feature. With this feature, the first two programmed transmitters will recall a different memory position.

Press  once to unlock the driver's door and move the memory features to the corresponding memory position, just as if you had pressed the memory control in the vehicle.

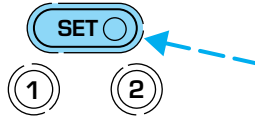


## Locks and Security

### **Activating the memory seat/mirrors/adjustable pedals feature**

To activate this feature:

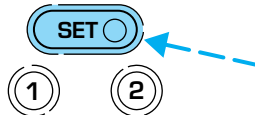
1. Position the seat, mirrors and adjustable pedals to the position desired.
2. Press the SET control on the driver's door panel.
3. Within five seconds, press one control on the remote transmitter and then press the 1 or 2 button on the driver's door panel to which you would like to associate with the memory positions and Driver 1 or Driver 2 positions.
4. Repeat this procedure for another remote transmitter, if desired.



### **Deactivating the memory seat/mirrors/adjustable pedals feature**

To deactivate this feature:

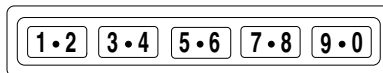
1. Press the SET control on the driver's door panel.
2. Within five seconds, press one control on the remote transmitter which you would like to deactivate and then press the SET control on the driver's door panel .
3. Repeat this procedure for another remote transmitter, if desired.



### **KEYLESS ENTRY SYSTEM (IF EQUIPPED)**

You can use the keyless entry keypad to:

- lock or unlock the doors without using a key.
- open the trunk.



The keypad can be operated with the factory set 5-digit entry code; this code is located on the owner's wallet card in the glove box, is marked on the computer module, and is available from your authorized dealer. You can also create your own 5-digit personal entry code.

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

#### **Programming a personal entry code**

To create your own personal entry code:

1. Enter the factory set code.

## Locks and Security

2. Within five seconds press the 1 • 2 on the keypad.
3. Enter your personal 5-digit code. Each number must be entered within five seconds of each other.
4. Enter a sixth digit to indicate which personality feature should be recalled by the personal code.
  - 1 • 2 recalls driver personality 1.
  - 3 • 4 recalls driver personality 2.
  - 9 • 0 does not recall a driver personality.

All of the vehicle doors will lock and unlock to confirm programming of the new code. Each driver personality profile (personality 1 or personality 2) can be associated with only one personal code. The factory-set code cannot be associated with a personality code.

You can program up to three personal codes to unlock your vehicle. These codes do not replace the permanent code that was provided by your dealer.

### **Tips for setting codes:**

- Do not set a code that uses five of the same number.
- Do not use five numbers in sequential order.

### **Erasing personal code**

1. Enter the factory set 5–digit code.
2. Press and hold the 1 • 2 for two seconds and release; this must be done within five seconds of completing step 1.
3. Press and hold the 1 • 2 for two seconds to erase the customer programmed code; this must be done within five seconds of completing step 2.

Your personal code is now erased and only the factory set 5–digit code will work.

### **Unlocking and locking the doors using keyless entry**

**To unlock the driver's door**, enter the factory set 5-digit code or your personal code. Each number must be pressed within five seconds of each other. The interior lamps will illuminate after pressing the first control on the keypad.

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

**To lock all doors**, press the 7 • 8 and the 9 • 0 at the same time. You **do not** need to enter the keypad code first. **Note:** The interior lamps will turn off.

## Locks and Security

### **Releasing the trunk with the keyless entry system**

To release/open the trunk, enter the factory-set code or personal code (driver door unlocks) and press 5 • 6 within five seconds.

If your vehicle is equipped with the optional power decklid, pressing 5 • 6 again will close it (you may need to reenter the keypad code again).



Before operating the power decklid, be sure that no one, particularly a child, is in a position where he or she can be injured by the trunk lid. NEVER leave the remote entry transmitter where it can be inadvertently activated, as someone could be seriously injured by a moving decklid.

### **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 use of the wrong type of coded key may lead to a “no-start” condition.

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

**Note:** The SecuriLock™ passive anti-theft system is not compatible with non-Ford aftermarket remote start systems. Use of these systems may result in vehicle starting problems and a loss of security protection.

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

### **Theft indicator**

The theft indicator is located on top of the instrument 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.

## Locks and Security

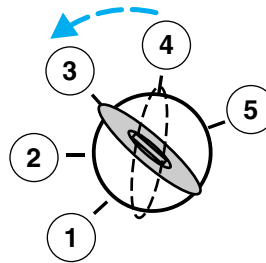
- When the ignition is in the RUN position, the indicator will glow for 3 seconds to indicate normal system functionality.

If a problem occurs with the SecuriLock<sup>SM</sup> system, the indicator will flash rapidly or glow steadily when the ignition is in the RUN 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 3 (OFF) or 2 (LOCK) position.

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



### Automatic disarming

Switching the ignition to the 4 (ON) position with a **coded key (programmed to your vehicle)** disarms the vehicle and allows the engine to start. The indicator on the instrument panel will illuminate for three seconds and then go out. If the indicator stays on for an extended period of time or flashes rapidly, have the system serviced by your dealership or a qualified technician.

### Replacement keys

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

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

### Programming spare keys

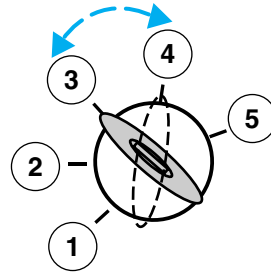
You can program your own coded keys to your vehicle. Please read and understand the entire procedure before you begin.

## Locks and Security

### Tips:

- A maximum of eight keys can be coded to your vehicle.
- Only use Securilock<sup>SM</sup> keys.
- You must have two previously programmed coded keys (keys that already operate your vehicle's engine) and the new unprogrammed key(s) readily accessible.
- If no previously programmed coded keys are available, you must take your vehicle to your dealer to have the spare key(s) programmed.

1. Insert a previously programmed coded key into the ignition.
2. Turn the ignition from the 3 (OFF) position to the 4 (ON) position. Keep the ignition in the 4 (ON) position for at least one second, but no more than 10 seconds.



3. Turn the ignition to the 3 (OFF) position, and remove the coded key from the ignition.
4. Within ten seconds of removing the previously programmed coded key, insert the other previously programmed coded key into the ignition.
5. Turn the ignition from the 3 (OFF) position to the 4 (ON) position. Keep the ignition in the 4 (ON) position for at least one second but not more than 10 seconds.
6. Turn the ignition to the 3 (OFF) position, and remove the second key from the ignition.
7. Within twenty seconds of removing the previously programmed coded key, insert the unprogrammed key (new/valet key) into the ignition.
8. Turn the ignition from the 3 (OFF) position to the 4 (ON) position. Keep the ignition in the 4 (ON) position for at least one second.
9. Your new unprogrammed key is now programmed.

If the key has been successfully programmed it will start the vehicle's engine and the theft indicator light will illuminate for three seconds and then go out. If the key was not successfully programmed, it will not start your vehicle's engine and the theft indicator light will flash on and off rapidly. If failure repeats, bring your vehicle to your dealer to have the new key(s) programmed.

To program additional new unprogrammed key(s), repeat this procedure from step 1 for each additional key.

## Locks and Security

### PERIMETER ALARM SYSTEM (IF EQUIPPED)

The perimeter anti-theft system will help prevent your vehicle from unauthorized entry.

If there is any potential perimeter anti-theft problem with your vehicle, ensure **ALL remote entry transmitters** are taken to the dealership to aid in troubleshooting.

Your perimeter alarm system may include an interior motion detection system (intrusion sensing). The interior motion detection system detects an unauthorized vehicle entry by sensing movement within the vehicle.

**The interior motion detection system will operate only when the vehicle is locked using the remote keyless entry (keypad or remote transmitters). If you lock the vehicle using the key in the driver's door key cylinder, the perimeter alarm will arm, but the interior motion detection system will not arm.**

Do not arm the interior motion detection system if movement within the vehicle is likely to occur (i.e. a pet is left inside the vehicle).

For proper operation of the interior motion detection system, close all windows and moonroof prior to arming the system. This will prevent accidental alarm activation caused by external influences and ensure proper interior motion detection.

### Arming the system

When armed, the perimeter alarm will notify you of an unauthorized entry. When unauthorized entry occurs, the system will flash the park lamps and will sound the horn.

The system is ready to arm whenever the key is out of the ignition. Any of the following actions will arm the alarm system:

- Press the remote transmitter lock control one time to arm the system.
- Lock all doors using the keypad.
- Lock all doors using the interior power lock switch while the driver or passenger door is open and then closed.
- Lock all doors with the key in the key lock cylinder (this will **not** arm the interior motion detection system, if equipped).

The park lamps will flash once and the horn will chirp once if all the closures are closed.

If any closure is not properly closed, the park lamps will not flash and the horn will chirp twice.

The system will wait 20 seconds after one of the actions is performed before allowing an alarm to go off. After the 20-second pre-arm phase,

## Locks and Security

the interior trim remote trunk release control and the power door unlock control are disabled, in order to further protect your vehicle.

### Disarming the system

You can disarm the system by any of the following actions:

- Unlock the doors by using the remote entry transmitter.
- Unlock the doors using a valid code on the keypad.
- Unlock the doors with the key in the key lock cylinder.
- Turn the ignition to RUN with a programmed coded ignition key.

**Note:** To open the trunk and momentarily suspend the alarm system (for example, if you armed the vehicle and forgot to place or retrieve an item from the trunk), open the trunk using the remote entry transmitter or the keyless keypad. If you use the key in the trunk lock cylinder in order to open the trunk, the alarm may go off. Your vehicle's doors and hood will remain protected; only the trunk and interior motion detector are momentarily suspended (until the trunk is closed again).

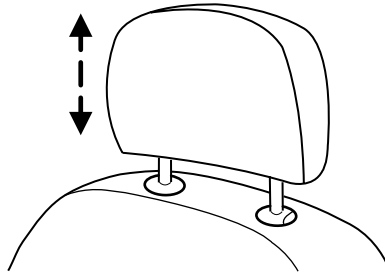
## Seating and Safety Restraints

### SEATING

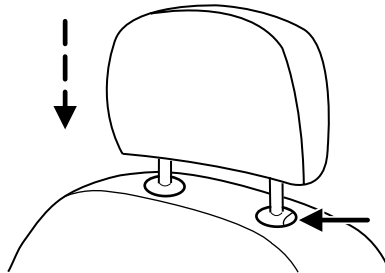
#### Adjustable head restraints

Your vehicle's seats 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. Refer to the following to raise and lower the head restraints.

The head restraints can be moved up and down.



Push control to lower head restraint.



#### Using the manual recline function (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.

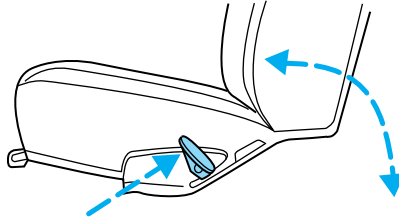


## Seating and Safety Restraints

 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.

To adjust the front seatback using the manual recliner:

- Lift and hold the handle located on the side of the seat.
- Lean against the seatback to adjust it to your desired position. You can recline the seat back or bring it forward.
- Release the handle when the desired position has been reached.



### Front seat armrest

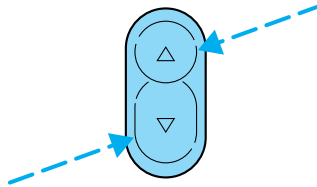
The front seat armrest has a locking feature which is engaged when the armrest is in the up position and a collision with sufficient forward deceleration causes a locking pin to activate. To disengage this locking pin, the armrest must be inspected and serviced by a qualified technician in accordance with the vehicle service manual.

### Using the power lumbar support (if equipped)

The power lumbar control is located on the front inboard side of the seat.

Press the top side of the control to adjust firmness.


Press the bottom side of the control to adjust softness.




### Adjusting the power front seats – door mounted controls


The controls for the power seats are located on the inside of each front door.

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

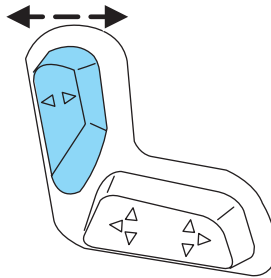
 Do not pile cargo higher than the seatbacks to avoid injuring people in a collision or sudden stop.

## Seating and Safety Restraints

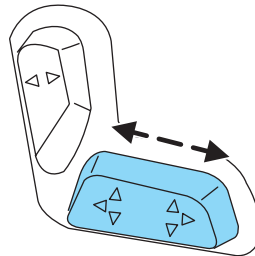
 Always drive and ride with your seatback upright and the lap belt snug and low across the hips.

 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.

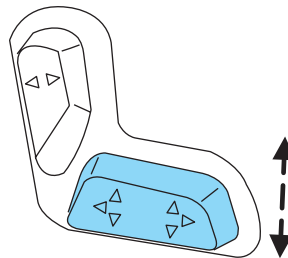
Press the control to recline the seatback forward or backward.



Press to move the seat forward or backward.

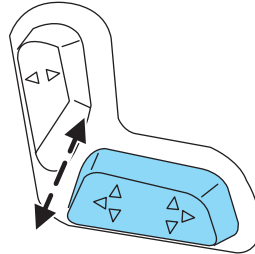


Press to move the front portion of the seat cushion up or down.



## Seating and Safety Restraints

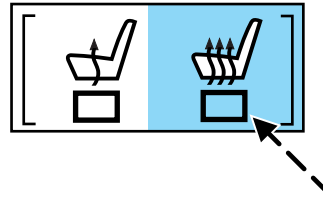
Press to move the rear portion of the seat cushion up or down.



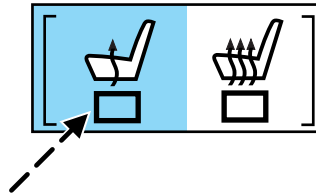
### Heated seats (if equipped)

To operate the heated seats:

- Push the indicated side of the control for maximum heat.
- Push again to deactivate.



- Push the indicated side of the control for minimum heat.
- Push again to deactivate.



The heated seat module resets at every ignition run cycle. While the ignition is in the run position, activating the high or low heated seat switch enables heating mode. When activated, they will turn off automatically when the ignition is turned to the OFF position.

The indicator light will illuminate when the heated seats have been activated.

### Rear heated seats (if equipped)

The rear seat heat controls are located on the rear door panels and operate like the front heated seats. Refer to the *Heated Seats* section in this chapter for instructions on operating the rear heated seats.

## Seating and Safety Restraints

### Easy-access/easy-out feature (if equipped)

This feature automatically moves the driver's seat backward when:

- the transmission is in N (Neutral) or P (Park)
- the key is removed from the ignition cylinder

The seat will move 5 cm (2 inches) forward (to the original position) when:

- the transmission is in N (Neutral) or P (Park)
- the key is placed in the ignition cylinder

### Seat mounted cup holders

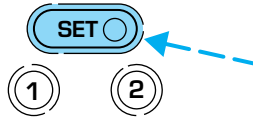
Your vehicle may be equipped with cupholders in the cushion of the front center seat and the rear seat . The rear seat cupholder is designed to over rotate from the seat when subjected to a heavy load. The rear seat cupholder can be reset by rotating to the closed position.



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

### Memory seats/rearview mirrors/adjustable pedals (if equipped)

This system allows automatic positioning of the driver seat, outside rearview mirrors, and adjustable pedals to three programmable positions.



The memory seat control is located on the driver door.

- To program position one, move the driver seat to the desired position using the seat controls. 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.
- To program position three, repeat the previous procedure but press controls 1 and 2 simultaneously.

A position can only be recalled when the transmission gearshift is in Park. A memory seat position may be programmed at any time.

The memory seat positions are also recalled when you press your remote entry transmitter UNLOCK control.

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

## Seating and Safety Restraints

### SAFETY RESTRAINTS

#### Personal Safety System

The Personal Safety System provides an improved overall level of frontal crash protection to front seat occupants and is designed to help further reduce the risk of 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 the following items:

- Driver and passenger dual-stage air bag supplemental restraints
- Driver and front passenger side air bags
- Front safety belts with pretensioners, energy management retractors, and safety belt usage sensors
- Driver's seat position sensor
- Passenger occupant classification sensor
- Front crash severity sensor
- Restraints Control Module (RCM) with impact and safing sensors
- 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, passenger occupant classification 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 and pretensioners 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.

## Seating and Safety Restraints

### ***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.

### ***Passenger occupant classification sensor (OCS)***

For air bags to do their job they must inflate with great force, and this force can pose a potentially deadly risk to occupants that are very close to the air bag when it begins to inflate. For some occupants, this occurs because they are initially sitting very close to the air bag. For other occupants, this occurs when the occupant is not properly restrained by seat belts or child safety seats and they move forward during pre-crash braking. The most effective way to reduce the risk of unnecessary injuries is to make sure all occupants are properly restrained. Accident statistics suggest that children are much safer when properly restrained in the rear seating positions than in the front.



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



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

The passenger occupant classification sensor can automatically turn off the passenger front air bag and side air bag (if equipped). The system is

## Seating and Safety Restraints

designed to help protect small (child size) occupants from air bag deployments when they are improperly seated or restrained in the front passenger seat contrary to proper child-seating or restraint usage recommendations. Even with this technology, parents are **STRONGLY** encouraged to always properly restrain children in the rear seat. The sensor also turns off the air bag(s) when the passenger seat is empty to prevent unnecessary replacement of the air bag(s) after a collision.

### **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 at the front outboard seating positions are designed to tighten the safety belts firmly against the occupant's body during a frontal or near-frontal 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 *Energy management feature* 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, driver seat position sensor, and passenger occupant classification 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.

## Seating and Safety Restraints

- The warning light will either flash or stay lit.
- The warning 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 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.



## Seating and Safety Restraints

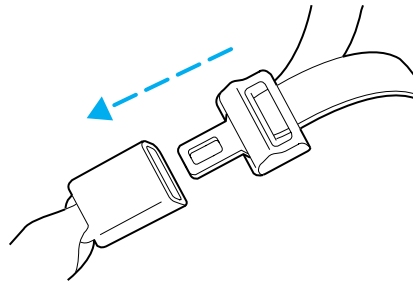
 Each seating position in your vehicle has a specific safety belt assembly which is made up of one buckle and one tongue that are designed to be used as a pair. 1) Use the shoulder belt on the outside shoulder only. Never wear the shoulder belt under the arm. 2) Never swing the safety belt around your 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.

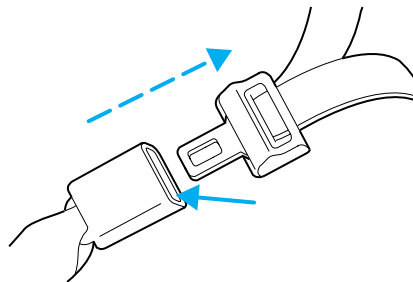
 Safety belts and seats can become hot in a vehicle that has been closed up in sunny weather; they could burn a small child. Check seat covers and buckles before you place a child anywhere near them.

### 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.



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



## Seating and Safety Restraints

### ***Energy management feature***

- This vehicle has a seat belt system with an energy management feature at the front outboard seating positions to help further reduce the risk of injury in the event of a head-on collision.
- This seat belt system has a retractor assembly that is designed to pay out webbing in a controlled manner. This feature is designed to help reduce the belt force acting on the occupant's chest.

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

### ***Webbing extraction sensitive mode***

The webbing extraction sensitive mode stops the belt webbing from retracting if it is pulled out too quickly.

### **Automatic locking mode**

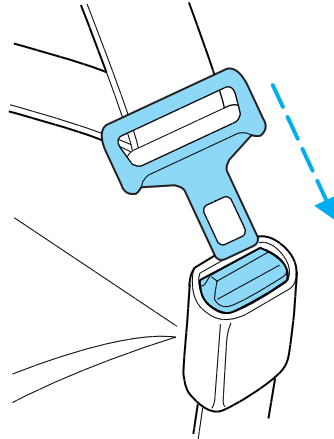
In this mode, the shoulder belt is automatically pre-locked. The belt will still retract to remove any slack in the shoulder belt. The automatic locking mode is not available on the driver safety belt.

This mode should be used **any time** a child safety seat is installed in the vehicle. Children 12 years old and under should be properly restrained in the rear seat whenever possible. Refer to *Safety restraints for children* or *Safety seats for children* later in this chapter.

## Seating and Safety Restraints

### **How to use the automatic locking mode**

- Buckle the combination lap and shoulder belt.




- Grasp the shoulder portion and pull downward until the entire belt is pulled out.



- Allow the belt to retract. As the belt retracts, you will hear a clicking sound. This indicates the safety belt is now in the automatic locking mode.

## Seating and Safety Restraints

### ***How to disengage the automatic locking mode***

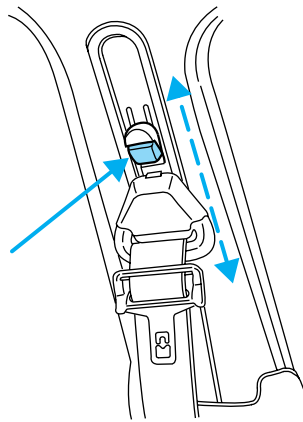
 Ford Motor Company recommends that all passenger safety belt assemblies and attaching hardware should be inspected by a qualified technician after any collision to verify that the "automatic locking retractor" feature for child seats is still working properly. Safety belt assemblies should be inspected according to the procedures in the Workshop Manual and replaced if either damage or improper operation is noted. Failure to replace the belt and retractor assembly could increase the risk of injury in a collision.


Unbuckle the combination lap/shoulder belt and allow it to retract completely to disengage the automatic locking mode and activate the vehicle sensitive (emergency) locking mode.

### **Front safety belt height adjustment**

Your vehicle has safety belt height adjustments for the driver and front outboard passenger. 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.

## Seating and Safety Restraints

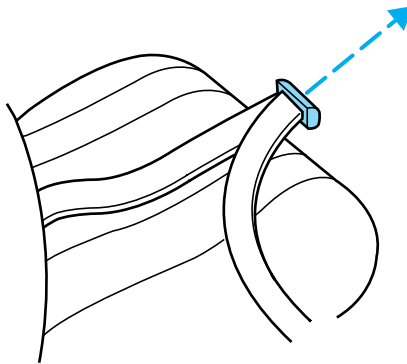
### Lap belts

#### **Adjusting the front center seat lap belt**

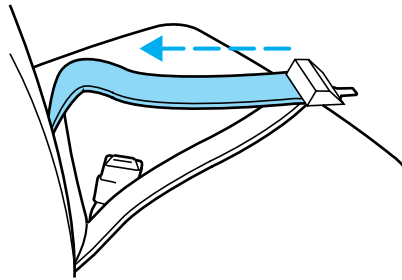


The lap belt should fit snugly and as low as possible around the hips, not across the waist.

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.

## Seating and Safety Restraints

### Conditions of operation

If...	Then...
The driver's safety belt is not buckled before the ignition switch is turned to the ON position...	The safety belt warning light illuminates 1-2 minutes and the warning chime sounds 4-8 seconds.
The driver's safety belt is buckled while the indicator light is illuminated and the warning chime is sounding...	The safety belt warning light and warning chime turn off.
The driver's safety belt is buckled before the ignition switch is turned to the ON position...	The safety belt warning light and indicator chime remain off.

### BeltMinder

The BeltMinder feature is a supplemental warning to the safety belt warning function. This feature provides additional reminders by intermittently sounding a chime and illuminating the safety belt warning lamp in the instrument cluster when the driver's safety belt is unbuckled.

The BeltMinder feature uses information from the passenger occupant classification sensor to determine if a front seat passenger is present and therefore potentially in need of a warning. To avoid activating the BeltMinder feature for objects placed in the front passenger seat, warnings will only be given to large front seat occupants as determined by the passenger occupant classification sensor.

Both the driver's and passenger's safety belt usages are monitored and either may activate the BeltMinder feature. The warnings are the same for the driver and the front passenger. If the BeltMinder warnings have expired (warnings for approximately 5 minutes) for one occupant (driver or front passenger), the other occupant can still activate the BeltMinder feature.

## Seating and Safety Restraints

If...	Then...
The driver's and front passenger's safety belts are buckled before the ignition switch is turned to the ON position or less than 1-2 minutes have elapsed since the ignition switch has been turned ON...	The BeltMinder feature will not activate.
The driver's or front passenger's safety belt is not buckled when the vehicle has reached at least 5 km/h (3 mph) and 1-2 minutes have elapsed since the ignition switch has been turned to ON...	The BeltMinder feature is activated - the safety belt warning light illuminates and the warning chime sounds for 6 seconds every 30 seconds, repeating for approximately 5 minutes or until the safety belts are buckled.
The driver's or front passenger's safety belt becomes unbuckled for approximately 1 minute while the vehicle is traveling at least 5 km/h (3 mph) and more than 1-2 minutes have elapsed since the ignition switch has been turned to ON...	The BeltMinder feature is activated - the safety belt warning light illuminates and the warning chime sounds for 6 seconds every 30 seconds, repeating for approximately 5 minutes or until the safety belts are buckled.

The following are reasons most often given for not wearing safety belts:  
(All statistics based on U.S. data)

## Seating and Safety Restraints

Reasons given...	Consider...
"Crashes are rare events"	<b>36700 crashes occur every day.</b> The more we drive, the more we are exposed to "rare" events, even for good drivers. <i>1 in 4 of us will be seriously injured in a crash during our lifetime.</i>
"I'm not going far"	<b>3 of 4</b> fatal crashes occur within <b>25</b> miles of home.
"Belts are uncomfortable"	We design our safety belts to enhance comfort. If you are uncomfortable - try different positions for the safety belt upper anchorage and seatback which should be as upright as possible; this can improve comfort.
"I was in a hurry"	<b>Prime time for an accident.</b> BeltMinder reminds us to take a few seconds to buckle up.
"Safety belts don't work"	<b>Safety belts</b> , when used properly, <b>reduce risk of death</b> to front seat occupants by <b>45% in cars</b> , and by <b>60% in light trucks</b> .
"Traffic is light"	<b>Nearly 1 of 2 deaths occur in single-vehicle crashes</b> , many when no other vehicles are around.
"Belts wrinkle my clothes"	Possibly, but a serious crash can do much more than wrinkle your clothes, particularly if you are unbelted.
"The people I'm with don't wear belts"	Set the example, teen deaths occur 4 times more often in vehicles with TWO or MORE people. Children and younger brothers/sisters imitate behavior they see.



## Seating and Safety Restraints

Reasons given...	Consider...
"I have an 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. <b>People</b> who are <b>ejected are 40 times more likely to DIE.</b> Safety belts help prevent ejection, WE CAN'T "PICK OUR CRASH".



Do not sit on top of a buckled safety belt to avoid the 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***

If at any time the driver/front passenger quickly buckles then unbuckles, the BeltMinder feature for that seating position is disabled for the current ignition cycle. The BeltMinder feature will re-enable during the same ignition cycle if the occupant buckles and remains buckled for approximately 30 seconds. Confirmation is not given for the one time disable.

### ***Deactivating/activating the BeltMinder feature***

**The driver and front passenger BeltMinder are deactivated/activated independently. When deactivating/activating one seating position, do not buckle the other position as this will terminate the process.**

*Read steps 1 - 4 thoroughly before proceeding with the deactivation/activation programming procedure.*

The driver and front passenger BeltMinder features can be deactivated/activated by performing the following procedure:

Before following the procedure, make sure that:

- The parking brake is set
- The gearshift is in P (Park) (automatic transmission)
- The ignition switch is in the OFF position
- The driver and front passenger safety belts are unbuckled

## Seating and Safety Restraints



To reduce the risk of injury, do not deactivate/activate the Belt Minder feature while driving the vehicle.

1. Turn the ignition switch to the RUN (or ON) position. (DO NOT START THE ENGINE)
2. Wait until the safety belt warning light turns off. (Approximately 1 minute)
  - Step 3 must be completed within 50 seconds after the safety belt warning light turns off.
3. For the seating position being disabled, buckle then unbuckle the safety belt 9 times, ending in the unbuckled state. (Step 3 must be completed within 50 seconds after the safety belt warning light turns off.)
  - After step 3, the restraint system warning light (airbag light) will be turned on for three seconds.
4. Within 10 seconds of the light turning on, buckle then unbuckle the safety belt.
  - This will disable the BeltMinder feature for that seating position if it is currently enabled. As confirmation, the restraint system warning light will flash 4 times per second for 3 seconds.
  - This will enable the BeltMinder feature for that seating position if it is currently disabled. As confirmation, the restraint system warning light will flash 4 times per second for 3 seconds, followed by 3 seconds with the light off, then followed by the restraint system warning light flashing 4 times per second for 3 seconds again.

### 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.

## Seating and Safety Restraints



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

### Safety belt maintenance

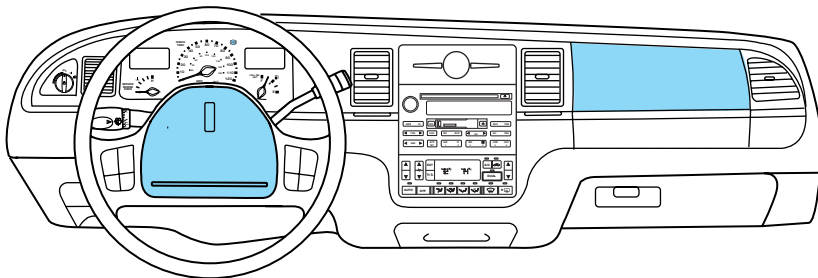
Inspect the safety belt systems periodically to make sure they work properly and are not damaged. Inspect the safety belts to make sure there are no nicks, tears or cuts. Replace if necessary. All safety belt assemblies, including retractors, buckles, front seat belt buckle assemblies, buckle support assemblies (slide bar-if equipped), shoulder belt height adjusters (if equipped), shoulder belt guide on seatback (if equipped), child safety seat LATCH and tether anchors, and attaching hardware, should be inspected after a collision. Ford Motor Company recommends that all safety belt assemblies 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.



Failure to inspect and if necessary replace the safety belt assembly under the above conditions could result in severe personal injuries in the event of a collision.

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

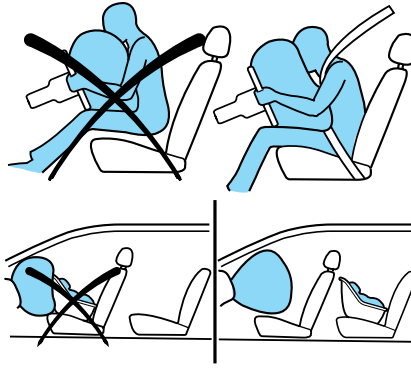
### AIR BAG SUPPLEMENTAL RESTRAINT SYSTEM (SRS)





## Seating and Safety Restraints


### Important SRS precautions


The SRS is designed to work with the safety belt to help protect the driver and right front passenger from certain upper body injuries. 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.

## Seating and Safety Restraints


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

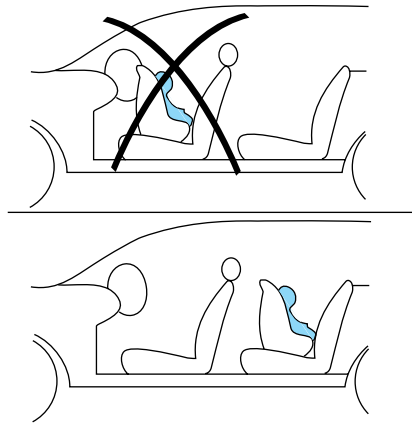
 The front passenger air bag is not designed to offer protection to an occupant in the center front seating position.

 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.

### 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.

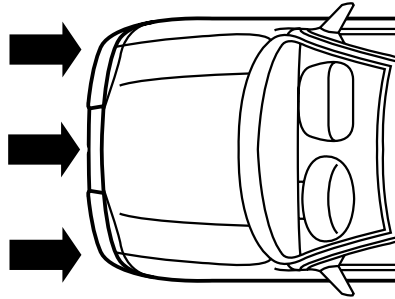


## Seating and Safety Restraints

### 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. 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.

## Seating and Safety Restraints

The SRS consists of the following items:

- Driver and passenger air bag modules (which include the inflators and air bags)
- Driver and passenger side air bags
- One or more impact and safing sensors
- A readiness light and tone
- A diagnostic module
- The electrical wiring which connects the components

The diagnostic module monitors its own internal circuits as well as 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.



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.



If the safety belt pretensioners deploy in an accident, they will not function again ( belt will not extract or retract) and must be replaced immediately. Failure to replace the retractor assemblies will increase the risk of injury.

### 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.

**AIR  
BAG**

## Seating and Safety Restraints

- 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.

### Side air bag system (if equipped)



Do not place objects or mount equipment on or near the air bag cover on the side of the seatbacks of the front seats or in front seat areas that may come into contact with a deploying air bag. Failure to follow these instructions may increase the risk of personal injury in the event of a collision.



Do not use accessory seat covers. The use of accessory seat covers may prevent the deployment of the side air bags and increase the risk of injury in an accident.



Do not lean your head on the door. The side air bag could injure you as it deploys from the side of the seatback.



Do not attempt to service, repair, or modify the air bag SRS, its fuses or the seat cover on a seat containing an air bag. See your Ford or Lincoln Mercury dealer.



All occupants of the vehicle should always wear their safety belts even when an air bag SRS is provided.



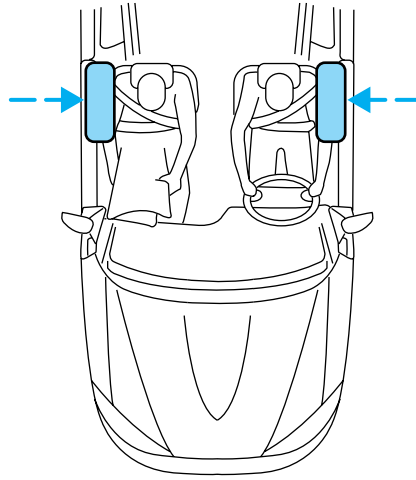
## Seating and Safety Restraints

### ***How does the side air bag system work?***

The design and development of the side airbag system included recommended testing procedures that were developed by a group of automotive safety experts known as the Side Airbag Technical Working Group. These recommended testing procedures help reduce the risk of injuries related to the deployment of side airbags.

The side air bag system consists of the following:

- An inflatable nylon bag (air bag) with a gas generator concealed behind the outboard bolster of the driver and front passenger seatbacks.
- A special seat cover designed to allow airbag deployment.
- The same warning light, electronic control and diagnostic unit as used for the front air bags.
- Two crash sensors located near the side of the vehicle.



Side air bags, in combination with seat belts, can help reduce the risk of severe injuries in the event of a significant side impact collision.

The side air bags are fitted on the outboard side of the seatbacks of the front seats. In certain lateral collisions, the air bag on the side affected by the collision will be inflated. The air bag was designed to inflate between the door panel and occupant to further enhance the protection provided occupants in side impact collisions.

The air bag SRS is designed to activate when the vehicle sustains lateral 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. Side air bags are designed to inflate in side-impact collisions, not roll-over, rear-impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration.

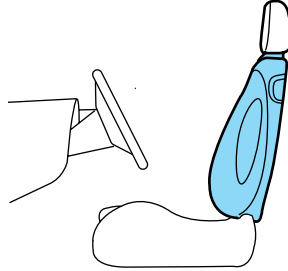
## Seating and Safety Restraints



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



If the side air bag has deployed, **the air bag will not function again. The side air bag system (including the seat) must be inspected and serviced by a qualified technician in accordance with the vehicle service manual.** If the air bag 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 side air bag is not required.

A 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/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.

### **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.

## Seating and Safety Restraints

### 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.

## Seating and Safety Restraints

### **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.

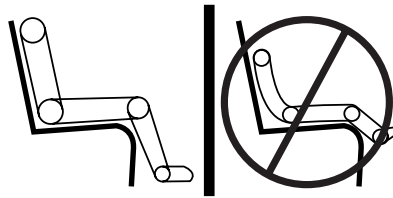
Booster seats position a child so that safety belts fit better. They lift the child up so that the lap belt rests low across the hips and the knees bend comfortably. Booster seats also make the shoulder belt fit better and more comfortably for growing children.

### **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?

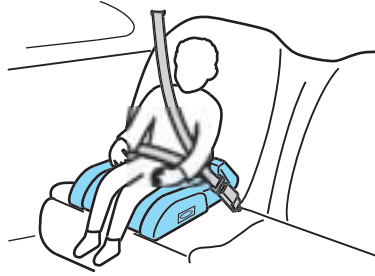
## Seating and Safety Restraints

### **Types of booster seats**

There are two types of belt-positioning booster seats:

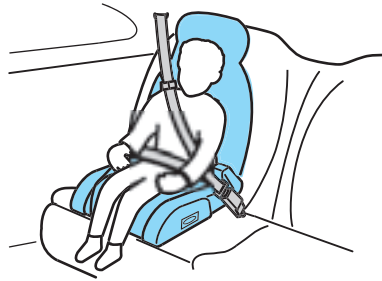
- Those that are backless.

If your backless booster seat has a removable shield, remove the shield and use the lap/shoulder belt. If a seating position has a low seat back and no head restraint, a backless booster seat may place your child's head (top of ear level) above the top of the seat. In this case, move the backless booster to another seating position with a higher seat back and lap/shoulder belts.



- Those with a high back.

If, with a backless booster seat, you cannot find a seating position that adequately supports your child's head, a high back booster seat would be a better choice.



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.

## Seating and Safety Restraints



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



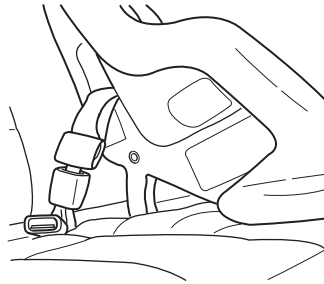
#### Child and infant or child safety seats

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.

## Seating and Safety Restraints

When installing a child safety seat:

- Review and follow the information presented in the *Air Bag Supplemental Restraint System* section in this chapter.
- Use the correct safety belt buckle for that seating position.
- Insert the belt tongue into the proper buckle until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.
- Keep the buckle release button pointing up and away from the safety seat, with the tongue between the child seat and the release button, to prevent accidental unbuckling.
- Place seat back in upright position.
- Put the safety belt in the automatic locking mode. Refer to *Automatic locking mode*.



Ford recommends the use of a child safety seat having a top tether strap. Install the child safety seat in a seating position which is capable of providing a tether anchorage. For more information on top tether straps, refer to *Attaching safety seats with tether straps* in this chapter.



Carefully follow all of the manufacturer's instructions included with the safety seat you put in your vehicle. If you do not install and use the safety seat properly, the child may be injured in a sudden stop or collision.



Rear-facing child seats or infant carriers should never be placed in the front seats.

### Installing child safety seats with combination lap and shoulder belts



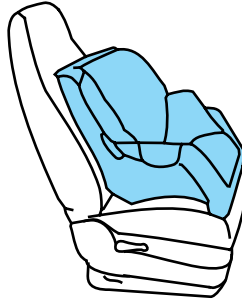
Air bags can kill or injure a child in a child seat. **NEVER** place a rear-facing child seat in front of an active air bag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

## Seating and Safety Restraints

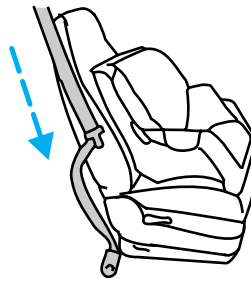


Children 12 and under should be properly restrained in the rear seat whenever possible.

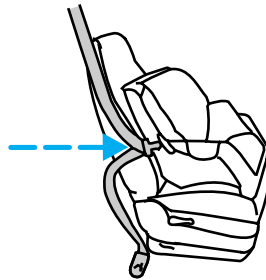
1. Position the child safety seat in a seat with a combination lap and shoulder belt.



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



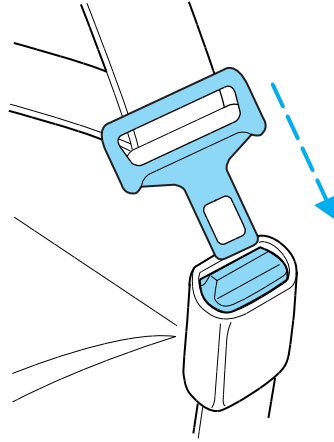
3. While holding the shoulder and lap belt portions together, route the tongue through the child seat according to the child seat manufacturer's instructions. Be sure the belt webbing is not twisted.



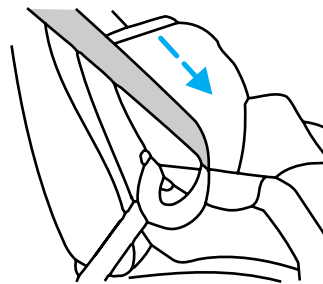


## Seating and Safety Restraints

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.

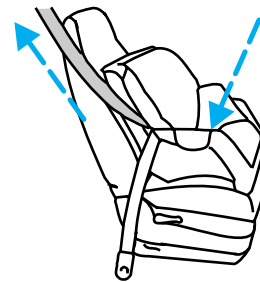


5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until all of the belt is pulled out and a click is heard.



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

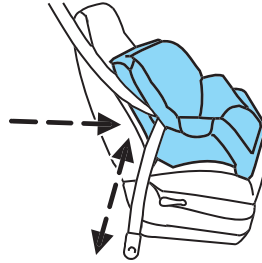
7. Pull the lap belt portion across the child seat toward the buckle and pull up on the shoulder belt while pushing down with your knee on the child seat.



## Seating and Safety Restraints

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.

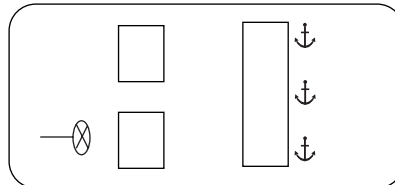
### Attaching child safety seats with tether straps

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

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

The tether anchors in your vehicle are located under a cover marked with the tether anchor symbol (shown with title).

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



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.

1. Position the child safety seat on the seat cushion.

## Seating and Safety Restraints

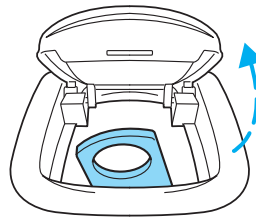
2. Route the child safety seat tether strap over the back of the seat.

For vehicles with adjustable head restraints, route the tether strap under the head restraint and between the head restraint posts, otherwise route the tether strap over the top of the seatback.

3. Locate the correct anchor for the selected seating position.



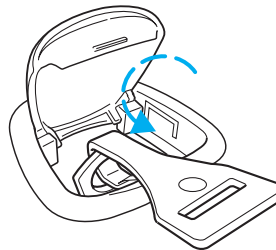
4. Open the tether anchor cover.



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



If the tether strap is clipped incorrectly, the child safety seat may not be retained properly in the event of a collision.



6. Refer to the *Installing child safety seats with combination lap and shoulder belts* section of this chapter for further instructions to secure the child safety seat.

7. 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.

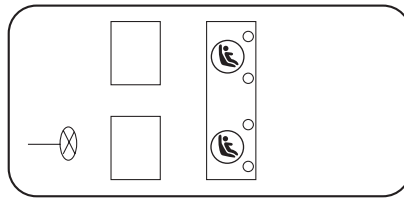
## Seating and Safety Restraints

### **Attaching safety seats with LATCH (Lower Anchors and Tethers for Children) attachments**

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.

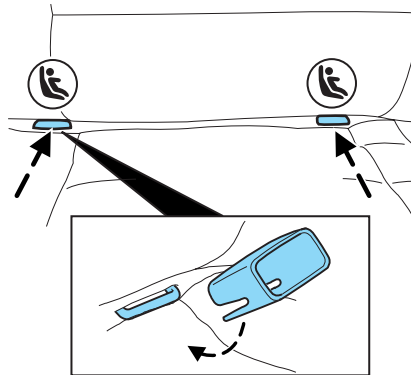
Your vehicle has LATCH anchors for child seat installation at the seating positions marked with the child seat symbol.

The anchors on both sides of the center of the rear seat are provided for child seats at the outboard seats, and are further apart than the pairs of lower anchors for child seat installation at other seats. **DO NOT** install child seats with LATCH attachments (rigid or mounted on belt webbing) to the lower anchors at the center rear seat. If you install a child seat at the center rear position, use the vehicle belt and the top tether anchor.



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 rear seat between the cushion and seat back. The LATCH anchors are below the locator symbols on the seat back.



## Seating and Safety Restraints

Follow the child seat manufacturer's instructions to properly install a child seat with LATCH attachments. Two plastic LATCH guides can be obtained at no charge from any Ford or Lincoln-Mercury dealer. They snap onto the LATCH lower anchors in the seat to help attach a child seat with rigid attachments. The guides hold the seat trim away to expose the anchor and make it easier to attach some child seats.



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

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 tilt 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.



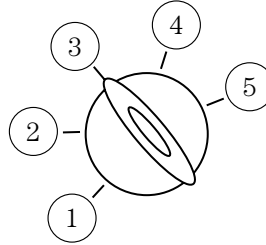
If the safety seat is not anchored properly, the risk of a child being injured in a crash greatly increases.

## Driving

### STARTING

#### Positions of the ignition

1. ACCESSORY, allows the electrical accessories such as the radio to operate while the engine is not running.
2. LOCK, locks the automatic transmission gearshift lever and allows key removal.
3. OFF, shuts off the engine and all accessories without locking the steering wheel. This position also allows the automatic transmission shift lever to be moved from the P (Park) position without the brake pedal being depressed.



When the key is in the ignition OFF position, the automatic transmission shift lever can be moved from the P (Park) position without the brake pedal depressed. To avoid unwanted vehicle movement, always set the parking brake.

4. ON, all electrical circuits operational. Warning lights illuminated. Key position when driving.
5. START, cranks the engine. Release the key as soon as the engine starts.


Refer to the *Securilock™ Passive Anti-Theft System* section in the *Locks and security* chapter for information on Securilock™ keys.


#### 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.

## Driving

 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.

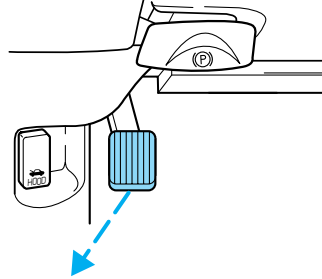
Before starting the vehicle:

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).

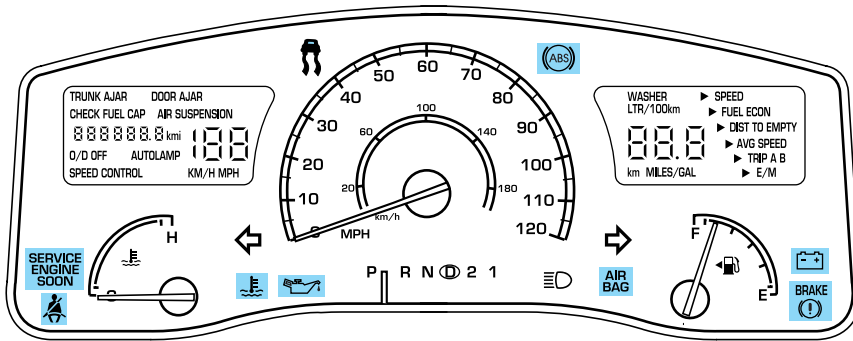
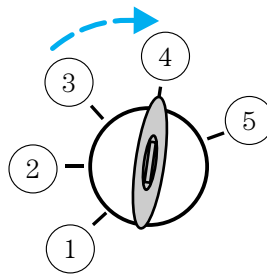


## Driving

4. Make sure the parking brake is set.



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



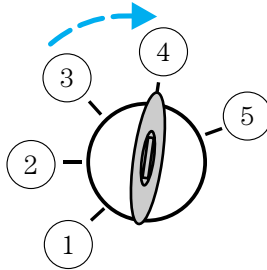
Make sure the corresponding lights illuminate or illuminate briefly. If a light fails to illuminate, have the vehicle serviced.

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



### Starting the engine

1. Turn the key to 4 (ON) without turning the key to 5 (START). If there is difficulty in turning the key, rotate the steering wheel until the key turns freely.
2. Turn the key to 5 (START), then release the key as soon as the engine starts. Excessive cranking could damage the starter.



**Note:** If the engine does not start within five seconds on the first try, turn the key to 3 (OFF), wait 10 seconds and try again.

### 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  $-23^{\circ}\text{C}$  ( $-10^{\circ}\text{F}$ ) 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.

## Driving

### **BRAKES**

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


### **Four-wheel anti-lock brake system (ABS)**

Your vehicle is equipped with an Anti-lock Braking System (ABS). This system helps you maintain steering control during emergency stops by keeping the brakes from locking. Noise from the ABS pump motor and brake pedal pulsation may be observed during ABS braking; any pulsations or mechanical noise you may feel or hear is normal.

### **Using ABS**

When hard braking is required, apply continuous force on the brake pedal; do not pump the brake pedal since this will reduce the effectiveness of the ABS and will increase your vehicle's stopping distance. The ABS will be activated immediately, allowing you to retain full steering control during hard braking and on slippery surfaces. However, the ABS does not decrease stopping distance.

### **ABS warning lamp**

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

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

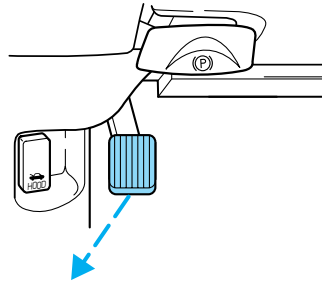
**BRAKE**  


### Parking brake with auto-release (P)

Apply the parking brake whenever the vehicle is parked.

To set the parking brake:

1. Move the gearshift to P (Park).
2. Push pedal downward.



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

**BRAKE**  
(!)



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.

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.

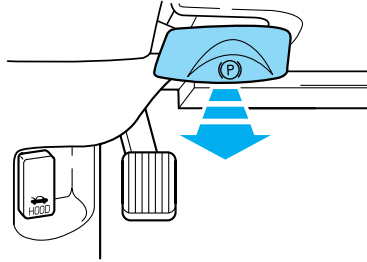
Your vehicle has an automatic parking brake release. To release the parking brake:

1. Start the vehicle.
2. Press the brake pedal.
3. Move the gearshift from the P (Park) position to one of the forward gears (the parking brake will not release automatically when you shift into reverse). The brake pedal must remain pressed while the gearshift is moved.

## Driving

If the parking brake fails to release after completing this procedure, use the manual parking brake release lever.

Pull the lever to manually release the parking brake.



## TRACTION CONTROL™

For Traction Control™ warning lights refer to *Warning Lights* in the *Instrument cluster* chapter.

Your vehicle is equipped with a Traction Control™ system (except on commercial conversion packages). This system helps you maintain the stability and steerability of your vehicle, especially on slippery road surfaces such as snow- or ice-covered roads and gravel roads. The system will allow your vehicle to make better use of available traction in these conditions.

During Traction Control™ operation, you may hear an electric motor type of sound coming from the engine compartment and the engine will not “rev-up” when you push further on the accelerator. This is normal system behavior and should be no reason for concern.

The Traction Control™ switch, located on the left side of the instrument panel, allows the driver to enable and disable the system. The Traction Control™ system will automatically turn on every time the ignition is turned OFF and RUN.



If you should become stuck in snow or ice or on a very slippery road surface, try switching the Traction Control™ system off. This may allow excess wheel spin to “dig” the vehicle out and enable a successful “rocking” maneuver.

## Driving



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.

### STEERING

To prevent damage to the power steering system:

- Never hold the steering wheel at its furthest turning points (until it stops) for more than a few seconds when the engine is running.
- Do not operate the vehicle with a low 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:

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

### Speed sensitive steering

The steering in your vehicle is speed sensitive. At high speeds, steering assist will decrease to improve steering feel. At lower speeds, maneuverability will be increased.

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

### AIR SUSPENSION SYSTEM

The air suspension system is designed to improve ride, handling and general vehicle performance during:

- Certain road conditions
- Steering maneuvers

## Driving

- Braking
- Accelerations

This system keeps the rear of your vehicle at a constant level by automatically adding air or releasing air from the springs.

If you exceed the load limit, the rear air suspension may not operate.

The air suspension shut-off switch is located on the left side of the trunk. If this switch is in the OFF position, the rear air suspension will not operate.



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



Normal vehicle operation does not require any action by the driver.

## AUTOMATIC TRANSMISSION OPERATION

### Brake-shift interlock

This vehicle is equipped with a brake-shift interlock feature that prevents the gearshift lever from being moved from P (Park) when the ignition is in the ON position unless brake pedal is depressed.

If you cannot move the gearshift lever out of P (Park) with ignition in the ON position and the brake pedal depressed:

1. Apply the parking brake, turn ignition key to LOCK, then remove the key.
2. Insert the key and turn it to OFF. **Apply the brake pedal and shift to N (Neutral).**



When the key is in the ignition OFF position, the automatic transmission shift lever can be moved from the P (Park) position without the brake pedal depressed. To avoid unwanted vehicle movement, always set the parking brake.

## Driving

3. Start the vehicle.

If it is necessary to use the above procedure to move the gearshift lever, it is possible that a fuse has blown or the vehicle's brakelamps are not operating properly. Refer to *Fuses and relays* in the *Roadside emergencies* chapter.



Do not drive your vehicle until you verify that the brakelamps are working.



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



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

#### ***Understanding the gearshift positions of the 4-speed automatic transmission***



#### **P (Park)**

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

To put your vehicle in gear:

- Start the engine
- Depress the brake pedal
- Move the gearshift lever into the desired gear

To put your vehicle in P (Park):

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

## Driving



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

### **R (Reverse)**

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

### **N (Neutral)**

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

### **D (Overdrive)**

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 on the end of the gearshift lever. This will illuminate the O/D OFF lamp and activate Drive.

### **Drive (not shown)**

Drive is activated when the transmission control switch is pressed.

- This position allows for all forward gears except overdrive.
- O/D OFF lamp is illuminated.
- Provides engine braking.
- Use when driving conditions cause excessive shifting from O/D to other gears. Examples: city traffic, hilly terrain, heavy loads, trailer towing and when engine braking is required.
- To return to O/D (overdrive mode), press the transmission control switch. The O/D OFF lamp will not be illuminated.
- O/D (Overdrive) is automatically returned each time the key is turned off.

### **2 (Second)**

This position allows for second gear only.

- Provides engine braking.
- Use to start-up on slippery roads.
- To return to **D** (Overdrive), move the gearshift lever into the **D** (Overdrive) position.



- Selecting 2 (Second) at higher speeds will cause the transmission to downshift to second gear at the appropriate vehicle speed.

### **1 (First)**

- Provides maximum engine braking.
- Allows upshifts by moving gearshift lever.
- Will not downshift into 1 (First) at high speeds; allows for 1 (First) when vehicle reaches slower speeds.

### **Forced downshifts**

- Allowed in **D** (Overdrive) or Drive.
- Depress the accelerator to the floor.
- Allows transmission to select an appropriate gear.

### ***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.

If necessary, try turning the Traction Control<sup>™</sup> system off. This will allow the wheels to spin, which may help to free your stuck vehicle. For more information, refer to *Traction Control<sup>™</sup> (if equipped)* in this chapter.

**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.**

### **TRACTION-LOK AXLE (IF EQUIPPED)**

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

### **REVERSE SENSING SYSTEM (IF EQUIPPED)**

The extended rear park aid system sounds a tone to warn the driver of obstacles near the rear bumper when the R (Reverse) gear is selected.



To help avoid personal injury, please read and understand the limitations of the extended rear park assist system as contained in this section. The park assist 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.

## Driving



To help avoid personal injury, always use caution when in R (Reverse) and when using the extended rear park aid.



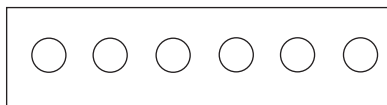
This system is not designed to prevent contact with small or moving objects. The system is designed to provide a warning to assist the driver in detecting objects to avoid damaging the vehicle. The system may not detect smaller objects, particularly those close to the ground.

The system will assist the driver in detecting certain objects while the vehicle slowly moves in reverse at speeds less than 10 km/h (6 mph). The system is not effective at speeds greater than 10 km/h (6 mph) and may not detect certain angular or moving objects.



The system detects obstacles within approximately five meters (16.4 ft.) behind the rear bumper with a decreased coverage area at the outer corners of the bumper. In the figure, the smaller objects behind the vehicle represent the near-vehicle and bumper corner coverage area of the park aid system and the large object represents the extended coverage area. As you move closer to the obstacle, the rate of the tone increases. When the distance to the obstacle is less than 45.0 cm (18 in.), the tone will sound continuously. If the system detects an object that is approaching the vehicle at such as rate that rapid braking is required, a very high rate tone will sound. If this tone is heard while reversing, the driver is advised to slow down immediately until the tone either changes to a slower rate or stops.

In addition to the tones, a visual display is located next to the high mount stop lamp by the back window and will also indicate the distance to a potential obstacle.



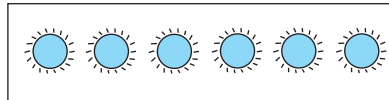
## Driving

As your vehicle moves closer to the obstacle, lights will illuminate in the display and increase in number (starting at two, then to four).



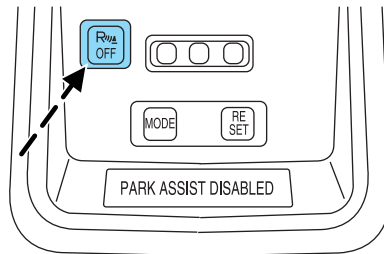
When the distance to the obstacle is within 45 cm (18 in.), the number of lights will increase to six.

If the system detects a object that is rapidly approaching the rear of the vehicle at such a rate that emergency braking is required, six lights will rapidly flash on and off.



If the flashing lights are seen while you are in R (Reverse), slow down immediately until the lights either stop flashing or are no longer illuminated.

The extended rear park aid is automatically enabled when the gear selector is placed in R (Reverse) and the ignition is ON. A park aid control allows the driver to disable the extended rear park aid only when the ignition is ON, and the gear selector is in R (Reverse).



The OFF indicator remains illuminated when the system is disabled. The system defaults to ON every time the ignition is turned on. Press the control to disable or enable the system.

The indicator will remain illuminated to indicate a failure of the extended rear park aid.

**Always keep the sensors (located on the rear bumper/fascia) free from snow, ice and large accumulations of dirt (do not clean the sensors with sharp objects). These elements may cause the system to operate inaccurately.**

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

## Driving

### DRIVING THROUGH WATER

If driving through deep or standing water is unavoidable, proceed very slowly especially if the depth is not known. Never drive through water that is higher than the bottom of the hubs (for trucks) or the bottom of the wheel rims (for cars). Traction or brake capability may be limited and your vehicle may stall. Water may also enter your engine's air intake and severely damage your engine.

Once through the water, always dry the brakes by moving your vehicle slowly while applying light pressure on the brake pedal. Wet brakes do not stop the vehicle as quickly as dry brakes. **Driving through deep water where the transmission vent tube is submerged may allow water into the transmission and cause internal transmission damage.**

### 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 the 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

## Driving

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 Certification Label, found on the inside pillar of the driver's door, lists several important vehicle weight rating limitations. Before adding any additional equipment, refer to these limitations. If you are adding weight to your vehicle, 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.

The weight of your loaded trailer should not exceed 907 kg (2,000 lbs).  
The GCW of your vehicle and trailer should not exceed 2,993 kg (6,600 lbs).

### TRAILER TOWING

Your vehicle is classified as a light duty towing vehicle. Do not tow a trailer until your vehicle has been driven at least 3,200 km (2,000 miles).

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

## Driving

Your loaded trailer should weigh no more than 907 kg (2,000 lbs.). **Do not exceed the GVWR specified on the certification label.**



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

### 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 bumper. Use a load carrying hitch. You must distribute the load in your trailer so that 10–15% of the total weight of the trailer is on the tongue.

### 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.**

## Driving

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)**

Follow these guidelines for your specific powertrain combination to tow your vehicle with all four wheels on the ground (such as behind a recreational vehicle).

These guidelines are designed to ensure that your transmission is not damaged due to insufficient lubrication.

#### **All Rear Wheel Drive (RWD) vehicles:**

This applies to all cars and 4x2 trucks/sport utilities with rear wheel drive capability.

- Place the transmission in N (Neutral)
- Maximum speed is 56 km/h (35 mph)
- Maximum distance is 80 km (50 miles)

If a distance of 80 km (50 miles) or a speed of 56 km/h (35 mph) must be exceeded, you must disconnect the driveshaft. 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.**



## Roadside Emergencies

### 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.

## Roadside Emergencies

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

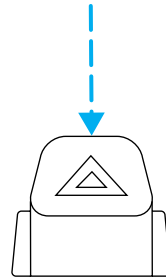
In the United States, you may purchase additional roadside assistance coverage beyond this period through the Ford Auto Club by contacting your Ford or Lincoln Mercury dealer.

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](http://www.ford.ca).

### HAZARD FLASHER

The hazard flasher is located on the steering column, just behind the steering wheel. The hazard flashers will operate when the ignition is in any position.

Push in the flasher control and all front and rear direction signals will flash. Press the flasher control again to turn them off. Use it when your vehicle is disabled and is creating a safety hazard for other motorists.



**Note:** With extended use, the flasher may run down your battery.

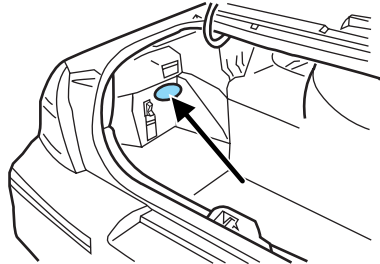
### FUEL PUMP SHUT-OFF SWITCH

The fuel pump shut-off switch is a device intended to stop the electric fuel pump when your vehicle has been involved in a substantial jolt.

After a collision, if the engine cranks but does not start, the fuel pump shut-off switch may have been activated.

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## Roadside Emergencies



The fuel pump shut-off switch is located on a bracket inside of the luggage compartment.

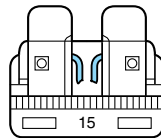
Use the following procedure to reset the fuel pump shut-off switch.

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.

## Roadside Emergencies

### *Standard fuse amperage rating and color*

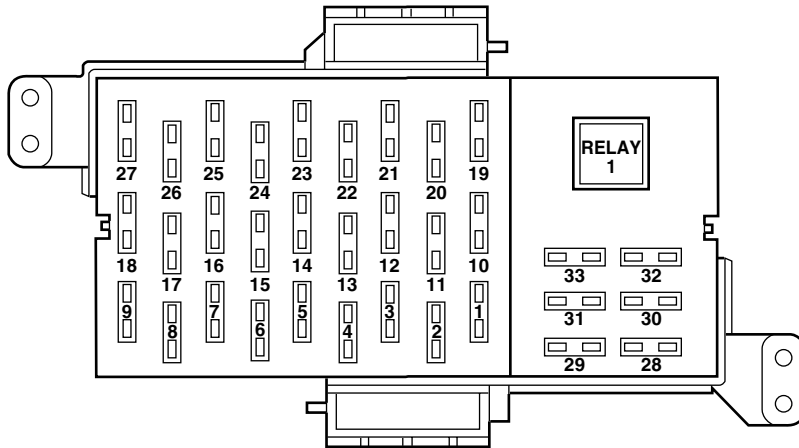
COLOR					
Fuse rating	Mini fuses	Standard fuses	Maxi fuses	Cartridge maxi fuses	Fuse link cartridge
2A	Grey	Grey	—	—	—
3A	Violet	Violet	—	—	—
4A	Pink	Pink	—	—	—
5A	Tan	Tan	—	—	—
7.5A	Brown	Brown	—	—	—
10A	Red	Red	—	—	—
15A	Blue	Blue	—	—	—
20A	Yellow	Yellow	Yellow	Blue	Blue
25A	Natural	Natural	—	—	—
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**

The fuse panel is located below and to the left of the steering wheel by the brake pedal. Remove the panel cover to access the fuses.

To remove a fuse use the fuse puller tool provided on the fuse panel cover.

## Roadside Emergencies



The fuses are coded as follows.

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
1	10A	Lighting Control Module (LCM), Left-hand low beam headlamp
2	15A	Fog lamps
3	10A	LCM, Right-hand low beam headlamp
4	7.5A	Instrument cluster
5	7.5A	LCM, Instrument panel light
6	15A	EATC, Heated seats
7	15A	LCM, Autolamps/PAT/Sunload sensors, Park/Tail lamps, Cornering lamps
8	10A	Shift lock, Speed control, Air suspension
9	20A	Hi beam headlamps (LCM)
10	10A	Restraint Control Module (RCM), Air bags

## Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
11	20A	Stoplamps/Speed control
12	15A	Instrument cluster, Anti-theft, Ignition coils
13	10A	Anti-lock brake module, Traction control switch, ABS relay
14	15A	Transmission control switch, LCM, Decklid
15	15A	Multi-function switch, Turn signals
16	7.5A	Wiper Control Module (WCM)
17	10A	Digital Transmission Range (DTR) sensor, Back-up lamps, EC mirrors, Back-up aide
18	7.5A	LCM, Front radio control unit, Electronic day/night mirror, Compass module/Rear audio/Climate control module, TCU, Heated seats switch, Rain sense, Door lock switches, OHC, Rear heated seats switch
19	10A	EATC, Clock, Instrument cluster, PCM
20	7.5A	ABS, Shift lock
21	15A	Multi-function switch, Hazard lamps
22	15A	Multi-function switch, High mounted stop lamps, Stop lamps
23	20A	Datalink connector, I/P cigar lighter, Rear door cigar lighters (Long Wheel Base only)
24	5A	Front radio control unit
25	15A	LCM, Courtesy/Demand lamps
26	5A	DTR sensor, Starter relay coil

## Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
27	20A	Fuel filler door release switch
28	10A	Heated mirrors
29	20A	Left front door module
30	7.5A	Trunk lid release switch, Door lock switches, Left front seat control switch, Left front door module, Power mirror switch, Adjustable pedals
31	7.5A	Main light switch, LCM
32	10A	Electronic hidden antenna module
33	15A	Front radio control unit, Digital compact disc changer
Relay 1	—	Accessory delay relay (Signature/Cartier) or Power window relay (Executive)

### Power distribution box

The power distribution box is located in the engine compartment. The power distribution box contains high-current fuses that protect your vehicle's main electrical systems from overloads.

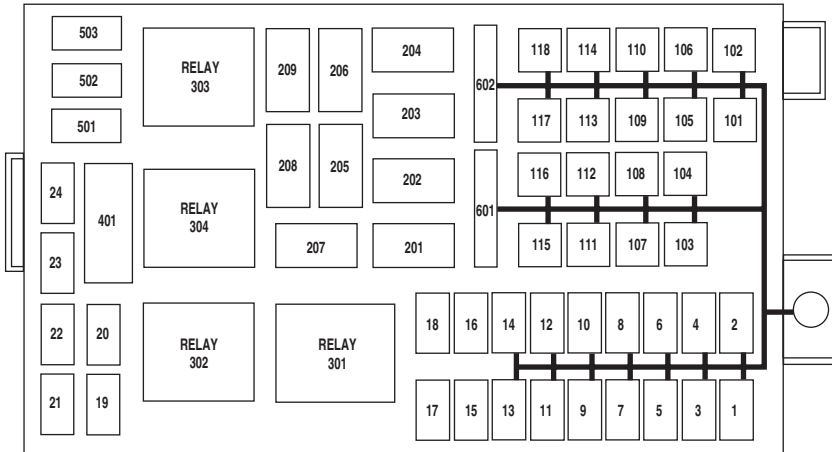


Always disconnect the battery before servicing high current fuses.

### Always replace the cover to the power distribution box before reconnecting the battery or refilling fluid reservoirs

If the battery has been disconnected and reconnected, refer to the *Battery* section of the *Maintenance and specifications* chapter.

## Roadside Emergencies



The high-current fuses are coded as follows.

Fuse/Relay Location	Fuse Amp Rating	Power Distribution Box Description
1	30A*	Radio, IP Fuse 33
2	20A*	Front power point
3	—	Not used
4	15A*	Horn
5	20A*	Fuel pump, Inertia switch
6	20A*	Right rear power point (Long Wheel Base only)
7	30A*	Front driver and front passenger heated seats
8	—	Not used
9	—	Not used
10	10A*	RASM
11	30A*	Rear driver/passenger heated seats (Long Wheel Base only)
12	20A*	Left rear power point (Long Wheel Base only)



## Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Power Distribution Box Description
13	15A*	To alternator
14	20A*	Rear door cigar lighters (Long Wheel Base only)
15	–	Not used
16	–	Not used
17	–	Not used
18	–	Not used
19	15A*	MAF sensor, DPFE sensor, Injectors, PCM
20	15A*	PCM, Canister vent solenoid, VMV, HEGOs
21	–	Not used
22	–	Not used
23	–	Not used
24	–	Not used
101	50A**	Ignition switch, Starter
102	50A**	Cooling fan (variable speed)
103	40A**	Blower motor
104	40A**	Heated backlight, IP fuse 28
105	30A**	EEC relay, PDB fuses 19, 20
106	40A**	ABS module
107	40A**	IP fuse 29, Delayed accessories relay (windows, moon roof, radio)
108	30A**	IP fuse 30, Memory seats, Power seats, Lumbar, Adjustable pedals, Memory mirrors
109	40A**	Power decklid
110	—	Not used
111	—	Not used
112	40A**	Ignition switch, IP fuses, 10, 12, 14, 16, 18
113	40A**	IP fuses, 1, 5, 7, 9, 31

## Roadside Emergencies

Fuse/Relay Location	Fuse Amp Rating	Power Distribution Box Description
114	30A**	RASM compressor
115	40A**	IP fuses 11, 19, 21, 23, 25, 27, 32
116	30A**	Wipers
117	30A**	Rear power seats (Long Wheel Base only)
118	20A**	ABS
201	1/2 ISO	Horn
202	1/2 ISO	PCM
203	1/2 ISO	Fuel pump
204	1/2 ISO	A/C clutch
205	—	Not used
206	1/2 ISO	Cornering lamp ground
207	1/2 ISO	Fog lamps
208	1/2 ISO	Park lamp isolation
209	1/2 ISO	ABS relay
301	Full ISO	Blower motor
302	Full ISO	Starter solenoid
303	Full ISO	Heated backlight
304	Full ISO	RASM
401	—	Not used
501	Diode	PCM
502	—	Not used
503	—	Not used
601	—	Not used
602	—	Not used

\* Mini Fuses \*\* Maxi Fuses

### 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.

## Roadside Emergencies



The use of tire sealants is not recommended and may compromise the integrity of your tires.

### Temporary spare tire information

Your vehicle may have a temporary or full-size spare tire. The temporary spare tire for your vehicle is labeled as such. It is smaller than a regular tire and is designed for emergency use only. Replace this tire with a full-size tire as soon as possible.



If you use the temporary spare tire continuously or do not follow these precautions, the tire could fail, causing you to lose control of the vehicle, possibly injuring yourself or others.

When driving with the temporary spare tire **do not:**

- exceed 80 km/h (50 mph) under any circumstances.
- load the vehicle beyond maximum vehicle load rating listed on the Safety Compliance Label.
- tow a trailer.
- use tire chains.
- drive through an automatic car wash, because of the vehicle's reduced ground clearance.
- try to repair the temporary spare tire or remove it from its wheel.
- use the wheel for any other type of vehicle.
- use more than one temporary spare tire at a time.

Use of a temporary spare tire at any one wheel location can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter driving capability

### Tire change procedure



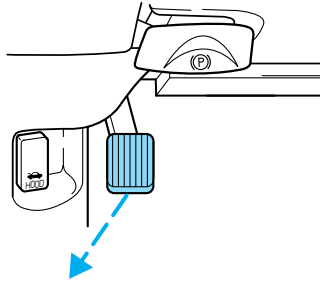
To prevent the vehicle from moving when you change a tire, be sure the parking brake is set, then block (in both directions) the wheel that is diagonally opposite (other side and end of the vehicle) to the tire being changed.

## Roadside Emergencies

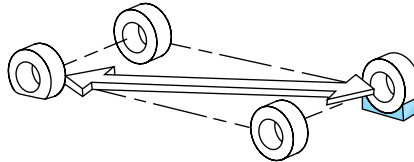


If the vehicle slips off the jack, you or someone else could be seriously injured.

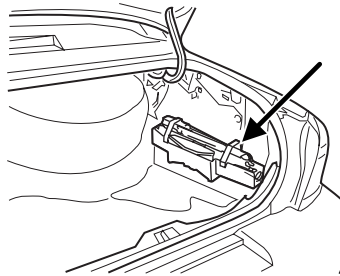
1. Park on a level surface, activate hazard flashers and set parking brake.



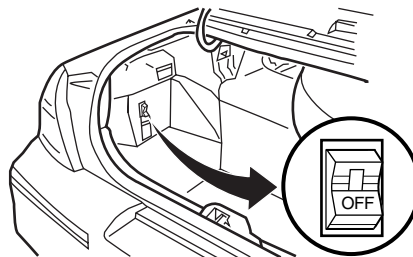
2. Place gearshift lever in P (Park), turn engine OFF and block the diagonally opposite wheel.



3. Remove the spare tire and the jack. The jack is located in the trunk (in a holder bracket), on the right-hand side, next to the wheel well.



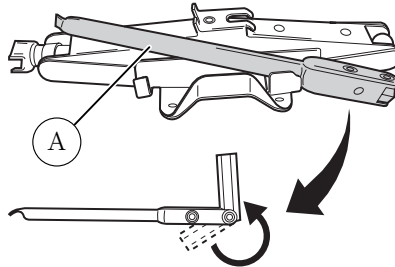
On vehicles equipped with Air Suspension, turn OFF the Air Suspension switch prior to jacking, hoisting or towing your vehicle.



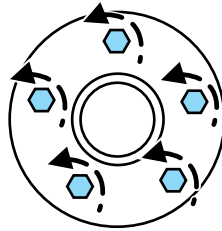
## Roadside Emergencies

Refer to *Air suspension system* in the *Driving* chapter for more information.

4. Remove the lug wrench (A) from the jack. Rotate the lug wrench socket out from the handle.



5. Locate pry off notch (if equipped) and remove the center ornament from the aluminum wheel with the tapered end of the wheel nut wrench that came with your vehicle. Insert and twist the handle, then pry against the wheel.



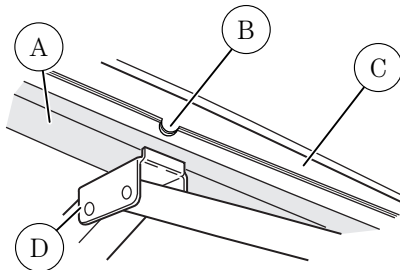
6. Loosen each wheel lug nut one-half turn counterclockwise but do not remove them until the wheel is raised off the ground.

**STOP** Before placing the jack under the vehicle, NOTE the jack location markings:

### JACK LOCATION-FRONT

The jack location markings can be found **on the lower outer edge of the body**.

- Locate the jack locator mark (B - **semi-circle**) on the body (C) near the tire you are changing, then place the jack (D) **under the frame (A) of the vehicle** aligning it with the mark (B - **semi-circle**).

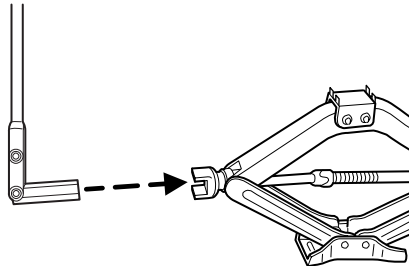
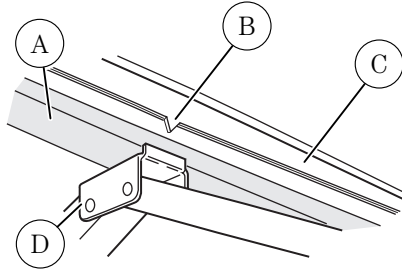


## Roadside Emergencies

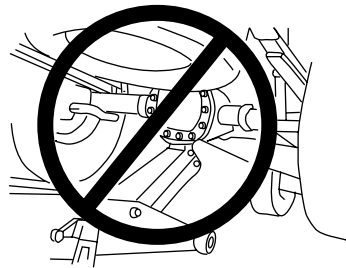
### JACK LOCATION-REAR

The jack location markings can be found **on the lower outer edge of the body**.

- Locate the jack locator mark (B - **triangle**) on the body (C) near the tire you are changing, then place the jack (D) **under the frame (A) of the vehicle** aligning it with the mark (B - **triangle**).
- Position the jack according to the following guides and turn the jack handle clockwise until the wheel is completely off the ground.



To lessen 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 rear differential as a jacking point.**

7. Remove the lug nuts with the lug wrench.
8. Replace the flat tire with the spare tire, making sure the valve stem is facing outward. Reinstall lug nuts until the wheel is snug against the hub. Do not fully tighten the lug nuts until the wheel has been lowered.
9. Lower the vehicle by turning the jack handle counterclockwise.

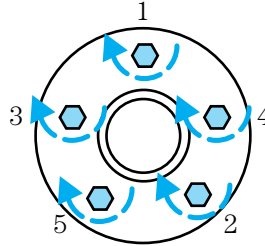
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## Roadside Emergencies

10. Remove the jack and fully tighten the lug nuts in the order shown.

11. Put flat tire, jack and lug wrench away. Be sure to stow the jack properly in the holder bracket.

12. Turn on the air suspension switch.



### 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; also, the catalytic converter may become damaged.**

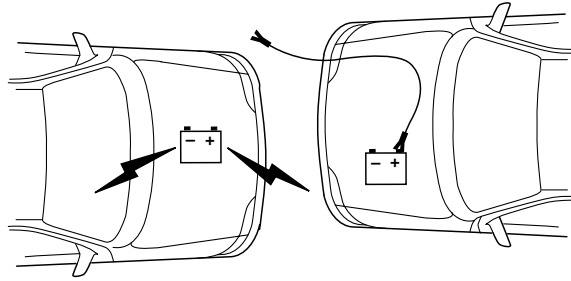
#### Preparing your vehicle

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.

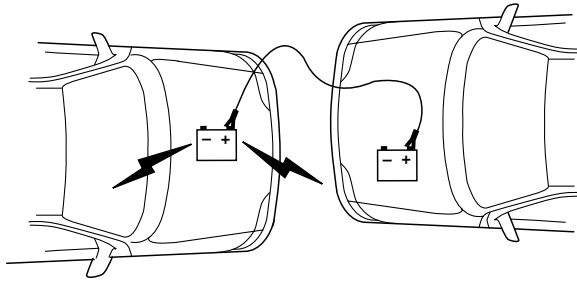
## Roadside Emergencies

### Connecting the jumper cables



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

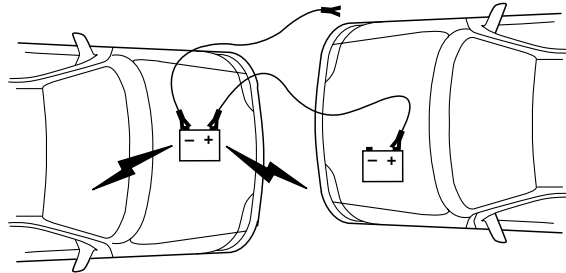
**Note:** In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.



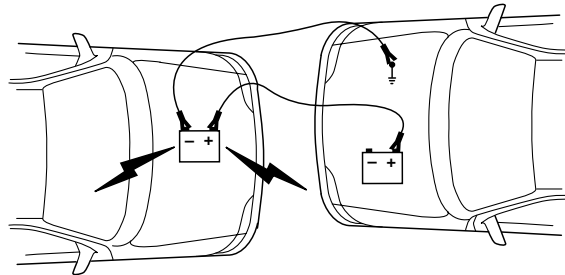
2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.



## Roadside Emergencies



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



4. Make the final connection of the negative (-) cable to an exposed metal part of the stalled vehicle's engine, away from the battery and the carburetor/fuel injection system. **Do not** use fuel lines, engine rocker covers or the intake manifold as *grounding* points.



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.

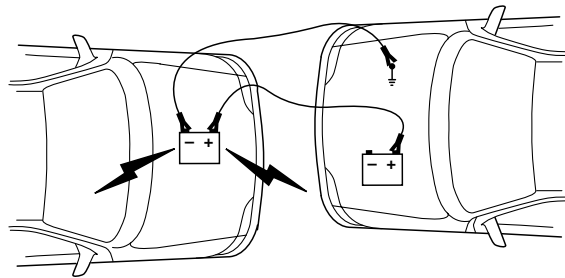
5. Ensure that the cables are clear of fan blades, belts, moving parts of both engines, or any fuel delivery system parts.

## Roadside Emergencies

### 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.

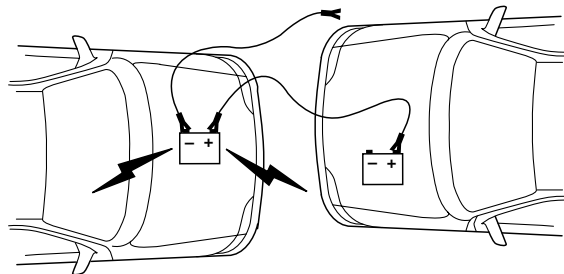
### Removing the jumper cables



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

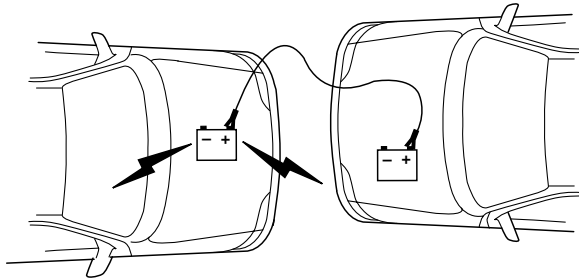
1. Remove the jumper cable from the *ground* metal surface.

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

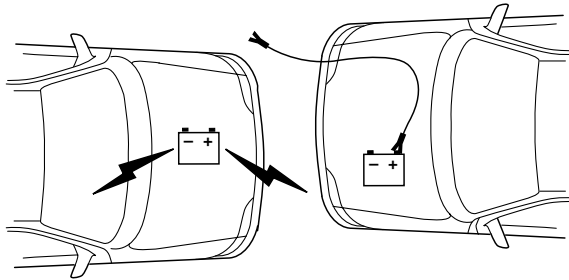


2. Remove the jumper cable on the negative (-) connection of the booster vehicle's battery.

## Roadside Emergencies



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

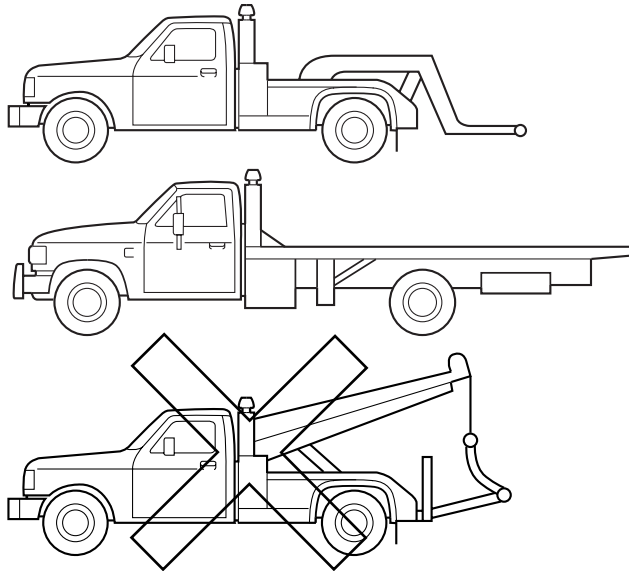


4. Remove the jumper cable from the positive (+) terminal of the disabled vehicle's battery.

After the disabled vehicle has been started and the jumper cables removed, allow it to idle for several minutes so the engine computer can *relearn* its idle conditions.

## Roadside Emergencies

### WRECKER TOWING



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

It is recommended that your vehicle be towed with a wheel lift or flatbed equipment. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure.

Before your vehicle can be towed, the air suspension control in the luggage compartment must be turned to the OFF position (if equipped).

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

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

## Customer Assistance

### GETTING THE SERVICES YOU NEED

#### At home

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  
16800 Executive Plaza Drive  
P.O. Box 6248  
Dearborn, Michigan 48121  
1-800-392-3673 (FORD)  
(TDD for the hearing impaired: 1-800-232-5952)  
www.ford.com

## Customer Assistance

In Canada:  
Customer Relationship Centre  
Ford Motor Company of Canada, Limited  
P.O. Box 2000  
Oakville, Ontario L6J 5E4  
1-800-565-3673 (FORD)  
www.ford.ca

If you own a Lincoln vehicle and are away from home when your vehicle needs service, or if you need more help than the 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  
16800 Executive Plaza Drive  
P.O. Box 6248  
Dearborn, Michigan 48121  
1-800-521-4140  
(TDD for the hearing impaired: 1-800-232-5952)  
www.ford.com

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

In order to help you service your Ford or Lincoln Mercury vehicle, please have the following information available when contacting a Customer Relationship Center:

- 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.).

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**2003 Town Car (tow)**  
**Owners Guide (post-2002-fmt)**  
**USA English (fus)**

## Customer Assistance

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](http://www.ford-esp.com).

## Customer Assistance

### 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.

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## Customer Assistance

### **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.

## Customer Assistance

### **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  
16800 Executive Plaza Drive  
P.O. Box 6248  
Dearborn, Michigan 48121

## Customer Assistance

### **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](http://www.helminc.com).

*(Items in this catalog may be purchased by credit card, check or money order.)*

### **Obtaining a French owner's guide**

French Owner's Guides can be obtained from your dealer or by writing to Ford Motor Company of Canada, Limited, Service Publications, P.O. Box 1580, Station B, Mississauga, Ontario L4Y 4G3.

## Customer Assistance

### 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

## Customer Assistance

### 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.

*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  
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.**

### 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 door handles, roof racks, bumpers, side moldings, mirror housings or the windshield cowl area. The paint sealant will “gray” or stain the parts over time.

## 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 Ford Extra Strength Tar and Road Oil Removal (B7A-19520-AA), available from your dealer.

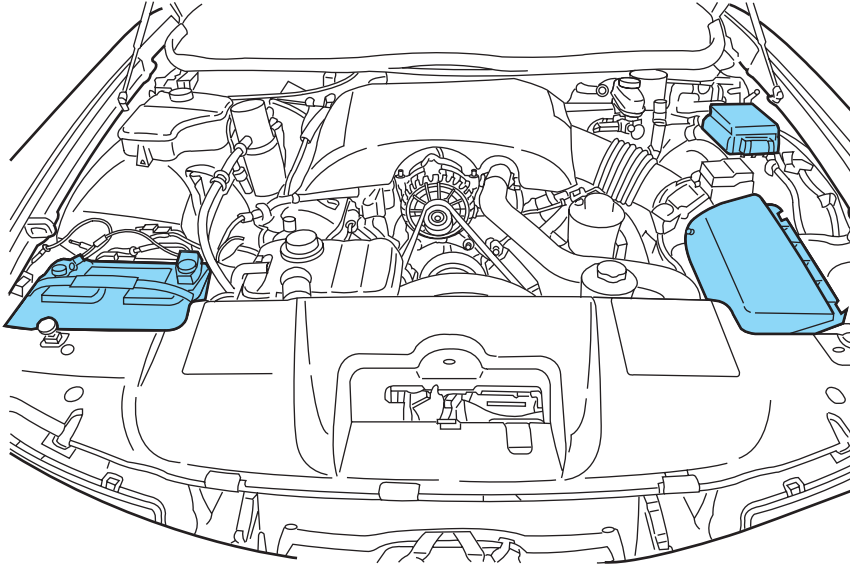
### ENGINE

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.

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- Cover the highlighted areas to prevent water damage when cleaning the engine.
- Never wash or rinse the engine while it is running; water in the running engine may cause internal damage.

### **PLASTIC (NON-PAINTED) EXTERIOR PARTS**

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

- For routine cleaning, use Motorcraft Detail Wash (ZC-3-A).
- If tar or grease spots are present, use Ford Extra Strength Tar and Road Oil Removal (B7A-19520-AA).

### **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:

## Cleaning

- 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.

### CLEANING SEATS EQUIPPED WITH SIDE AIR BAGS

Remove dust and loose dirt with a vacuum cleaner. In order to remove stains and soil, clean with Extra Strength Upholstery Cleaner (E8AZ-19523-AA).

**Never saturate the seat covers with any cleaning solution.**



Do not use chemical solvents or strong detergents when cleaning the seat where the side air bag is mounted. Such products could contaminate the side air bag system and affect performance of the side air bag in a collision. The air bag may not function correctly and not provide injury reduction benefits.

## Cleaning

### INTERIOR

For fabric, carpets, cloth seats, safety belts and seats equipped with side air bags:

- Remove dust and loose dirt with a vacuum cleaner.
- Remove light stains and soil with Ford Extra Strength Upholstery Cleaner (E8AZ-19523-AA).
- 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 safety belts, as these actions may weaken the belt webbing.



Do not use chemical solvents or strong detergents when cleaning the seat-mounted side air bag. Such products could contaminate the side air bag system and affect performance of the side air bag in a collision.

### LEATHER SEATS (IF EQUIPPED)

Your leather seating surfaces have a clear, protective coating over the leather.

- To clean, use a soft cloth with Motorcraft Deluxe Leather and Vinyl Cleaner (ZC-11-A). Dry the area with a soft cloth.
- To help maintain its resiliency and color, use the Motorcraft Deluxe Leather Care Kit (ZC-11-D), available from your authorized dealer.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing of the clear, protective coating.

### CLEANING THE INSIDE WINDOWS

Use Ultra Clear Spray Glass Cleaner (E4AZ-19C507-AA) for the inside windows if they become fogged.

To clean, use two lint-free, soft towels, folded into a pad-shape. Mist the glass completely with cleaner, and use one of the towels to evenly agitate the surface. Use the other towel to remove the residue.

## Cleaning

### **CLEANING AND MAINTAINING THE SAFETY BELTS**

Clean the safety belts with Extra Strength Upholstery Cleaner (E8AZ-19523-AA), available from your authorized Ford, Lincoln or Mercury dealer.

**Do not use bleach, dye or any other solvent to clean the belts, as these actions may weaken the belt webbing.**

### **UNDERBODY**

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

### **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)

Ford Extra Strength Tar and Road Oil Remover\* (not available in Canada)  
(B7A-19520-AA)

Ford Extra Strength Upholstery Cleaner (not available in Canada)  
(E8AZ-19523-AA)

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)

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## Cleaning

Motorcraft Spot and Stain Remover (ZC-14)

Motorcraft Detail Wash (ZC-3-A)

Motorcraft Tire Detailer (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

## Maintenance and Specifications

### SERVICE RECOMMENDATIONS

To help you service your vehicle:

- We highlight do-it-yourself items in the engine compartment for easy location.
- We provide 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 burning (cigarettes) 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

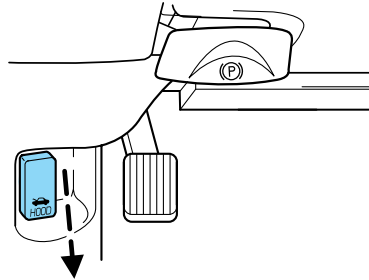
1. Set the parking brake and shift to P (Park).
2. Block the wheels.

**Note:** Do not start your engine with the air cleaner removed and do not remove it while the engine is running.

## Maintenance and Specifications

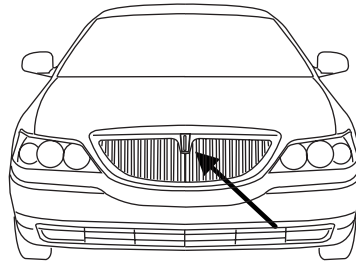
### OPENING THE HOOD

1. Inside the vehicle, pull the hood release handle located under the instrument panel.



2. Go to the front of the vehicle and release the auxiliary latch that is located under the front of the hood in the grille.

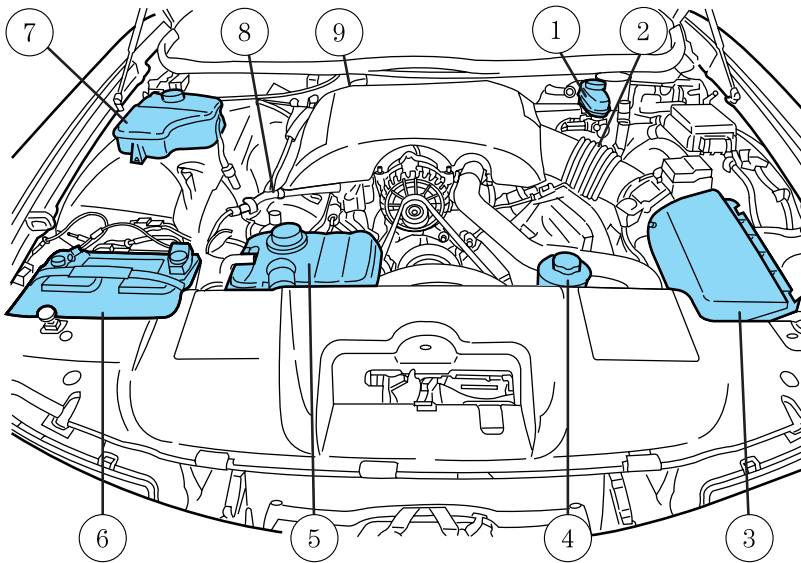
3. Lift the hood until the lift cylinders hold it open.



## Maintenance and Specifications

### IDENTIFYING COMPONENTS IN THE ENGINE COMPARTMENT

#### 4.6L SOHC V8 engine



1. Brake fluid reservoir
2. Engine oil dipstick
3. Air filter assembly
4. Power steering fluid reservoir
5. Engine coolant reservoir
6. Battery
7. Windshield washer fluid reservoir
8. Engine oil filler cap
9. Automatic transmission fluid dipstick



## Maintenance and Specifications

### WINDSHIELD WASHER FLUID

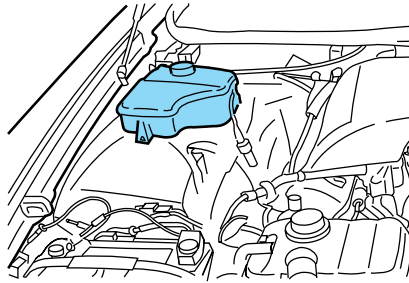
#### Windshield washer fluid

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 specifications. Refer to *Refill capacities* 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.

### ENGINE OIL

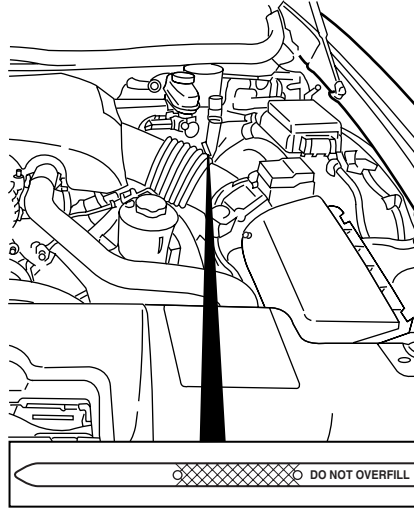
#### Checking the engine oil

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 up to 10 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.

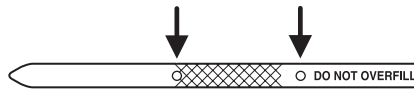
## Maintenance and Specifications

5. Locate and carefully remove the engine oil level indicator (dipstick).

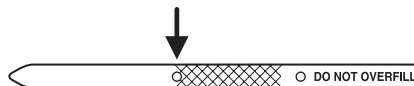


6. Wipe the indicator clean. Insert the indicator fully, then remove it again.

- If the oil level is **within this range**, the oil level is acceptable. **DO NOT ADD OIL.**

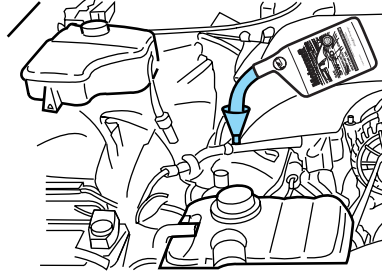


- If the oil level is **below this mark**, engine **oil must be added** to raise the level within the normal operating range.

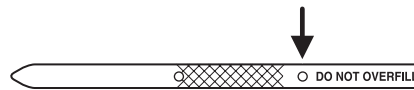


## Maintenance and Specifications

- If required, add engine oil to the engine. Refer to *Adding engine oil* in this chapter.



- **Do not overfill the engine with oil. Oil levels above this mark may cause engine damage.** If the engine is overfilled, some oil must be removed from the engine by a qualified 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 operating 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 normal operating range on the engine oil level indicator (dipstick).
4. Install the indicator and ensure it is fully seated.
5. Fully install the engine oil filler cap by turning the filler cap clockwise until three clicks can be heard.

**To avoid possible oil loss, DO NOT operate the vehicle with the engine oil level indicator and/or the engine oil filler cap removed.**

## Maintenance and Specifications

### Engine oil and filter recommendations

Look for this certification trademark.



### ***SAE 5W-20 engine oil is recommended.***

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 oil treatments or engine treatments. They are unnecessary and could, under certain conditions, lead to engine damage which is not covered by your warranty.

Change your engine oil and filter according to the appropriate schedule listed in the scheduled maintenance guide.

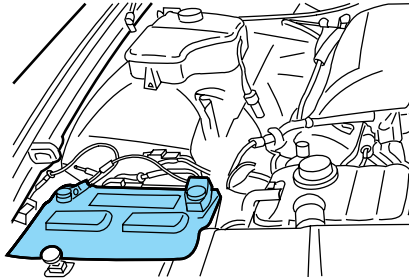
Ford production and aftermarket (Motorcraft) oil filters are designed for added engine protection and long life. If a replacement oil filter is used that does not meet Ford material and design specifications, start-up engine noises or knock may be experienced.

It is recommended you use the appropriate Motorcraft oil filter (or another brand meeting Ford specifications) for your engine application.

## Maintenance and Specifications

### BATTERY

Your vehicle is equipped with a Motorcraft maintenance-free battery which normally does not require additional water during its life of service.



However, for severe usage or in high temperature climates, check the battery electrolyte level. Refer to the scheduled maintenance 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.



Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide proper ventilation.

## Maintenance and Specifications



When lifting a plastic-cased battery, excessive pressure on the end walls could cause acid to flow through the vent caps, resulting in personal injury and/or damage to the vehicle or battery. Lift the battery with a battery carrier or with your hands on opposite corners.



Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Shield your eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes and get prompt medical attention. If acid is swallowed, call a physician immediately.



Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**

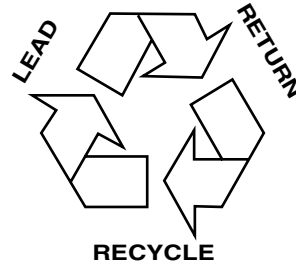
Because your vehicle's engine is electronically controlled by a computer, some control conditions are maintained by power from the battery. When the battery is disconnected or a new battery is installed, the engine must relearn its idle and fuel trim strategy for optimum driveability and performance. To begin this process:

1. With the vehicle at a complete stop, set the parking brake.
2. Put the gearshift 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. Release the parking brake. 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 radio settings must be reset once the battery is reconnected.

## Maintenance and Specifications

- 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

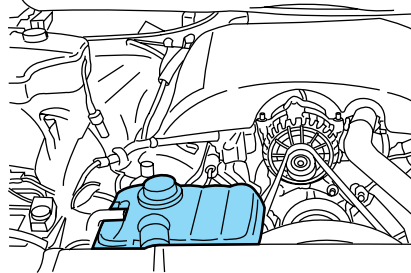
The concentration and level of engine coolant should be checked at the mileage intervals listed in the scheduled maintenance guide. The coolant concentration should be maintained at 50/50 coolant and distilled water, which equates to a freeze point of  $-36^{\circ}\text{C}$  ( $-34^{\circ}\text{F}$ ). 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” or “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  $-36^{\circ}\text{C}$  ( $-34^{\circ}\text{F}$ ).**
- **Boiling protection up to  $129^{\circ}\text{C}$  ( $265^{\circ}\text{F}$ ).**
- **Protection against rust and other forms of corrosion.**
- **Enables calibrated gauges to work properly.**

## Maintenance and Specifications

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.**



## Maintenance and Specifications

**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.

## Maintenance and Specifications

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  $-34^{\circ}\text{F}/-36^{\circ}\text{C}$ ), drain some coolant and adjust the concentration. It may take several drains and additions to obtain a 50/50 coolant concentration.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough 50/50 concentration of engine coolant and distilled water to bring the liquid level to the proper level.

If you have to add more than 1.0 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.

## Maintenance and Specifications

### Severe climates

If you drive in extremely cold climates (less than  $-36^{\circ}\text{C}$  [ $-34^{\circ}\text{F}$ ):

- **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

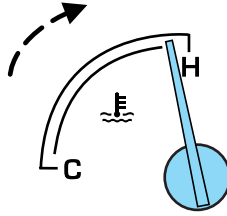
If the engine coolant supply is depleted, this feature allows the vehicle to be driven temporarily before incremental component damage is incurred. The “fail-safe” distance depends on ambient temperatures, vehicle load and terrain.

## Maintenance and Specifications

### **How fail-safe cooling works**

If the engine begins to overheat:

- The engine coolant temperature gauge will move to the H (hot) area.
- The  symbol will illuminate.
- A tone will sound 3 times.
- 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  symbol will begin to flash.
- A tone will sound 5 times.
- The engine will completely shut down, causing steering and braking effort to increase.

Once the engine temperature cools, the engine can be re-started. Take your vehicle to 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.

## Maintenance and Specifications



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

5. Re-start 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.


## Maintenance and Specifications

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.

## Maintenance and Specifications

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

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

### Fuel Filler Cap

Your fuel tank filler cap has an indexed design with a 1/8 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.


The “Check Fuel Cap” light illuminates when the ignition is turned to the ON position. It will also illuminate when the fuel filler cap is not properly installed. Proper fuel filler cap installation is checked automatically as the vehicle is driven, but not until after some fuel is used (fuel gauge drops below full). Once the fuel filler cap is properly secured, the “Check Fuel Cap” light will turn off after a short period of driving.

**If you must replace the fuel filler cap, replace it with a fuel filler cap that is designed for your vehicle. The customer warranty may be void for any damage to the fuel tank or fuel system if the correct genuine Ford or Motorcraft fuel filler cap is not used.**



The fuel system may be under pressure. If the fuel filler cap is venting vapor or if you hear a hissing sound, wait until it stops before completely removing the fuel filler cap. Otherwise, fuel may spray out and injure you or others.

## Maintenance and Specifications

 If you do not use the proper fuel filler cap, excessive pressure or vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in possible personal injury.

### 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.

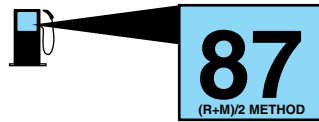
Your vehicle was not designed to use fuel or fuel additives with metallic compounds, including manganese-based compounds containing MMT.

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. “Premium” unleaded gasoline should not be used (particularly in the United States) if “Regular” unleaded gasoline is recommended because it may cause these problems to become more pronounced. 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.

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## Maintenance and Specifications

### 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

## Maintenance and Specifications

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

## Maintenance and Specifications

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.

## Maintenance and Specifications

- 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 (approximately 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.
- 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 L/100 km (MPG) 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.

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## Maintenance and Specifications

- 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.

### On board diagnostics (OBD-II)

Your vehicle is equipped with a computer that monitors the engine’s emission control system. This system is commonly known as the On Board Diagnostics System (OBD-II). This OBD-II system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists the

## Maintenance and Specifications

service technician in properly servicing your vehicle. When the *Check Engine/Service Engine Soon* light illuminates, the OBD-II system has detected a malfunction. Temporary malfunctions may cause your *Check Engine/Service Engine Soon* light to illuminate. Examples are:

1. The vehicle has run out of fuel. (The engine may misfire or run poorly.)
2. Poor fuel quality or water in the fuel.
3. The fuel cap may not have been securely tightened.

These temporary malfunctions can be corrected by filling the fuel tank with good quality fuel and/or properly tightening the fuel cap. After three driving cycles without these or any other temporary malfunctions present, the *Check Engine/Service Engine Soon* 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 *Check Engine/Service Engine Soon* light remains on, have your vehicle serviced at the first available opportunity.

### ***Readiness for Inspection/Maintenance (I/M) testing***

In some localities, it may be a legal requirement to pass an I/M test of the on-board diagnostics system. If 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:

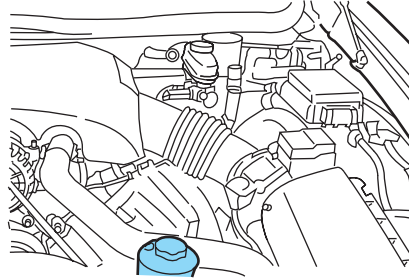
- First, at least 10 minutes of driving on an expressway or highway.
- Next, at least 20 minutes driving in stop-and-go, city-type traffic with at least four idle periods.

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.

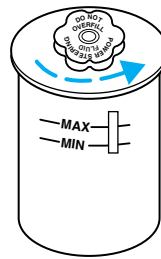
## Maintenance and Specifications

### 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 MERCON® ATF.



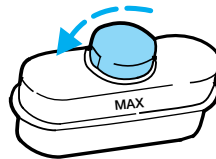
1. Start the engine and let it run until it reaches normal operating temperature (the engine coolant temperature gauge indicator will be near the center of the normal area between H and C).
2. While the engine idles, turn the steering wheel left and right several times.
3. Turn the engine off.
4. Check 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 below the "MAX" line that do not trigger the brake system warning lamp are within the normal operating range, there is no need to



## Maintenance and Specifications

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 (if equipped)

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.

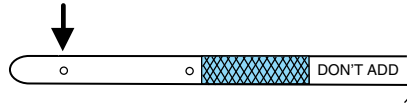
1. Drive the vehicle 30 km (20 miles) or until it reaches normal operating temperature.
2. Park the vehicle on a level surface and engage the parking brake.
3. With the parking brake engaged and your foot on the brake pedal, start the engine and move the gearshift lever through all of the gear ranges. 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.



## Maintenance and Specifications

### 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).

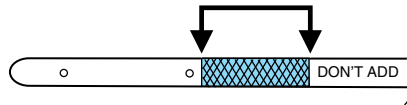


### Correct fluid level

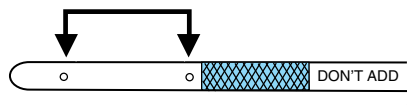
The transmission fluid should be checked at normal operating temperature 66°C-77°C (150°F-170°F) on a level surface. The normal operating temperature can be reached after approximately 30 km (20 miles) of driving.

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]).

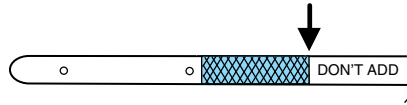


## Maintenance and Specifications

### **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**

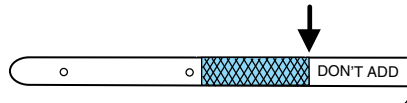
Before adding any fluid, make sure the correct type is used. The type of fluid used is normally indicated on the dipstick and also in the *Lubricant specifications* section in this chapter.

### **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.

### **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*.

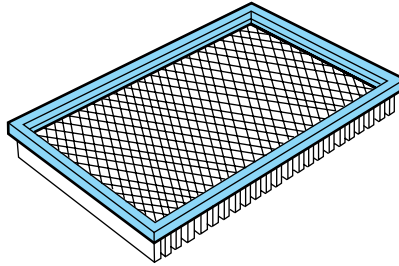
**Note:** Do not start your engine with the air cleaner removed and do not remove it while the engine is running.

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## Maintenance and Specifications

### Changing the air filter element

1. Release the clamps that secure the air filter housing cover.
2. Carefully separate the two halves of the air filter housing.
3. Remove the air filter element from the air filter housing.
4. Wipe the air filter housing and cover clean to remove any dirt or debris and to ensure good sealing.
5. Install a new air filter element. Be careful not to crimp the filter element edges between the air filter housing and cover. This could cause filter damage and allow unfiltered air to enter the engine if not properly seated.

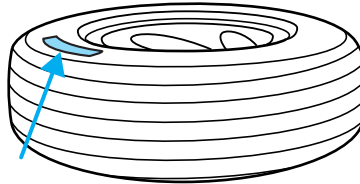


6. Replace the air filter housing cover and secure the clamps.
7. Replace the air inlet tube and secure the clamp.

**Note:** Failure to use the correct air filter element may result in severe engine damage. The customer warranty may be voided for any damage to the engine if the correct air filter element is not used.

### 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).

## Maintenance and Specifications

**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.

## Maintenance and Specifications

### 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 one hour or has been driven less than 5 km (3 miles).
- Adjust tire pressure to recommended specifications found on the Certification Label.

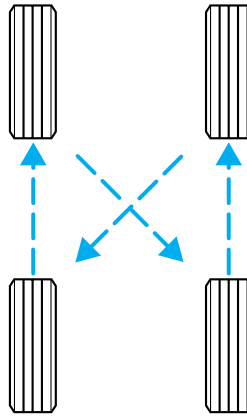


Improperly inflated tires can affect vehicle handling and can fail suddenly, possibly resulting in loss of vehicle control, vehicle rollover and/or personal injury.

#### 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.

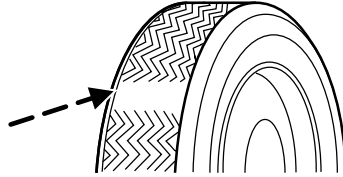
- Four tire rotation





## Maintenance and Specifications


### Replacing the tires

Replace the tires when the wear band is visible through the tire treads.



 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 or Tire 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 may not drive properly and safely.

 Make sure that all replacement tires are of the same size, type, load-carrying capacity and tread design (e.g., “All Terrain”, “Touring”, etc.), as originally offered by Ford.

 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.

### 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 offered by Ford as an accessory or equivalent. Using SAE class S or other conventional link type chains may cause damage to the vehicle’s wheel house and/or body.

## Maintenance and Specifications

- 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.

### MOTORCRAFT PART NUMBERS

Component	4.6L SOHC V8 engine
Air filter element	FA-1668
Fuel filter	FG-986B
Battery-standard	BXT-65-650
Battery-heavy duty <sup>1</sup>	BXT-65-750
Oil filter	FL-820-S
PCV valve	EV-258
Spark plugs <sup>2</sup>	AWSF-32P

<sup>1</sup>Included in long wheelbase package.

<sup>2</sup>Refer to Vehicle Emissions Control Information (VECI) decal for spark plug gap information.

## Maintenance and Specifications

### REFILL CAPACITIES

Fluid	Ford Part Name	Capacity
Engine oil (includes filter change) <sup>7</sup>	Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil (US) Motorcraft SAE 5W-20 Super Premium Motor Oil (Canada)	5.7L (6.0 quarts)
Brake fluid	Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid <sup>1</sup>	Fill to line on reservoir
Power steering fluid	Motorcraft MERCON® ATF	Fill to line on reservoir
Transmission fluid <sup>2</sup>	Motorcraft MERCON®V ATF	13.2L (13.9 quarts) <sup>3</sup>
Engine coolant <sup>4</sup>	Motorcraft Premium Gold Engine Coolant (yellow-colored)	15.0L (15.8 quarts)
Fuel tank	N/A	71.9L (19.0 gallons)
Rear axle lubricant <sup>5</sup>	Motorcraft SAE 80W-90 Premium Rear Axle Lubricant	2.4L (5.0 pints) <sup>6</sup>
Windshield washer fluid	Motorcraft Premium Windshield Washer Concentrate	Fill to line on reservoir

<sup>1</sup>Use only brake fluids certified to meet Ford specifications. Refer to *Lubricant Specifications* in this chapter. DOT 3 fluid is recommended. However, if DOT 3 is not available, DOT 4 fluid can be used.

<sup>2</sup>Ensure the correct automatic transmission fluid is used. MERCON® and MERCON® V are not interchangeable. DO NOT MIX MERCON® and MERCON® V. Refer to the scheduled maintenance guide to determine the correct service interval.

<sup>3</sup>Indicates only approximate dry-fill capacity. Some applications may vary based on cooler size and if equipped with an in-tank cooler. The amount of transmission fluid and fluid level should be set by the indication on the dipstick's normal operating range.



## Maintenance and Specifications

<sup>4</sup>Add the coolant type originally equipped in your vehicle.

<sup>5</sup>Rear axles are considered lubricated for life when the vehicle is used for normal service. See your scheduled maintenance guide for Severe Duty requirements.

<sup>6</sup>Add 118 ml (4 oz.) of Additive Friction Modifier XL-3 or equivalent meeting Ford specification EST-M2C118-A for complete refill of Traction-Lok rear axle.

For limousine, use 2.1-2.3L (4.50-4.75 pints) of Motorcraft SAE 75W-140 High Performance Rear Axle Lubricant or equivalent meeting Ford specification WSL-M2C192-A for complete refill of rear axle.

Service refill capacities are determined by filling the rear axle 6 mm to 14 mm (1/4 inch to 9/16 inch) below the bottom of the filler hole.

<sup>7</sup>Use of sythetic or sythetic blend motor oil is not mandatory. Engine oil need only meet the requirements of Ford specification WSS-M2C153-H and the API Certification mark.

### LUBRICANT SPECIFICATIONS

Item	Ford part name	Ford part number	Ford specification
Brake fluid	Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid <sup>1</sup>	PM-1	ESA-M6C25-A and DOT 3
Door weatherstrips	Silicone Lubricant	XL-6	ESR-M13P4-A
Engine coolant	Motorcraft Premium Gold Engine Coolant (yellow colored)	VC-7-A	WSS-M97B 51-A1

## Maintenance and Specifications

Item	Ford part name	Ford part number	Ford specification
Engine oil	Motorcraft SAE 5W20 Premium Synthetic Blend Motor Oil (US) Motorcraft SAE 5W-20 Super Premium Motor Oil (Canada)	XO-5W20-QSP (US) CXO-5W20-LSP12 (Canada)	WSS-M2C153-H with API Certification Mark
Hinges, latches, striker plates, fuel filler door hinge and seat tracks	Multi-Purpose Grease	XG-4 or XL-5	ESB-M1C93-B or ESR-M1C159-A
Lock cylinders	Penetrating and Lock Lubricant	Motorcraft XL-1	N/A
Power steering fluid	Motorcraft MERCON® ATF	XT-2-QDX	MERCON®
Automatic transmission (4R70W) <sup>3</sup>	Motorcraft MERCON®V ATF	XT-5-QM	MERCON®V
Rear Axle Lubricant <sup>2</sup>	Motorcraft SAE 80W-90 Premium Rear Axle Lubricant	XY-80W90-QL	WSP-M2C197-A
Windshield washer fluid	Motorcraft Premium Windshield Washer Concentrate	ZC-32-A	WSB-M8B16-A2

<sup>1</sup>Use only brake fluids certified to meet Ford specifications. DOT 3 fluid is recommended. However, if DOT 3 is not available, DOT 4 fluid can be used.

## Maintenance and Specifications

<sup>2</sup>Add 118 ml (4 oz.) of Additive Friction Modifier XL-3 or equivalent meeting Ford specification EST-M2C118-A for complete refill of Traction-Lok rear axles.

For limousine, use 2.1-2.3L (4.50-4.75 pints) of Motorcraft SAE 75W-140 High Performance Rear Axle Lubricant XY-75W140-QL or equivalent meeting Ford Specification WSL-M2C192-A for complete refill of rear axles.

<sup>3</sup>Ensure the correct transmission fluid is used. Transmission fluid requirements are indicated on the dipstick or the dipstick handle. MERCON® and MERCON® V are not interchangeable. DO NOT mix MERCON® and MERCON® V. Refer to your scheduled maintenance guide to determine the correct service interval.

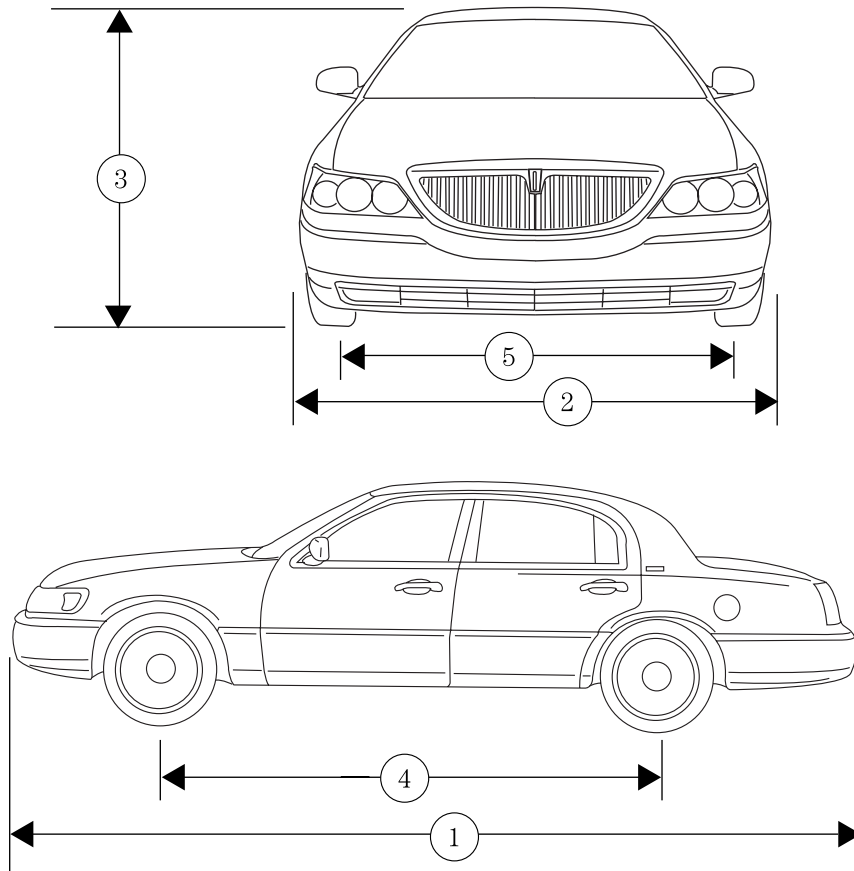
### ENGINE DATA

Engine	4.6L SOHC V8 engine
Cubic inches	281
Required fuel	87 octane
Firing order	1-3-7-2-6-5-4-8
Spark plug gap	1.3-1.4 mm (0.052-0.056 inch)
Ignition system	Coil on plug
Compression ratio	9.4:1

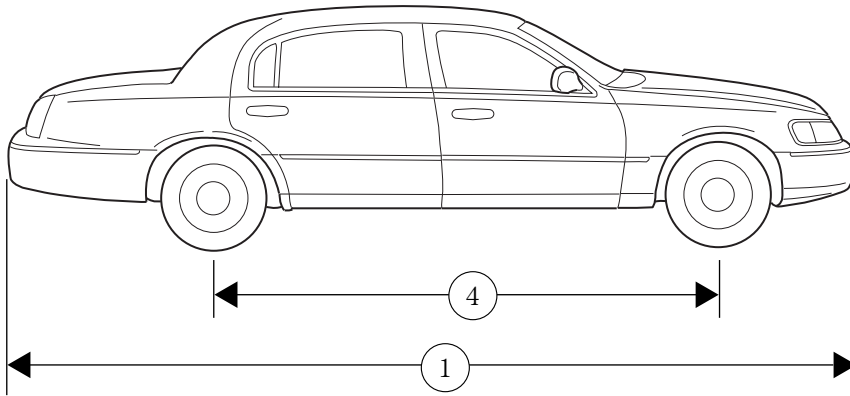
### VEHICLE DIMENSIONS

Vehicle dimensions	mm (in)
(1) Overall length	5 471 (215.4)/5 623 (221.4)*
(2) Overall width	1 987 (78.2)
(3) Overall height	1 489 (58.6)
(4) Wheelbase	2 990 (117.7)/3 142 (123.7)*
(5) Track - Front	1 611 (63.4)
(5) Track - Rear	1 673 (65.9)
* Denotes long wheel base	

## Maintenance and Specifications



## Maintenance and Specifications



### IDENTIFYING YOUR VEHICLE

#### Certification label

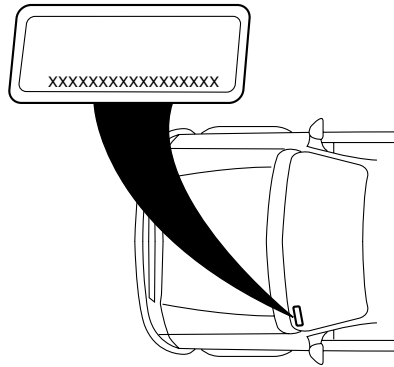
The National Highway Traffic Safety Administration Regulations require that a Certification label be affixed to a vehicle and prescribe where the Certification label may be located. The Certification label is located on the front door latch pillar on the driver's side.

<b>MFD. BY FORD MOTOR CO. IN U.S.A.</b>	
DATE: XXXXX	GVWR: XXXXX LB/ XXXXX KG
FGAWR: XXXXX/XXXXXXXX	RGAWR: XXXXX/XXXXXXXX
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.	
VIN: XXXXXXXXXXXXXXXX	TYPE: XXXXXXXXXXXXXXXX
MAXIMUM LOAD=OCCUPANTS + LUGGAGE=XXXKG/XXXLB	
OCCUPANTS: X TOTAL X FR X 2ND X RR OCCUPANTS LUGGAGE	
XX XXXKG/XXXLB	
TIRE: XXXX/XXXXX XXX X XXXKG/XXXLB	
PRESSURE (FR) XXX kPa/ XX PSI COLD	
PRESSURE (RR) XXX kPa/ XX PSI COLD	
TRAILER TOWING - SEE OWNER GUIDE	
EXT PNT: XXXXX XXXXX	RC: XX   DSO: XXXX   F0000
BAR   INT TR   TP/PS   R	AXLE   TR   SPR   T0000
X XX XXX X XX X XXX	
UTC VFOHT-15294A10-GA	

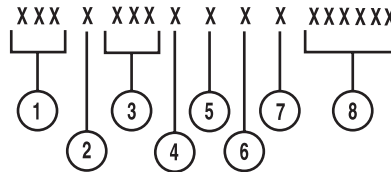
## Maintenance and Specifications

### 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.)



1. World manufacturer identifier
2. Brake type and gross vehicle weight rating (GVWR)
3. Vehicle line, series, body type
4. Engine type
5. Check digit
6. Model year
7. Assembly plant
8. Production sequence number



### Engine number

The engine number (the last eight numbers of the vehicle identification number) is stamped on the engine block, transmission, frame and transfer case (if equipped).

## Accessories

### **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.lincolnaccessories.com](http://www.lincolnaccessories.com).

#### **Vehicle Security**

Air bag anti-theft locks  
Remote keyless entry  
Styled wheel locks  
Vehicle security systems

#### **Comfort and convenience**

Cargo nets  
Cargo organizers  
Engine block heater  
Remote start system

#### **Travel equipment**

Full size (conventional) spare tire

## Accessories

### Protection and appearance equipment

All-weather floor mats

Car cover

Carpeted floor mats

Chrome arch wheel molding

Door edge guards

First aid kit

Flat splash guards

Front end covers

Highway safety kit

Molded splash guards

Molded vinyl floor mats

Side window deflectors

Styled hood deflector

Universal floor mats

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



## Accessories

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.

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