Table of Contents

Introduction	4
Instrument Cluster	12
Warning lights and chimes Gauges	12 17
Entertainment Systems	20
AM/FM stereo AM/FM stereo with single CD AM/FM stereo with in-dash six CD	20 22 26
Climate Controls	32
Heater only Manual heating and air conditioning	32 33
Lights	35
Headlamps Turn signal control Bulb replacement	$35 \\ 40 \\ 41$
Driver Controls	47
Windshield wiper/washer control Steering wheel adjustment Power windows Mirrors Speed control	47 48 52 53 54
Locks and Security	58
Keys Locks Anti-theft system	58 58 66

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 1

Table of Contents			
Seating and Safety Restraints	70		
Seating Safety restraints Airbags Child restraints	70 77 87 97		
Tires, Wheels and Loading	113		
Tire information Tire inflation Tire Pressure Monitoring System (TPMS) Vehicle loading Trailer towing Recreational towing	115 117 133 145 151 161		
Driving	162		
Starting Brakes Traction Control™ Traction Control™/AdvanceTrac® Transmission operation Reverse sensing system	162 167 169 170 176 185		
Roadside Emergencies	189		
Getting roadside assistance Hazard flasher switch Fuel pump shut-off switch Fuses and relays Changing tires Wheel lug nut torque Jump starting Wrecker towing	189 190 191 192 200 209 210 216		
Customer Assistance	218		
Reporting safety defects (U.S. only) Reporting safety defects (Canada only)	224 225		

https://www.MyCarManual.com

Table of Contents

Cleaning	226
Underbody preservation	231
Maintenance and Specifications	233
Engine compartment Engine oil Battery Engine coolant Fuel information Air filter(s) Part numbers Maintenance product specifications and capacities Engine data	235 237 240 243 249 268 270 271 274
Accessories	278
Index	280

All rights reserved. Reproduction by any means, electronic or mechanical including photocopying, recording or by any information storage and retrieval system or translation in whole or part is not permitted without written authorization from Ford Motor Company. Ford may change the contents without notice and without incurring obligation.

Copyright © 2008 Ford Motor Company

3

https://www.MyCarManual.com

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.

PERCHLORATE MATERIAL

Certain components of this vehicle such as airbag modules, seat belt pretensioners, and button cell batteries may contain Perchlorate Material – Special handling may apply for service or vehicle end of life disposal. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

CONGRATULATIONS

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

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

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

Additional owner information is given in separate publications.

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

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

WARNING: 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.

4

https://www.MyCarManual.com

SAFETY AND ENVIRONMENT PROTECTION

Warning symbols in this guide

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

Warning symbols on your vehicle

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



Protecting the environment

We must all play our part in protecting the environment. Correct vehicle usage and the authorized disposal of waste, cleaning and lubrication materials are significant



steps towards this aim. Information in this respect is highlighted in this guide with the tree symbol.

BREAKING-IN YOUR VEHICLE

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

Drive your new vehicle at least 1,000 miles (1,600 km) before towing a trailer. For more detailed information about towing a trailer, refer to *Trailer towing* in the *Tires, Wheels and Loading* chapter.

Do not add friction modifier compounds or special break-in oils since these additives may prevent piston ring seating. See *Engine oil* in the *Maintenance and Specifications* chapter for more information on oil usage.

https://www.MyCarManual.com

5

SPECIAL NOTICES

New Vehicle Limited Warranty

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

Service Data Recording

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

Event Data Recording

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

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

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

6

https://www.MyCarManual.com

Vehicle Modification Data Recording

Some aftermarket products may cause severe engine and/or transmission damage; refer to the *What is not covered* section in *The new vehicle limited warranty for your vehicle* chapter of your vehicle's *Warranty Guide* for more information. Some vehicles are equipped with Powertrain Control Systems that can detect and store information about vehicle modifications that increase horsepower and torque output; this information cannot be erased and will stay in the system's memory even if the modification is removed. When a dealer or repair facility works on your vehicle, it may be necessary for them to access the information in the Powertrain Control System. This information will likely identify if any unauthorized modifications have been made to the system and may be used to determine if repairs will be covered by warranty.

Special instructions

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

WARNING: Please read the section Airbag Supplemental Restraint System (SRS) in the Seating and Safety Restraints chapter. Failure to follow the specific warnings and instructions could result in personal injury.

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

Notice to owners of diesel-powered vehicles

Read the 6.0 and 6.4 Liter Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement for information regarding correct operation and maintenance of your Diesel-powered light truck.

Notice to owners of pickup trucks and utility type vehicles

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

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

https://www.MyCarManual.com

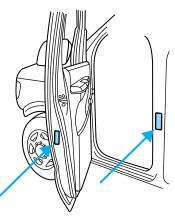
7

Using your vehicle as an ambulance

If your light truck is equipped with the Ford Ambulance Preparation Package, it may be utilized as an ambulance. Ford urges ambulance manufacturers to follow the recommendations of the *Ford Incomplete Vehicle Manual, Ford Truck Body Builder's Layout Book* and the *Qualified Vehicle Modifiers (QVM) Guidelines* as well as pertinent supplements. For additional information, please contact the Truck Body Builders Advisory Service at 1–877–840–4338.

Use of your Ford light truck as an ambulance, without the Ford Ambulance Preparation Package voids the Ford New Vehicle Limited Warranty and may void the Emissions Warranties. In addition, ambulance usage without the preparation package could cause high underbody temperatures, overpressurized fuel and a risk of spraying fuel which could lead to fires.

If your vehicle is equipped with the Ford Ambulance Preparation Package, it will be indicated on the Safety Compliance Certification Label. The label is located on the driver's side door pillar or on the rear edge of the driver's door. You can determine whether the ambulance manufacturer followed Ford's recommendations by directly contacting that manufacturer. Ford Ambulance Preparation Package is only available on certain Diesel engine equipped vehicles.



Using your vehicle as a stationary power source (PTO)

Refer to the *Driving* chapter for more information and guidelines for operating a vehicle equipped with an aftermarket power take-off system.

https://www.MyCarManual.com

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.

WARNING: Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device that may take their focus off the road. The driver's primary responsibility is the safe operation of their vehicle. Only use cell phones and other devices not essential to the driving task when it is safe to do so.

Export unique (Non–United States/Canada) vehicle specific information

For your particular global region, your vehicle may be equipped with features and options that are different from the ones that are described in this *Owner's Guide*. A market unique supplement may be supplied that complements this book. By referring to the market unique supplement, if provided, you can properly identify those features, recommendations and specifications that are unique to your vehicle. This *Owner's Guide* is written primarily for the U.S. and Canadian Markets. Features or equipment listed as standard may be different on units built for Export. **Refer to this Owner's Guide for all other required information and warnings.**

https://www.MyCarManual.com

9

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

Vehicle Symbol Glossary

Safety Alert		See Owner's Guide	i
Fasten Safety Belt	Ä	Airbag - Front	
Airbag - Side	×.	Child Seat Lower Anchor	Ŀ
Child Seat Tether Anchor	ťĽ	Brake System	
Anti-Lock Brake System	(ABS)	Parking Brake System	(P)
Brake Fluid - Non-Petroleum Based	\bigcirc	Parking Aid System	Pળ≜
Stability Control System	55	Speed Control	(6)
Master Lighting Switch	-Ŋ-	Hazard Warning Flasher	
Fog Lamps-Front	却	Fuse Compartment	۶ П
Fuel Pump Reset	T	Windshield Wash/Wipe	$\widehat{\nabla}$
Windshield Defrost/Demist	Ŵ	Rear Window Defrost/Demist	ŢţţŢ

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

10

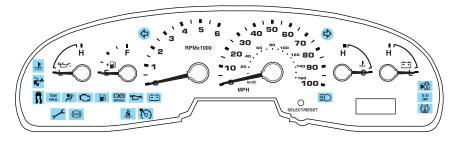
Vehicle Symbol Glossary

Power Windows Front/Rear		Power Window Lockout	\bigotimes
Child Safety Door Lock/Unlock		Interior Luggage Compartment Release	
Panic Alarm	N	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	
Service Engine Soon	ſŢ	Engine Air Filter	$\ddot{\Rightarrow}$
Passenger Compartment Air Filter		Jack	\diamondsuit
Check Fuel Cap	5.4	Low Tire Pressure Warning	(!)

https://www.MyCarManual.com

11

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, refer to the respective system warning light for additional information.

If your vehicle is equipped with a Diesel engine, it has a unique cluster, refer to *Starting the engine* in your 6.0 and 6.4 Liter Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement.

Service engine soon: The *Service engine soon* indicator light illuminates when the ignition is first

turned to the on position to check



the bulb and to indicate whether the vehicle is ready for Inspection/Maintenance (I/M) testing. Normally, the "Service engine soon" light will stay on until the engine is cranked, then turn itself off if no malfunctions are present. However, if after 15 seconds the "Service engine soon" light blinks eight times, it means that the vehicle is not ready for I/M testing. See the *Readiness for Inspection/Maintenance* (I/M) testing in the *Maintenance and Specifications* chapter.

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

12

https://www.MyCarManual.com

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

Electronic throttle control:

Illuminates when the engine has defaulted to a "limp-home" operation. Report the fault to a dealer at the earliest opportunity.

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 Specification* chapter.

Brake system warning light: To confirm the brake system warning light is functional, it will momentarily illuminate when the ignition is turned to the on position





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

WARNING: Driving a vehicle with the brake system warning light on is dangerous. A significant decrease in braking performance may occur. It will take you longer to stop the vehicle. Have the vehicle checked by your authorized dealer. Driving extended distances with the parking brake engaged can cause brake failure and the risk of personal injury.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 13

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



authorized dealer. Normal braking is still functional unless the brake warning light also is illuminated.

Airbag readiness: If this light fails to illuminate when the ignition is turned to ON, continues to flash or remains on, have the system



serviced immediately by your authorized dealer. A chime will also sound when a malfunction in the supplemental restraint system has been detected.

Safety belt: Reminds you to fasten your safety belt. A Belt-Minder[®] chime will also sound to remind you to fasten your safety belt. Refer to the *Seating and Safety Restraints* chapter to activate/deactivate the Belt-Minder[®] chime feature.

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 of

vehicle as soon as possible, switch off the engine and let cool. Refer to *Engine coolant* in the *Maintenance and Specifications* chapter.

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

https://www.MyCarManual.com

Low tire pressure warning

(if equipped): Illuminates when your tire pressure is low. If the light remains on at start up or while driving, the tire pressure should be



checked. Refer to Inflating your tires in the Tires, Wheels and Loading chapter. When the ignition is first turned to ON, the light will illuminate for 3 seconds to ensure the bulb is working. If the light does not turn on or begins to flash, have the system inspected by your authorized dealer. For more information on this system, refer to Tire pressure monitoring system (TPMS) in the Tires, Wheels and *Loading* chapter.

AdvanceTrac[®] (if equipped):

Flashes (two times per second) when the AdvanceTrac[®] with RSC system is active. If the light remains on, or "SERVICE RSC NOW" is displayed in the odometer display



with a chime, have the system serviced immediately by your authorized dealer. (Flashes one time every two seconds when AdvanceTrac[®] with RSC system has not yet initialized and is not available.) For further information, refer to AdvanceTrac[®] (Electronic stability control) with Roll stability controlTM (RSC) in the Driving chapter.

WARNING: If your vehicle is equipped with the AdvanceTrac[®] with RSC system, then it was designed to be operated with RSC. Driving without a functioning RSCTM system could be dangerous. Reduce speed and proceed to an authorized dealer to have the system serviced immediately.

Transmission Tow/Haul Feature:

TOW Illuminates when the Tow/Haul HAUL feature has been activated. Refer to the Driving chapter for transmission function and operation. If the light flashes steadily, have the system serviced immediately, damage to the transmission could occur.

Anti-theft system: Flashes when the SecuriLock[™] Passive Anti-theft System has been activated.



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) **USA** (fus)

15

Overdrive off: Illuminates when the overdrive function of the transmission has been turned off; refer to the *Driving* chapter. If the light does not illuminate, have the tr

OFF

light does not illuminate, have the transmission serviced soon, or damage may occur.

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



0/D

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

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

Turn signal: Illuminates when the left or right turn signal or the hazard lights are turned on. If the





indicators stay on or flash faster, check for a burned out bulb.

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



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

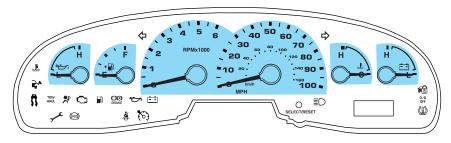
Headlamps on warning chime: Sounds when the headlamps or parking lamps are on, the ignition is off (the key is not in the ignition) and the driver's door is opened.

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

16

https://www.MyCarManual.com

GAUGES



Speedometer: Indicates the current vehicle speed.



Engine coolant temperature gauge: Indicates engine coolant temperature. At normal operating temperature, the needle will be in the normal range (between "H" and "C"). If it enters the red section, the engine is overheating. Stop



the vehicle as soon as safely possible, switch off the engine and let the engine cool.



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

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



https://www.MyCarManual.com

17

Trip odometer: Registers the miles (kilometers) of individual journeys. Press the SELECT/RESET control once to switch from the odometer to the trip odometer. Press the control

again to select Trip A and Trip B features. To reset the trip, press and hold the control again until the trip reading is 0.0 miles.

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

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

Engine oil pressure gauge:

Indicates engine oil pressure. The needle should stav in the normal operating range (between "L" and "H"). If the needle falls below the normal range, stop the vehicle, turn off the engine and check the engine

oil level. Add oil if needed. If the oil level is correct, have your vehicle checked by your authorized dealer.

18

https://www.MyCarManual.com

2008 Econoline (eco) **Owners Guide (post-2002-fmt)** USA (fus)

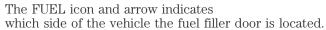


н





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.

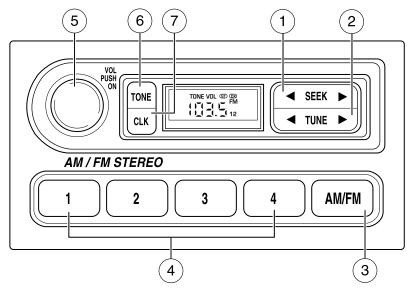
https://www.MyCarManual.com

19



AUDIO SYSTEMS

AM/FM stereo (if equipped)



WARNING: Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device that may take their focus off the road. The driver's primary responsibility is the safe operation of their vehicle. Only use cell phones and other devices not essential to the driving task when it is safe to do so.

1. Seek: Press \triangleleft / \triangleright to find the next listenable station down/up the frequency band.

2. **Tune:** Press \triangleleft / \triangleright to manually adjust the radio frequency down/up.



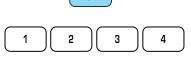
20

https://www.MyCarManual.com

AM/FM

3. **AM/FM:** Press to choose a frequency band in radio mode.

4. Memory preset buttons: To set



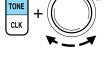
a station: Select frequency band AM/FM1/FM2; tune to a station, press and hold a preset button until sound returns.

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



6. **Tone:** Press TONE until the desired level — Bass, Treble, Fade appears on the display. Turn the volume control to raise/lower the levels, or to move the audio sound from the right to left or the front to back (if equipped).

7. **CLK (Clock):** To set the hour, press and hold CLK until CLOCK SET appears in the display. Continue to hold CLK as you press SEEK to decrease ◀ or increase ► the hours.



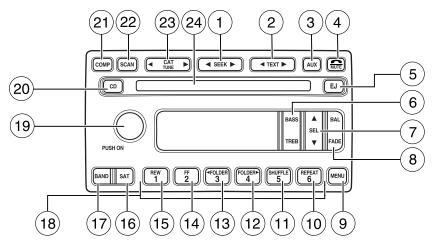


To set the minute, press and hold CLK until CLOCK set appears in the display. Continue to hold CLK as you press TUNE to decrease \blacktriangleleft or increase \blacktriangleright the minutes.



21

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



WARNING: Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device that may take their focus off the road. The driver's primary responsibility is the safe operation of their vehicle. Only use cell phones and other devices not essential to the driving task when it is safe to do so.

1. SEEK: Press and release SEEK \triangleleft / \blacktriangleright for previous/next



strong station or track.

2. **TEXT:** The filename (Fi), song title (So), artist text (Ar) or album text (AL) may be viewed while

▲ TEXT ►

playing an MP3 selection. When MP3 selection text is shown on the message display, its corresponding text indicator (Fi, So, Ar, or AL) is shown in the elapsed time display. Press TEXT to scroll through the text fields. The display will scroll through all of the text in the current field before changing to the next field. (TEXT must be pressed within 3 seconds of the previous press to proceed to the next/last text display. The last text field shown on the display will become the new display message default.

22

https://www.MyCarManual.com

TEXT is also available when equipped with Satellite radio. Your radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your dealer. Detailed Satellite instructions are included with the dealer installed kit.

Check with your authorized dealer for availability. 3. **AUX:** This function is not AUX operational. 4. **MUTE:** Press to MUTE playing MUTE media; press again to return to playing media. 5. EJ: Press to eject a CD. EJ 6. **Bass:** Press BASS; then press SEL SEL \bigvee / \checkmark to decrease/increase the bass output. **Treble:** Press TREB; then press SEL \bigvee / \checkmark to decrease/increase the treble output. 7. Select: Use with Bass, Treble, ▲ SEL Balance, Fade and other menu selections. 8. Balance: Press BAL; then press + SEL SEL ∇ / \blacktriangle to shift sound to the left/right speakers. Fade: Press FADE; then press A SEL SEL \bigvee / \blacktriangle to shift sound to the rear/front speakers. 9. Menu: Press MENU and SEL to SEL access/adjust the following

Autoset: Press MENU until AUTOSET appears in the display. Press SEL to toggle ON/OFF. Allows you to set the strongest local radio stations without losing your original manually set preset stations for AM/FM1/FM2. When the six strongest stations are filled, the station

23

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

functions:

stored in preset 1 will begin playing. If there are less than six strong stations, the system will store the last one in the remaining presets.

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

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

10. REPEAT: Repeats the current CD/MP3 track when active (ON). Press to show repeat status. Press again to toggle status.	(REPEAT) 6
11. SHUFFLE: Plays CD/MP3 tracks in random order when active (ON). Press to show shuffle status. Press again to toggle status.	(SHUFFLE)
12. FOLDER : Press to access the next MP3 directory.	FOLDER+
13. FOLDER \checkmark : Press to access the previous MP3 directory.	(FOLDER 3
14. FF (Fast forward): In CD/MP3 mode, press until desired selection is reached.	FF 2
15. REW (Rewind): In CD/MP3 mode, press until desired selection is reached.	REW 1
16. SAT (if equipped): Your radio comes equipped with Satellite Ready capability. The kit to enable the Satellite reception is available through your dealer. It instructions are included with the dealer installed kit	

Check with your authorized dealer for availability.

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

24

BAND

https://www.MyCarManual.com



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

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



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

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

21. COMP (Compression): Brings composition of the state of t

CAT: CAT is only available when equipped with Satellite Radio. Your radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your dealer. Detailed Satellite instructions are included with the dealer installed kit. *Check with your authorized dealer for availability.*

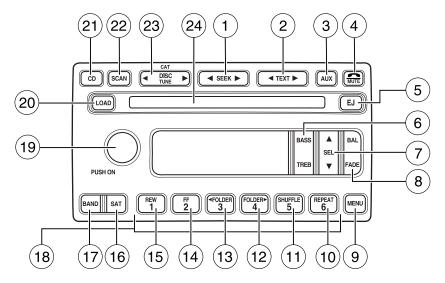
25

https://www.MyCarManual.com

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

24. CD slot: Insert a CD with the label side up.

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



WARNING: Driving while distracted can result in loss of vehicle control, accident and injury. Ford strongly recommends that drivers use extreme caution when using any device that may take their focus off the road. The driver's primary responsibility is the safe operation of their vehicle. Only use cell phones and other devices not essential to the driving task when it is safe to do so.

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

26



https://www.MyCarManual.com

2. **TEXT:** The filename (Fi), song title (So), artist text (Ar) or album text (AL) may be viewed while

TEXT

playing an MP3 selection. When MP3 selection text is shown on the message display, its corresponding text indicator (Fi, So, Ar, or AL) is shown in the elapsed time display. Press TEXT to scroll through the text fields. The display will scroll all of the text in the current field before changing to the next field. (TEXT must be pressed within 3 seconds of the previous button press to proceed to the next/last text display.)

TEXT is also available when equipped with Satellite radio. Your radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your dealer. Detailed Satellite instructions are included with the dealer installed kit. *Check with your authorized dealer for availability.*

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

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

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

6. **Bass:** Press BASS; then press SEL \bigvee / \blacktriangle to decrease/increase the bass output.

Treble: Press TREB; then press SEL \bigvee / \blacktriangle to decrease/increase the treble output.

7. **Select:** Use with Bass, Treble, Balance, Fade and other menu functions.

8. **Balance:** Press BAL; then press SEL \bigvee / \blacktriangle to shift sound to the left/right speakers.

AUX

27

https://www.MyCarManual.com

Fade: Press FADE; then press SEL \bigvee / \checkmark to shift sound to the rear/front speakers.

9. **Menu:** Press to access the following functions:

Compression: Brings soft and loud CD passages together for a more



consistent listening level when in CD mode. Press MENU until compression status is displayed. Press the SEL control to enable the compression feature when COMPRESS OFF is displayed. Press the SEL control again to disable the feature when COMPRESS ON is displayed.

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

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

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

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

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

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

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

28

https://www.MyCarManual.com

14. **FF**(Fast forward): In CD/MP3 mode, press until desired selection is reached.

15. **REW**(Rewind): In CD/MP3 mode, press until desired selection is reached.

16. **SAT (if equipped):** Your radio comes equipped with Satellite Ready capability. The kit to enable the

Satellite reception is available through your dealer. Detailed satellite instructions are included with the dealer installed kit. *Check with your authorized dealer for availability.*

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

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

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

20. **Load:** Press to load a CD. Press LOAD and a memory preset to load to a specific disc slot. Press and hold to load up to six discs.

21. CD: Press to enter CD mode.

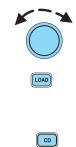


(FF 2)



BAND





https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 29

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

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

SCAN

23. **Disc/Tune:** Press \blacktriangleleft or \blacktriangleright to

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

CAT: CAT is only available when equipped with Satellite Radio. Your Audiophile radio comes equipped with Satellite ready capability. The kit to enable Satellite reception is available through your dealer. Detailed Satellite instructions are included with the dealer installed kit. *Check with your authorized dealer for availability.*

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

24. CD slot: Insert a CD, label side up.

Accessory delay

With accessory delay, the audio system and other electrical features may be used for up to ten minutes after the ignition switch is turned off or until any door is opened.

GENERAL AUDIO INFORMATION

Radio frequencies:

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

AM: 530, 540–1700, 1710 kHz FM: 87.7, 87.9–107.7, 107.9 MHz

30

https://www.MyCarManual.com

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.

CD/CD player care

Do:

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

Don't:

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

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

Audio system warranty and service

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

https://www.MyCarManual.com

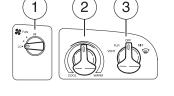
31

Climate Controls

HEATER ONLY SYSTEM (IF EQUIPPED)

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

2. **Temperature selection:** Controls the temperature of the airflow in the vehicle.



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

VENT: Distributes outside air through the instrument panel vents.

FLR: Distributes outside air through the floor vents.

OFF: Outside air is shut out and the climate system is turned off.

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

 \overrightarrow{H} : Distributes outside air through the windshield defroster vents.

Operating tips

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the A position.
- To reduce humidity build up inside the vehicle during cold or warm weather, do not drive with the air flow selector in the OFF position.
- Do not put objects under the front seats that will interfere with the air flow 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 MIX.
- 2. Set the temperature control to maintain comfort.
- 3. Set the fan speed to HI.

32

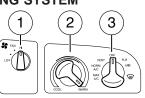
https://www.MyCarManual.com

Climate Controls

MANUAL HEATING AND AIR CONDITIONING SYSTEM (IF EQUIPPED)

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

2. **Temperature selection:** Controls the temperature of the airflow in the vehicle.



3. **Air flow selections:** Controls the direction of the airflow in the vehicle. Also controls the airflow for the rear auxiliary system (if equipped). See the following for a brief description on each control.

MAX A/C: Uses recirculated air to cool the vehicle. Air flows from the instrument panel vents only. If equipped with auxiliary A/C, auxiliary airflow will be from the rear headliner vents.

NORM A/C: Uses outside air to cool the vehicle. Air flows from the instrument panel vents only. If equipped with auxiliary A/C, auxiliary airflow will be from the rear headliner vents.

VENT: Distributes outside air through the instrument panel vents.

OFF: Outside air is shut out and the climate system is turned off.

FLR: Distributes outside air through the floor vents. If equipped with rear auxiliary heater or A/C, auxiliary airflow will be from the rear floor vents.

MIX: Distributes outside air through the windshield defroster vents and floor vents. If equipped with rear auxiliary heater or A/C, auxiliary airflow will be from the rear floor vents.

 $\langle \# \rangle$: Distributes outside air through the windshield defroster vents. If equipped with rear auxiliary heater or A/C, auxiliary airflow will be from the rear floor vents.

Operating tips

- To reduce fog build up on the windshield during humid weather, place the air flow selector in the AHA position.
- To reduce humidity build up inside the vehicle: do not drive with the air flow selector in the OFF position.
- 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.

33

https://www.MyCarManual.com

Climate Controls

During extreme high ambient temperatures when idling stationary for extended periods of time in gear, it is recommended to run the A/C in the MAX A/C position, turn off the rear A/C unit (if equipped), reduce blower fan speed from the highest setting and put the vehicle's transmission into the PARK gear position to continue to receive cool air from your A/C system.

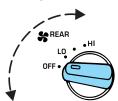
To aid in side window defogging/demisting in cold weather:

1. Select MIX.

- 2. Set the temperature control to maintain comfort.
- 3. Set the fan speed to HI.

REAR FAN SPEED ADJUSTMENT (IF EQUIPPED)

The rear fan controls adjust the volume of air circulated in the rear of the vehicle.

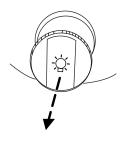


https://www.MyCarManual.com

Lights

HEADLAMP CONTROL $\ddot{\Sigma}$

- The first position turns on the parking, tail, license plate and side marker lamps.
- The outer position turns on the headlamps.



Battery saver

The battery saver can be set to turn off the courtesy lamps within 2 or 10 minutes if a door is left open and the key is not in the ignition. Demand (manually switched on) interior lamps can be set to turn off within 2 or 30 minutes after the key has been removed from the ignition.

Note: The vehicle is factory set at 2 minutes to turn off demand and courtesy lamps. The vehicle will change to 10 minutes for courtesy lamps and 30 minutes for demand interior lamps once the odometer reads over 50 miles.

To change the battery saver duration time, do the following:

1. Turn the key to the RUN position. Do not start the vehicle.

2. After the odometer is displayed, press and release the reset button 10 times within 60 seconds.

3. The words 'Battery Saver' will be displayed.

4. Press the reset button to select/toggle between '2 minutes' or '30 minutes' duration.

5. Once your time choice is displayed, wait until the odometer is displayed (approximately 30 seconds).

The battery saver feature will now work with the new time duration. **Note:** Even when choosing the 30 minute time duration, the courtesy lamps can only have a maximum on time of 10 minutes. Only demand interior lamps will stay on for the entire 30 minute period.

https://www.MyCarManual.com

35

Lights

Daytime running lamps (DRL) (if equipped)

Turns the headlamps on with a reduced output.

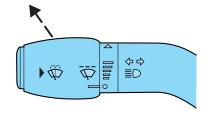
To activate:

- the ignition must be in the on position and
- the headlamp control is in the off or parking lamp position.

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

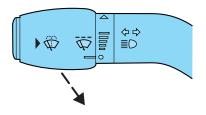
High beams ≣D

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



Flash to pass

Pull toward you slightly to activate and release to deactivate.



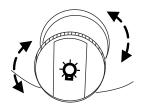
36

https://www.MyCarManual.com

PANEL DIMMER CONTROL

To adjust the brightness of the instrument panel, rotate the dimmer control clockwise/counterclockwise when the headlamp control is in the parking lamp or low-beam position.

To turn on the interior lamps, rotate the dimmer control fully counterclockwise past the detent.



The dome lamp will not illuminate if the control switch is not rotated past the detent.

VERTICAL AND HORIZONTAL AIM ADJUSTMENT (SEALED BEAM HEADLAMPS)

The headlamps on your vehicle are intended to be aimed using mechanical aimers. If mechanical aimers are used and the cross-car sight line is in any way blocked, set the legs of the universal adaptor all to the same setting, such that the cross-car sight line is no longer blocked, per the instructions for the brand of mechanical aimer used. You can also aim the headlamps visually using the procedure below.

To adjust the headlamps:

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

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

2. The center of the headlamp is marked either on the lens (a circle

or cross marker) or on the bulb shield, internal to the lamp (mark or feature). Measure the height from the center of your headlamp to the ground (2) and mark an 8 foot (2.4 meter) long horizontal line on the wall or screen (1) at this height (masking tape works well).

37

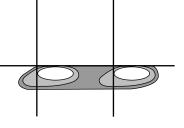
2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) https://www.MyCarManual.com

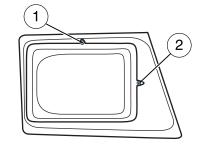
3. Turn on the low beam headlamps and open the hood.

4. Locate the high intensity area of the beam pattern and place the top edge of the intensity zone even with the horizontal reference line (4). If the top edge of the high intensity area is not even with the horizontal line, follow the next step to adjust it.

5. Locate the vertical adjuster (1) for each headlamp. Adjust the aim by turning the adjuster control either clockwise (to adjust up) or counterclockwise (to adjust down).

6. In addition to the horizontal line marked in step 2, a pair of vertical lines (5) must be marked at the center line of the headlamps on the wall or screen.





7. On the wall or screen, locate the high intensity area of the beam pattern. The left edge of the high intensity area should be even with the vertical line corresponding to the headlamp under adjustment. If the left edge of the high intensity area is not even with the vertical line, follow the next step to adjust it.

8. Locate the horizontal adjuster (2) for each headlamp. Turn it clockwise or counterclockwise, to place the left edge of the high intensity area even with the vertical line corresponding to the headlamp under adjustment.

VERTICAL AIM ADJUSTMENT (AERODYNAMIC HEADLAMPS)

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

To adjust the headlamps:

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

38

https://www.MyCarManual.com

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

2. Measure the height from the center of your headlamp (indicated by a 3.0 mm circle on the lens) to the ground and mark an 8 foot (2.4 meter) horizontal reference line

on the vertical wall or screen at this height (a piece of masking tape works well).

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

4. On the wall or screen you will observe a light pattern with a distinct horizontal edge towards the right. If this edge is not at the

horizontal reference line, the beam will need to be adjusted so the edge is at the same height as the horizontal reference line.

5. Locate the vertical adjuster on the back of each headlamp, then use a long Phillips #2 screwdriver to turn the adjuster either counterclockwise (to adjust down) or clockwise (to adjust up) aligning the upper edge of the light pattern up to the horizontal line.

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

7. Close the hood and turn off the lamps.

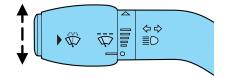
Lights

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

TURN SIGNAL CONTROL (今日)

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



INTERIOR LAMPS

Cargo and dome lamps with rear headliner

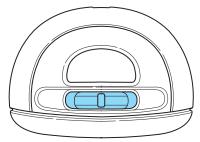
Rear cargo lamps equipped with an ON/OFF/DOOR control will light when:

- doors are closed and the control is in the ON position
- control is in the DOOR position and any door is open
- headlamp control is rotated fully counterclockwise

When the control is in the OFF position, it will not illuminate when you open the doors or fully rotate the headlamp control.

Third row courtesy/reading/cargo lamps

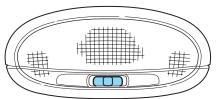
The dome portion of the lamp, the center light, can be turned on when the headlamp control is rotated fully counterclockwise or when any door is opened.



With the ignition key in the accessory or on position, the rear dome lamp can be turned on or off by sliding the control.

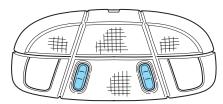
40

https://www.MyCarManual.com



Front and rear courtesy/reading lamps

The dome portion of the lamp, the center light, can be turned on when the headlamp control is rotated fully counterclockwise or when any door is opened.



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

BULB REPLACEMENT

Headlamp condensation

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

Using the right bulbs

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

Function	Number of bulbs	Trade number
Headlamps (aerodynamic)	2	H13/9008
Headlamps (sealed beam)	2	H6054
Park lamp with aerodynamic	2	3157A or 3157AK
Park lamp with sealed beam	2	4157K or 3157K
Side marker with aerodynamic	2	168

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

Function	Number of bulbs	Trade number	
Side marker with sealed beam	2	194	
Back-up lamps	2	3156K or 3156	
License plate lamp	1	168	
Stop/tail/turn/side	2	3457K or 3357K	
marker lamp			
High-mount brakelamp	2	912	
Cargo lamp	1	211-2	
Dome lamp (standard)	1	912	
Map/reading lamp	2	211-2	
All replacement bulbs are clear in color except where noted.			
To replace all instrument panel lights - see your authorized dealer			

Replacing exterior bulbs

Check the operation of all the bulbs frequently.

Replacing headlamp bulbs (aerodynamic)

1. Make sure the headlamp switch is in the off position and open the hood.

2. Remove the three screws from the top and bottom front of the headlamp assembly and pull the assembly straight out.

3. Disconnect the electrical connector by squeezing the release tab and pushing the connector forward and then pulling it rearward.



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

4. Remove the bulb assembly by turning it counterclockwise and pulling it straight out.



WARNING: 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.

Note: If the bulb is accidentally touched, it should be cleaned with alcohol before being used.

To install the new bulb, follow the removal procedures in reverse order.

Replacing headlamps (sealed beam)

1. Make sure the headlamp switch is in the off position and open the hood.

2. Remove the four screws from the top and bottom front of the headlamp assembly and carefully remove the lamp/bezel.

3. Remove the four screws and the retaining ring.

4. Disconnect the electrical connector from the lamp and remove the lamp.

To install the new lamp, follow the removal procedures in reverse order.

Replacing front parking lamp/turn signal bulbs

1. Make sure the headlamp control is in the off position.

2. Remove the head lamp assembly, refer to $Replacing\ head lamp\ bulbs$ in this section.

43

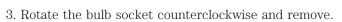
https://www.MyCarManual.com



Aerodynamic



Sealed beam



4. Carefully pull the bulb straight out of the socket.

To complete installation, follow the removal procedures in reverse order.

Replacing side marker bulbs

1. Make sure the headlamp control is in the off position.

2. Remove the head lamp assembly. Refer to $Replacing\ head lamp\ bulbs$ in this section.

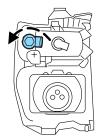
Aerodynamic



44

https://www.MyCarManual.com

Sealed beam



Lights

3. Rotate the bulb socket counterclockwise and remove.

4. Carefully pull the bulb straight out of the socket.

To complete installation, follow the removal procedures in reverse order.

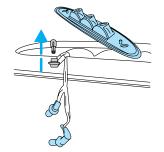
Replacing high-mount brakelamp bulbs

On vehicles without a rear headliner, the interior cargo lamp (if equipped) will have to be removed from under the high-mount brakelamp assembly located inside the vehicle. Then, do the following:

1. Remove the two screws from the high-mount brakelamp assembly and lift the lamp from the vehicle.

2. Remove the bulb socket from the lamp assembly by turning counterclockwise.

3. Carefully pull the bulb straight out of the socket.



To install the new bulb, follow the removal procedure in reverse order.



2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

Replacing license plate lamp bulbs

1. Turn the headlamp switch to the off position.

2. Remove the two screws and the license plate lamp assembly from the rear door.

3. Remove bulb socket from lamp assembly by turning counterclockwise.

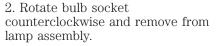
4. Pull the bulb out from socket and push in the new bulb.

To install the new bulb, follow the removal procedures in reverse order.

Replacing stop/turn/tail/side marker/backup lamp bulbs

The stop/turn/tail/side marker/backup lamp bulbs are located in the tail lamp assembly. Follow the same steps to replace any of the bulbs:

1. Turn the headlamp switch to the off position and then remove the four screws and the lamp assembly from vehicle.



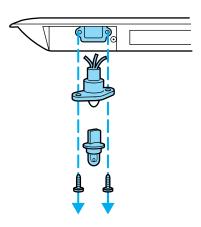
3. Carefully pull the bulb straight out of the socket and push in the new bulb.



To install the lamp, follow the removal procedures in reverse order.

46

https://www.MyCarManual.com

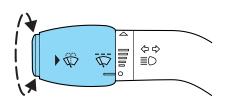


⇔⇔

≣D

MULTI-FUNCTION LEVER

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



Windshield washer: Push the end of the stalk:

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

Courtesy wipe feature: One extra wipe will occur a few seconds after washing the front window to clear any excess washer fluid remaining on the windshield.

Note: Do not operate the washer when the washer reservoir is empty. This may cause the washer pump to overheat. Check the washer fluid level frequently. Do not operate the wipers when the windshield is dry. This may scratch the glass, damage the wiper blades and cause the wiper motor to burn out. Before operating the wiper on a dry windshield, always use the windshield washer. In freezing weather, be sure the wiper blades are not frozen to the windshield before operating the wipers.



2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

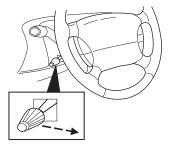
TILT STEERING WHEEL

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.

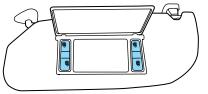
3. Release the steering wheel release control. This will lock the steering wheel in position.



WARNING: 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.

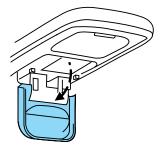
48

https://www.MyCarManual.com

Storage compartment (if equipped)

Press the release on the door to open the storage compartment.

The storage compartment may be used to secure sunglasses or a similar object.



Installing a garage door opener (if equipped)

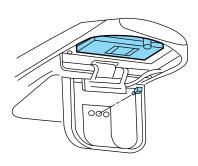
The storage compartment can be converted to accommodate a variety of aftermarket garage door openers:

1. Place VELCRO[®] hook onto side of aftermarket transmitter opposite of actuator control.

2. Place the transmitter into storage compartment, control down.

3. Place the provided height adaptors onto the back of the GARAGE control as needed.

4. Press the GARAGE control to activate the transmitter.



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

Electronic compass/temperature display (if equipped)

Outside air temperature

The outside temperature display is contained in the overhead console.

The temperature display can be turned off and on by pressing the SELECT control on the overhead console. The temperature can be displayed in Centigrade or Fahrenheit by pressing the SELECT control.



If the outside temperature falls

below 38°F (3°C), the display will alternate from "ICE" to the outside temperature at a two second rate for one minute.

Compass

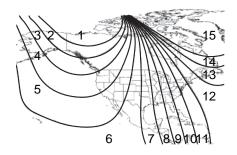
The compass display is contained in the overhead console. The vehicle heading is displayed as one of N, NE, E, SE, S, SW, W and NW.

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 or on the vehicle may also affect compass accuracy. Adjustments may need to be made to the zone and calibration of the compass.

Compass zone adjustment

1. Determine which magnetic zone you are in by referring to the zone map.

2. Turn the ignition to the on position.



50

https://www.MyCarManual.com

3. Press and hold the SELECT control until VAR appears in the display, then release. The display should show the current zone number.

4. Press the SELECT control until the desired zone number appears. The display will flash and then return to normal operation. The zone is now updated.

Compass calibration adjustment

Perform this adjustment in an open area free from steel structures and high voltage lines:

- Press and hold the SELECT control until CAL appears in the display (approximately eight seconds) and release.
- Drive the vehicle slowly (less than 3 mph [5 km/h]) in circles until CAL indicator turns off in about 2–3 complete circles.
- The compass is now calibrated.

AUXILIARY POWER POINT (12VDC)

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

The auxiliary power point (equipped with a cover or a cap plug) is located on the instrument panel.

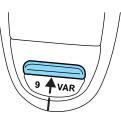
A second power point (if equipped) is located behind the driver's seat on the upper trim panel.



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

https://www.MyCarManual.com

51





To prevent the fuse from being blown, do not use the power point(s) over the vehicle capacity of 12 VDC/180W. If the power point or cigar lighter socket is not working, a fuse may have blown. Refer to *Fuses and relays* in the *Roadside Emergencies* chapter for information on checking and replacing fuses.

To have full capacity usage of your power point, the engine is required to be running to avoid unintentional discharge of the battery. To prevent the battery from being discharged:

- do not use the power point longer than necessary when the engine is not running,
- do not leave battery chargers, video game adapters, computers and other devices plugged in overnight or when the vehicle is parked for extended periods.

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

Cigar/Cigarette lighter (if equipped)

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

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

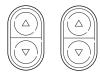
Improper use of the lighter can cause damage not covered by your warranty.

POWER WINDOWS (IF EQUIPPED)

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

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

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



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

Accessory delay

With accessory delay, the window switches and radio may be used for up to 10 minutes after the ignition switch is turned to the off position, or until any door is opened.

INTERIOR MIRROR

The interior rear view mirror has two pivot points on the support arm which lets you adjust the mirror UP or DOWN and from SIDE to SIDE.

WARNING: Do not adjust the mirror while the vehicle is in motion.

EXTERIOR MIRRORS

Power side view mirrors (if equipped)

WARNING: Do not adjust the mirror while the vehicle is in motion.

To adjust your mirrors:

1. Select \blacktriangleleft to adjust the left

mirror or \blacktriangleright to adjust the right mirror.

2. Move the control in the direction you wish to tilt the mirror.

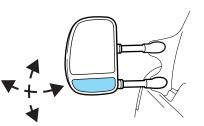
3. Return to the center position to disable the adjust function.

Spotter mirror (if equipped)

Note: New spotter mirrors may be stiff, requiring several cycles before the spotter adjustment effort eases.

The spotter mirror has a swivel that allows it to tilt up and down, and also to tilt left and right to increase side and rear visibility.



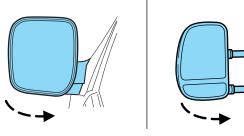


https://www.MyCarManual.com

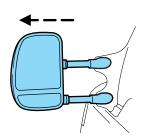
53

Fold-away mirrors

The mirrors can be manually folded forward or backwards for narrow spaces like driving through an automatic car wash or backing out of a garage with the trailer tow mirror.



The telescoping feature (if equipped) allows the mirror to extend approximately 3.15 inches (80 mm). This feature is especially useful to the driver when towing a trailer.



SPEED CONTROL (IF EQUIPPED)

With speed control set, you can maintain a set speed without keeping your foot on the accelerator pedal.



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

54

https://www.MyCarManual.com

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.

Note:

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

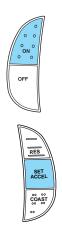
Resuming a set speed

Press the RES (resume) control and release it. This will automatically return the vehicle to the previously set speed.



https://www.MyCarManual.com

55



Increasing speed while using speed control

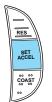
There are two ways to set a higher speed:

- RES • Press and hold the SET ACCEL SET control until you get to the desired speed, then release the çõasi 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 increments by 1 mph (1.6 km/h).
- Use the accelerator pedal to get to the desired speed. When the vehicle reaches that speed press and release the SET ACCEL control.

Reducing speed while using speed control

There are two ways to reduce a set speed:

- Press and hold the COAST SET ACCEL 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 increments by 1 mph (1.6 km/h).
- Depress the brake pedal until the desired vehicle speed is reached, press the SET ACCEL control.



https://www.MyCarManual.com

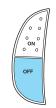
2008 Econoline (eco) **Owners Guide (post-2002-fmt)** USA (fus)



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.

https://www.MyCarManual.com

57

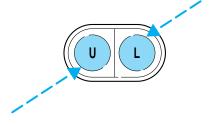
KEYS

The key operates all locks on your vehicle. You should always carry a second key with you in a safe place in case you require it in an emergency.

If your vehicle is equipped with the SecuriLock[™] Passive Anti-theft system, your keys are electronically coded to your vehicle; using a non-coded key will not permit your vehicle to start. If you lose your dealer supplied keys, replacement keys are available through your authorized dealer.

POWER DOOR LOCKS (IF EQUIPPED)

Press U to unlock all doors and L to lock all doors.



Memory lock

If you lock your doors with the power lock switch or the remote transmitter while the sliding door is open, the door will automatically lock after it is closed.

Autolock feature

Note: Your vehicle comes with the autolock feature disabled.

The autolock feature will lock all the doors when:

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

The autolock feature repeats when:

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

58

https://www.MyCarManual.com

Deactivating/activating autolock feature

Your vehicle comes with the autolock feature disabled; there are two methods to enable/disable this feature:

- Through your authorized dealer, or
- by using a power door unlock/lock procedure.

Power door lock switch autolock enable/disable procedure

Before starting, ensure the ignition is in the 3 (OFF) position and all vehicle doors are closed. You must complete Steps 1–5 within 30 seconds or the procedure will have to be repeated. If the procedure needs to be repeated, wait a minimum of 30 seconds before beginning again.

1. Place the key in the ignition and turn the ignition to the 4 (ON) position.

2. Press the power door unlock control on the door panel three times.

3. Turn the ignition from the 4 (ON) position to the 3 (OFF) position.

4. Press the power door unlock control on the door panel three times.

5. Turn the ignition back to the 4 (ON) position. The horn will chirp one time to confirm programming mode has been entered and is active.

6. To enable/disable the autolock feature, press the unlock control, then press the lock control. The horn will chirp once if autolock was deactivated or twice (one short and one long chirp) if autolock was activated.

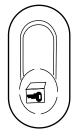
7. Turn the ignition to the 3 (OFF) position. The horn will chirp once to confirm the procedure is complete.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) UL

Back cargo door lock (if equipped)

The passenger side rear cargo door has a power door lock control mounted on the inside of the door. When this lock is pressed, all doors will lock/unlock.



E-Guard Cargo Protection System[™] (if equipped)

The E-Guard Cargo Protection System $^{\rm TM}$ insures that the cargo doors are double locked for extra security.

E-Guard Cargo Protection System[™] features

- The E-Guard Cargo Protection System[™] is available with either power or manual door locks.
- The E-Guard Cargo Protection System[™] provides extra security via a double-locked design.
- The cargo doors can only be unlocked from the outside by using the keys.
- The power unlock feature (if equipped with power door locks) will only unlock the front doors.
- The E-Guard Cargo Protection System[™] is equipped with an emergency unlock handle installed in the door inner panel.

E-Guard Cargo Protection System[™] procedure

For vehicles equipped with power door locks:

- Lock the vehicle with the key, manual door lock, key fob or use the power door lock on the front door trim panel. The front doors are locked and the cargo doors are double-locked.
- Unlock the vehicle with the key fob or use the power door lock on the front door. The front doors are unlocked and the cargo doors remain double-locked.
- The only way to unlock the side or back cargo doors from outside vehicle is with the key.

60

https://www.MyCarManual.com

For vehicles equipped with manual door locks:

- The front door locks can be locked by using either the key or the manual door lock.
- In order to activate the E-Guard Cargo Protection System[™], use the key or the manual door lock to lock the side and back cargo doors.
- The cargo doors cannot be unlocked using the manual door lock.

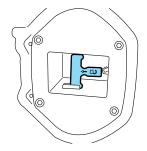
WARNING: If equipped with E-Guard Cargo Protection SystemTM occupants may become trapped in the cargo area unless the exit procedure is followed. The cargo doors cannot be unlocked using manual or power door locks or key fob. In an emergency, to exit the cargo area, locate the emergency handle in the rear door or side door, pull the emergency handle to unlock the door, then unlatch the door using the inside release handle.

Emergency lock release

The emergency handle in the door trim panel unlocks the E-Guard Cargo Protection System $^{\rm TM}.$

The emergency handles are located in the following areas:

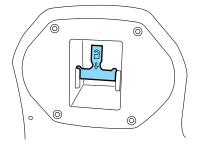
• The side door emergency handle is located on the door inner trim panel in the speaker cup.



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

• The rear door handle is located in the rear door below the glass.



To open the side or back cargo doors from the inside:

1. Unlock the E-Guard Cargo Protection System $^{\rm TM}$ using the emergency handle.

2. Unlatch the door using the inside release handle.

REMOTE ENTRY SYSTEM (IF EQUIPPED)

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

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

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

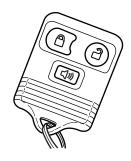
- weather conditions,
- nearby radio towers,
- structures around the vehicle, or
- other vehicles parked next to your vehicle.

62

https://www.MyCarManual.com

The remote entry system allows you to lock or unlock all vehicle doors without a key. **Note:**

- The lock and unlock features work when the ignition is in any position.
- The panic feature is active when the ignition is in either the 1 (ACCESSORY), 2 (LOCK) or 3 (OFF) positions.



If there are problems with the remote entry system, make sure to take **ALL remote entry transmitters** with you to the authorized dealer in order to aid in troubleshooting the problem.

Note: If the vehicle is equipped with the E-Guard Cargo Protection SystemTM the remote transmitter Unlock command will only unlock the front doors; the only way to unlock the side or rear cargo doors from outside the vehicle is with the key.

Two step door unlocking 🖑

1. Press \square and release to unlock the driver's door. **Note:** The interior lamps will illuminate if the control on the overhead lamp is **not** set to the **off** position.

2. Press \square and release again within three seconds to unlock the passenger doors and the rear cargo doors.

The battery saver feature will turn off the interior lamps 30 minutes after the ignition is turned to the off position.

One step door unlocking

If the one step door unlocking feature is activated, press \square and release once to unlock the passenger doors and the rear cargo doors. Note: The interior lamps will illuminate (refer to the *Illuminated entry* feature later in this section), if the control on the overhead lamp is **not** set to the **off** position.

Switching from two step to one step door unlocking

Your vehicle comes with two step unlocking enabled. With the vehicle locked, unlocking can be switched between two step and one step door unlocking by pressing and holding both the and a buttons simultaneously on the remote entry transmitter for approximately four

63

https://www.MyCarManual.com

seconds and release. The park lamps will flash twice to indicate that the vehicle has switched to one step unlocking. Repeat the procedure to switch back to two-step unlocking.

Locking the doors 🕀

1. Press and release to lock all the doors. If all doors are closed the park lamps will flash once.

2. Press and release again within three seconds to confirm that all the doors are closed and locked. **Note:** The doors will lock again, the park lamps will flash and the horn will chirp once. If any door is ajar the park lamps will not flash and the horn will chirp twice.

Car finder

Press \bigcirc twice within three seconds. The horn will chirp and the turn lamps will flash. It is recommended that this method be used to locate your vehicle, rather than using the panic alarm.

Sounding a panic alarm

Press $\leq \gg$ to activate the alarm. Press the control again, or turn the ignition to the 1 (ACCESSORY) or 4 (ON) position to deactivate the alarm.

Note: The panic alarm will only operate when the ignition is in the 2 (LOCK) or 3 (OFF) position.

Replacing the battery

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

To replace the battery:

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



64

https://www.MyCarManual.com

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

3. Remove the old battery.

Note: Please refer to local regulations when disposing of transmitter batteries.

4. Insert the new battery. Refer to the diagram inside the remote entry transmitter for the correct

orientation of the battery. Press the battery down to ensure that the battery is fully seated in the battery housing cavity.

5. Snap the two halves back together.

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

Replacing lost remote entry transmitters

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

How to reprogram your remote entry transmitters

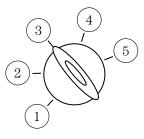
You must have **all remote entry transmitters** (maximum of four) available before beginning this procedure. If all remote entry transmitters are not present during programming procedure, the ones missing during programming will no longer operate the vehicle.

Note: Ensure the brake pedal is not depressed during this sequence.

To reprogram the remote entry transmitters:

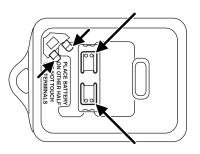
1. Ensure the vehicle is electronically unlocked.

2. Place the key in the ignition and turn from the 2 (lock) position to 3 (off).



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)



3. Cycle eight times rapidly (within 10 seconds) between the 3 (off) position and 4 (on). **Note:** The eighth turn must end in the 4 (on) position.

4. The doors will lock, then unlock, to confirm that the programming mode has been activated.

5. Within 20 seconds press any button on the remote entry transmitter. **Note:** If more than 20 seconds have passed you will need to start the procedure over again.

6. The doors will lock, then unlock, to confirm that this remote entry transmitter has been programmed.

7. Repeat Steps 4 and 5 to program each additional remote entry transmitter (up to four transmitters).

8. Turn the ignition to the 3 (off) position after you have finished programming all of the remote entry transmitters.

9. 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 accessory position, or
- the remote transmitter lock control is pressed, or
- after 25 seconds of illumination.

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

The inside lights will not turn off if:

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

SECURILOCK™ PASSIVE ANTI-THEFT SYSTEM (IF EQUIPPED)

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

Your vehicle comes with two coded keys; additional coded keys may be purchased from your authorized dealer. The authorized dealer can

66

https://www.MyCarManual.com

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.

Note: Do not leave a duplicate coded key in the vehicle. Always take your keys and lock all doors when leaving the vehicle.

Anti-theft indicator

The anti-theft indicator is located in the instrument cluster.

Vehicles equipped with the SecuriLock $^{\rm TM}$ Passive Anti-theft system behave as follows:

- When the ignition is in the 2 (LOCK) position, the indicator will flash once every two seconds for a total of 10 seconds to indicate the SecuriLock[™] system is functioning as a theft deterrent.
- When the ignition is in the 4 (ON) position, the indicator will glow for three seconds to indicate a programmed key has been validated and the SecuriLockTM Passive Anti-theft system has enabled the engine.

Vehicles without the SecuriLock $^{\mbox{\tiny TM}}$ Passive Anti-theft system behave as follows:

- When the ignition is in the 2 (LOCK) position, the indicator will not flash.
- When the igniton is in the 4 (ON) position, the indicator will glow for three seconds to indicate the engine is enabled.

Automatic arming

The vehicle is armed immediately after switching the ignition to the off position.

Automatic disarming

Switching the ignition to the on position with a **coded key** disarms the vehicle.

https://www.MyCarManual.com

67

Replacement keys

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

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

Programming spare keys

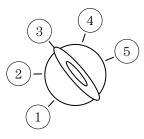
A maximum of eight keys can be coded to your vehicle. Only SecuriLockTM keys can be used. To program a **coded key** yourself, you will need two previously programmed **coded keys** (keys that already operate your vehicle's engine) and the new unprogrammed key(s) readily accessible for timely implementation of each step in the procedure.

If two previously programmed coded keys are not available, you must bring your vehicle to your authorized dealer to have the spare coded key(s) programmed.

Please read and understand the entire procedure before you begin.

1. Insert the first previously programmed **coded key** into the ignition and turn the ignition from the 3 (OFF) position to the 4 (ON) position (maintain ignition in the 4 (ON) position for at least one second, but no more than ten seconds).

2. Turn ignition from the 4 (ON) position back to the 3 (OFF)



position in order to remove the first **coded key** from the ignition.

3. Within ten seconds of removing the first **coded key**, insert the second previously programmed **coded key** into the ignition and turn the ignition from the 3 (OFF) position to the 4 (ON) position (maintain ignition in the 4 (ON) position for at least one second but no more than ten seconds).

4. Turn the ignition from the 4 (ON) position back to the 3 (OFF) position in order to remove the second **coded key** from the ignition.

68

https://www.MyCarManual.com

5. Within 10 seconds of removing the second **coded key**, insert the new unprogrammed key (new key/valet key) into the ignition and turn the ignition from the 3 (OFF) position to the 4 (ON) position (maintain ignition in the 4 (ON) position for at least one second, but no more than ten seconds). This step will program your new key to a coded key.

6. To program additional new unprogrammed key(s), repeat Steps 1 through 5.

If successful, the new coded key(s) will start the vehicle's engine and the theft indicator will illuminate for three seconds and then go out.

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

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

Seating and Safety Restraints

SEATING

WARNING: 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.

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

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

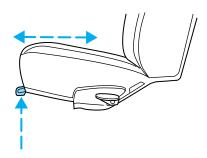
Adjusting the front manual seat (if equipped)



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

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

Lift handle to move seat forward or backward.



70

https://www.MyCarManual.com

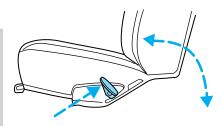
Seating and Safety Restraints

Pull lever up to adjust seatback.

WARNING: Before

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

returning the seatback to its



Using the manual lumbar support (if equipped)

The lumbar support control is located on the inboard side of the driver's seat.

a sudden stop or collision.

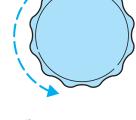
Turn the lumbar support control clockwise to increase firmness.

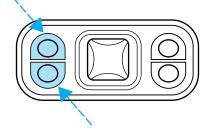
Turn the lumbar support control counterclockwise to increase softness.



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

Press to raise or lower the front portion of the seat cushion.



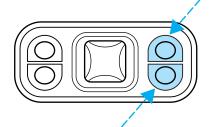


71

https://www.MyCarManual.com

Seating and Safety Restraints

Press to raise or lower the rear portion of the seat cushion.

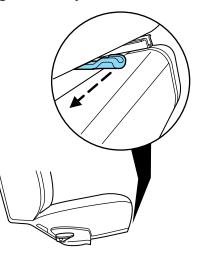


Press the control to move the seat forward, backward, up or down.

REAR SEATS

Rear captains chair adjust — passenger side only

Pull the lever to adjust the seat forward or backward.



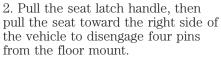
72

https://www.MyCarManual.com

Quick-release captains chair (7 passenger configuration- second row only)

To remove the seat:

1. Disengage the lap/shoulder belt from the seat by inserting a key or small screwdriver into the slot in the detachable anchor and lifting upward.





3. Remove the seat.

To install the seat:

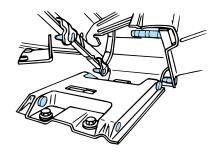
WARNING: Check to see that the seat and seatback is latched securely in position. Keep floor area free of objects that would prevent proper seat engagement. Never attempt to adjust the seat while the vehicle is in motion.

WARNING: Ensure that the seat is latched to the vehicle floor by pushing/pulling on the seat. If not latched, the seat may cause injury during a sudden stop.

https://www.MyCarManual.com

73

1. Position the seat to the floor mount.



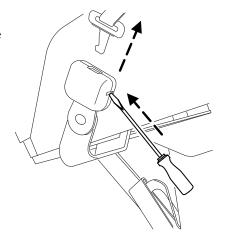
2. Pull the seat latch handle downward to lock the seat in position.

3. Make sure the safety belt is not twisted, then insert the safety belt tongue into detachable anchor until you hear a "click" and feel the latch engage.

Rear bench seat

To remove the seats:

1. Disengage the lap/shoulder belt from the seat by inserting a key or small screwdriver into the slot in the detachable anchor and lifting upward (2nd row passenger side only).

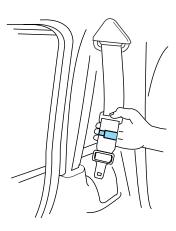


https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

74

2. Find the clips attached near the ends of the lap/shoulder belts.



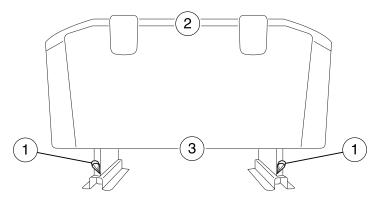
3. Clip the end of the belt to the stationary portion of the shoulder belt coming out of the trim panel.



The end of the shoulder belt **must** be clipped in order to keep it from striking anything during vehicle operation.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 75



4. With assistance, pull the LH/RH seat latch release straps (1) (located behind the latch mechanisms) to release the latch from the rear strikers.

5. Lift the rear end of seat upward and rearward by pushing on the seatback (2) and lifting the seat cushion (3) to disengage the front seat hook and the rear seat latch from the striker.

6. With assistance, remove the seat assembly.

• To remove the 3rd, 4th, and 5th row seats (if equipped), repeat Steps 1 through 6.

To install the seat:

WARNING: Ensure that the seat is installed or removed from the striker pins with adequate ergonomic assistance. Due to the weight of the seat, it must be handled by at least two adults during installation or removal from the vehicle.

WARNING: Ensure that the seat is latched to the vehicle floor by pushing/pulling on the seat or seatback (2). If not latched, the seat may cause injury during a sudden stop.

1. Please make sure the floor striker area is clean of any debris that would prevent the seat from latching.

2. With assistance, position the seat in the vehicle.

3. Align the front hooks to the LH/RH front striker pins prior to lowering the rear latch mechanism and aligning them with the rear striker pins.

4. Engage the front LH/RH hooks to the LH/RH front striker pins.

76

https://www.MyCarManual.com

5. After the front LH/RH hooks are engaged to the LH/RH front striker pins, pull LH/RH seat latch release straps to allow engagement of the latch to the striker pins. Refer to the illustration in *To remove the rear seats* above.

6. Pull/push seat back forward/backward to check for proper seat installation.

WARNING: Always latch the vehicle seat to the floor, whether the seat is occupied or empty. If not latched, the seat may cause injury during a sudden stop.

WARNING: Do not hang or attach any cargo to the release straps of the rear bench seats. Doing so could cause the release straps to inadvertently unlatch the rear bench seat. If not latched, the seat may cause serious injury during a sudden stop.

SAFETY RESTRAINTS Safety restraints precautions

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

WARNING: To reduce the risk of injury, make sure children sit in the back seat where they can be properly restrained.

WARNING: 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.

WARNING: All occupants of the vehicle, including the driver, should always properly wear their safety belts, even when an airbag supplemental restraint system (SRS) is provided.

WARNING: 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.

https://www.MyCarManual.com

77

WARNING: In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a safety belt.

WARNING: 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.

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

WARNING: 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.

WARNING: Front and rear seat occupants, including pregnant women, should wear safety belts for optimum protection in an accident.

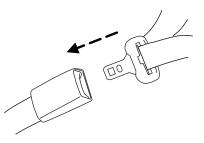
Combination lap and shoulder belts

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.

78

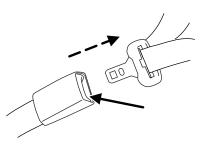
https://www.MyCarManual.com

• Front and rear seats



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

• Front and rear seats



All safety restraints in the vehicle are combination lap and shoulder belts. All of the passenger combination lap and shoulder belts have two types of locking modes described below:

Vehicle sensitive mode

This is the normal retractor mode, which allows free shoulder belt length adjustment to your movements and locking in response to vehicle movement. For example, if the driver brakes suddenly or turns a corner sharply, or the vehicle receives an impact of approximately 5 mph (8 km/h) or more, the combination safety belts will lock to help reduce forward movement of the driver and passengers.

https://www.MyCarManual.com

79

Automatic locking mode

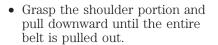
When to use the automatic locking mode

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

This mode should be used **any time** a child safety seat, except a booster, is installed in passenger front or rear seating position (if equipped). Children 12 years old and under should be properly restrained in the rear seat whenever possible. Refer to *Safety restraints for children* or *Safety seats for children* later in this chapter.

How to use the automatic locking mode

• Buckle the combination lap and shoulder belt.



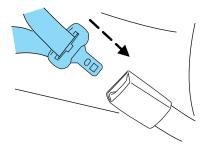
• Allow the belt to retract. As the belt retracts, you will hear a clicking sound. This indicates the safety belt is now in the automatic locking mode.

How to disengage the automatic locking mode

Disconnect 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.

80

https://www.MyCarManual.com



WARNING: After any vehicle collision, the safety belt systems at all outboard seating positions (except the driver position, which does not have this feature) must be checked by an authorized dealer to verify that the automatic locking retractor feature for child seats is still functioning properly. In addition, all safety belts should be checked for proper function.

WARNING: BELT AND RETRACTOR ASSEMBLY MUST BE REPLACED if the safety belt assembly "automatic locking retractor" feature or any other safety belt function is not operating properly when checked by an authorized dealer. Failure to replace the Belt and Retractor assembly could increase the risk of injury in collisions.

Safety belt pretensioner

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

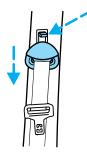
The safety belt pretensioner tightens the safety belts firmly against the occupant's body at the start of the crash.

WARNING: The driver and front passenger safety belt system (including retractors, buckles and height adjusters) must be replaced if the vehicle is involved in a collision that results in deployment of front airbags and safety belt pretensioners.

Front safety belt height adjustment

The front seat and outboard positions are equipped with a height adjuster. Adjust the height of the shoulder belt so the belt rests across the middle of your shoulder.

To adjust the shoulder belt height, push the button and slide the height adjuster down. Release the button and pull down on the height adjuster to make sure it is locked in place. To adjust the belt upward,



https://www.MyCarManual.com

slide the adjuster up. Pull down on the height adjuster to make sure it is locked in place.

81

WARNING: Position the safety belt height adjusters so that the belt rests across the middle of your shoulder. Failure to adjust the safety belt properly could reduce the effectiveness of the seat belt and increase the risk of injury in a collision.

Safety belt warning light and indicator chime Å

The safety belt warning light illuminates in the instrument cluster and a chime sounds to remind the occupants to fasten their safety belts.

Conditions of operation

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

Belt-Minder®

The Belt-Minder[®] feature is a supplemental warning to the safety belt warning function. This feature provides additional reminders to the driver that the driver's safety belt is unbuckled by intermittently sounding a chime and illuminating the safety belt warning lamp in the instrument cluster.

82

https://www.MyCarManual.com

If	Then			
The driver's safety belt is not	The Belt-Minder [®] feature is activated			
buckled approximately	- the safety belt warning light			
5 seconds after the safety belt	the safety belt illuminates and the warning chime			
warning light has turned off	sounds for 6 seconds every			
	30 seconds, repeating for			
	approximately 5 minutes or until			
	safety belt is buckled.			
The driver's safety belt is	The Belt-Minder [®] feature will not			
buckled while the safety belt	activate.			
indicator light is illuminated				
and the safety belt warning				
chime is sounding				
The driver's safety belt is	The Belt-Minder [®] feature will not			
buckled before the ignition	activate.			
switch is turned to the ON				
position				

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

Reasons given	Consider			
"Crashes are rare events"	36700 crashes occur every day. The			
	more we drive, the more we are			
	exposed to "rare" events, even for			
	good drivers. 1 in 4 of us will be			
	seriously injured in a crash during			
	our lifetime.			
"I'm not going far"	3 of 4 fatal crashes occur within 25			
	miles of home.			
"Belts are uncomfortable"	We design our safety belts to enhance			
	comfort. If you are uncomfortable -			
	try different positions for the safety			
	belt upper anchorage and seatback			
	which should be as upright as			
	possible; this can improve comfort.			

https://www.MyCarManual.com

83

Reasons given	Consider		
"I was in a hurry"	Prime time for an accident.		
	Belt-Minder [®] reminds us to take a few		
	seconds to buckle up.		
"Safety belts don't work"	Safety belts, when used properly,		
	reduce risk of death to front seat		
	occupants by 45% in cars, and by		
	60% in light trucks.		
"Traffic is light"	Nearly 1 of 2 deaths occur in		
	single-vehicle crashes, many when		
	no other vehicles are around.		
"Belts wrinkle my clothes"	Possibly, but a serious crash can do		
	much more than wrinkle your clothes,		
	particularly if you are unbelted.		
"The people I'm with don't	Set the example, teen deaths occur 4		
wear belts"	times more often in vehicles with		
	TWO or MORE people. Children and		
	younger brothers/sisters imitate		
	behavior they see.		
"I have an airbag"	Airbags offer greater protection when		
	used with safety belts. Frontal airbags		
	are not designed to inflate in rear and		
	side crashes or rollovers.		
"I'd rather be thrown clear"	People who are ejected are 40		
	times more likely to DIE. Safety		
	belts help prevent ejection, WE CAN'T		
	"PICK OUR CRASH".		

WARNING: Do not sit on top of a buckled safety belt or insert a latchplate into the buckle to avoid the Belt-Minder[®] chime. To do so may adversely affect the performance of the vehicle's air bag system

One-time disable

Any time the safety belt is buckled and then unbuckled during an ignition ON cycle, the Belt-Minder[®] will be disabled for that ignition cycle only.

84

https://www.MyCarManual.com

Deactivating/activating the Belt-Minder® feature

Read Steps 1 - 5 thoroughly before proceeding with the deactivation/activation programming procedure.

The Belt-Minder[®] feature can be deactivated/activated by performing the following procedure:

Before following the procedure, make sure that:

- the parking brake is set
- the gearshift is in P (Park)
- the ignition switch is in the OFF position
- all vehicle doors and the hood are closed
- the driver's safety belt is unbuckled
- the parklamps/headlamps are in the OFF position

WARNING: While the design allows you to deactivate your Belt-Minder[®], this system is designed to improve your chances of being safely belted and surviving an accident. We recommend you leave the Belt-Minder[®] system activated for yourself and others who may use the vehicle. 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 ON position. DO NOT START THE ENGINE.

2. Wait until the safety belt warning light turns off (Approximately one minute).

• Step 3 must be completed within 50 seconds after the safety belt warning light turns off.

3. At a moderate speed, buckle then unbuckle the safety belt nine times, ending with the safety belt in the unbuckled state.

- After Step 3 is complete, the safety belt warning light will be turned on for three seconds.
- Belt-Minder[®] will automatically exit programming mode without changing its enable status if Step 4 does not occur within 10 seconds of the end of Step 3.

4. Within approximately seven seconds of the light turning off, buckle then unbuckle the safety belt.

• This will disable the Belt-Minder[®] feature for that seating position if it is currently enabled. As confirmation, the safety belt warning light will flash four times per second for three seconds.

85

https://www.MyCarManual.com

• This will enable the Belt-Minder[®] feature for that seating position if it is currently disabled. As confirmation, the safety belt warning light will flash four times per second for three seconds, followed by three seconds with the light off, then followed by the safety belt warning light flashing four times per second for three seconds again.

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

Safety belt extension assembly

If the safety belt is too short when fully extended, there is a 9 inch (23 cm) or 12 inch (31 cm) safety belt extension assembly that can be added (part number 611C22). This assembly can be obtained from an authorized dealer.

Use only extensions manufactured by the same supplier as the safety belt. Manufacturer identification is located at the end of the webbing on the label. Also, use the safety belt extension only if the safety belt is too short for you when fully extended.

Use the shortest extender assembly that will provide adequate fit.

WARNING: 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 safety belt buckle assemblies, buckle support assemblies (slide bar-if equipped), shoulder belt height adjusters (if equipped), shoulder belt guide on seatback (if equipped), child safety seat LATCH and tether anchors, and attaching hardware, should be inspected after a collision. Ford Motor Company recommends that all safety belt assemblies in use in vehicles involved in a collision be replaced. However, if the collision was minor and an authorized dealer finds that the belts do not show damage and continue to operate properly, they do not need to be replaced. Safety belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

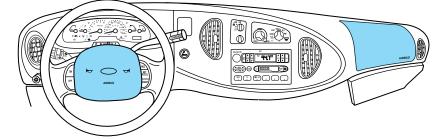
86

https://www.MyCarManual.com

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

For proper care of soiled safety belts, refer to *Interior* in the *Cleaning* chapter.

AIRBAG SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



Important SRS precautions

The SRS is designed to work with the safety belt to help protect the driver and right front passenger from certain upper body injuries. Airbags DO NOT inflate slowly; there is a risk of injury from a deploying airbag.



WARNING: All occupants of the vehicle, including the driver, should always properly wear their safety belts, even when an air bag supplemental restraint system (SRS) is provided.

https://www.MyCarManual.com

87

WARNING: Always transport children 12 years old and under in the back seat and always properly use appropriate child restraints. Never place a rear-facing child seat in front of an active airbag. If you must transport a forward-facing child in the front seat, move the seat all the way back and use appropriate restraints.

WARNING: National Highway Traffic Safety Administration (NHTSA) recommends a minimum distance of at least 10 inches (25 cm) between an occupant's chest and the driver airbag module.

WARNING: 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 airbag:

- Move your seat to the rear as far as you can while still reaching the pedals comfortably.
- Recline the seat slightly one or two degrees from the upright position.

WARNING: 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.

WARNING: Do not attempt to service, repair, or modify the airbag supplemental restraint systems or its fuses. See your authorized dealer.

WARNING: Modifying or adding equipment to the front end of the vehicle (including frame, bumper, front end body structure and tow hooks) may affect the performance of the airbag system, increasing the risk of injury. Do not modify the front end of the vehicle.

WARNING: Additional equipment may affect the performance of the airbag sensors increasing the risk of injury. Please refer to the *Body Builders Layout Book* for instructions about the appropriate installation of additional equipment.

88

https://www.MyCarManual.com

Children and airbags

Children must always be properly restrained. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position. Failure to follow these instructions may increase the risk of injury in a collision.

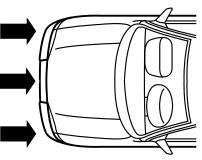
WARNING: Airbags can kill or injure a child in a child seat. NEVER place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.





How does the airbag supplemental restraint system work?

The airbag SRS is designed to activate when the vehicle sustains a longitudinal deceleration sufficient to cause the airbag sensors to close an electrical circuit that initiates airbag inflation. The fact that the airbags did not inflate in a collision does not mean that something is wrong with the system. Rather, it means the forces were not sufficient enough to cause activation. 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.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 89

The airbags inflate and deflate rapidly upon activation. After airbag deployment, it is normal to notice a smoke-like, powdery residue or smell the burnt propellant. This may consist of cornstarch, talcum powder or sodium compounds which may irritate the skin and eyes, but none of the residue is toxic.

While the SRS is designed to help reduce serious injuries, contact with a deploying airbag may also cause abrasions, swelling or temporary hearing loss. Because airbags must inflate rapidly and with considerable force, there is the risk of death or



serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of airbag deployment. It is extremely important that occupants be properly restrained as far away from the airbag module as possible while maintaining vehicle control. The SRS consists of:

- driver and passenger airbag modules (which include the inflators and airbags)
- one or more impact and safing sensors
- a readiness light and tone
- a diagnostic module
- and the electrical wiring which connects the components

The diagnostic module monitors its own internal circuits and the supplemental airbag electrical system wiring (including the impact sensors), the system wiring, the airbag system readiness light, the airbag back up power and the airbag ignitors.

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

WARNING: 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.

90

https://www.MyCarManual.com

Determining if the system is operational

The SRS uses a readiness light in the instrument cluster or a tone to indicate the condition of the system. Refer to *Airbag readiness* section in the *Instrument Cluster* chapter. Routine maintenance of the airbag is not required.

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

• The readiness light will either flash or stay lit.



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

If any of these things happen, even intermittently, have the SRS serviced at an authorized dealer immediately. Unless serviced, the system may not function properly in the event of a collision.

Disposal of airbags and airbag equipped vehicles (including pretensioners)

See your authorized dealer. Airbags MUST BE disposed of by qualified personnel.

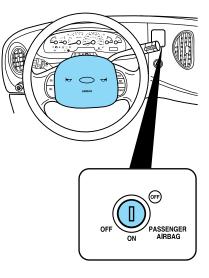
91

https://www.MyCarManual.com

Passenger airbag ON/OFF switch (if equipped)

Note: The passenger airbag ON/OFF switch (if equipped) may be on vehicles with no rear seats and a gross vehicle weight rating (GVWR) greater than 8500 lb (3856 kg). See *Vehicle loading – with and without a trailer* in the *Tires*, *Wheels and loading* chapter.

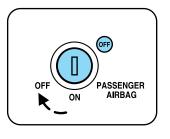
WARNING: An airbag ON/OFF switch (if equipped) may have been installed in this vehicle. Before driving, *always* look at the face of the switch to be sure the switch is in the proper position in accordance with these instructions and warnings. Failure to put the switch in a proper position can increase the risk of serious injury or death in a collision.



Turning the passenger airbag off

1. Insert the ignition key, turn the switch to OFF position and hold in OFF position while removing the key.

2. When the ignition is turned to the ON position the OFF light illuminates briefly, momentarily shuts off and then turns back on. This indicates that the passenger airbag is deactivated.



WARNING: If the light fails to illuminate when the passenger air bag switch is in the OFF position and the ignition switch is in ON, have the passenger air bag switch serviced at your Ford or Lincoln-Mercury dealer immediately.

92

https://www.MyCarManual.com

WARNING: In order to avoid inadvertent activation of the switch, always remove the ignition key from the passenger air bag ON/OFF switch.

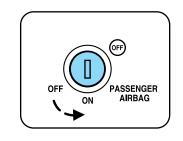
WARNING: An infant in a rear-facing seat faces a high risk of serious or fatal injuries from a deploying passenger airbag. Rear facing infant seats should NEVER be placed in the front seats, unless the passenger airbag is turned off.

Turning the passenger airbag back on

The passenger airbag remains OFF until you turn it back ON.

1. Insert the ignition key and turn the switch to ON.

2. The OFF light will briefly illuminate when the ignition is turned to On. This indicates that the passenger airbag is operational.



WARNING: If the OFF light is illuminated when the passenger airbag switch is in the ON position and the ignition switch is in ON, have the passenger airbag switch serviced at an authorized dealer immediately.

The passenger side airbag should always be ON (the airbag OFF light should *not* be illuminated) unless the passenger is a person who meets the requirements stated either in Category 1, 2 or 3 of the NHTSA/Transport Canada deactivation criteria which follows.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 93

WARNING: The safety belts for the driver and right front passenger seating positions have been specifically designed to function together with the airbags in certain types of crashes. When you turn OFF your airbag, you not only lose the protection of the airbag, you also may reduce the effectiveness of your safety belt system, which was designed to work with the airbag. If you are not a person who meets the requirements stated in the NHTSA/Transport Canada deactivation criteria turning OFF the airbag can increase the risk of serious injury or death in a collision.

WARNING: If your vehicle has rear seats, always transport children who are 12 and younger in the rear seat. Always use safety belts and child restraints properly. DO NOT place a child in a rear facing infant seat in the front seat unless your vehicle is equipped with an airbag ON/OFF switch and the passenger airbag is turned OFF. This is because the back of the infant seat is too close to the inflating airbag and the risk of a fatal injury to the infant when the airbag inflates is substantial.

The vast majority of drivers and passengers are much safer with an airbag than without. To do their job and reduce the risk of life threatening injuries, airbags must open with great force, and this force can pose a potentially deadly risk in some situations, particularly when a front seat occupant is not properly buckled up. The most effective way to reduce the risk of unnecessary airbag injuries without reducing the overall safety of the vehicle is to make sure all occupants are properly restrained in the vehicle, especially in the front seat. This provides the protection of safety belts and permits the airbags to provide the additional protection they were designed to provide. If you choose to deactivate your airbag, you are losing the very significant risk reducing benefits of the airbag and you are also reducing the effectiveness of the safety belts, because safety belts in modern vehicles are designed to work as a safety system with the airbags.

Read all airbag warning labels in the vehicle as well as the other important airbag instructions and warnings in this *Owner's Guide*.

94

https://www.MyCarManual.com

NHTSA deactivation criteria (excluding Canada)

1. **Infant.** An infant (less than 1 year old) must ride in the front seat because:

- the vehicle has no rear seat;
- the vehicle has a rear seat too small to accommodate a rear-facing infant seat; or
- the infant has a medical condition which, according to the infant's physician, makes it necessary for the infant to ride in the front so that the driver can constantly monitor the child's condition.

2. Child age 1 to 12. A child age 1 to 12 must ride in the front seat because:

- the vehicle has no rear seat;
- although children ages 1 to 12 ride in the rear seat(s) whenever possible, children ages 1 to 12 sometimes must ride in the front because no space is available in the rear seat(s) of the vehicle; or
- the child has a medical condition which, according to the child's physician, makes it necessary for the child to ride in the front seat so that the driver can constantly monitor the child's condition.

3. **Medical condition.** A passenger has a medical condition which, according to his or her physician:

- causes the passenger airbag to pose a special risk for the passenger; and
- makes the potential harm from the passenger airbag in a crash greater than the potential harm from turning OFF the airbag and allowing the passenger, even if belted, to hit the dashboard or windshield in a crash.

WARNING: This vehicle has special energy management safety belts for the driver and right front passenger. These particular belts are specifically designed to work with airbags to help reduce the risk of injury in a collision. The energy management safety belt is designed to give or release additional belt webbing in some accidents to reduce concentration of force on an occupant's chest and reduce the risk of certain bone fractures and injuries to underlying organs. In a crash, if the airbag is turned OFF, this energy management safety belt might permit the person wearing the belt to move forward enough to incur a serious or fatal injury. The more severe the crash, and the heavier the occupant, the greater the risk is. Be sure the airbag is turned ON for any person who does not qualify under the NHTSA deactivation criteria.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 95

Transport Canada deactivation criteria (Canada Only)

1. **Infant:** An infant (less than 1 year old) must ride in the front seat because:

- my vehicle has no rear seat;
- the rear seat in my vehicle cannot accommodate a rear-facing infant seat; or
- the infant has a medical condition which, according to the infant's physician, makes it necessary for the infant to ride in the front seat so that the driver can monitor the infant's condition.
- 2. **Child age 12 or under:** A child age 12 or under must ride in the front seat because:
- my vehicle has no rear seat;
- although children age 12 and under ride in the rear seat whenever possible, children age 12 and under have no option but to sometimes ride in the front seat because rear seat space is insufficient; or
- the child has a medical condition that, according to the child's physician, makes it necessary for the child to ride in the front seat so that the driver can monitor the child's condition.
- 3. **Medical condition:** A passenger has a medical condition that, according to his or her physician:
- poses a special risk for the passenger if the airbag deploys; and
- makes the potential harm from the passenger airbag deployment greater than the potential harm from turning OFF the airbag and experiencing a crash without the protection offered by the airbag

WARNING: This vehicle has special energy management safety belts for the driver and right front passenger. These particular belts are specifically designed to work with airbags to help reduce the risk of injury in a collision. The energy management safety belt is designed to give or release additional belt webbing in some accidents to reduce concentration of force on an occupant's chest and reduce the risk of certain bone fractures and injuries to underlying organs. In a crash, if the airbag is turned OFF, this energy management safety belt might permit the person wearing the belt to move forward enough to incur a serious or fatal injury. The more severe the crash, and the heavier the occupant, the greater the risk is. Be sure the airbag is turned ON for any person who does not qualify under the NHTSA deactivation criteria.

96

https://www.MyCarManual.com

SAFETY RESTRAINTS FOR CHILDREN

See the following sections for directions on how to properly use safety restraints for children. Also see *Airbag supplemental restraint system (SRS)* in this chapter for special instructions about using airbags.

Important child restraint precautions

You are required by law to use safety restraints for children in the U.S. and Canada. If small children (generally children who are four years old or younger and who weigh 40 lb [18 kg] or less) ride in your vehicle, you must put them in safety seats made especially for children. Many states require that children use approved booster seats until they are eight years old. Check your local and state or provincial laws for specific requirements regarding the safety of children in your vehicle. When possible, always place children under age 12 in the rear seat of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position.

WARNING: 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.

Ford recommends using child safety seats equipped with LATCH attachments, attached to LATCH anchors and tether anchors. Some child seat manufacturers sell LATCH accessory belts that attach child seats that are not equipped with LATCH attachments onto LATCH anchors. See *Attaching child safety seats with LATCH attachments for child seat anchors* in this section for seating positions with LATCH anchors.

If you install a forward-facing child safety seat using the vehicle safety belts:

- use only seats equipped with lap-shoulder belts;
- Ford recommends placing forward-facing safety seats in the 2nd row and using top tether straps for added protection.

For more information on top tether straps, see *Attaching child safety* seats with tether straps in this section.

Any booster seat that places the vehicle's lap belt or shoulder belt around a shield above and ahead of the child's hips should not be used in this vehicle.

97

https://www.MyCarManual.com

WARNING: Because the last row of seats in the 12 passenger and 15 passenger configuration is not equipped with LATCH anchors and is spaced closer to the row of seats in front, **Do not** use forward-facing or rear-facing child seats (other than belt-positioning boosters) in the last row.

Children and safety belts

If the child is the proper size, restrain the child in a safety seat. Children who are too large for child safety seats (as specified by your child safety seat manufacturer) should always wear safety belts.

Follow all the important safety restraint and airbag precautions that apply to adult passengers in your vehicle.

If the shoulder belt portion of a combination lap and shoulder belt can be positioned so it does not cross or rest in front of the child's face or neck, the child should wear the lap and shoulder belt. Moving the child closer to the center of the vehicle may help provide a good shoulder belt fit.



WARNING: Do not leave children, unreliable adults, or pets unattended in your vehicle.

Child booster seats

Children outgrow a typical convertible or toddler seat when they weigh 40 lb (18 kg) and are around four years of age. Although the lap/shoulder belt will provide some protection, these children are still too small for lap/shoulder belts to fit properly, which could increase the risk of serious injury in a crash.

To improve the fit of both the lap and shoulder belt on children who have outgrown child safety seats, Ford Motor Company recommends use of a belt-positioning booster.

Booster seats position a child so that safety belts fit better. They lift the child up so that the lap belt rests low across the hips and the knees bend comfortably. Booster seats may also make the shoulder belt fit better and more comfortably. Try to keep the belt near the middle of the shoulder.

98

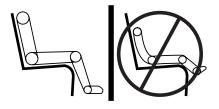
https://www.MyCarManual.com

When children should use booster seats

Children need to use booster seats from the time they outgrow the toddler seat until they are big enough for the vehicle seat and lap/shoulder belt to fit properly. Generally this is when they weigh about 80 lb (36 kg) (about 8 to 12 years old).

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

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



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

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.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 99

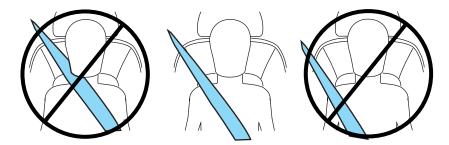
• Those with a high back.

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



Either type can be used at any seating position equipped with lap/shoulder belts if your child is over 40 lb (18 kg).

Children and booster seats vary widely in size and shape. Choose a booster that keeps the lap belt low and snug across the hips, never up across the stomach, and lets you adjust the shoulder belt to cross the chest and rest snugly near the center of the shoulder. The drawings below compare the ideal fit (center) to a shoulder belt uncomfortably close to the neck and a shoulder belt that could slip off the shoulder.



If the booster seat slides on the vehicle seat, placing a rubberized mesh sold as shelf or carpet liner under the booster seat may improve this condition.

The importance of shoulder belts

Using a booster without a shoulder belt increases the risk of a child's head hitting a hard surface in a collision. For this reason, you should never use a booster seat with a lap belt only. It is best to use a booster seat with lap/shoulder belts in the back seat- the safest place for children to ride.

100

https://www.MyCarManual.com

WARNING: Move a child to a different seating location if the shoulder belt does not stay positioned on the shoulder during use.

WARNING: Follow all instructions provided by the manufacturer of the booster seat.

WARNING: 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.

WARNING: Never use pillows, books, or towels to boost a child. They can slide around and increase the likelihood of injury or death in a collision.

SAFETY SEATS FOR CHILDREN

Child and infant or child safety seats

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

When installing a child safety seat:

- Review and follow the information presented in the Airbag Supplemental Restraint System (SRS) section in this chapter.
- Use the correct safety belt buckle for that seating position (the buckle closest to the direction the tongue is coming from).
- Insert the belt tongue into the proper buckle until you hear a snap and feel it latch. Make sure the tongue is securely fastened in the buckle.



https://www.MyCarManual.com

101

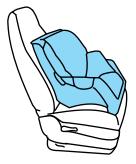
- Keep the buckle release button pointing up and away from the safety seat, with the tongue between the child seat and the release button, to prevent accidental unbuckling.
- For the front passenger seat, place seat back in upright position.
- Put the safety belt in the automatic locking mode. Refer to *Automatic locking mode* (passenger side front and all rear seating positions) (if equipped).
- LATCH lower anchors are recommended for use by children up to 48 pounds (22 kg) in a child restraint. Top tether anchors can be used for children up to 60 pounds (27 kg) in a child restraint, and to provide upper torso restraint for children up to 80 pounds (36 kg) using an upper torso harness and a belt-positioning booster.

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

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

Installing child safety seats with combination lap and shoulder belts

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



102

https://www.MyCarManual.com

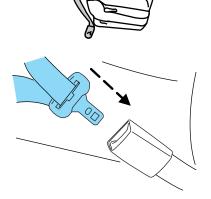
WARNING: An airbag can kill or injure a child in a child seat. Never place a rear-facing child seat in front of an active airbag. If you must use a forward-facing child seat in the front seat, move the seat all the way back.

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

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

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

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



https://www.MyCarManual.com

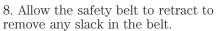
103

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 extracted.



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.



9. Before placing the child in the seat, forcibly tilt 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 and back. There should be no more than one inch (2.5 cm) of movement for proper installation.

10. Try to pull the belt out of the retractor to make sure the retractor is in the automatic locking mode (you should not be able to pull more belt out). If the retractor is not locked, unbuckle the belt and repeat Steps 2 through 9.

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

104

https://www.MyCarManual.com



Attaching child safety seats with tether straps

WARNING: Children should be placed in the rear in an appropriate child safety seat that is properly secured to the vehicle.

WARNING: When using forward-facing child safety seats in vehicles with only two seating positions so the forward-facing child safety seat cannot be placed in the rear of the vehicle, move the passenger seat as far back from the instrument panel as possible.

WARNING: Because the last row of seats in the 12 passenger and 15 passenger configuration is not equipped with LATCH anchors and is spaced closer to the row of seats in front, **Do not** use forward-facing or rear-facing child seats (other than belt-positioning boosters) in the last row.

WARNING: 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.

Front passenger seating position

The tether can be attached directly to the rear of the front seat.

Ţ	
	,

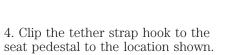
https://www.MyCarManual.com

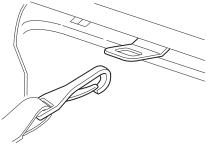
2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 105



 Position the child safety seat on the front right-hand passenger seat.
 Adjust the front right-hand passenger seat full forward.

3. Route the child safety seat tether strap over the back of the front right-hand passenger seat as shown.

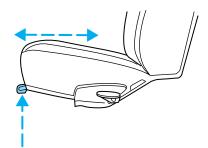




106

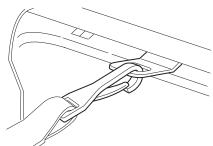
https://www.MyCarManual.com

5. Adjust the front right hand passenger seat to the full rearward position.



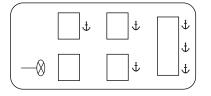
6. Install the child safety seat tightly using the LATCH anchors or safety belts. Follow the instructions in this chapter.

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



Second row bucket seats (Quads)

The tether strap can be attached directly to the tether bracket under the back edge of the seat cushion.



107

https://www.MyCarManual.com

1. Position the child safety seat on the second row left hand or right hand bucket seat.

2. Route the child safety tether strap over the back of the left hand or right hand second row bucket seat.

3. Clip the tether strap hook to the seat pedestal at the location shown.

4. Install the child safety seat tightly using the LATCH anchors or safety belts. Follow the instructions in this chapter.

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

Second, Third, Fourth, and Fifth row bench seats

For the center position of a three-passenger bench seat, the tether strap can be attached directly to the tether bracket provided under the back edge of the seat cushion. For the outboard positions, the tether strap can be attached to

ψ	Ţ Ţ	τ]†	4,
	Ŧ	Ŧ	Ŧ	
-> [] [Ţ Ţ	±		t*

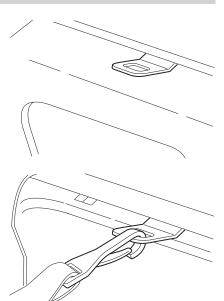
the slot in the side of the seat pedestal.

*: Although tether slots are provided on the seat pedestals of the four-passenger bench seat, use of child seats is not recommended for these seating position locations.

1. For any three–passenger bench seat, place the child safety seat on the left hand outboard position, the center position, or the right hand outboard position as desired.

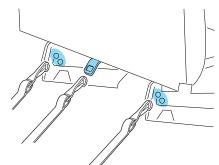
108

https://www.MyCarManual.com



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

3. Clip the center tether strap hook to the tether bracket mounted under rear rail of seat cushion frame. Clip the outboard tether strap hooks to the tether bracket slot provided on the left side of each seat pedestal. The slot is located between the two holes.



4. Install the child safety seat tightly using the LATCH anchors or safety belts. Follow the instructions in this chapter.

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

For additional important safety information on the proper use of safety belts, child seats and infant seats, please read the entire *Seating and Safety Restraints* chapter in this *Owner's Guide*.

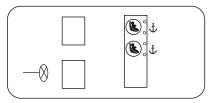
Attaching child safety seats with LATCH (Lower Anchors and Tethers for Children) attachments for child seat anchors

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

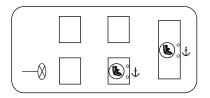
Your vehicle may be equipped with LATCH anchors for child seat installation at the seating positions marked with the child seat symbol:

https://www.MyCarManual.com

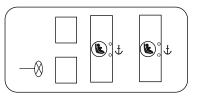
2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 109



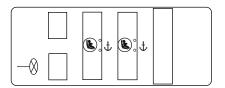
• Five passenger crew van



• Seven passenger wagon



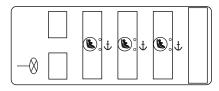
• Eight passenger wagon



• Twelve passenger wagon

110

https://www.MyCarManual.com

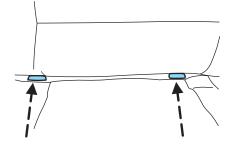


• Fifteen passenger wagon

(represents LATCH anchors.

WARNING: 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 seat between the cushion and seat back.



Follow the child seat manufacturer's instructions to properly install a child seat with LATCH attachments.



WARNING: 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.

https://www.MyCarManual.com

111

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.

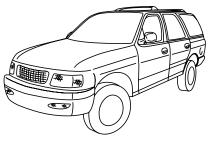


WARNING: If the safety seat is not anchored properly, the risk of a child being injured in a crash greatly increases.

https://www.MyCarManual.com

NOTICE TO UTILITY VEHICLE AND TRUCK OWNERS

Utility vehicles and trucks handle differently than passenger cars in the various driving conditions that are encountered on streets, highways and off-road. Utility vehicles and trucks are not designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions.



WARNING: Utility vehicles have a significantly higher rollover rate than other types of vehicles. To reduce the risk of serious injury or death from a rollover or other crash you must:

- Avoid sharp turns and abrupt maneuvers;
- Drive at safe speeds for the conditions;
- Keep tires properly inflated;
- Never overload or improperly load your vehicle; and
- Make sure every passenger is properly restrained.

WARNING: In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. All occupants must wear seat belts and children/infants must use appropriate restraints to minimize the risk of injury or ejection.

Study your *Owner's Guide* and any supplements for specific information about equipment features, instructions for safe driving and additional precautions to reduce the risk of an accident or serious injury.

https://www.MyCarManual.com

113

VEHICLE CHARACTERISTICS

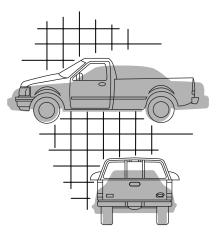
How your vehicle differs from other vehicles

SUV and trucks can differ from some other vehicles in a few noticeable ways. Your vehicle may be:

- Higher to allow higher load carrying capacity and to allow it to travel over rough terrain without getting hung up or damaging underbody components.
- Shorter to give it the capability to approach inclines and drive over the crest of a hill without getting hung up or damaging underbody components. All other things held equal, a shorter wheelbase may make your vehicle quicker to respond to steering inputs than a vehicle with a longer wheelbase.
- Narrower to provide greater maneuverability in tight spaces, particularly in off-road use.

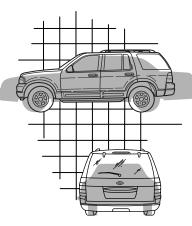
As a result of the above dimensional differences, SUV's and trucks often will have a higher center of gravity and a greater difference in center of gravity between the loaded and unloaded condition.

These differences that make your vehicle so versatile also make it handle differently than an ordinary passenger car.



https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)



114

INFORMATION ABOUT UNIFORM TIRE QUALITY GRADING

Tire Quality Grades apply to new pneumatic passenger car tires. 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 passenger car tires. They do not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, light truck or "LT" type tires, tires with nominal rim diameters of 10 to 12 inches or limited production tires as defined in Title 49 Code of Federal Regulations Part 575.104(c)(2).

U.S. Department of Transportation-Tire quality grades: The U.S. Department of Transportation requires Ford Motor Company to give you the following information about tire grades exactly as the government has written it.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half ($1\frac{1}{2}$) times as well on the government course as a tire graded 100. 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.

https://www.MyCarManual.com

115

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.

WARNING: 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. 139. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

WARNING: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

TIRES

Tires are designed to give many thousands of miles of service, but they must be maintained in order to get the maximum benefit from them.

Glossary of tire terminology

- **Tire label:** A label showing the OE (Original Equipment) tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.
- **Tire Identification Number (TIN):** A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.

116

https://www.MyCarManual.com

- Inflation pressure: A measure of the amount of air in a tire.
- kPa: Kilopascal, a metric unit of air pressure.
- **PSI:** Pounds per square inch, a standard unit of air pressure.
- **Cold inflation pressure:** The tire pressure when the vehicle has been stationary and out of direct sunlight for an hour or more and prior to the vehicle being driven for 1 mile (1.6 km).
- **Recommended inflation pressure:** The cold inflation pressure found on the Safety Compliance Certification Label or Tire Label located on the B-Pillar or the edge of the driver's door.
- **B-pillar:** The structural member at the side of the vehicle behind the front door.
- Bead area of the tire: Area of the tire next to the rim.
- Sidewall of the tire: Area between the bead area and the tread.
- **Tread area of the tire:** Area of the perimeter of the tire that contacts the road when mounted on the vehicle.
- **Rim:** The metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

INFLATING YOUR TIRES

Safe operation of your vehicle requires that your tires are properly inflated. Every day before you drive, check your tires. If one looks lower than the others, use a tire gauge to check pressure of all tires and adjust if required. Remember that a tire can lose up to half of its air pressure without appearing flat.

At least once a month and before long trips, inspect each tire and check the tire pressure with a tire gauge (including spare, if equipped). Inflate all tires to the inflation pressure recommended by Ford Motor Company.

You are strongly urged to buy a reliable tire pressure gauge, as automatic service station gauges may be inaccurate. Ford Motor Company recommends the use of a digital or dial-type tire pressure gauge rather than a stick-type tire pressure gauge.

https://www.MyCarManual.com

117

Use the recommended cold inflation pressure for optimum tire performance and wear. Under-inflation or over-inflation may cause uneven treadwear patterns.

WARNING: Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or "blowout", with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!

Always inflate your tires to the Ford recommended inflation pressure even if it is less than the maximum inflation pressure information found on the tire. The Ford recommended tire inflation pressure is found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. Failure to follow the tire pressure recommendations can cause uneven treadwear patterns and adversely affect the way your vehicle handles.

Maximum Permissible Inflation Pressure is the tire manufacturer's maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the Safety Compliance Certification Label or Tire Label.

When weather temperature changes occur, tire inflation pressures also change. A 10° F (6° C) temperature drop can cause a corresponding drop of 1 psi (7 kPa) in inflation pressure. Check your tire pressures frequently and adjust them to the proper pressure which can be found on the Safety Compliance Certification Label or Tire Label.

118

https://www.MyCarManual.com

To check the pressure in your tire(s):

1. Make sure the tires are cool, meaning they are not hot from driving even a mile.

If you are checking tire pressure when the tire is hot, (i.e. driven more than 1 mile [1.6 km]), never "bleed" or reduce air pressure. The tires are hot from driving and it is normal for pressures to increase above recommended cold pressures. A hot tire at or below recommended cold inflation pressure could be significantly under-inflated.

Note: If you have to drive a distance to get air for your tire(s), check and record the tire pressure first and add the appropriate air pressure when you get to the pump. It is normal for tires to heat up and the air pressure inside to go up as you drive.

2. Remove the cap from the valve on one tire, then firmly press the tire gauge onto the valve and measure the pressure with the tire gauge.

3. Add enough air to reach the recommended air pressure.

Note: If you overfill the tire, release air by pushing on the metal stem in the center of the valve. Then recheck the pressure with your tire gauge.

4. Replace the valve cap.

5. Repeat this procedure for each tire, including the spare.

Note: Some spare tires operate at a higher inflation pressure than the other tires. For T-type/mini-spare tires (see *Dissimilar Spare Tire/Wheel Information* section for description): Store and maintain at 60 psi (4.15 bar). For Full Size and Dissimilar spare tires (see *Dissimilar Spare Tire/Wheel Information* section for description): Store and maintain at the higher of the front and rear inflation pressure as shown on the Safety Compliance Certification Label or the Tire Label.

6. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.

7. Check the sidewalls to make sure there are no gouges, cuts or bulges.

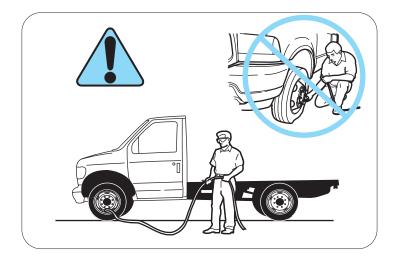
https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 119

Tire inflation information

All tires with Steel Carcass Plies (if equipped):

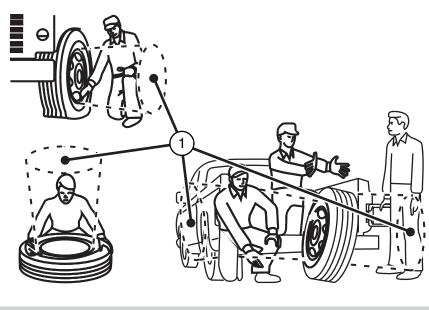
This type of tire utilizes steel cords in the sidewalls. As such, they cannot be treated like normal light truck tires. Tire service, including adjusting tire pressure, must be performed by personnel trained, supervised and equipped according to Federal Occupational Safety and Health Administration (OSHA) regulations. For example, during any procedure involving tire inflation, the technician or individual must utilize a remote inflation device, and ensure that all persons are clear of the trajectory area.



WARNING: An inflated tire and rim can be very dangerous if improperly used, serviced or maintained. To reduce the risk of serious injury, never attempt to re-inflate a tire which has been run flat or seriously under-inflated without first removing the tire from the wheel assembly for inspection. Do not attempt to add air to tires or replace tires or wheels without first taking precautions to protect persons and property.

120

https://www.MyCarManual.com



WARNING: Stay out of the trajectory (1) as indicated in the illustration.

TIRE CARE

Inspecting your tires

Periodically inspect the tire treads for uneven or excessive wear and remove objects such as stones, nails or glass that may be wedged in the tread grooves. Check for holes or cuts that may permit air leakage from the tire and make necessary repairs. Also inspect the tire sidewalls for cracking, cuts, bruises and other signs of damage or excessive wear. If internal damage to the tire is suspected, have the tire demounted and inspected in case it needs to be repaired or replaced. For your safety, tires that are damaged or show signs of excessive wear should not be used because they are more likely to blow out or fail.

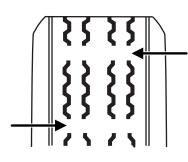
https://www.MyCarManual.com

121

Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Inspect all your tires, including the spare, frequently, and replace them if one or more of the following conditions exist:

Tire wear

When the tread is worn down to 1/16th of an inch (2 mm), tires must be replaced to help prevent your vehicle from skidding and hydroplaning. Built-in treadwear indicators, or "wear bars", which look like narrow strips of smooth rubber across the tread will appear on the tire when the tread is worn down to 1/16th of an inch (2 mm). When the tire tread wears down to



the same height as these "wear bars", the tire is worn out and must be replaced.

Damage

Periodically inspect the tire treads and sidewalls for damage (such as bulges in the tread or sidewalls, cracks in the tread groove and separation in the tread or sidewall). If damage is observed or suspected have the tire inspected by a tire professional. Tires can be damaged during off-road use, so inspection after off-road use is also recommended.

WARNING: Age

Tires degrade over time depending on many factors such as weather, storage conditions, and conditions of use (load, speed, inflation pressure, etc.) the tires experience throughout their lives. In general, tires should be replaced after six years regardless of tread wear. However, heat caused by hot climates or frequent high loading conditions can accelerate the aging process and may require tires to be replaced more frequently.

You should replace your spare tire when you replace the road tires or after six years due to aging even if it has not been used.

122

https://www.MyCarManual.com

U.S. DOT Tire Identification Number (TIN)

Both U.S. and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

Tire Replacement Requirements

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.

WARNING: Only use replacement tires and wheels that are the same size, load index, speed rating and type (such as P-metric versus LT-metric or all-season versus all-terrain) as those originally provided by Ford. The recommended tire and wheel size may be found on either the Safety Compliance Certification Label or the Tire Label which is located on the B-Pillar or edge of the driver's door. If this information is not found on these labels then you should consult your Ford Dealer. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. Additionally the use of non-recommended tires and wheels could cause steering, suspension, axle or transfer case/power transfer unit failure. If you have questions regarding tire replacement, see an authorized dealer.

https://www.MyCarManual.com

123

WARNING: When mounting replacement tires and wheels, you should not exceed the maximum pressure indicated on the sidewall of the tire to set the beads without additional precautions listed below. If the beads do not seat at the maximum pressure indicated, re-lubricate and try again.

When inflating the tire for mounting pressures up to 20 psi greater than the maximum pressure on the tire sidewall, the following precautions must be taken to protect the person mounting the tire:

1. Make sure that you have the correct tire and wheel size.

2. Lubricate the tire bead and wheel bead seat area again.

3. Stand at a minimum of 12 ft. (3.66 m) away from the tire wheel assembly.

4. Use both eye and ear protection.

For a mounting pressure more than 20 psi greater than the maximum pressure, a Ford Dealer or other tire service professional should do the mounting.

Always inflate steel carcass tires with a remote air fill with the person inflating standing at a minimum of 12 ft. (3.66 m) away from the tire wheel assembly.

Important: Remember to replace the wheel valve stems when the road tires are replaced on your vehicle.

It is recommended that the two front tires or two rear tires generally be replaced as a pair.

The tire pressure sensors mounted in the wheels (if equipped) are not designed to be used in aftermarket wheels.

The use of wheels or tires not recommended by Ford Motor Company may affect the operation of your Tire Pressure Monitoring System (if equipped).

If the TPMS indicator is flashing, your TPMS is malfunctioning. Your replacement tire might be incompatible with your TPMS, or some component of the TPMS may be damaged (if equipped).

Safety practices

Driving habits have a great deal to do with your tire mileage and safety.

- Observe posted speed limits
- Avoid fast starts, stops and turns
- Avoid potholes and objects on the road

124

https://www.MyCarManual.com

• Do not run over curbs or hit the tire against a curb when parking

WARNING: If your vehicle is stuck in snow, mud, sand, etc., **do not** rapidly spin the tires; spinning the tires can tear the tire and cause an explosion. A tire can explode in as little as three to five seconds.

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

Highway hazards

No matter how carefully you drive there's always the possibility that you may eventually have a flat tire on the highway. Drive slowly to the closest safe area out of traffic. This may further damage the flat tire, but your safety is more important.

If you feel a sudden vibration or ride disturbance while driving, or you suspect your tire or vehicle has been damaged, immediately reduce your speed. Drive with caution until you can safely pull off the road. Stop and inspect the tires for damage. If a tire is under-inflated or damaged, deflate it, remove wheel and replace it with your spare tire and wheel. If you cannot detect a cause, have the vehicle towed to the nearest repair facility or tire dealer to have the vehicle inspected.

Tire and wheel alignment

A bad jolt from hitting a curb or pothole can cause the front end of your vehicle to become misaligned or cause damage to your tires. If your vehicle seems to pull to one side when you're driving, the wheels may be out of alignment. Have an authorized dealer check the wheel alignment periodically.

Wheel misalignment in the front or the rear can cause uneven and rapid treadwear of your tires and should be corrected by an authorized dealer. Front wheel drive (FWD) vehicles and those with an independent rear suspension (if equipped) may require alignment of all four wheels.

The tires should also be balanced periodically. An unbalanced tire and wheel assembly may result in irregular tire wear.

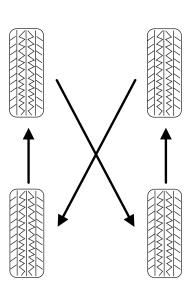
Tire rotation

Rotating your tires at the recommended interval (as indicated in the *scheduled maintenance information* that comes with your vehicle) will help your tires wear more evenly, providing better tire performance and longer tire life.

125

https://www.MyCarManual.com

• Rear Wheel Drive (RWD) vehicles/Four Wheel Drive (4WD)/All Wheel Drive (AWD) vehicles (front tires at top of diagram)



Sometimes irregular tire wear can be corrected by rotating the tires.

Note: If your tires show uneven wear ask an authorized dealer to check for and correct any wheel misalignment, tire imbalance or mechanical problem involved before tire rotation.

Note: Your vehicle may be equipped with a dissimilar spare tire/wheel. A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels. If you have a dissimilar spare tire/wheel it is intended for temporary use only and should not be used in a tire rotation.

Note: After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.

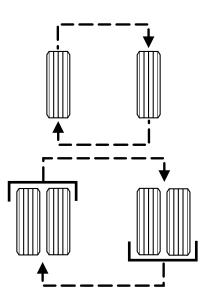
WARNING: If the tire label shows different tire pressures for the front and rear tires and the vehicle is equipped with TPMS (tire pressure monitoring system), then the settings for the TPMS sensors need to be updated. Always perform the TPMS reset procedure after tire rotation. If the system is not reset, it may not provide a low tire pressure warning when necessary. See the TPMS reset procedure in this chapter.

126

https://www.MyCarManual.com

• DRW – Six tire rotation

If your vehicle is equipped with dual rear wheels it is recommended that the front and rear tires (in pairs) be rotated only side to side. We do not recommend splitting up the dual rear wheels. Rotate them side to side as a set/pair. After tire rotation, inflation pressures must be adjusted for the tires new positions in accordance with vehicle requirements.



Sometimes irregular tire wear can be corrected by rotating the tires.

Note: If your tires show uneven wear ask your authorized dealer to check for and correct any wheel misalignment, tire imbalance or mechanical problem involved before tire rotation.

Note: Your vehicle may be equipped with a dissimilar spare tire/wheel. A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels. If you have a dissimilar spare tire/wheel it is intended for temporary use only and should not be used in a tire rotation.

Note: After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.

INFORMATION CONTAINED ON THE TIRE SIDEWALL

Both U.S. and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

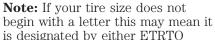
127

https://www.MyCarManual.com

Information on "P" type tires

P215/65R15 95H is an example of a tire size, load index and speed rating. The definitions of these items are listed below. (Note that the tire size, load index and speed rating for your vehicle may be different from this example.)

1. **P:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that may be used for service on cars, SUVs, minivans and light trucks.



(European Tire and Rim Technical Organization) or JATMA (Japan Tire Manufacturing Association).

2. **215:** Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

3. **65:** Indicates the aspect ratio which gives the tire's ratio of height to width.

4. R: Indicates a "radial" type tire.

5. **15:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

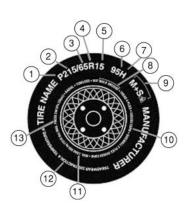
6. **95:** Indicates the tire's load index. It is an index that relates to how much weight a tire can carry. You may find this information in your *Owner's Guide*. If not, contact a local tire dealer.

Note: You may not find this information on all tires because it is not required by federal law.

7. **H**: Indicates the tire's speed rating. The speed rating denotes the speed at which a tire is designed to be driven for extended periods of time under a standard condition of load and inflation pressure. The tires on your vehicle may operate at different conditions for load and inflation pressure. These speed ratings may need to be adjusted for the difference in conditions. The ratings range from 81 mph (130 km/h) to 186 mph (299 km/h). These ratings are listed in the following chart.

128

https://www.MyCarManual.com



Note: You may not find this information on all tires because it is not required by federal law.

Letter rating	Speed rating - mph (km/h)	
М	81 mph (130 km/h)	
N	87 mph (140 km/h)	
Q	99 mph (159 km/h)	
R	106 mph (171 km/h)	
S	112 mph (180 km/h)	
Т	118 mph (190 km/h)	
U	124 mph (200 km/h)	
Н	130 mph (210 km/h)	
V	149 mph (240 km/h)	
W	168 mph (270 km/h)	
Y	186 mph (299 km/h)	
Note: For tires with a maximum speed capability over 149 mph		

Note: For tires with a maximum speed capability over 149 mph (240 km/h), tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 186 mph (299 km/h), tire manufacturers always use the letters ZR.

8. U.S. DOT Tire Identification Number (TIN): This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000 the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

9. **M+S or M/S:** Mud and Snow, or **AT:** All Terrain, or **AS:** All Season.

10. **Tire Ply Composition and Material Used:** Indicates the number of plies or the number of layers of rubber-coated fabric in the tire tread and sidewall. Tire manufacturers also must indicate the ply materials in the tire and the sidewall, which include steel, nylon, polyester, and others.

11. **Maximum Load:** Indicates the maximum load in kilograms and pounds that can be carried by the tire. Refer to the Safety Compliance Certification Label, which is located on the B-Pillar or the edge of the driver's door, for the correct tire pressure for your vehicle.

129

https://www.MyCarManual.com

12. Treadwear, Traction and Temperature Grades

- **Treadwear:** The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1½) times as well on the government course as a tire graded 100.
- **Traction:** The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.
- **Temperature:** The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

13. **Maximum Permissible Inflation Pressure:** Indicates the tire manufacturers' maximum permissible pressure and/or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load, radial tubeless, etc.

130

https://www.MyCarManual.com

Additional information contained on the tire sidewall for "LT" type tires

"LT" type tires have some additional information beyond those of "P" type tires; these differences are described below.

Note: Tire Quality Grades do not apply to this type of tire.

1. **LT:** Indicates a tire, designated by the Tire and Rim Association (T&RA), that is intended for service on light trucks.

2. Load Range/Load Inflation Limits: Indicates the tire's load-carrying capabilities and its inflation limits.



3. Maximum Load Dual lb. (kg) at psi (kPa) cold: Indicates the maximum load and tire pressure when the tire is used as a dual; defined as four tires on the rear axle (a total of six or more tires on the vehicle).

4. **Maximum Load Single lb. (kg) at psi (kPa) cold:** Indicates the maximum load and tire pressure when the tire is used as a single; defined as two tires (total) on the rear axle.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 131

Information on "T" type tires

"T" type tires have some additional information beyond those of "P" type tires; these differences are described below:

T145/80D16 is an example of a tire size.

Note: The temporary tire size for your vehicle may be different from this example. Tire Quality Grades do not apply to this type of tire.

1. **T:** Indicates a type of tire, designated by the Tire and Rim Association (T&RA), that is intended for temporary service on cars, SUVs, minivans and light trucks.

2. **145:** Indicates the nominal width

of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

3. **80:** Indicates the aspect ratio which gives the tire's ratio of height to width. Numbers of 70 or lower indicate a short sidewall.

4. D: Indicates a "diagonal" type tire.

R: Indicates a "radial" type tire.

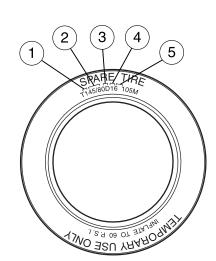
5. **16:** Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

Location of the tire label

You will find a Tire Label containing tire inflation pressure by tire size and other important information located on the B-Pillar or the edge of the driver's door. Refer to the payload description and graphic in the *Vehicle loading* — with and without a trailer section.

132

https://www.MyCarManual.com



TIRE PRESSURE MONITORING SYSTEM (TPMS) (IF EQUIPPED)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the



vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 133

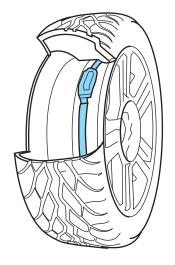
The Tire Pressure Monitoring System complies with part 15 of the FCC rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that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

WARNING: The Tire Pressure Monitoring System is NOT a substitute for manually checking tire pressure. The tire pressure should be checked periodically (at least monthly) using a tire gauge, see *Inflating your tires* in this chapter. Failure to properly maintain your tire pressure could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.

Changing tires with TPMS

Each road tire is equipped with a tire pressure sensor fastened to the inside rim of the wheel. The pressure sensor is covered by the tire and is not visible unless the tire is removed. The pressure sensor is located opposite (180 degrees) from the valve stem. Care must be taken when changing the tire to avoid damaging the sensor. It is recommended that you always have your tires serviced by an authorized dealer.

The tire pressure should be checked periodically (at least monthly) using an accurate tire gauge, refer to *Inflating your tires* in this chapter.



Understanding your Tire Pressure Monitoring System (TPMS)

The Tire Pressure Monitoring System measures pressure in your four road tires and sends the tire pressure readings to your vehicle. The Low Tire Warning Lamp will turn ON if the tire pressure is significantly low. Once the light is illuminated, your tires are under inflated and need to be inflated to the manufacturer's recommended tire pressure. Even if the light turns ON and a short time later turns OFF, your tire pressure still needs to be checked. Visit www.checkmytires.org for additional information.

134

https://www.MyCarManual.com

When your temporary spare tire is installed

When one of your road tires needs to be replaced with the temporary spare, the TPMS system will continue to identify an issue to remind you that the damaged road wheel/tire needs to be repaired and put back on your vehicle.

To restore the full functionality of the Tire Pressure Monitoring System, have the damaged road wheel/tire repaired and remounted on your vehicle. For additional information, refer to *Changing tires with TPMS* in this section.

When you believe your system is not operating properly

The main function of the Tire Pressure Monitoring System is to warn you when your tires need air. It can also warn you in the event the system is no longer capable of functioning as intended. Please refer to the following chart for information concerning your Tire Pressure Monitoring System:

https://www.MyCarManual.com

135

Low Tire Pressure Warning Light	Possible cause	Customer Action Required
Solid Warning Light	Tire(s) under-inflated	 Check your tire pressure to ensure tires are properly inflated; refer to <i>Inflating</i> <i>your tires</i> in this chapter. After inflating your tires to the manufacturer's recommended inflation pressure as shown on the Tire Label (located on the edge of driver's door or the B-Pillar), the vehicle must be driven for at least two minutes over 20 mph (32 km/h) before the light will turn OFF.
	Spare tire in use	Your temporary spare tire is in use. Repair the damaged road wheel/tire and reinstall it on the vehicle to restore system functionality. For a description on how the system functions, refer to <i>When your temporary</i> <i>spare tire is installed</i> in this section.
	TPMS malfunction	If your tires are properly inflated and your spare tire is not in use and the light remains ON, have the system inspected by your authorized dealer.
	Tire rotation without sensor training	On vehicles with different front and rear tire pressures, the TPMS system must be retrained following every tire rotation. Refer to <i>Tire rotation</i> in this chapter.

136

https://www.MyCarManual.com

Low Tire Pressure Warning Light	Possible cause	Customer Action Required
Flashing Warning Light	Spare tire in use	Your temporary spare tire is in use. Repair the damaged road wheel and re-mount it on the vehicle to restore system functionality. For a description of how the system functions under these conditions, refer to <i>When your temporary spare</i> <i>tire is installed</i> in this section.
	TPMS malfunction	If your tires are properly inflated and your spare tire is not in use and the TPMS warning light still flashes, have the system inspected by your authorized dealer.

When inflating your tires

When putting air into your tires (such as at a gas station or in your garage), the Tire Pressure Monitoring System may not respond immediately to the air added to your tires.

It may take up to two minutes of driving over 20 mph (32 km/h) for the light to turn OFF after you have filled your tires to the recommended inflation pressure.

How temperature affects your tire pressure

The Tire Pressure Monitoring System (TPMS) monitors tire pressure in each pneumatic tire. While driving in a normal manner, a typical passenger tire inflation pressure may increase approximately 2 to 4 psi (14 to 28 kPa) from a cold start situation. If the vehicle is stationary over night with the outside temperature significantly lower than the daytime temperature, the tire pressure may decrease approximately 3 psi (20.7 kPa) for a drop of 30° F (16.6° C) in ambient temperature. This lower pressure value may be detected by the TPMS as being significantly lower than the recommended inflation pressure and activate the TPMS warning for low tire pressure. If the low tire pressure warning light is ON, visually check each tire to verify that no tire is flat. If one or more tires are flat, repair as necessary. Check air pressure in the road tires. If any tire is under-inflated, carefully drive the vehicle to the nearest location where air can be added to the tires. Inflate all the tires to the recommended inflation pressure.

137

https://www.MyCarManual.com

TPMS reset procedure (if applicable)

This procedure is only required after tire rotation on vehicles with different front and rear tire pressures.

WARNING: To determine if your vehicle requires two different pressures - one for the front tires and one for the rear tires - refer to the Safety Compliance Certification Label or Tire Label which is located on the B-Pillar or the edge of the driver's door. See *Vehicle Loading* in this chapter for more information.

Overview

To provide the vehicle's load carrying capability, some trucks require different recommended tire pressures in the front tires as compared to the rear tires. The Tire Pressure Monitoring System (TPMS) equipped on these vehicles is designed to illuminate the Low Tire Pressure Warning indicator at two different pressures; one for the front tires and one for the rear tires. Since tires need to be rotated to provide consistent performance and maximum tire life, the Tire Pressure Monitoring System needs to know when the tires are rotated to determine which set of tires are on the front and which are on the rear. With this information, the system can detect and properly warn of low tire pressures.

WARNING: Always perform the TPMS reset procedure after tire rotation. If the system is not reset, it may not provide a low tire pressure warning when necessary.

138

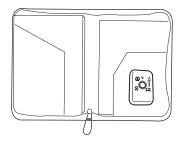
https://www.MyCarManual.com

TPMS reset tool

A special TPMS reset tool to reset your TPMS after tire rotation is provided with vehicles that have different front and rear tire pressures. The tool is located with your Owner's Guide materials.

Please take the tool with the provided Velcro[®] strip on the back and mount it in the bottom right corner of your Owner's Guide case (as shown) for safe keeping.

If you find that the reset tool was not provided when delivered, has been lost or no longer functions (the battery is not replaceable), please contact your authorized dealer to obtain a replacement.



To verify that your TPMS reset tool is working, press and release the button on the center of the TPMS tool. The red light should illuminate and remain on for approximately five (5) seconds. If the light does not illuminate, the tool needs to be replaced.

TPMS reset tips

To reduce the chances of interference from another vehicle, TPMS reset should be performed at least three feet (one meter) away from another Ford Motor Company vehicle undergoing the TPMS reset procedure at the same time.

Do not wait more than two (2) minutes between resetting each tire sensor or the system will timeout and the entire procedure will have to be repeated on all four wheels.

A double horn chirp indicates the need to repeat the procedure.

TPMS reset procedure

Note: It is recommended that you read the entire procedure before attempting.

Note: To enter the reset mode, Steps 1–5 MUST be completed within 60 seconds.

1. The key must be in the ignition and the ignition turned to OFF/LOCK. Press and release the brake pedal.

2. Cycle the ignition from OFF/LOCK to RUN three (3) times ending in the RUN position. **DO NOT** start the engine.

139

https://www.MyCarManual.com

3. Press and hold the brake pedal for two (2) seconds, then release.

4. Turn the ignition to OFF/LOCK (**DO NOT** remove the key.)

5. Cycle the ignition from OFF/LOCK to RUN three (3) times ending in RUN. **DO NOT** start the engine.

If reset mode has been entered successfully, the horn will sound once, the TPMS indicator will flash and the message center will display **TRAIN LF TIRE.**

If after repeated attempts to enter reset mode, the horn does not sound, the TPMS indicator does not flash and the message center does not display TRAIN LF TIRE, seek service from your authorized dealer.

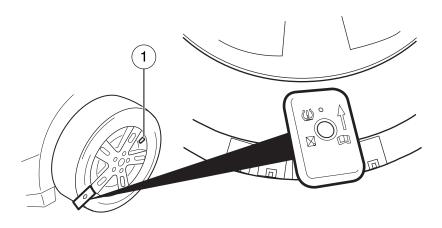
TPMS reset sequence

The TPMS system needs to be reset starting with the left front tire in the following clockwise order:

- 1. Left front tire
- 2. Right front tire
- 3. Right rear tire
- 4. Left rear tire

140

https://www.MyCarManual.com



1. **Left front tire:** Place the TPMS reset tool against the left front tire where the tire meets the rim, opposite from the valve stem (1) as shown. This is where the sensor is located inside the rim.

The tool needs to be held against the tire sidewall opposite the valve stem as illustrated with the arrow on the tool pointing towards the rim; do not use the tool with the arrow pointing away from the rim as it may not activate the sensor.

2. Press and release the green button and hold the tool to the tire sidewall until the horn sounds. The red light on the TPMS reset tool will illuminate while the tool is active. The horn will sound once within 10 seconds to indicate the process was successful.

Note: If a double horn chirp is heard, repeat the procedure. If a single horn chirp is not heard, move the vehicle to rotate the wheels at least a ¹/₄-turn and repeat the procedure. If the horn does not sound while attempting to reset any wheel, seek service from your authorized dealer.

3. Perform Steps 1 and 2 on the right front, right rear and finally the left rear tires.

Successful completion of the reset procedure can be verified by turning the ignition to OFF without the horn sounding. If two short beeps are heard, the reset procedure was unsuccessful and must be repeated.

If after repeating the procedure two short beeps are heard when the key is turned to OFF, seek assistance from your authorized dealer.

141

https://www.MyCarManual.com

Rotation, pressure adjustment and TPMS reset example

The following example describes all the major steps involved in rotating tires on a vehicle with different front and rear tire pressures. It illustrates that the TPMS reset procedure needs to follow tire rotation and pressure adjustment to avoid a possible false low tire warning.

Example:

A particular vehicle has the following recommended tire pressures: 50 psi (345 kPa) front; 80 psi (552 kPa) rear.

Note: For your vehicle's pressure, refer to the Safety Compliance Certification Label located on the B-Pillar or the edge of your vehicle's driver's door.

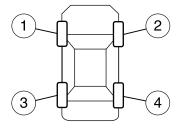
Before tire rotation

Sensor 1: 50 psi

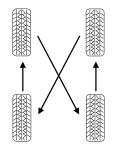
Sensor 2: 50 psi

Sensor 3: 80 psi

Sensor 4: 80 psi



Tire rotation using the recommended sequence (front tires at top of diagram)

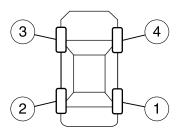


142

https://www.MyCarManual.com

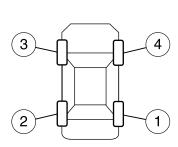
Sensor position following tire rotation

Sensor 1: 50 psi Sensor 2: 50 psi Sensor 3: 80 psi Sensor 4: 80 psi



Pressure adjustment without the required TPMS reset procedure

Sensor 1: 80 psi Sensor 2: 80 psi Sensor 3: 50 psi Sensor 4: 50 psi



In this situation, the TPMS warning light will come on.

If the TPMS reset procedure is not performed after tire rotation and air pressure adjustment, the TPMS telltale may illuminate for a false low tire pressure condition.

As in this example, the rear tires rotated to the front and properly inflated to 50 psi (345 kPa) for the front axle would falsely illuminate the low tire warning indicator as they are still trained for the rear positions which require 80 psi (552 kPa).

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 143

Rotation, pressure adjustment and successful completion of the TPMS reset procedure

Sensor 1: 80 psi

Sensor 2: 80 psi

Sensor 3: 50 psi

Sensor 4: 50 psi

Tire rotation and air pressure

adjustment followed by sensor resetting will ensure the system is properly programmed for vehicles with different front and rear tire pressures and reduce the risk of a false low tire warning.

In this situation, the TPMS warning light will be off.

SNOW TIRES AND CHAINS

WARNING: Snow tires must be the same size, load index, speed rating as those originally provided by Ford. Use of any tire or wheel not recommended by Ford can affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. Additionally, the use of non-recommended tires and wheels could cause steering, suspension, axle or transfer case/power transfer unit failure.

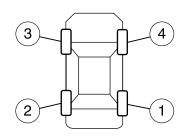
The tires on your vehicle have all weather treads to provide traction in rain and snow. However, in some climates, you may need to use snow tires and chains. If you need to use chains, it is recommended that steel wheels (of the same size and specifications) be used, as chains may chip aluminum wheels.

Follow these guidelines when using snow tires and chains:

- Use only SAE Class S chains.
- 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.

144

https://www.MyCarManual.com



- 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.

VEHICLE LOADING – WITH AND WITHOUT A TRAILER

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

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

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



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

145

https://www.MyCarManual.com

vehicle, the weight of the equipment must be subtracted from the payload listed on the Tire Label in order to determine the new payload.

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

Example only:

ĺ				INFORMAT				
	SEATING CAPACITY TOTAL 5 FRONT 2 REA							
The combined weight of occupants : XXX kg or XXX lbs.								
XXX	TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNERS				
(XXX)	FRONT	LT225/75R 16.5E	200 KPA, 29 PSI	MANUAL FOR				
XXXX-XXXX-XX (XXX)	REAR	LT225/75R 16.5E	200 KPA, 29 PSI	ADDITIONAL				
(XX)	SPARE	T145/80D16 P225/60R17	420 KPA, 60 PSI 200 KPA, 29 PSI	INFORMATION	∫×∎			

	TIR			FORMATION X PNEUS ET À	
	SEATING CAPACIT		TOTAL XX	FRONT XX	REAR
TIRE PNEUS	SIZE CO		ages) ne doit jamais dépasser XXX		ANUAL
FRONT/	DIMENSIONS LT225/75R 16.5E		00 KPA, 29 PSI	FOR ADDITION	2012-1-4C
AVANT REAR/ ARRIÈRE	LT225/75R 16.5E	2	00 KPA, 29 PSI	CONSULTER LE DU PROPRIÉT	AIRE
SPARE/ PNEU DE SECOURS	T145/80D16 P225/60B17		20 KPA, 60 PSI 00 KPA, 29 PSI	DU PHOPHIETAIRE POUR DE PLUS AMPLES RENSEIGNEMENTS	

146

https://www.MyCarManual.com



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

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

GAWR (Gross Axle Weight Rating) – is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the Safety Compliance Certification Label located on the B-Pillar or the edge of the driver's door. The total load on each axle must never exceed its GAWR.

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



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

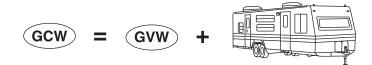
https://www.MyCarManual.com

147

GVWR (Gross Vehicle Weight Rating) – is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the Safety Compliance Certification Label located on the B-Pillar or the edge of the driver's door. The GVW must never exceed the GVWR.

MFD. BY FORD MOTOR CO.							
DATE: XX/XX GV FRONT GAWR: XXXXL XXXXKG WITH XXXX/XXXXXX TIRES XXXX,XX RIMS AT XXX kPa/XX PSI COLD	WR:XXXXLB/XXXXKG REAR.GAW/R: XXXLB XXXXKG WITH XXXXXKG WITH XXXX/XXXXXX TIRES XXXX,XXX RIMS AT XXX kPa/XX PSI COLD						
THIS VEHICLE CONFORMS TO ALL VEHICLE SAFETY AND THEFT PREV EFFECT ON THE DATE OF MANUFA VIN: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	VENTION STANDARDS IN CTURE SHOWN ABOVE.						
EXT PNT: XX	RC: XX DSO:						
WB ^I BRK INT TR ITP/PS F XXX X XX X							

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



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

GCWR (Gross Combined Weight Rating) – is the maximum allowable weight of the vehicle and the loaded trailer – including all cargo and passengers – that the vehicle can handle without risking damage. (Important: The towing vehicle's braking system is rated for operation at GVWR, not at GCWR.) Separate functional brakes should be used for safe control of towed vehicles and for trailers where the GCW of the towing vehicle plus the trailer exceed the GVWR of the towing vehicle. **The GCW must never exceed the GCWR.**

148

https://www.MyCarManual.com

Maximum Loaded Trailer Weight – is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with only mandatory options, no cargo (internal or external), a tongue load of 10–15% (conventional trailer) or king pin weight of 15–25% (fifth wheel trailer), and driver only (150 lb. [68 kg]). **Consult your authorized dealer (or the** *RV and Trailer Towing Guide* **provided by your authorized dealer) for more detailed information.**

Tongue Load or Fifth Wheel King Pin Weight – refers to the amount of the weight that a trailer pushes down on a trailer hitch.

Examples: For a 5,000 lb. (2,268 kg) conventional trailer, multiply 5,000 by 0.10 and 0.15 to obtain a proper tongue load range of 500 to 750 lb. (227 to 340 kg). For an 11,500 lb. (5,216 kg) fifth wheel trailer, multiply by 0.15 and 0.25 to obtain a proper king pin load range of 1,725 to 2,875 lb. (782 to 1,304 kg)

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

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

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

Steps for determining the correct load limit:

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lb." on your vehicle's placard.

2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.

3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lb.

4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1,400 lb. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lb. (1400-750 (5 x 150) = 650 lb.). In metric units (635-340 (5 x 68) = 295 kg.)

149

https://www.MyCarManual.com

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

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

- Another example for your vehicle with 1,400 lb. (635 kg) of cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, 4 of your friends and all the golf bags? You and four friends average 220 lb. (99 kg) each and the golf bags weigh approximately 30 lb. (13.5 kg) each. The calculation would be: 1400 (5 x 220) (5 x 30) = 1400 1100 150 = 150 lb. Yes, you have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be: 635 kg (5 x 99 kg) (5 x 13.5 kg) = 635 495 67.5 = 72.5 kg.
- A final example for your vehicle with 1,400 lb. (635 kg) of cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past 2 years. Measuring the inside of the vehicle with the rear seat folded down, you have room for 12-100 lb. (45 kg) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 lb. (99 kg), the calculation would be: 1400 (2 x 220) (12 x 100) = 1400 440 1200 = 240 lb. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be: 635 kg (2 x 99 kg) (12 x 45 kg) = 635 198 540 = -103 kg. You will need to reduce the load weight by at least 240 lb. (104 kg). If you remove 3-100 lb. (45 kg) cement bags, then the load calculation would be:

 $1400 - (2 \ge 220) - (9 \ge 100) = 1400 - 440 - 900 = 60$ lb. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be: 635 kg - (2 \x 99 kg) - (9 \x 45 kg) = 635 - 198 - 405 = 32 kg.

The above calculations also assume that the loads are positioned in your vehicle in a manner that does not overload the Front or the Rear Gross Axle Weight Rating specified for your vehicle on the Safety Compliance Certification Label found on the edge of the driver's door.

150

https://www.MyCarManual.com

Special loading instructions for owners of pickup trucks and utility-type vehicles

WARNING: For important information regarding safe operation of this type of vehicle, see the *Preparing to drive your vehicle* section in the *Driving* chapter of this *Owner's Guide*.

WARNING: Loaded vehicles may handle differently than unloaded vehicles. Extra precautions, such as slower speeds and increased stopping distance, should be taken when driving a heavily loaded vehicle.

Your vehicle can haul more cargo and people than most passenger cars. Depending upon the type and placement of the load, hauling cargo and people may raise the center of gravity of the vehicle.

TRAILER TOWING

Refer to 6.0 and 6.4 Liter Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement for Diesel engine towing information.

Your vehicle may tow a class I, II or III trailer, provided the maximum trailer weight is less than or equal to the maximum trailer weight listed for your engine and rear axle ratio on the following charts.

GCW	GCWR (Gross Combined Weight Rating)/Trailer Weights						
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)			
	E-150 Regular/RV Van (8520 GVWR)						
4.6L	3.73	11500 (5216)	6000 (2722)	60 (5.52)			
4.6L	4.10	12000 (5443)	6500 (2948)	60 (5.52)			
	E-1	50 Van (Crew) (8520 GVWR)				
4.6L	3.73	11500 (5216)	5800 (2404)	60 (5.52)			
4.6L	4.10	12000 (5443)	6300 (2858)	60 (5.52)			
E -1	E-150 Regular Wagon (7-passenger) (8520 GVWR)						
4.6L	4.10	12000 (5443)	5900 (2676)	60 (5.52)			
E-	150 Regula	r Wagon (8–p	assenger) (8520) GVWR)			
4.6L	4.10	12000 (5443)	6100 (2767)	60 (5.52)			

151

https://www.MyCarManual.com

GCWR (Gross Combined Weight Rating)/Trailer Weights					
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)	
	E-150) Regular/RV V	an (8600 GVWR/	2)	
5.4L	3.55	12000 (5443)	6500 (2948)	60 (5.52)	
5.4L	3.73	13000 (5897)	7500 (3402)	60 (5.52)	
	E-1	50 Van (Crew) (8600 GVWR)		
5.4L	3.55	12000 (5443)	6300 (2858)	60 (5.52)	
5.4L	3.73	13000 (5897)	7300 (3311)	60 (5.52)	
	E-]	150 Extended	(8600 GVWR)		
4.6L	3.73	11500 (5216)	5900 (2676)	60 (5.52)	
4.6L	4.10	12000 (5443)	6400 (2903)	60 (5.52)	
	E-15	0 Extended V	an (8600 GVWR))	
5.4L	3.73	13000 (5897)	7300 (3311)	60 (5.52)	
E- 2	150 Regula	ar Wagon (7–p	assenger) (8600) GVWR)	
5.4L	3.55	12000 (5443)	5900 (2676)	60 (5.52)	
5.4L	3.73	13000 (5897)	6900 (3130)	60 (5.52)	
E- 2	150 Regula	ur Wagon (8–p	assenger) (8600) GVWR)	
5.4L	3.55	12000 (5443)	6000 (2721)	60 (5.52)	
5.4L	3.73	13000 (5897)	7000 (3175)	60 (5.52)	
	E-250) Regular/RV V	an (8900 GVWR/	2)	
4.6L	3.73	11500 (5216)	6000 (2721)	60 (5.52)	
4.6L	4.10	12000 (5443)	6500 (2948)	60 (5.52)	
	E-250 R	egular Van (C	Crew) (8900 GV	WR)	
4.6L	3.73	11500 (5216)	5800 (2631)	60 (5.52)	
4.6L	4.10	12000 (5443)	6300 (2853)	60 (5.52)	
	E-250	Extended/RV	Van (8900 GVW	R)	
4.6L	3.73	11500 (5216)	5900 (2676)	60 (5.52)	
4.6L	4.10	12000 (5443)	6400 (2903)	60 (5.52)	
	E-250 Ex	tended Van (Crew) (8900 GV	WR)	
4.6L	3.73	11500 (5216)	5600 (2540)	60 (5.52)	
4.6L	4.10	12000 (5443)	6100 (2769)	60 (5.52)	

152

https://www.MyCarManual.com

GCWR (Gross Combined Weight Rating)/Trailer Weights					
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)	
	E-250) Regular/RV V	an (9000 GVWR	2)	
5.4L	3.73	13000 (5896)	7400 (3356)	60 (5.52)	
	E-250 R	egular Van (C	rew) (9000 GV	WR)	
5.4L	3.73	13000 (5896)	7200 (3266)	60 (5.52)	
	E-250	Extended/RV	Van (9000 GVW)	R)	
5.4L	3.73	13000 (5896)	7300 (3311)	60 (5.52)	
	E-250 Ex	tended Van (Crew) (9000 GV	WR)	
5.4L	3.73	13000 (5896)	7100 (3220)	60 (5.52)	
	<u> </u>	250 Cutaway	(8600 GVWR)		
4.6L	4.10	12000 (5443)	7500 (3402)	60 (5.52)	
	E-350	Regular/RV V	an (9500 GVWR	2)	
5.4L	3.73	13000 (5897)	7400 (3356)	60 (5.52)	
5.4L	4.10	13000 (5897)	7400 (3356)	60 (5.52)	
6.8L	3.73	15000 (6804)	9200 (4173)	60 (5.52)	
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)	
	E-350 R	egular Van (C	crew) (9500 GV	WR)	
5.4L	3.73	13000 (5897)	7200 (3266)	60 (5.52)	
5.4L	4.10	13000 (5897)	7200 (3266)	60 (5.52)	
6.8L	3.73	15000 (6804)	8900 (4037)	60 (5.52)	
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)	
	E-350	Extended/RV	Van (9500 GVW	R)	
5.4L	3.73	13000 (5897)	7200 (3266)	60 (5.52)	
5.4L	4.10	13000 (5897)	7200 (3266)	60 (5.52)	
6.8L	3.73	15000 (6804)	9000 (4082)	60 (5.52)	
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)	
	E-350 Ex	tended Van (Crew) (9500 GV	WR)	
5.4L	3.73	13000 (5897)	7000 (3175)	60 (5.52)	
5.4L	4.10	13000 (5897)	7000 (3175)	60 (5.52)	
6.8L	3.73	15000 (6804)	8800 (3992)	60 (5.52)	

153

https://www.MyCarManual.com

GCWR (Gross Combined Weight Rating)/Trailer Weights						
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)		
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)		
E-35	0 Regular	Wagon (11/12	-passenger) (88	800 GVWR)		
5.4L	3.73	13000 (5897)	6700 (3039)	60 (5.52)		
E-35	50 Extende	ed Wagon (11-	-passenger) (93	00 GVWR)		
5.4L	3.73	13000 (5897)	6500 (2948)	60 (5.52)		
E-350	Extended	Wagon (14/1	5–passenger) (9	100 GVWR)		
5.4L	3.73	13000 (5897)		60 (5.52)		
E-3	50 Cutawa	uy (138" whee (9600 G	elbase, single rea VWR)	ar wheel)		
5.4L	4.10	13000 (5897)	8000 (3629)	60 (5.52)		
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)		
E-350 Ex	xtended C	utaway (138" (9600 G	wheelbase, sing VWR)	le rear wheel)		
5.4L	4.10	10600 (4808)	5700 (2585)	60 (5.52)		
E-3	350 Cutaw	ay (138" whe (10000 (elbase, dual rea FVWR)	r wheel)		
5.4L	4.10	13000 (5897)	7800 (3538)	60 (5.52)		
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)		
E-3	350 Cutaw	ay (158" whe (10000 (elbase, dual rea GVWR)	r wheel)		
5.4L	4.10	13000 (5897)	7800 (3538)	60 (5.52)		
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)		
E-350 Cutaway (138" wheelbase, dual rear wheel) (11500 GVWR)						
5.4L	4.10	13000 (5897)	7800 (3538)	60 (5.52)		
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)		
E-3	350 Cutaw	ay (158" whe (11500 (elbase, dual rea GVWR)	r wheel)		
5.4L	4.10	13000 (5897)	7700 (3493)	60 (5.52)		
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)		

154

https://www.MyCarManual.com

GCWR (Gross Combined Weight Rating)/Trailer Weights								
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)				
E-	E-350 Cutaway (158" wheelbase, dual rear wheel) (12500 GVWR)							
5.4L	4.10	13000 (5897)	7800 (3538)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				
E-	350 Cutaw	vay (176" whe (10000 (elbase, dual rea GVWR)	r wheel)				
5.4L	4.10	13000 (5897)	7800 (3538)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				
E-	E-350 Cutaway (176" wheelbase, dual rear wheel) (12500 GVWR)							
5.4L	4.10	13000 (5897)	7800 (3538)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				
E-350 S	Stripped C	hassis (138" v (9000 G	wheelbase, singl VWR)	e rear wheel)				
5.4L	3.73	13000 (5897)	8600 (3901)	60 (5.52)				
5.4L	4.10	13000 (5897)	8600 (3901)	60 (5.52)				
E-350 S	Stripped C	hassis (158" v (9600 G	wheelbase, singl WWR)	e rear wheel)				
5.4L	3.73	13000 (5897)	8600 (3901)	60 (5.52)				
5.4L	4.10	13000 (5897)	8600 (3901)	60 (5.52)				
E-350 Stripped Chassis (138" wheelbase, dual rear wheel) (10000 GVWR)								
5.4L	4.10	13000 (5897)	8400 (3810)	60 (5.52)				
6.8L	4.10	18500 (8391)		60 (5.52)				
E-350	E-350 Stripped Chassis (138" wheelbase, dual rear wheel) (11500 GVWR)							
5.4L	4.10	13000 (5897)	8400 (3810)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 155

GCWR (Gross Combined Weight Rating)/Trailer Weights								
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)				
E-350	E-350 Stripped Chassis (158" wheelbase, dual rear wheel) (10000 GVWR)							
5.4L	4.10	13000 (5897)	8500 (3855)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				
E-350	Stripped (hassis (158") (12500 (wheelbase, dual FVWR)	rear wheel)				
5.4L	4.10	13000 (5897)	8300 (3765)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				
E-350	Stripped (hassis (176") (10000 (wheelbase, dual GVWR)	l rear wheel)				
5.4L	4.10	13000 (5897)	8300 (3765)	60 (5.52)				
6.8L	4.10	18500 (8391)	10000 (4536)	60 (5.52)				
E-350	Stripped (hassis (176") (12500 (wheelbase, dual GVWR)	rear wheel)				
5.4L	4.10	13000 (5897)	8300 (3765)	60 (5.52)				
6.8L	4.10	18500 (8391)		60 (5.52)				
E	450 Cutaw	ay (158" whe (14050 (elbase, dual rea GVWR)	r wheel)				
5.4L	4.56	14050 (6373)	8500 (3855)	60 (5.52)				
E	450 Cutaw	ay (176" whe (14050 (elbase, dual rea SVWR)	r wheel)				
5.4L	4.56	14050 (6373)	8400 (3810)	60 (5.52)				
E-450 Cutaway (158" wheelbase, dual rear wheel) (14500 GVWR)								
6.8L	4.56	20000 (9072)	10000 (4536)	60 (5.52)				
E	450 Cutaw	ay (176" whe (14500 (elbase, dual rea FVWR)	r wheel)				
6.8L	4.56	20000 (9072)	10000 (4536)	60 (5.52)				

156

https://www.MyCarManual.com

GCW	GCWR (Gross Combined Weight Rating)/Trailer Weights						
Engine	Rear axle ratio	Maximum GCWR - lb. (kg)	Maximum Loaded Trailer Weight - lb. (kg)	Maximum frontal area of trailer - ft ² (m ²)			
E-450	Stripped C		wheelbase, dual	rear wheel)			
		(14050 (00 (F F0)			
5.4L	4.56	14050 (6373)	. ,	60 (5.52)			
E-450	Stripped (wheelbase, dual	rear wheel)			
		(14050 (GVWR)				
5.4L	4.56	14050 (6372)	9100 (4128)	60 (5.52)			
E-450	E-450 Stripped Chassis (158" wheelbase, dual rear wheel) (14500 GVWR)						
6.8L	4.56	20000 (9072)	10000 (4536)	60 (5.52)			
E-450	Stripped (hassis (176") (14500 (wheelbase, dual GVWR)	rear wheel)			
6.8L	4.56	20000 (9072)	10000 (4536)	60 (5.52)			
Maximum trailer weight for all cutaway (E-350 and E-450) vehicles must be calculated by subtracting the weight of the vehicle (including incomplete vehicle weight and payload which includes second unit body weight, cargo and passengers) from the GCW. Otherwise, maximum trailer weight is 10,000 lb. (4536 kg).							
(300 meter To determi	For high altitude operation reduce GCWR by 2% per 1,000 ft. (300 meters) elevation. To determine the maximum trailer weight designed for your particular vehicle as equipped, follow the section <i>Vehicle loading</i> earlier in this						

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

Distribute the load so that only 10–15% of the total is on the tongue. Tie down the load so that it does not shift and change the weight on the hitch.

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

Do not exceed trailer weight of 5,000 lb (2,268 kg) when towing with bumper only.

157

https://www.MyCarManual.com

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

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

Preparing to tow

Use the proper equipment for towing a trailer and make sure it is properly attached to your vehicle. See your authorized dealer or a reliable trailer dealer if you require assistance.

Hitches

Do not use or install hitches that clamp onto the bumper or to the axle. Underbody hitches are acceptable if installed properly.

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.

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

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

158

https://www.MyCarManual.com

Trailer lamps

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

Using a step bumper (if equipped)

The rear bumper is equipped with an integral hitch and only requires a ball with a one inch (25.4 mm) shank diameter. The bumper has a 5,000 lb (2,270 kg) trailer weight and 500 lb (227 kg) tongue weight capacity.

If it is necessary to relocate the trailer hitch ball position, a frame-mounted trailer hitch must be installed.

Driving while you tow

When towing a trailer:

- To ensure proper "break-in" of powertrain components, do not trailer tow during the first 1,000 miles (1,600 km) of a new vehicle.
- To ensure proper "break-in" of powertrain components during the first 500 miles (800 km) of trailer towing, drive no faster than 70 mph (113 km/h) with no full throttle starts.
- Turn off the speed control. The speed control may shut off automatically when you are towing on long, steep grades.
- Consult your local motor vehicle speed regulations for towing a trailer.
- To eliminate excessive shifting, use a lower gear. This will also assist in transmission cooling.
- Anticipate stops and brake gradually.

When descending long, steep downhill grades, always use a lower gear to provide engine braking to save wear on brakes. Use Drive (Overdrive OFF) on moderately steep hills, Second (2) on steep hills, and First (1) on very steep hills. **Do not apply your brakes continuously, as they may overheat and become less effective.**

Servicing after towing

If you tow a trailer for long distances, your vehicle will require more frequent service intervals. Refer to your *scheduled maintenance information* for more information.

159

https://www.MyCarManual.com

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.
- The trailer tongue weight should be 10–15% of the loaded trailer weight.
- If you will be towing a trailer frequently in hot weather, hilly conditions, at GCWR, or any combination of these factors, consider refilling your rear axle with synthetic gear lube if not already so equipped. Refer to the *Maintenance and specifications* chapter for the lubricant specification. Remember that regardless of the rear axle lube used, do not tow a trailer for the first 1,000 miles (1,600 km) of a new vehicle, and that the first 500 miles (800 km) of towing be done at no faster than 70 mph (113 km/h) with no full throttle starts.
- Do not tow a trailer for the first 500 miles (800 km) after changing the rear axle lube.
- After you have traveled 50 miles (80 km), thoroughly check your hitch, electrical connections and trailer wheel lug nuts.
- When stopped in traffic for long periods of time in hot weather, place the gearshift in P (Park) and increase idle speed. This aids engine cooling and air conditioner efficiency.
- Vehicles with trailers should not be parked on a grade. If you must park on a grade, place wheel chocks under the trailer's wheels.

Launching or retrieving a boat

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

When backing down a ramp during boat launching or retrieval:

- do not allow the static water level to rise above the bottom edge of the rear bumper.
- do not allow waves to break higher than 6 inches (15 cm) above the bottom edge of the rear bumper.

Exceeding these limits may allow water to enter vehicle components:

- causing internal damage to the components.
- affecting driveability, emissions and reliability.

160

https://www.MyCarManual.com

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

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

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

In case of a roadside emergency with a disabled vehicle, see *Wrecker* towing in the *Roadside Emergencies* chapter.

https://www.MyCarManual.com

161

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.

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.

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.

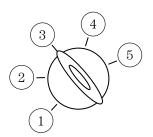
When starting a fuel-injected engine, don't press the accelerator before or during starting. Only use the accelerator when you have difficulty starting the engine. For more information on starting the vehicle, refer to *Starting the engine* in this chapter.

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

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

162

https://www.MyCarManual.com



WARNING: Do not start your vehicle in a closed garage or in other enclosed areas. Exhaust fumes can be toxic. Always open the garage door before you start the engine. See *Guarding against* exhaust fumes in this chapter for more instructions.

WARNING: If you smell exhaust fumes inside your vehicle, have your dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

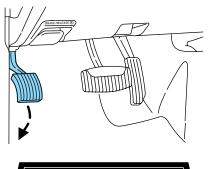
Important safety precautions

When the engine starts, the idle RPM runs faster to warm the engine. If the engine idle speed does not slow down automatically, have the vehicle checked. If your vehicle is operated in a heavy snow storm or blowing snow conditions, the engine air induction may become partially clogged with snow and/or ice. If this occurs, the engine may experience a significant reduction in power output. At the earliest opportunity, clear all the snow and/or ice away from the air induction inlet.

Before starting the vehicle:

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

- 2. Make sure the headlamps and electrical accessories are off.
- Make sure the parking brake is set.



R N 🖸 2 1

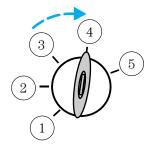
P

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

https://www.MyCarManual.com

163

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

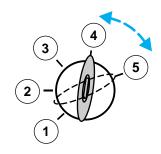


Some warning lights will briefly illuminate. See *Warning lights and chimes* in the *Instrument Cluster* chapter for more information regarding the warning lights.

Starting the engine

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

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. If the engine still fails to start, press the accelerator to the floor and try again; this will allow the engine to crank with the fuel shut off in case the engine is flooded with fuel.

Cold weather starting (flexible fuel vehicles only)

The starting characteristics of all grades of E_{85} ethanol make it unsuitable for use when ambient temperatures fall below 0°F (-18°C). Consult your fuel distributor for the availability of winter grade ethanol. As the outside temperature approaches freezing, ethanol fuel distributors should supply winter grade ethanol (same as with unleaded gasoline). If summer grade ethanol is used in cold weather conditions, 0°F to 32°F (-18°C to 0°C), you may experience increased cranking times, rough idle or hesitation until the engine has warmed up.

164

https://www.MyCarManual.com

You may experience a decrease in peak performance when the engine is cold when operating on $\rm E_{85}$ ethanol.

Do not crank the engine for more than 30 seconds at a time as starter damage may occur. If the engine fails to start, turn the key to OFF and wait 30 seconds before trying again.

Do not use starting fluid such as ether in the air intake system. Such fluid could cause immediate explosive damage to the engine and possible personal injury.

If you should experience cold weather starting problems on E_{85} ethanol, and neither an alternative brand of E_{85} ethanol nor an engine block heater is available, the addition of unleaded gasoline to your tank will improve cold starting performance. Your vehicle is designed to operate on E_{85} ethanol alone, unleaded gasoline alone, or any mixture of the two.

See *Choosing the right fuel* in the *Maintenance and Specifications* chapter for more information on ethanol.

Guarding against exhaust fumes

Carbon monoxide is present in exhaust fumes. Take precautions to avoid its dangerous effects.

WARNING: If you smell exhaust fumes inside your vehicle, have your dealer inspect your vehicle immediately. Do not drive if you smell exhaust fumes.

Important ventilating information

If the engine is idling while the vehicle is stopped for a long period of time, open the windows at least one inch (2.5 cm) or adjust the heating or air conditioning to bring in fresh air.

ENGINE BLOCK HEATER (IF EQUIPPED)

An engine block heater warms the engine coolant which aids in starting and allows the heater/defroster system to respond quickly. If your vehicle is equipped with this system, your equipment includes a heater element which is installed in your engine block and a wire harness which allows the user to connect the system to a grounded 120 volt a/c electrical source. The block heater system is most effective when outdoor temperatures reach below 0°F (-18°C).

For flexible fuel vehicles, if operating with E_{85} ethanol, an engine block heater must be used if ambient temperature is below 0°F (-18°C).

165

https://www.MyCarManual.com

See *Cold weather starting* in the *Driving* chapter for more information on starting with ethanol.



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

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

Prior to using the engine block heater, follow these recommendations for proper and safe operation:

- For your safety, use an outdoor extension cord that is product certified by Underwriter's Laboratory (UL) or Canadian Standards Association (CSA). Use only an extension cord that can be used outdoors, in cold temperatures, and is clearly marked "Suitable for Use with Outdoor Appliances." Never use an indoor extension cord outdoors; it could result in an electric shock or fire hazard.
- Use a 16 gauge outdoor extension cord, minimum.
- Use as short an extension cord as possible.
- Do not use multiple extension cords. Instead, use one extension cord which is long enough to reach from the engine block heater cord to the outlet without stretching.
- Make certain that the extension cord is in excellent condition (not patched or spliced). Store your extension cord indoors at temperatures above 32°F (0°C). Outdoor conditions can deteriorate extension cords over a period of time.
- To reduce the risk of electrical shock, do not use your heater with ungrounded electrical systems or two pronged (cheater) adapters. Also ensure that the block heater, especially the cord, is in good condition before use.
- Make sure that when in operation, the extension cord plug /engine block heater cord plug connection is free and clear of water in order to prevent possible shock or fire.
- Be sure that areas where the vehicle is parked are clean and clear of all combustibles such as petroleum products, dust, rags, paper and similar items.

166

https://www.MyCarManual.com

- Be sure that the engine block heater, heater cord and extension cord are solidly connected. A poor connection can cause the cord to become very hot and may result in an electrical shock or fire. Be sure to check for heat anywhere in the electrical hookup once the system has been operating for approximately a half hour.
- Finally, have the engine block heater system checked during your fall tune-up to be sure it's in good working order.

How to use the engine block heater

Ensure the receptacle terminals are clean and dry prior to use. To clean them, use a dry cloth.

Depending on the type of factory installed equipment, your engine block heater system may consume anywhere between 400 watts or 1000 watts of energy per hour. Your factory installed block heater system does not have a thermostat; however, maximum temperature is attained after approximately three hours of operation. Block heater operation longer than 3 hours will not improve system performance and will unnecessarily use additional electricity.

Make sure system is unplugged and properly stowed before driving the vehicle. While not in use, make sure the protective cover seals the prongs of the engine block heater cord plug.

BRAKES

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

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



Four-wheel anti-lock brake system (ABS)

Your vehicle is equipped with an Anti-lock Braking System (ABS). This system helps you maintain steering control during emergency stops by keeping the brakes from locking. Noise from the ABS pump motor and brake pedal pulsation may be observed during ABS braking and the brake pedal may suddenly travel a little farther as soon as ABS braking is done and normal brake operation resumes. These are normal characteristics of the ABS and should be no reason for concern.

167

https://www.MyCarManual.com

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 steering control during hard braking and on slippery surfaces. However, the ABS does not decrease stopping distance.

ABS warning lamp

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

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

Parking brake

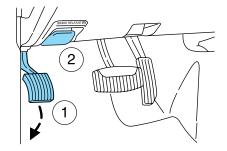
168

To set the parking brake (1), press the parking brake pedal down until the pedal stops.

To release, pull the lever (2).

WARNING: Always set the parking brake fully and make sure that the gearshift is securely latched in P (Park).

The BRAKE warning lamp will illuminate and will remain illuminated until the parking brake is released.





https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)



BRAK

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.

TRACTION CONTROL™ (IF EQUIPPED)

Your vehicle may be equipped with a Traction ControlTM system. 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 ControlTM operation, the traction control active light will flash 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.



WARNING: Aggressive driving in any road conditions can cause you to lose control of your vehicle increasing the risk of severe personal injury or property damage. The occurrence of a Traction $Control^{TM}$ 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.

The Traction Control[™] switch, located on the center console, has an indicator light that illuminates when the system is off. The Traction Control[™] system will automatically turn on every time the ignition is turned off and on. The Traction Control[™] system should normally be left on.



If you should become stuck in snow or ice or on a very slippery road surface, try switching the Traction ControlTM system off. This may allow excess wheel spin to "dig" the vehicle out and enable a successful "rocking" maneuver. Remember to switch the Traction ControlTM system back on once the vehicle is no longer stuck.

169

https://www.MyCarManual.com

If a system fault is detected, the traction control active light will illuminate, the Traction ControlTM button will not turn the system on or off and your vehicle should be serviced by an authorized dealer.

ADVANCETRAC[®] WITH ROLL STABILITY CONTROL[™] (RSC) STABILITY ENHANCEMENT SYSTEM (IF EQUIPPED)

The AdvanceTrac[®] with RSC system provides stability and traction enhancement for certain driving situations when driver assistance is needed. It helps your vehicle maintain traction, when driving on slippery and/or hilly road surfaces, by detecting and controlling wheel spin. Excessive wheel spin is controlled by momentarily reducing engine power and rapidly applying the anti-lock brakes. The system is a driver aid which makes your vehicle easier to handle primarily on snow and ice-covered roads.

If your vehicle should become stuck in deep snow or mud, try switching the AdvanceTrac[®] with RSC system off by pressing the AdvanceTrac[®] with RSC button. This will allow your tires to "dig" for traction. Remember to switch the AdvanceTrac[®] with RSC system back on once the vehicle is no longer stuck.

If the AdvanceTrac[®] with RSC system is activated excessively in a short period of time, the brake portion of the system will shut down to allow the brakes to cool down. A limited AdvanceTrac[®] with RSC function using only engine power reduction will still help control the wheels from over-spinning. When the brakes have cooled down, the system will again function normally. Anti-lock braking is not affected by this condition and will function normally during the cool-down period.

The AdvanceTrac[®] with RSC system enhances your vehicle's stability during maneuvers that require all available tire traction, like in wet/snowy/icy road conditions and/or when performing emergency maneuvers. In an emergency lane-change, the driver will experience better overall vehicle traction, and have better control of the vehicle.

The AdvanceTrac[®] with RSC system helps the driver maintain steering control if the vehicle begins to slide excessively left or right or spin out. AdvanceTrac[®] with RSC will attempt to correct the sliding motion by applying brake force at individual tires and, if necessary, by reducing engine power.

170

https://www.MyCarManual.com

WARNING: Aggressive driving in any road conditions can cause you to lose control of your vehicle increasing the risk of severe personal injury or death. The occurrence of a AdvanceTrac[®] with RSC event is an indication that at least some of the tires have exceeded their ability to grip the road; this may lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death. Operating your vehicle with AdvanceTrac[®] with RSC system disabled may severely reduce your ability to control your vehicle. If you experience a severe road event or any loss of vehicle control, SLOW DOWN.

Driving conditions which may activate AdvanceTrac[®] with RSC system include:

- Taking a turn too fast.
- Maneuvering quickly to avoid an accident, pedestrian or obstacle.
- Hitting a patch of ice.
- Changing lanes on a snow-rutted road.
- Entering a snow-free road from a snow-covered side street, or vice versa.
- Entering a paved road from a gravel road, or vice versa.
- Hitting a curb while turning.
- Driving on slick surfaces.
- Cornering while towing a heavily loaded trailer (refer to *Trailer* towing in the *Tires, Wheels and Loading* chapter.)

The RSC system works in conjunction with the AdvanceTrac[®] system to further enhance the vehicle's overall stability during aggressive maneuvers. The system helps maintain roll stability of the vehicle during aggressive maneuvers by applying brake force to one or more wheels.

Driving conditions that may activate Roll Stability Control include:

- Emergency lane-change
- Taking a turn too fast
- Quick maneuvering to avoid an accident, pedestrian or obstacle

The AdvanceTrac[®] with RSC system automatically turns on when the engine is started. However, the system does not function when the vehicle is traveling in R (Reverse). In R (Reverse), ABS and the traction enhancement feature will continue to function.

171

https://www.MyCarManual.com

The AdvanceTrac[®] with RSC button allows the driver to control the availability of the AdvanceTrac[®] with RSC system. AdvanceTrac[®] with RSC system status is indicated by a warning indicator light with a "sliding car" icon in the instrument cluster that will flash when the system is active and an indicator light i



system is active and an indicator light in the control button that will illuminate when the system is turned off.

The AdvanceTrac[®] with RSC system warning indicator light may flash to indicate the system is not fully initialized. If this happens, slow down. If the light continues flashing, have the AdvanceTrac[®] with RSC system serviced by an authorized dealer.



If a failure is detected in the AdvanceTrac[®] with RSC system, the warning indicator light in the instrument cluster will stay on and the instrument cluster will chime repeatedly. If the warning indicator light in the instrument cluster remains on and the chime is active while the engine is running, have the system serviced by an authorized dealer immediately.

Pressing the control will disable the AdvanceTrac[®] with RSC system and the traction enhancement feature at and below 20 mph (32 km/h). If the vehicle is stuck in snow or mud or when driving in deep sand, switching off the AdvanceTrac[®] with RSC system may be beneficial so the wheels are allowed to spin. If your vehicle seems to lose engine power while driving in deep sand or very deep snow and the vehicle speed is 20 mph (32 km/h) or below, switching off the AdvanceTrac[®] with RSC stability enhancement feature will restore full engine power and will enhance momentum through the obstacle. Remember to switch the AdvanceTrac[®] with RSC system back on once the vehicle is no longer stuck.

Note: The AdvanceTrac[®] with RSC system will automatically restore to full functionality every time the vehicle speed exceeds 20 mph (32 km/h) or the ignition is turned off and back on. However, the AdvanceTrac[®] with RSC button remains illuminated even above 20 mph (32 km/h) until it is pressed.

172

https://www.MyCarManual.com

Some drivers may notice a slight movement of the brake pedal when the AdvanceTrac[®] with RSC performs a system self-check. During AdvanceTrac[®] with RSC operation you may experience the following:

- A rumble or grinding noise
- A slight deceleration of the vehicle
- Steering feedback
- The AdvanceTrac[®] with RSC indicator light will flash
- If your foot is on the brake pedal, you will feel a vibration in the pedal.

All these conditions are normal during AdvanceTrac[®] with RSC operation.

Do not alter or modify your vehicle's suspension, steering or tires; the resulting changes to the vehicle's handling can adversely affect the AdvanceTrac[®] with RSC system. Also, do not install a stereo loudspeaker. The speaker vibrations can adversely affect the AdvanceTrac[®] with RSC sensors.

STEERING

To help 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 (If the fluid level is below the FULL COLD range on the dipstick).
- Some noise is normal during operation. If the noise is excessive, check for low power steering pump fluid level before seeking service by your authorized dealer.
- Heavy or uneven steering efforts may be caused by low power steering pump fluid level. Check for low power steering pump fluid level before seeking service by your authorized dealer.
- Do not fill the power steering pump reservoir above the FULL COLD range on the dipstick, as this may result in leaks from the reservoir.

If the power steering system breaks down (or if the engine is turned off), you can steer the vehicle manually, but it takes more effort.

If the steering wanders or pulls, check for:

- an improperly inflated tire
- uneven tire wear

173

https://www.MyCarManual.com

- loose or worn suspension components
- loose or worn steering components
- improper steering alignment

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

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. The axle may exhibit a slight noise or vibration in tight turns with low vehicle speed. This is normal behavior and indicates the axle is working.

PREPARING TO DRIVE



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

WARNING: In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

Utility vehicles and trucks have larger tires and increased ground clearance, giving the vehicle a higher center of gravity than a passenger car.

WARNING: Vehicles with a higher center of gravity such as utility vehicles and trucks handle differently than vehicles with a lower center of gravity. Utility vehicles and trucks are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed or abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

WARNING: Loaded vehicles, with a higher center of gravity, may handle differently than unloaded vehicles. Do not overload your vehicle and use extra precautions, such as driving at slower speeds, avoiding abrupt steering changes and allowing for increased stopping distance, when driving a heavily loaded vehicle. Over-loading or loading the vehicle improperly can deteriorate handling capability and contribute to loss of vehicle control and vehicle rollover.

174

https://www.MyCarManual.com

Vehicle stability and handling

The risk of a rollover crash increases as the number of people and load in the vehicle increase. This increased risk occurs because the passenger weight and load raises the vehicle's center of gravity and causes it to shift rearward. As a result, the van has less resistance to rollover and handles differently from other commonly driven passenger vehicles, making it more difficult to control in an emergency situation. Placing any load on the roof also raises the center of gravity and increases the potential for rollover.

The van should be operated by an experienced driver. An organization that owns a 15-passenger van should select one or two experienced drivers to drive the van on a regular basis. These drivers will gain valuable experience handling the van. This experience will help make each trip safer.

The van should be operated at a safe speed which, in some conditions, may be less than the posted speed limit.

Further, all occupants should be properly restrained. Most people killed in rollover crashes were unbelted. Occupants can dramatically reduce their risk of being killed or seriously injured in a rollover crash by simply using their seat belts. Organizations that own 15–passenger vans should have a written seat belt use policy. Drivers should be responsible for enforcing the policy.

Emergency maneuvers

- In an unavoidable emergency situation where a sudden sharp turn must be made, remember to avoid "over-driving" your vehicle, i.e., turn the steering wheel only as rapidly and as far as required to avoid the emergency. Excessive steering will result in less vehicle control, not more. Additionally, smooth variations of the accelerator and/or brake pedal pressure should be utilized if changes in vehicle speed are called for. Avoid abrupt steering, acceleration or braking which could result in an increased risk of loss of vehicle control, vehicle rollover and/or personal injury. Use all available road surface to return the vehicle to a safe direction of travel.
- In the event of an emergency stop, avoid skidding the tires and do not attempt any sharp steering wheel movements.

https://www.MyCarManual.com

175

WARNING: Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

• If the vehicle goes from one type of surface to another (i.e., from concrete to gravel) there will be a change in the way the vehicle responds to a maneuver (steering, acceleration or braking). Again, avoid these abrupt inputs.

AUTOMATIC TRANSMISSION OPERATION

Brake-shift interlock

The vehicle is equipped with a brake-shift interlock feature that prevents the gearshift lever from being moved from P (Park) unless the brake pedal is depressed.

If you cannot move the gearshift lever out of P (Park) position with the ignition in the (4) ON position and the brake pedal depressed, a malfunction may have occurred. It is possible that a fuse has blown or the vehicle's brakelamps are not operating properly. Refer to *Fuses and relays* in the *Roadside Emergencies* chapter. If the fuses and brakelamps are working properly, and the vehicle still will not shift out of (P) Park, see your authorized dealer for service.

In an emergency, to disable the malfunctioning brake-shift interlock feature in order to shift the vehicle from P(Park) follow these steps:

WARNING: To prevent vehicle movement when following this procedure, park on a level surface, ensure parking brake is set, and block the rear wheels.

1. Apply the parking brake. Turn key to the 2 (lock), and then remove the key.

- 2. Disconnect the negative (Black) battery cable from the battery.
- 3. Insert the key and turn to 3 (off). Shift to N (Neutral).
- 4. Reconnect the negative (Black) battery cable to the battery.
- 5. Start the vehicle.

176

https://www.MyCarManual.com

See your authorized dealer for service immediately.

WARNING: If your brake lamps are not working properly or if you have disconnected the vehicle battery cables, the vehicle brake lamps and hazard flashers may not properly warn traffic of a vehicle breakdown or approaching danger, which can increase the risk of serious injury or death. To minimize the risk of serious injury or death, be aware of your surroundings, use other hazard signaling devices if available, and move the vehicle to a safe location away from traffic as soon as possible.

WARNING: Do not drive your vehicle until you verify that the brakelamps are working.

WARNING: 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.

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

https://www.MyCarManual.com

177

Understanding the gearshift positions of the 4-speed automatic transmission



This vehicle is equipped with an adaptive Transmission Shift Strategy. Adaptive Shift Strategy offers the optimal transmission operation and shift quality. When the vehicle's battery has been disconnected for any type of service or repair, the transmission will need to relearn the normal shift strategy parameters, much like having to reset your radio stations when your vehicle battery has been disconnected. The Adaptive Transmission Strategy allows the transmission to relearn these operating parameters. This learning process could take several transmission upshifts and downshifts; during this learning process, slightly firmer shifts may occur. After this learning process, normal shift feel and shift scheduling will resume.

P (Park)

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

To put your vehicle in gear:

- Start the engine
- Depress the brake pedal
- 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)

WARNING: 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).

178

https://www.MyCarManual.com

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.

(Overdrive)

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



O/D

ON/OFF

0/D

OFF

Overdrive can be deactivated by pressing the transmission control switch on the end of the gearshift lever.

The O/D OFF lamp will illuminate in the instrument cluster.

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), 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 () (Overdrive), move the gearshift lever into the () (Overdrive) position.
- Selecting 2 (Second) at higher speeds will cause the transmission to downshift to second gear at the appropriate vehicle speed.

179

https://www.MyCarManual.com

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 **()** (Overdrive) or Drive.
- Depress the accelerator to the floor.
- Allows transmission to select an appropriate gear.

Understanding the shift positions of the 5–speed automatic transmission (if equipped - 5.4L and 6.8L gasoline engines only)



This vehicle is equipped with an adaptive Transmission Shift Strategy. Adaptive Shift Strategy offers the optimal transmission operation and shift quality. When the vehicle's battery has been disconnected for any type of service or repair, the transmission will need to relearn the normal shift strategy parameters, much like having to reset your radio stations when your vehicle battery has been disconnected. The Adaptive Transmission Strategy allows the transmission to relearn these operating parameters. This learning process could take several transmission upshifts and downshifts; during this learning process, slightly firmer shifts may occur. After this learning process, normal shift feel and shift scheduling will resume.

P (Park)

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

To put your vehicle in gear:

- Start the engine
- Depress the brake pedal
- Move the gearshift lever into the desired gear

180

https://www.MyCarManual.com

To put your vehicle in P (Park):

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

WARNING: 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.

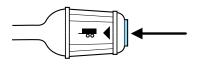
D (Overdrive) with Tow/Haul OFF

D (Overdrive) with Tow/Haul OFF is the normal driving position for the best fuel economy. The overdrive function allows automatic upshifts and downshifts through gears one through five.

D (Overdrive) with Tow/Haul ON

The Tow/Haul feature improves transmission operation when towing a trailer or a heavy load. All transmission gear ranges are available when using Tow/Haul.

To activate Tow/Haul, press the button on the end of the gearshift lever.



The TOW HAUL indicator light will illuminate in the instrument cluster.

TOW HAUL

https://www.MyCarManual.com

181

Tow/Haul delays upshifts to reduce frequency of transmission shifting. Tow/Haul also provides engine braking in all forward gears when the transmission is in the D (Overdrive) position; this engine braking will slow the vehicle and assist the driver in controlling the vehicle when descending a grade. Depending on driving conditions and load conditions, the transmission may downshift, slow the vehicle and control the vehicle speed when descending a hill, without the accelerator pedal being pressed. The amount of downshift braking provided will vary based upon the amount the brake pedal is depressed.

To deactivate the Tow/Haul feature and return to normal driving mode, press the button on the end of the gearshift lever. The TOW HAUL light will no longer be illuminated.

When you shut-off and restart the engine, the transmission will automatically return to normal D (Overdrive) mode (Tow/Haul OFF).

WARNING: Do not use the Tow/Haul feature when driving in icy or slippery conditions as the increased engine braking can cause the rear wheels to slide and the vehicle to swing around with the possible loss of vehicle control.

3 (Third)

Transmission starts and operates in third gear only.

Used for improved traction on slippery roads. Selecting 3 (Third) provides engine braking.

2 (Second)

Use 2 (Second) to start-up on slippery roads or to provide additional engine braking on downgrades.

1 (First)

- Provides maximum engine braking.
- Allows upshifts by moving gearshift lever.
- The transmission will not downshift into 1 (First) at high speeds; it will downshift to a lower gear and then shift into 1 (First) when the vehicle reaches slower speeds.

Forced downshifts

- Allowed in **()** (Overdrive) or Drive.
- Depress the accelerator to the floor.
- Allows transmission to select an appropriate gear.

182

https://www.MyCarManual.com

Understanding the shift positions of the 5-speed automatic transmission (if equipped - diesel engines only)



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)

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

R (Reverse)

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

N (Neutral)

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

D (Drive) with Overdrive

D (Drive) with Overdrive is the normal driving position for the best fuel economy. The overdrive function allows automatic upshifts and downshifts through gears one through five.

https://www.MyCarManual.com

183

D (Drive) without Overdrive

D (Drive) without Overdrive can be activated by pressing the transmission control switch (TCS) on the end of the gearshift lever.



- This position allows for all forward gears except overdrive.
- The O/D OFF lamp will illuminate in the instrument cluster.



- 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), press the transmission control switch. The O/D OFF lamp will not be illuminated.
- O/D (Overdrive) is automatically returned each time the key is turned off.

3 (Third)

Transmission starts and operates in third gear only.

Used for improved traction on slippery roads. Selecting 3 (Third) provides additional engine braking.

2 (Second)

Use 2 (Second) to start-up on slippery roads or to provide additional engine braking on downgrades.

1 (First)

- Provides maximum engine braking.
- Allows upshifts by moving gearshift lever.
- The transmission will not downshift into 1 (First) at high speeds; it will downshift to a lower gear and then shift into 1 (First) when the vehicle reaches slower speeds.

Forced downshifts

- Allowed in D (Drive) with Overdrive or D (Drive) without Overdrive.
- Depress the accelerator to the floor.
- Allows transmission to select an appropriate gear.

184

https://www.MyCarManual.com

If your vehicle goes off the edge of the pavement

- If your vehicle goes off the edge of the pavement, slow down, but avoid severe brake application, ease the vehicle back onto the pavement only after reducing your speed. Do not turn the steering wheel too sharply while returning to the road surface.
- It may be safer to stay on the apron or shoulder of the road and slow down gradually before returning to the pavement. You may lose control if you do not slow down or if you turn the steering wheel too sharply or abruptly.
- It often may be less risky to strike small objects, such as highway reflectors, with minor damage to your vehicle rather than attempt a sudden return to the pavement which could cause the vehicle to slide sideways out of control or roll over. Remember, your safety and the safety of others should be your primary concern.

WARNING: Vehicles with a higher center of gravity such as utility and four-wheel drive vehicles handle differently than vehicles with a lower center of gravity. Utility and four-wheel drive vehicles are **not** designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. Avoid sharp turns, excessive speed and abrupt maneuvers in these vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

REVERSE SENSING SYSTEM (IF EQUIPPED)

The Reverse Sensing System (RSS) sounds a tone to warn the driver of obstacles near the rear bumper when the R (Reverse) is selected and the vehicle is moving at speeds less than 3 mph (5 km/h). The system is not effective at speeds above 3 mph (5 km/h) and may not detect certain angular or moving objects.

WARNING: To help avoid personal injury, please read and understand the limitations of the reverse sensing system as contained in this section. Reverse sensing is only an aid for some (generally large and fixed) objects when moving in reverse on a flat surface at "parking speeds". Inclement weather may also affect the function of the RSS; this may include reduced performance or a false activation.

https://www.MyCarManual.com

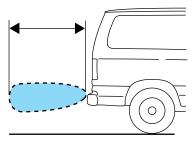
185

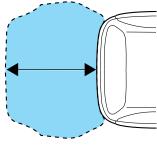
WARNING: To help avoid personal injury, always use caution when in reverse and when using the RSS.

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

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

The RSS detects obstacles up to 6 feet (2 meters) from the rear bumper with a decreased coverage area at the outer corners of the bumper, (refer to the figures for approximate zone coverage areas). As you move closer to the obstacle, the rate of the tone increases. When the obstacle is less than 10 inches (25.0 cm) away, the tone will sound continuously. If the RSS detects a stationary or receding object further than 10 inches (25.0 cm) from the side of the vehicle, the tone will sound for only three seconds. Once the system detects an object approaching, the tone will sound again.





186

https://www.MyCarManual.com

The RSS automatically turns on when the gearshift lever is placed in R (Reverse) and the ignition is on. An RSS control allows the driver to turn the RSS on and off. To turn the RSS off, the ignition must be ON, and the gear selector in R (Reverse). An indicator light on the



control will illuminate when the system is turned off. If the indicator light illuminates when the RSS is not turned off, it may indicate a failure in the RSS. The RSS will remain off until either the RSS control is pushed again or the ignition switch is recycled.

While receiving a warning, on some radios, the volume will be reduced to a predetermined level. After the warning goes away, the radio will return to the previous value.

Keep the RSS sensors (located on the rear bumper/fascia) free from snow, ice and large accumulations of dirt (do not clean the sensors with sharp objects). If the sensors are covered, it will affect the accuracy of the RSS.

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

VEHICLE USED AS A STATIONARY POWER SOURCE

Auxiliary equipment called power take-off or PTO, is often added to the engine or transmission to operate utility equipment. Examples include a wheel-lift for tow trucks, cranes, tools for construction or tire service and pumping fluids. PTO applications draw auxiliary horsepower from the powertrain, often while the vehicle is stationary. In this condition, there is limited cooling air flow through the radiator and around the vehicle that normally occurs when a vehicle is moving. The aftermarket PTO system installer, having the most knowledge of the final application, is responsible for determining whether additional chassis heat protection or powertrain cooling is required, and alerting the user to the safe and proper operation.

Your vehicle is qualified for use as a stationary power source, within limits detailed in the *Ford Truck Body Builders Layout Book*, found at www.fleet.ford.com/truckbbas, and through the Ford Truck Body Builders Advisory Service.

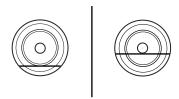
187

https://www.MyCarManual.com

Gas engine vehicles are qualified for up to 10 minutes of continuous operation as a stationary power source, due to the potential for the normal venting of fuel vapors. For stationary PTO operation of extended duration (beyond 10 minutes), diesel engine is recommended. Further consult your aftermarket PTO installer, since the duration of operation limit for the aftermarket PTO may be less than the vehicle is capable of.

DRIVING THROUGH WATER

If driving through deep or standing water is unavoidable, proceed very slowly especially when the depth is not known. Never drive through water that is higher than the bottom of the wheel rims (for cars) or the bottom of the hubs (for trucks).



When driving through water, traction or brake capability may be limited. Also, water may enter your engine's air intake and severely damage your engine or your vehicle may stall. **Driving through deep water where the transmission vent tube is submerged may allow water into the transmission and cause internal transmission damage.**

Once through the water, always dry the brakes by moving your vehicle slowly while applying light pressure on the brake pedal. Wet brakes do not stop the vehicle as quickly as dry brakes.

188

https://www.MyCarManual.com

ROADSIDE ASSISTANCE

Getting roadside assistance

To fully assist you should you have a vehicle concern, Ford Motor Company offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty. The service is available:

- 24-hours, seven days a week
- for the coverage period listed on the Roadside Assistance Card included in your Owner Guide portfolio.

Roadside assistance will cover:

- a flat tire change with a good spare (except vehicles that have been supplied with a tire inflation kit)
- battery jump start
- lock-out assistance (key replacement cost is the customer's responsibility)
- fuel delivery Independent Service Contractors, if not prohibited by state, local or municipal law shall deliver up to 2.0 gallons (7.5L) of gasoline or 5 gallons (18.9L) of diesel fuel to a disabled vehicle. Fuel delivery service is limited to two no-charge occurrences within a 12-month period.
- winch out available within 100 feet (30.5 meters) of a paved or county maintained road, no recoveries.
- towing Ford/Mercury/Lincoln eligible vehicle towed to an authorized dealer within 35 miles (56.3 km) of the disablement location or to the nearest authorized dealer. If a member requests to be towed to an authorized dealer more than 35 miles (56.3 km) from the disablement location, the member shall be responsible for any mileage costs in excess of 35 miles (56.3 km).

Trailers shall be covered up to \$200 if the disabled eligible vehicle requires service at the nearest authorized dealer. If the trailer is disabled, but the towing vehicle is operational, the trailer does not qualify for any roadside services.

Canadian customers refer to your Customer Information Guide for information on:

- coverage period
- exact fuel amounts

189

https://www.MyCarManual.com

- towing of your disabled vehicle
- emergency travel expense reimbursement
- travel planning benefits

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.

Using roadside assistance

Complete the roadside assistance identification card and place it in your wallet for quick reference. In the United States, this card is found in the Owner Guide portfolio in the glove compartment. In Canada, the card is found in the *Owner Information Guide* in the glove compartment.

U.S. Ford, Mercury and Lincoln vehicle customers who require Roadside Assistance, call 1-800-241-3673.

Canadian customers who require roadside assistance, call 1-800-665-2006.

Motorhome customers in the U.S and Canada should contact 1-800-444-3311.

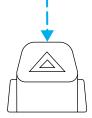
If you need to arrange roadside assistance for yourself, Ford Motor Company will reimburse a reasonable amount for towing to the nearest dealership within 35 miles. To obtain reimbursement information, U.S. Ford, Mercury and Lincoln vehicle customers call 1-800-241-3673. Customers will be asked to submit their original receipts.

Canadian customers who need to obtain reimbursement information, call 1-800-665-2006.

HAZARD FLASHER CONTROL 📐

The hazard flasher is located on the steering column, just behind the steering wheel. The hazard flashers will operate when the ignition is in any position or if the key is not in the ignition.

Push in the flasher control and all front and rear direction signals will flash. Press the flasher control again to turn them off. Use it when your



vehicle is disabled and is creating a safety hazard for other motorists.

190

https://www.MyCarManual.com

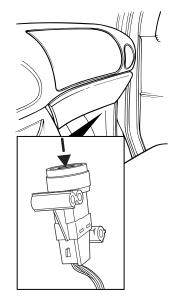
Note: With extended use, the flasher may run down your battery.

FUEL PUMP SHUT-OFF SWITCH

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

After an accident, if the engine cranks but does not start, this switch may have been activated.

Except for commercial stripped chassis vehicles, this switch is located in the front passenger's footwell, by the kick panel.





2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 191

On commercial stripped chassis vehicles, this switch is located on a bracket above the brake pedal.

To reset the switch:

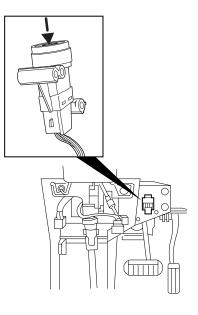
- 1. Turn the ignition OFF.
- 2. Check the fuel system for leaks.

3. If no leaks are apparent, reset the switch by pushing in on the reset button.

4. Turn the ignition ON.

5. Wait a few seconds and return the key to OFF.

6. Make another check for leaks.



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.

192

https://www.MyCarManual.com

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	Yellow
70A			Tan		Brown
80A		_	Natural	Black	Black

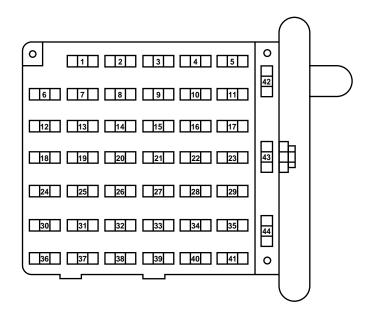
Standard fuse amperage rating and color

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.

193



The fuses are coded as follows.

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
1	_	Not used
2	10A	Remote Keyless Entry (RKE), O/D cancel, IVD module, 4W ABS
3	15A	Delayed accessory overhead console, Audio
4	15A	Courtesy lamps
5	30A	Power door locks without BSM
6	10A	Daytime Running Lamps (DRL) module, Reverse Park Aid (RPA)
7	10A	Multi-function switch, Turn signals
8	15A	Radio capacitor(s), Ignition coils, PCM (Powertrain Control Module) relay

194

https://www.MyCarManual.com

Fuse/Relay	Fuse Amp	Passenger Compartment Fuse
Location	Rating	Panel Description
9	5A	Wiper control module
10	20A	Main light switch, Park lamps,
		License lamp (external lamps),
		Multi-function switch
		(flash-to-pass), BSM
11	15A	Multi-function switch (hazards),
		Brake lamps, IVD relay
12	15A	Back-up lamps, Auxiliary battery
		relay (gasoline engine only)
13	15A	Blend door actuator, A/C mode
14	5A	Instrument cluster
15	5A	Trailer battery charge relay,
		Cluster, BSM
16	30A	Power seats
17	5A	Power mirrors
18		Not used
19	—	Not used
20	10A	Restraints
21		Not used
22	15A	Audio, Instrument cluster,
		Courtesy lamp relay, Accessory
		delay relay
23	20A	Power locks w/RKE or sliding
		door
24	_	Not used
25	10A	Left headlamp (low beam)
26	20A	Cigar lighter
27	5A	Audio
28		Not used
29	10A	Diagnostics
30	15A	Headlamps (high beam indicator), DRL

https://www.MyCarManual.com

195

Fuse/Relay Location	Fuse Amp Rating	Passenger Compartment Fuse Panel Description
31	10A	Right headlamp (low beam)
32	20A	Power point #1 (instrument panel)
33	10A	Starter relay
34	—	Not used
35	—	Not used
36	5A	Instrument illumination
37	15A	Ignition switch
38	10A	Brake Shift Interlock
39	10A	Trailer tow electric brake, Center High-Mounted Stop Lamp (CHMSL)
40	20A	Power point (body B-pillar)
41	30A	Modified vehicle
42	20A circuit breaker	Power windows
43		Not used
44	30A circuit breaker	Wiper/washer

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.



WARNING: Always disconnect the battery before servicing high current fuses.

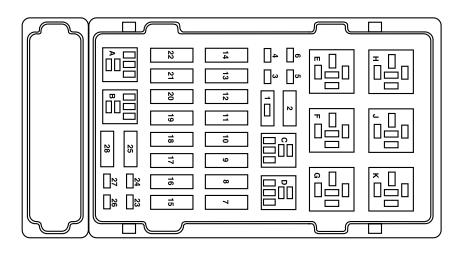
WARNING: To reduce risk of electrical shock, always replace the cover to the Power Distribution Box before reconnecting the battery or refilling fluid reservoirs.

If your vehicle is equipped with an auxiliary battery, disconnecting the primary under-hood battery DOES NOT remove power from all circuits.

196

https://www.MyCarManual.com

If the battery has been disconnected and reconnected, refer to the *Battery* section of the *Maintenance and Specifications* chapter.



The high-current fuses are coded as follows.

Fuse/Relay Location	Fuse Amp Rating	Power Distribution Box Description
1		Powertrain Control Module (PCM) diode
2		Auxiliary battery diode
3	15A*	Daytime Running Lamps (DRL) module, A/C clutch
4	5A*	Heated PCV (4.6L and 6.8L engines)
5	15A*	Horn relay
6	20A	PCM —fuel injectors
7	60A**	Ignition switch, Delayed accessory delay
8	40A**	Trailer tow battery charge relay
9	50A**	Modified vehicle power

https://www.MyCarManual.com

197

Fuse/Relay	Fuse Amp	Power Distribution Box
Location	Rating	Description
10	30A**	Trailer tow electric brake
		controller
11	40A**	4-Wheel Anti-lock Brake System
		(4WABS) and Flex fuel (FF)
		module (if equipped), or
		AdvanceTrac [®] with RSC.
12	60A**	I/P fuses 29, 34, 35, 40 and 41
13	20A**	Fuel pump relay
14	50A**	Auxiliary blower relay
15	30A**	Main light switch
16	40A**	ABS/IVD
17	50A**	Blower motor relay (blower
		motor)
18	60A**	Engine compartment fuses 3, 5
		and 26, 23 (diesel) Instrument
		panel fuses 26 and 32, PCM start
		relay
19	50A**	IDM relay (diesel engine only)
20	60A**	Auxiliary battery relay (gasoline
		engine only), PDB fuses 8 and 24
21	30A**	PCM power relay, PDB fuse 27
22	60A**	I/P fuses 4, 5, 10, 11, 16, 17, 22
		and 23, Circuit breaker 44
	10A*	Alternator field (diesel engine
23		only)
	20A*	PCM, VMV, HEGO, MAF, EGR,
		(gasoline engine only)
24	20A*	Trailer tow running lamps and
		back-up lamp relays
25		Not used
26	20A*	Trailer tow turn signals

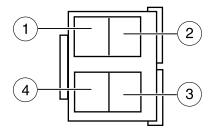
198

https://www.MyCarManual.com

Fuse/Relay Location	Fuse Amp Rating	Power Distribution Box Description	
27	10A*	PCM KAPWR, Canister vent	
		(gasoline engine only)	
28		Not used	
А		Fuel pump relay	
В		Horn relay	
С		Trailer back-up lamps relay	
D		Trailer running lamps relay	
Е	_	Trailer battery charge relay	
F		IDM relay (diesel only), IVD	
		(gasoline only)	
G	_	PCM relay	
Н		Blower motor relay	
J	_	Accessory delay relay	
К		Start relay	
* Mini fuses ** Maxi fuses			

Relay modules

Instrument panel relay module



The instrument panel relay module is located behind the radio in the center of the instrument panel. Have your authorized dealer service this module, if required.

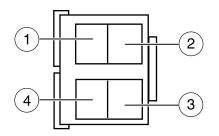
https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 199

The relays are coded as follows:

Relay location	Description
1	Interior lamps
2	Open
3	Open
4	Battery saver

Engine compartment relay module



The engine compartment relay module is located in one of two places depending on which type of engine your vehicle is equipped with:

- Gasoline engine: driver side of the engine compartment above the brake master cylinder.
- Diesel engine: passenger side of the engine compartment behind the power distribution box.

Have your authorized dealer service this module, if required.

The relays are coded as follows:

Relay location	Description	
1	PCM back-up lamp	
2	A/C control	
3	Trailer tow right turn	
4	Trailer tow left turn	

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.

200

https://www.MyCarManual.com

Note: The tire pressure monitoring system (TPMS) indicator light will illuminate when the spare tire is in use. To restore the full functionality of the monitoring system, all road wheels equipped with tire pressure monitoring sensors must be mounted on the vehicle.

Have a flat serviced by an authorized dealer in order to prevent damage to the TPMS sensors, refer to *Tire pressure monitoring system* (*TPMS*) in the *Tires, Wheels and Loading* chapter. Replace the spare tire with a road tire as soon as possible. During repairing or replacing of the flat tire, have the authorized dealer inspect the TPMS sensor for damage.

WARNING: The use of tire sealants may damage your Tire Pressure Monitoring System and should not be used.

WARNING: Refer to *Tire pressure monitoring system (TPMS)* in the *Tires, Wheels and Loading* chapter for important information. If the tire pressure monitor sensor becomes damaged, it will no longer function.

Dissimilar spare tire/wheel information

WARNING: Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

If you have a dissimilar spare tire/wheel, then it is intended for temporary use only. This means that if you need to use it, you should replace it as soon as possible with a road tire/wheel that is the same size and type as the road tires and wheels that were originally provided by Ford. If the dissimilar spare tire or wheel is damaged, it should be replaced rather than repaired.

A dissimilar spare tire/wheel is defined as a spare tire and/or wheel that is different in brand, size or appearance from the road tires and wheels and can be one of three types:

1. **T-type mini-spare:** This spare tire begins with the letter "T" for tire size and may have "Temporary Use Only" molded in the sidewall

2. **Full-size dissimilar spare with label on wheel:** This spare tire has a label on the wheel that states: "THIS TIRE AND WHEEL FOR TEMPORARY USE ONLY"

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 201

When driving with one of the dissimilar spare tires listed above, **do not:**

- Exceed 50 mph (80 km/h)
- Load the vehicle beyond maximum vehicle load rating listed on the Safety Compliance Label
- Tow a trailer
- Use snow chains on the end of the vehicle with the dissimilar spare tire
- Use more than one dissimilar spare tire at a time
- Use commercial car washing equipment
- Try to repair the dissimilar spare tire

Use of one of the dissimilar spare tires listed above at any one wheel location can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability

3. Full-size dissimilar spare without label on wheel

When driving with the full-size dissimilar spare tire/wheel, **do not:**

- Exceed 70 mph (113 km/h)
- Use more than one dissimilar spare tire/wheel at a time
- Use commercial car washing equipment
- Use snow chains on the end of the vehicle with the dissimilar spare tire/wheel

The usage of a full-size dissimilar spare tire/wheel can lead to impairment of the following:

- Handling, stability and braking performance
- Comfort and noise
- Ground clearance and parking at curbs
- Winter weather driving capability
- Wet weather driving capability
- All-Wheel driving capability (if applicable)
- Load leveling adjustment (if applicable)

202

https://www.MyCarManual.com

When driving with the full-size dissimilar spare tire/wheel additional caution should be given to:

- Towing a trailer
- Driving vehicles equipped with a camper body
- Driving vehicles with a load on the cargo rack

Drive cautiously when using a full-size dissimilar spare tire/wheel and seek service as soon as possible.

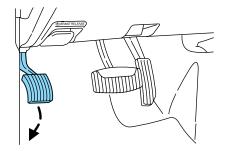
Full-size Matching Spare Tire/Wheel Information

This spare tire/wheel will match the road tire/wheel. When driving with the full size matching spare tire/wheel, do not exceed 70 mph (113 km/h). It is intended for temporary use only. This means if you need to use it, you should replace it as soon as possible.

Stopping and securing your vehicle

- 1. Park on a level surface.
- 2. Activate the warning flashers.
- 3. Place the gearshift in P (Park).

4. Apply the parking brake and turn the engine off.



Spare tire information

The spare tire for your vehicle is stowed under the rear of your vehicle (except cutaway and stripped chassis models).

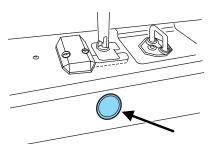
https://www.MyCarManual.com

203

To remove the spare tire:

1. Open the rear doors and remove the thumb screw and anti-theft bracket. If finger pressure will not remove the thumb screw, use the lug wrench to loosen the screw.

2. Remove the access plug under the left door.



3. Remove the jack handle from the right side compartment and insert the tip of the jack handle through the access hole and into the tube.

4. Turn the jack handle counterclockwise until the cable is slack and the tire can be slid from under the vehicle.

5. Remove the retainer from the spare tire.

To stow the cable retainer with the spare removed, turn the jack handle clockwise until all slack is removed.

Tire change procedure

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

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

WARNING: Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to avoid the danger of being hit when operating the jack or changing the wheel.

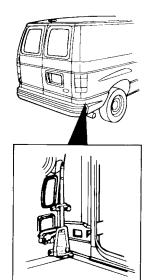
204

https://www.MyCarManual.com

1. Block the wheel that is diagonally opposite the tire you are changing.

On E-450 vehicles, the parking brake is on the transmission. Therefore, the vehicle will not be prevented from moving when a rear wheel is lifted, even if the parking brake is applied. Be sure to block both directions of the wheel that is diagonally opposite to the wheel that is being lifted.

- 2. Remove the spare tire and jack from the storage location.
- the jack is located in the rear right-hand side of the cargo area.



3. Remove any wheel trim. Insert the tapered end of the lug nut wrench behind wheel covers or hubcaps and twist off.

4. Loosen the wheel nut by pulling up on the handle of the lug nut wrench about one-half turn (counterclockwise). Do not remove the wheel lug nuts until you raise the tire off the ground.

Replacing the tire

1. Assemble the jack handle sections together and lock into the jack. Use the jack handle to slide the jack under the vehicle.

205

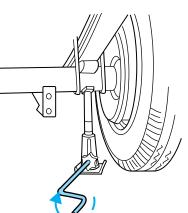
https://www.MyCarManual.com

WARNING: To lessen the risk of personal injury, do not put any part of your body under the vehicle while changing a tire. Do not start the engine when your vehicle is on the jack. The jack is only meant for changing the tire.

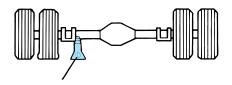
- 2. Position the jack to raise the front or rear wheel.
- Never use the front or rear differential as a jacking point.



Rear axle jacking points - All models except E-350 Dual Rear Wheel (DRW) and E-450:



Rear axle jacking points - E-350 Dual Rear Wheel (DRW) and E-450:



206

https://www.MyCarManual.com

Front axle jacking points:

Place the jack under the **pin** on the front surface of the front axle.

Do not place the jack under or on the steering linkage.

- Raise the jack until the wheel is completely off the ground. (Turn jack handle clockwise if your vehicle is equipped with a screw-type jack or pump the jack if equipped with a hydraulic jack.)
- Remove the lug nuts with the lug nut wrench.
- Replace the flat tire with the spare tire.

If your vehicle has single rear wheels, thread the lug nuts on the studs with the beveled face toward the wheel.

If your vehicle has dual rear wheels, thread the two element swiveling lug nuts on the studs with the flange facing toward the wheel.

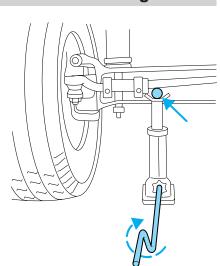
3. Use the lug nut wrench to screw the lug nut snugly against the wheel.

4. Lower the vehicle by turning the jack handle counterclockwise.

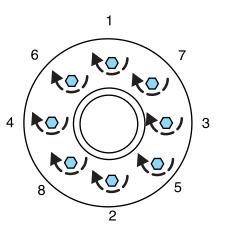
5. Remove the jack and fully tighten the lug nuts in the following pattern (Refer to *Wheel lug nut torque specifications* later in this chapter for the proper lug nut torque specification):



https://www.MyCarManual.com



WARNING: Never use wheels or lug nuts different than the original equipment as this could damage the wheel or mounting system. This damage could allow the wheels to come off while the vehicle is being driven.



6. Install any wheel covers,

ornaments or hub caps. Make sure they are snapped in place.

7. Stow the jack, handle and lug wrench.

8. Unblock the wheels.

Stowing the flat/spare tire

Note: Failure to follow spare tire stowage instructions may result in failure of cable or loss of spare tire.

1. Lay the tire on the ground with the valve stem facing in the direction specified on the Tire Changing Instructions located with the jack hardware.

2. Slide the wheel partially under the vehicle and install the retainer through the wheel center. Pull on the cable to align the components at the end of the cable.

3. Turn the jack handle clockwise until the tire is raised to its stowed position underneath the vehicle. The effort to turn the jack handle increases significantly and the spare tire carrier ratchets or slips when the tire is raised to the maximum tightness. Tighten to the best of your ability, to the point where the ratchet/slip occurs, if possible. The spare tire carrier will not allow you to overtighten. If the spare tire carrier ratchets or slips with little effort, take the vehicle to your authorized dealer for assistance at your earliest convenience.

4. Check that the tire lies flat against the frame and is properly tightened. Try to push or pull, then turn the tire to be sure it will not move. Loosen and retighten, if necessary. Failure to properly stow the spare tire may result in failure of the winch cable and loss of the tire.

208

https://www.MyCarManual.com

5. Repeat this tightness check procedure when servicing the spare tire pressure (every six months, as per your *scheduled maintenance information*), or at any time that the spare tire is disturbed through service of other components.

6. If removed, install the spare tire lock (if equipped) into the bumper drive tube with the spare tire lock key (if equipped) and jack handle.

WHEEL LUG NUT TORQUE SPECIFICATIONS

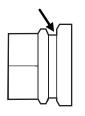
On vehicles equipped with single rear wheels, retighten the lug nuts to the specified torque at 100 miles (160 km) after any wheel disturbance (tire rotation, changing a flat tire, wheel removal, etc.).

On vehicles equipped with dual rear wheels, retighten the wheel lug nuts to the specified torque at 100 miles (160 km), and again at 500 miles (800 km) of new vehicle operation and after any wheel disturbance (tire rotation, changing a flat tire, wheel removal, etc.).

Bolt size and wheel	Wheel lug nut torque*		
lug nut type	lb.ft.	N∙m	
9/16 x 18 conical lug	150	200	
nut			
9/16 x 18 two-piece	140	190	
lug nut			
* Torque specifications are for nut and bolt threads free of dirt and			

rust. Use only Ford recommended replacement fasteners.

On all two-piece flat wheel nuts, apply one drop of motor oil between the flat washer and the nut. Do not apply motor oil to the wheel nut threads or the wheel stud threads.



.

209

https://www.MyCarManual.com

WARNING: When a wheel is installed, always remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Ensure that any fasteners that attach the rotor to the hub are secured so they do not interfere with the mounting surfaces of the wheel. Installing wheels without correct metal-to-metal contact at the wheel mounting surfaces can cause the wheel nuts to loosen and the wheel to come off while the vehicle is in motion, resulting in loss of control.

Note: Inspect the wheel pilot hole prior to installation. If there is visible corrosion in wheel pilot hole, remove loose particles by wiping with clean rag and apply grease. Apply grease only to the wheel pilot hole surface by smearing a "dime" (1 square cm) sized glob of grease around the wheel pilot surface (1) with end of finger. DO NOT apply grease to lugnut/stud holes or wheel-to-brake surfaces.

1

JUMP STARTING YOUR VEHICLE

The following procedure is for vehicles equipped with a gasoline engine; if your vehicle is equipped with a diesel engine, refer to the 6.0 and 6.4 Liter Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement for the proper jump starting procedure.

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

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

Do not attempt to push-start your automatic transmission vehicle. Automatic transmissions do not have push-start capability. Attempting to push-start a vehicle with an automatic transmission may cause transmission damage.

210

https://www.MyCarManual.com

Preparing your vehicle

When the battery is disconnected or a new battery is installed, the automatic 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.

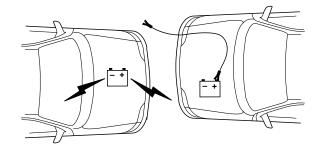
2. Do not disconnect the battery of the disabled vehicle as this could damage the vehicle's electrical system.

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 from any electrical surges. Turn all other accessories off.

Connecting the jumper cables

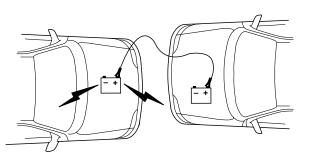


1. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.

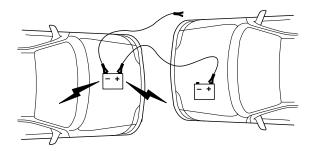
Note: In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.

https://www.MyCarManual.com

211



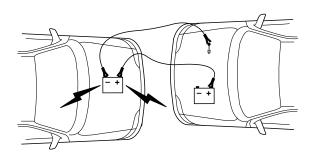
2. Connect the other end of the positive (+) cable to the positive (+) terminal of the assisting battery.



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

212

https://www.MyCarManual.com



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.

WARNING: Do not connect the end of the second cable to the negative (-) terminal of the battery to be jumped. A spark may cause an explosion of the gases that surround the battery.

5. Ensure that the cables are clear of fan blades, belts, moving parts of both engines, or any fuel delivery system parts.

Jump starting

1. Start the engine of the booster vehicle and run the engine at moderately increased speed.

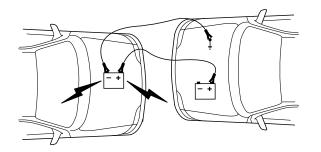
2. Start the engine of the disabled vehicle.

3. Once the disabled vehicle has been started, run both engines for an additional three minutes before disconnecting the jumper cables.

https://www.MyCarManual.com

213

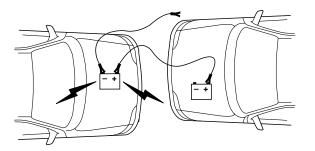
Removing the jumper cables



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

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

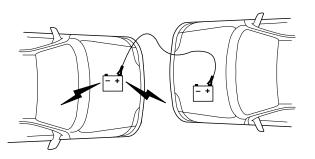
Note: In the illustrations, *lightning bolts* are used to designate the assisting (boosting) battery.



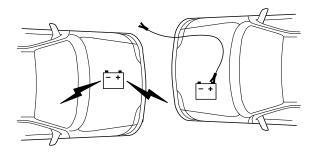
2. Remove the jumper cable on the negative (-) connection of the booster vehicle's battery.

214

https://www.MyCarManual.com



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

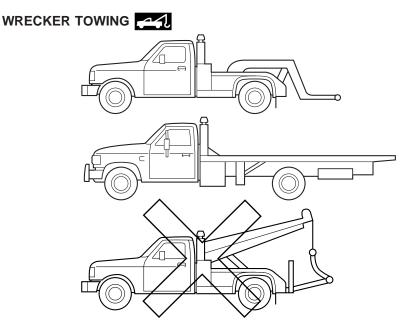


4. Remove the jumper cable from the positive (+) terminal of the disabled vehicle's battery.

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.



215



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.

Ford recommends your vehicle be towed with a wheel lift or flatbed. Do not tow with a slingbelt. Ford Motor Company has not approved a slingbelt towing procedure.

If your vehicle is equipped with an air dam and must be towed from the front, it is recommended that your vehicle be towed by wheel lift or flatbed equipment to prevent damage to the air dam.

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.

216

https://www.MyCarManual.com

Roadside Emergencies

Emergency towing

In case of a roadside emergency with a disabled vehicle (without access to wheel dollies, car hauling trailer, or flatbed transport vehicle) your vehicle (regardless of transmission powertrain configuration) can be flat towed (all wheels on the ground) under the following conditions:

- Vehicle is facing forward so that it is being towed in a forward direction.
- Place the transmission in N (Neutral). Refer to *Brake shift interlock* in the *Driving* chapter for specific instructions if you cannot move the gear shift lever into N (Neutral).
- Maximum speed is not to exceed 35 mph (56 km/h).
- Maximum distance is 50 miles (80 km).

https://www.MyCarManual.com

217

GETTING THE SERVICES YOU NEED

At home

You must take your Ford vehicle to an authorized dealer for warranty repairs. While any authorized dealer handling your vehicle line will provide warranty service, we recommend you return to your selling authorized dealer who wants to ensure your continued satisfaction. Please note that certain warranty repairs require special training and/or equipment, so not all authorized dealers are authorized to perform all warranty repairs. This means that, depending on the warranty repair needed, you may have to take your vehicle to another authorized dealer. A reasonable time must be allowed to perform a repair after taking your vehicle to the authorized dealer. Repairs will be made using Ford or Motorcraft parts, or remanufactured or other parts that are authorized by Ford.

If you have questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

1. Contact your Sales Representative or Service Advisor at your selling/servicing authorized dealer.

2. If your inquiry or concern remains unresolved, contact the Sales Manager, Service Manager or Customer Relations Manager.

3. If you require assistance or clarification on Ford Motor Company policies or procedures, please contact the Ford Customer Relationship Center at 1-800-392-3673 (FORD).

Away from home

If you own a Ford or Mercury vehicle and are away from home when your vehicle needs service, or if you need more help than the authorized dealer could provide, after following the steps described above, contact the Ford Customer Relationship Center to find an authorized dealer to help you.

In the United States:

Ford Motor Company Customer Relationship Center P.O. Box 6248 Dearborn, MI 48121 1-800-392-3673 (FORD) (TDD for the hearing impaired: 1-800-232-5952) www.customersaskford.com

218

https://www.MyCarManual.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

Away from home-motorhome service

If you own a motorhome built on a Ford Chassis and are away from home when your vehicle needs service, or if you need more help than the authorized dealer could provide, after following the steps above, contact the Ford Motorhome Customer Assistance Center to find an authorized dealer or service location to help you. In the United States and Canada:

Ford Motorhome Customer Assistance Center 900 N. Lake Havasu Avenue Lake Havasu City, AZ 86403 1-800-444-3311 Open 365/24/7

In order to help service your motorhome vehicle, please have the following information available when contacting the Motorhome Customer Assistance Center:

- telephone number where you can be reached
- vehicle location (city and state)
- year and make of your vehicle
- date of vehicle purchase
- current odometer reading
- vehicle identification number (VIN)

Additional Assistance

If you still have a complaint involving a warranty dispute, you may wish to contact the Better Business Bureau (BBB) AUTO LINE program (U.S. only).

In some states (in the U.S.) you must directly notify Ford in writing before pursuing remedies under your state's warranty laws. Ford is also allowed a final repair attempt in some states.

https://www.MyCarManual.com

219

In the United States, a warranty dispute must be submitted to the BBB AUTO LINE before taking action under the Magnuson-Moss Warranty Act, or to the extent allowed by state law, before pursuing replacement or repurchase remedies provided by certain state laws. This dispute handling procedure is not required prior to enforcing state created rights or other rights which are independent of the Magnuson-Moss Warranty Act or state replacement or repurchase laws.

IN CALIFORNIA (U.S. ONLY)

California Civil Code Section 1793.2(d) requires that, if a manufacturer or its representative is unable to repair a motor vehicle to conform to the vehicle's applicable express warranty after a reasonable number of attempts, the manufacturer shall be required to either replace the vehicle with one substantially identical or repurchase the vehicle and reimburse the buyer in an amount equal to the actual price paid or payable by the consumer (less a reasonable allowance for consumer use). The consumer has the right to choose whether to receive a refund or replacement vehicle.

California Civil Code Section 1793.22(b) presumes that the manufacturer has had a reasonable number of attempts to conform the vehicle to its applicable express warranties if, within the first 18 months of ownership of a new vehicle or the first 18,000 miles (29,000 km), whichever occurs first:

1. Two or more repair attempts are made on the same non-conformity likely to cause death or serious bodily injury OR

2. Four or more repair attempts are made on the same nonconformity (a defect or condition that substantially impairs the use, value or safety of the vehicle) OR

3. The vehicle is out of service for repair of nonconformities for a total of more than 30 calendar days (not necessarily all at one time)

In the case of 1 or 2 above, the consumer must also notify the manufacturer of the need for the repair of the nonconformity at the following address:

Ford Motor Company 16800 Executive Plaza Drive Mail Drop 3NE-B Dearborn, MI 48126

220

https://www.MyCarManual.com

THE BETTER BUSINESS BUREAU (BBB) AUTO LINE PROGRAM (U.S. ONLY)

Your satisfaction is important to Ford Motor Company and to your dealer. Experience has shown that our customers have been very successful in achieving satisfaction by following the three-step procedure outlined on the front page of the Warranty Guide. However, if your warranty concern has not been resolved using the three-step procedure, you may be eligible to participate in the BBB AUTO LINE program.

The BBB AUTO LINE program consists of two parts - mediation and arbitration. Initially, the BBB will try to resolve your question or concern through mediation. Mediation is a process through which a representative of the BBB will contact the parties and explore options for settlement of your claim. If mediation is not successful, customers with eligible claims may participate in the BBB AUTO LINE arbitration process. An arbitration hearing will be scheduled so that you can present your case in an informal setting before an impartial person. The arbitrator will consider the testimony provided and make a decision after the hearing. You are not bound by the decision but may choose to accept it. If you choose to accept the BBB AUTO LINE decision then Ford must abide by the accepted decision as well. If the arbitrator has decided in your favor and you accept the decision, the BBB AUTO LINE program will contact you to ensure that Ford has complied with the decision in a timely manner. Disputes submitted to the BBB AUTO LINE program are usually decided within forty days after you file your claim with the BBB.

To initiate a claim with the BBB AUTO LINE, you will be asked for your name and address, general information about your new vehicle, information about your warranty concerns and any steps you have already taken to try to resolve them. You will then be mailed a Customer Claim Form that you will need to complete, provide proof of vehicle ownership, sign and return the Customer Claim Form to the BBB. Upon receipt, the BBB will review the claim for eligibility under the Program Summary Guidelines.

You can get more information by calling BBB AUTO LINE at 1–800–955–5100, or writing to:

BBB AUTO LINE 4200 Wilson Boulevard, Suite 800 Arlington, Virginia 22203–1833

Note: Ford Motor Company reserves the right to change eligibility limitations, modify procedures, or to discontinue this process at any time without notice and without obligation.

221

https://www.MyCarManual.com

UTILIZING THE MEDIATION/ARBITRATION PROGRAM (CANADA ONLY)

For vehicles delivered to authorized Canadian dealers. In those cases where you continue to feel that the efforts by Ford of Canada and the authorized dealer to resolve a factory-related vehicle service concern have been unsatisfactory, Ford of Canada participates in an impartial third party mediation/arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The CAMVAP program is a straight-forward and relatively speedy alternative to resolve a disagreement when all other efforts to produce a settlement have failed. This procedure is without cost to you and is designed to eliminate the need for lengthy and expensive legal proceedings.

In the CAMVAP program, impartial third-party arbitrators conduct hearings at mutually convenient times and places in an informal environment. These impartial arbitrators review the positions of the parties, make decisions and, when appropriate, render awards to resolve disputes. CAMVAP decisions are fast, fair, and final as the arbitrator's award is binding both to you and Ford of Canada.

CAMVAP services are available in all territories and provinces. For more information, without charge or obligation, call your CAMVAP Provincial Administrator directly at 1-800-207-0685.

FORD EXTENDED SERVICE PLAN

You can get more protection for your new car or light truck by purchasing Ford Extended Service Plan (Ford ESP) coverage. It provides the following:

- Benefits during the warranty period depending on the plan you purchase (such as: reimbursement for rentals; coverage for certain maintenance and wear items).
- Protection against covered repair costs after your Bumper-to-Bumper Warranty expires.

You may purchase Ford ESP from any participating authorized dealer. There are several plans available in various time, distance and deductible combinations which can be tailored to fit your own driving needs. Ford ESP also offers reimbursement benefits for towing and rental coverage.

When you buy Ford ESP, you receive Peace-of-Mind protection throughout the United States and Canada, provided by a network of more than 4,600 participating authorized dealers.

222

https://www.MyCarManual.com

If you did not take advantage of the Ford Extended Service Plan at the time of purchasing your vehicle, you may still be eligible. Since this information is subject to change, please ask your authorized dealer for complete details about Ford Extended Service Plan coverage options, or visit the Ford ESP website at www.ford-esp.com.

GETTING ASSISTANCE OUTSIDE THE U.S. AND CANADA

Before exporting your vehicle to a foreign country, contact the appropriate foreign embassy or consulate. These officials can inform you of local vehicle registration regulations and where to find unleaded fuel.

If you cannot find unleaded fuel or can only get fuel with an anti-knock index lower than is recommended for your vehicle, contact a regional office or owner relations/customer relationship office.

The use of leaded fuel in your vehicle without proper conversion may damage the effectiveness of your emission control system and may cause engine knocking or serious engine damage. Ford Motor Company/Ford of Canada is not responsible for any damage caused by use of improper fuel. Using leaded fuel may also result in difficulty importing your vehicle back into the U.S.

If your vehicle must be serviced while you are traveling or living in Central America, the Caribbean, or the Middle East, contact the nearest authorized dealer. If the authorized dealer cannot help you, contact:

FORD MOTOR COMPANY FORD EXPORT OPERATIONS 1555 Fairlane Drive Fairlane Business Park #3 Allen Park, Michigan 48101 U.S.A. Telephone: (313) 594-4857 FAX: (313) 390-0804 Email: expcac@ford.com

If you are in another foreign country, contact the nearest authorized dealer. If the authorized dealer employees cannot help you, they can direct you to the nearest Ford affiliate office.

If you buy your vehicle in North America and then relocate outside of the U.S. or Canada, register your vehicle identification number (VIN) and new address with Ford Motor Company Export Operations.

Customers in the U.S. should call 1-800-392-3673.

223

https://www.MyCarManual.com

ORDERING ADDITIONAL OWNER'S LITERATURE

To order the publications in this portfolio, contact Helm, Incorporated at:

HELM, INCORPORATED P.O. Box 07150 Detroit, Michigan 48207 Or call:

For a free publication catalog, order toll free: 1-800-782-4356

Monday-Friday 8:00 a.m. - 6:00 p.m. EST

Helm, Incorporated can also be reached by their website: www.helminc.com.

(Items in this catalog may be purchased by credit card, check or money order.)

Obtaining a French owner's guide

French Owner's Guides can be obtained from your authorized dealer or by writing to: Ford Motor Company of Canada, Limited Service Publications CHQ202 The Canadian Road P.O. Box 2000 Oakville, ON, Canada L6J 5E4

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 (NUTSA) in addition



National Highway Traffic Safety Administration (NHTSA) in addition to notifying Ford Motor Company.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ford Motor Company.

224

https://www.MyCarManual.com

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1–888–327–4236 (TTY: 1–800–424–9153); go to *http://www.safercar.gov*; or write to:

Administrator 1200 New Jersey Avenue, Southeast Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from *http://www.safercar.gov.*

REPORTING SAFETY DEFECTS (CANADA 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 Transport Canada, using their toll-free number: 1–800–333–0510.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 225

WASHING THE EXTERIOR

Wash your vehicle regularly with cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash (ZC-3-A), which is available from your authorized dealer.

- Never use strong household detergents or soap, such as dish washing or laundry liquid. These products can discolor and spot painted surfaces.
- Never wash a vehicle that is "hot to the touch" or during exposure to strong, direct sunlight.
- Always use a clean sponge or car wash mitt with plenty of water for best results.
- Dry the vehicle with a chamois or soft terry cloth towel in order to eliminate water spotting.
- It is especially important to wash the vehicle regularly during the winter months, as dirt and road salt are difficult to remove and cause damage to the vehicle.
- Immediately remove items such as gasoline, diesel fuel, bird droppings and insect deposits because they can cause damage to the vehicle's paintwork and trim over time. Use Bug and Tar Remover (ZC-42), which is available from your authorized dealer.
- Remove any exterior accessories, such as antennas, before entering a car wash.
- Suntan lotions and insect repellents can damage any painted surface; if these substances come in contact with your vehicle, wash off as soon as possible.
- If your vehicle is equipped with running boards, do not use rubber, plastic and vinyl protectant products on the running board surface, as the area may become slippery.

Exterior chrome

- Wash the vehicle first, using cool or lukewarm water and a neutral pH shampoo, such as Motorcraft Detail Wash (ZC-3-A).
- Use Custom Bright Metal Cleaner (ZC-15), available from your authorized dealer. Apply the product as you would a wax to clean bumpers and other chrome parts; allow the cleaner to dry for a few minutes, then wipe off the haze with a clean, dry rag.
- Never use abrasive materials such as steel wool or plastic pads as they can scratch the chrome surface.

226

https://www.MyCarManual.com

• After polishing chrome bumpers, apply a coating of Motorcraft Premium Liquid Wax (ZC-53-A), available from your authorized dealer, or an equivalent quality product to help protect from environmental effects.

WAXING

- Wash the vehicle first.
- Do not use waxes that contain abrasives; use Motorcraft Premium Liquid Wax (ZC-53-A), which is available from your authorized dealer, or an equivalent quality product.
- Do not allow paint sealant to come in contact with any non-body (low-gloss black) colored trim, such as grained door handles, roof racks, bumpers, side moldings, mirror housings or the windshield cowl area. The paint sealant will "gray" or stain the parts over time.
- Do not allow paint sealant to come in contact with the sliding door electrical contact switches. Paint sealant or other contaminants could interfere with the proper operation of the power locks or radio speakers. If necessary, clean the contacts with Motorcraft Bug and Tar Remover (ZC-42) to remove any sealant. Do not use any abrasives on the contact surfaces.

PAINT CHIPS

Your authorized dealer has touch-up paint to match your vehicle's color. Take your color code (printed on a sticker in the driver's door jamb) to your authorized dealer to ensure you get the correct color.

- Remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout before repairing paint chips.
- Always read the instructions before using the products.

ALUMINUM WHEELS AND WHEEL COVERS

Aluminum wheels and wheel covers are coated with a clearcoat paint finish. In order to maintain their shine:

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

227

https://www.MyCarManual.com

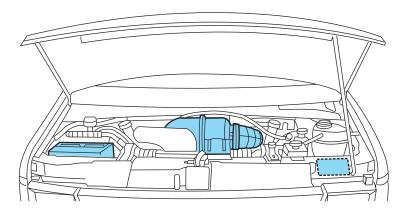
- Some automatic car washes may cause damage to the finish on your wheel rims or covers. Chemical-strength cleaners, or cleaning chemicals, in combination with brush agitation to remove brake dust and dirt, could wear away the clearcoat finish over time.
- Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergent.
- To remove tar and grease, use Motorcraft Bug and Tar Remover (ZC-42), available from your authorized dealer.

ENGINE

228

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. In Canada use Motorcraft Engine Shampoo (CXC-66-A).



- 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.

https://www.MyCarManual.com

PLASTIC (NON-PAINTED) EXTERIOR PARTS

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

- For routine cleaning, use Motorcraft Detail Wash (ZC-3-A).
- If tar or grease spots are present, use Motorcraft Bug and Tar Remover (ZC-42).
- For plastic headlamp lenses, use Motorcraft Ultra Clear Spray Glass Cleaner (ZC-23).

WINDOWS AND WIPER BLADES

The windshield, rear and side windows and the wiper blades should be cleaned regularly. If the wipers do not wipe properly, substances on the vehicle's glass or the wiper blades may be the cause. These may include hot wax treatments used by commercial car washes, water repellent coatings, tree sap, or other organic contamination; these contaminants may cause squeaking or chatter noise from the blades, and streaking and smearing of the windshield. To clean these items, follow these tips:

- The windshield, rear windows and side windows may be cleaned with a non-abrasive cleaner such as Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23), available from your authorized dealer.
- The wiper blades can be cleaned with isopropyl (rubbing) alcohol or Motorcraft Premium Windshield Washer Concentrate (ZC-32-A), available from your authorized dealer. This washer fluid contains special solution in addition to alcohol which helps to remove the hot wax deposited on the wiper blade and windshield from automated car wash facilities. Be sure to replace wiper blades when they appear worn or do not function properly.
- Do not use abrasives, as they may cause scratches.
- Do not use fuel, kerosene, or paint thinner to clean any parts.

If you cannot remove those streaks after cleaning with the glass cleaner or if the wipers chatter and move in a jerky motion, clean the outer surface of the windshield and the wiper blades using a sponge or soft cloth with a neutral detergent or mild-abrasive cleaning solution. After cleaning, rinse the windshield and wiper blades with clean water. The windshield is clean if beads do not form when you rinse the windshield with water.

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 229

INSTRUMENT PANEL/INTERIOR TRIM AND CLUSTER LENS

Clean the instrument panel, interior trim areas and cluster lens with a clean and damp white cotton cloth, then with a clean and dry white cotton cloth; you may also use Motorcraft Dash & Vinyl Cleaner (ZC-38-A) on the instrument panel and interior trim areas.

- Avoid cleaners or polishes 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.
- 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.
- Do not use household or glass cleaners as these may damage the finish of the instrument panel, interior trim and cluster lens.

WARNING: Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.

If a staining liquid like coffee/juice has been spilled on the instrument panel or on interior trim surfaces, clean as follows:

1. Wipe up spilled liquid using a clean, white, cotton cloth.

2. Apply Motorcraft Deluxe Leather and Vinyl Cleaner (ZC-11-A) [In Canada use Motorcraft Multi-Purpose Cleaner (CXC-101)] to the wiped area and spread around evenly.

3. Apply more Motorcraft cleaner to a clean, white, cotton cloth and press the cloth onto the soiled area–allow this to set at room temperature for 30 minutes.

4. Remove the soaked cloth, and if it is not soiled badly, use this cloth to clean the area by using a rubbing motion for 60 seconds.

5. Following this, wipe area dry with a clean, white, cotton cloth.

INTERIOR

For fabric, carpets, cloth seats and safety belts:

- Remove dust and loose dirt with a vacuum cleaner.
- Remove light stains and soil with Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54).
- If grease or tar is present on the material, spot-clean the area first with Motorcraft Spot and Stain Remover (ZC-14). In Canada, use Motorcraft Multi-Purpose Cleaner (CXC-101).

230

https://www.MyCarManual.com

- If a ring forms on the fabric after spot cleaning, clean the entire area immediately (but do not oversaturate) or the ring will set.
- Do not use household cleaning products or glass cleaners, which can stain and discolor the fabric and affect the flame retardant abilities of the seat materials.

WARNING: Do not use cleaning solvents, bleach or dye on the vehicle's seatbelts, as these actions may weaken the belt webbing.

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). In Canada, use Motorcraft Vinyl Cleaner (CXC-93). 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. In Canada, use Motorcraft Vinyl Cleaner (CXC-93) or an equivalent high-quality leather care product.
- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing of the clear, protective coating.

Note: In some instances, color or dye transfer can occur when wet clothing comes in contact with leather upholstery. If this occurs, the leather should be cleaned immediately to avoid permanent staining.

UNDERBODY

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

https://www.MyCarManual.com

231

FORD AND LINCOLN MERCURY CAR CARE PRODUCTS

Your Ford or Lincoln Mercury authorized dealer has many quality products available to clean your vehicle and protect its finishes. These quality products have been specifically engineered to fulfill your automotive needs; they are custom designed to complement the style and appearance of your vehicle. Each product is made from high quality materials that meet or exceed rigid specifications. For best results, use the following products or products of equivalent quality: Motorcraft Bug and Tar Remover (ZC-42)

Motorcraft Car Wash (Canada only) (CXC-21) Motorcraft Custom Bright Metal Cleaner (ZC-15) Motorcraft Custom Clear Coat Polish (ZC-8-A) Motorcraft Custom Vinyl Protectant (ZC-40-A) Motorcraft Dash and Vinyl Cleaner (ZC-38-A) Motorcraft Deluxe Leather and Vinyl Cleaner (U.S. only) (ZC-11-A) Motorcraft Leather Care Kit (U.S. only) (ZC-11-D) Motorcraft Detail Wash (ZC-3-A) Motorcraft Dusting Cloth (ZC-24) Motorcraft Engine Shampoo and Degreaser (U.S. only) (ZC-20) Motorcraft Engine Shampoo (Canada only) (CXC-66-A) Motorcraft Multi-Purpose Cleaner (Canada only) (CXC-101) Motorcraft Premium Glass Cleaner (Canada only) (CXC-100) Motorcraft Premium Liquid Wax (ZC-53-A) Motorcraft Premium Windshield Washer Concentrate (U.S. only) (ZC-32-A) Motorcraft Professional Strength Carpet & Upholstery Cleaner (ZC-54) Motorcraft Spot and Stain Remover (U.S. only) (ZC-14) Motorcraft Tire Clean and Shine (ZC-28) Motorcraft Triple Clean (U.S. only) (ZC-13) Motorcraft Ultra-Clear Spray Glass Cleaner (ZC-23) Motorcraft Vinyl Cleaner (Canada only) (CXC-93) Motorcraft Wash and Wax (Canada only) (CXC-95) Motorcraft Wheel and Tire Cleaner (ZC-37-A)

232

https://www.MyCarManual.com

SERVICE RECOMMENDATIONS

To help you service your vehicle, we provide *scheduled maintenance information* which makes tracking routine service easy.

If your vehicle requires professional service, your authorized dealer can provide the necessary parts and service. Check your *Warranty Guide/Customer 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 ensure the gearshift is securely latched in P (Park).

- 2. Turn off the engine and remove the key.
- 3. Block the wheels to prevent the vehicle from moving unexpectedly.

https://www.MyCarManual.com

233

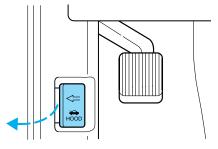
Working with the engine on

- 1. Set the parking brake and shift to P (Park).
- 2. Block the wheels.

WARNING: To reduce the risk of vehicle damage and/or personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

OPENING THE HOOD

1. Inside the vehicle, pull the hood release handle located under the bottom left corner of the instrument panel.



2. Go to the front of the vehicle and push the auxiliary latch, located in the center top of the grill, to the left to release the hood.3. Lift the hood and secure it with the prop rod.

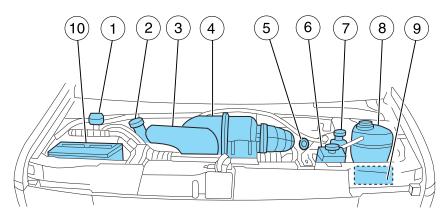
234

https://www.MyCarManual.com

IDENTIFYING COMPONENTS IN THE ENGINE COMPARTMENT

Engine compartment component locations

Refer to the 6.0L and 6.4L Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement for diesel engine component locations.



- 1. Windshield washer fluid reservoir
- 2. Engine oil filler cap
- 3. Automatic transmission fluid dipstick
- 4. Air filter assembly
- 5. Engine oil dipstick
- 6. Power steering fluid reservoir
- 7. Brake fluid reservoir
- 8. Engine coolant reservoir
- 9. Power distribution box
- 10. Battery

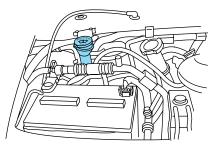
https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 235

WINDSHIELD WASHER FLUID 💮

Add fluid to fill the reservoir if the level is low. In very cold weather, do not fill the reservoir completely.

Only use a washer fluid that meets Ford specification WSB-M8B16-A2. Do not use any special washer fluid such as windshield water repellent type fluid or bug wash. They may cause squeaking, chatter noise, streaking and smearing. Refer to the *Maintenance product*



specifications and capacities section 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.

WARNING: If you operate your vehicle in temperatures below 40°F (5°C), use washer fluid with antifreeze protection. Failure to use washer fluid with antifreeze protection in cold weather could result in impaired windshield vision and increase the risk of injury or accident.

Note: Do not put washer fluid in the engine coolant reservoir. Washer fluid placed in the cooling system may harm engine and cooling system components.

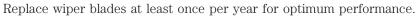
236

https://www.MyCarManual.com

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.



Poor wiper quality can be improved by cleaning the wiper blades and the windshield, refer to *Windows and wiper blades* in the *Cleaning* chapter.

To prolong the life of the wiper blades, it is highly recommended to scrape off the ice on the windshield before turning on the wipers. The layer of ice has many sharp edges and can damage the micro edge of the wiper rubber element.

ENGINE OIL

Checking the engine oil

Refer to the *scheduled maintenance information* for the appropriate intervals for checking the engine oil.

1. Make sure the vehicle is on level ground.

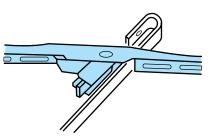
2. Turn the engine off and wait a few minutes for the oil to drain into the oil pan.

3. Set the parking brake and ensure the gearshift is securely latched in P (Park).

4. Open the hood. Protect yourself from engine heat.

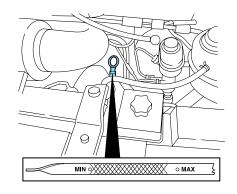
https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

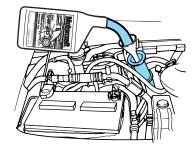


237

5. Locate and carefully remove the engine oil level dipstick.



- 6. Wipe the dipstick clean. Insert the dipstick fully, then remove it again.
- If the oil level is **between the lower and upper holes or between the MIN and MAX marks (depending on application),** the oil level is acceptable. **DO NOT ADD OIL.**
- If the oil level is below the lower hole or the MIN mark, add enough oil to raise the level within the lower and upper holes or within the MIN-MAX range.



- Oil levels above the upper hole or the MAX mark may cause engine damage. Some oil must be removed from the engine by an authorized dealer.
- 7. Put the dipstick back in and ensure it is fully seated.

Adding engine oil

1. Check the engine oil. For instructions, refer to *Checking the engine* oil in this chapter.

2. If the engine oil level is not within the normal range, add only certified engine oil of the recommended viscosity. Remove the engine oil filler cap and use a funnel to pour the engine oil into the opening.

238

https://www.MyCarManual.com

3. Recheck the engine oil level. Make sure the oil level is not above the normal operating range on the engine oil level dipstick.

4. Install the dipstick and ensure it is fully seated.

5. Fully install the engine oil filler cap by turning the filler cap clockwise 1/4 of a turn until three clicks are heard or until the cap is fully seated.

To avoid possible oil loss, DO NOT operate the vehicle with the engine oil level dipstick and/or the engine oil filler cap removed.

Engine oil and filter recommendations

Look for this certification trademark.



Use SAE 5W-20 engine oil

Only use oils "Certified For Gasoline Engines" by the American Petroleum Institute (API). An oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

To protect your engine's warranty, use Motorcraft SAE 5W-20 or an equivalent SAE 5W-20 oil meeting Ford specification WSS-M2C930-A. **SAE 5W-20 oil provides optimum fuel economy and durability performance meeting all requirements for your vehicle's engine.**

Do not use supplemental engine oil additives, cleaners or other engine treatments. They are unnecessary and could lead to engine damage that is not covered by Ford warranty.

Change your engine oil and filter according to the appropriate schedule listed in the *scheduled maintenance information*.

239

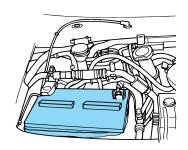
https://www.MyCarManual.com

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 with equivalent performance for your engine application.

BATTERY -+

Your vehicle is equipped with a Motorcraft maintenance-free battery which normally does not require additional water during its life of service.



WARNING: This vehicle may be equipped with more than one battery, removal of cable from only one battery does not disconnect the vehicle electrical system. Be sure to disconnect cables from all batteries when disconnecting power. Failure to do so may cause serious personal injury or property damage.

If your battery has a cover/shield, make sure it is reinstalled after the battery has been cleaned or replaced.

For longer, trouble-free operation, keep the top of the battery clean and dry. Also, make certain the battery cables are always tightly fastened to the battery terminals.

If you see any corrosion on the battery or terminals, remove the cables from the terminals and clean with a wire brush. You can neutralize the acid with a solution of baking soda and water.

When the battery is disconnected or a new battery installed, the transmission must learn its adaptive strategy. As a result of this, the transmission may shift firmly. This operation is considered normal and will fully update transmission operation to its optimum shift feel.

Note: Electrical or electronic accessories or components added to the vehicle by the dealer or the owner may adversely affect battery performance and durability.

240

https://www.MyCarManual.com

It is recommended that the negative battery cable terminal be disconnected from the battery if you plan to store your vehicle for an extended period of time. This will minimize the discharge of your battery during storage.

WARNING: 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.

WARNING: 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.

WARNING: 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.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling**.

For information on transmission operation after the battery has been disconnected, refer to *Automatic transmission operation* in the *Driving* chapter.

Auxiliary battery (if equipped)

Your vehicle may be equipped with a frame-mounted auxiliary battery located on the passenger side frame rail, behind the front passenger door. This auxiliary battery is connected to the auxiliary battery relay, so it is not used to start the vehicle.

https://www.MyCarManual.com

241

Battery relearn

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. Flexible fuel vehicles (FFV) must also relearn the ethanol content of the fuel 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 10 miles (16 km) or more to relearn the idle and fuel trim strategy along with the ethanol content for flexible fuel vehicles.
- 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.
- For flexible fuel vehicles, if you are operating on E85, you may experience poor starts or an inability to start the engine and driveability problems until the fuel trim and ethanol content have been 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.

242

https://www.MyCarManual.com

• Always dispose of automotive batteries in a responsible manner. Follow your local authorized standards for disposal. Call your local authorized recycling center to find out more about recycling automotive batteries.



ENGINE COOLANT

Checking engine coolant

The concentration and level of engine coolant should be checked at the intervals listed in *scheduled maintenance information*. The coolant concentration should be maintained at 50/50 coolant and distilled water, which equates to a freeze point of -34° F (-36° C). Coolant concentration testing is possible with a hydrometer or antifreeze tester (such as the Rotunda Battery and Antifreeze Tester, 014–R1060). The level of coolant should be maintained at the "FULL COLD" level or within the "COLD FILL RANGE" in the coolant reservoir. If the level falls below, add coolant per the instructions in the *Adding engine coolant* section.

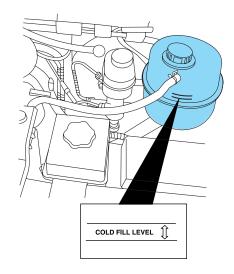
Your vehicle was factory-filled with a 50/50 engine coolant and water concentration. If the concentration of coolant falls below 40% or above 60%, the engine parts could become damaged or not work properly. **A 50/50 mixture of coolant and water provides the following:**

- Freeze protection down to -34°F (-36°C).
- Boiling protection up to 265°F (129°C)
- Protection against rust and other forms of corrosion.
- Enables calibrated gauges to work properly.

https://www.MyCarManual.com

243

When the engine is cold, check the level of the engine coolant in the reservoir.



- The engine coolant should be at the "FULL COLD" level or within the "COLD FILL RANGE" as listed on the engine coolant reservoir (depending upon application).
- Refer to *scheduled maintenance information* for service interval schedules.
- Be sure to read and understand *Precautions when servicing your vehicle* in this chapter.

If the engine coolant has not been checked at the recommended interval, the engine coolant reservoir may become low or empty. If the reservoir is low or empty, add engine coolant to the reservoir. Refer to *Adding engine coolant* in this chapter.

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. **When the engine is cool,** add the mixture to the coolant reservoir until the appropriate fill level is obtained.

244

https://www.MyCarManual.com

WARNING: 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.

WARNING: 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 or equivalent meeting Ford specification WSS-M97B51-A1. Refer to Maintenance product specifications and capacities in this chapter.

Note: Use of Motorcraft Cooling System Stop Leak Pellets or an equivalent product meeting Ford specification WSS-M99B37-B6, may darken the color of Motorcraft Premium Gold Engine Coolant from yellow to golden tan.

- Do not add/mix an orange-colored, extended life coolant such as Motorcraft Specialty Orange Engine Coolant, meeting Ford specification WSS-M97B44-D, or DEX-COOL[®] brand with the factory-filled coolant. Mixing Motorcraft Specialty Orange Engine Coolant or any orange-colored extended life product such as DEX-COOL[®] brand 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

245

https://www.MyCarManual.com

water to the "FULL COLD" level. For all other vehicles which have a coolant degas system with a pressurized cap, or if it is necessary to remove the coolant pressure relief cap on the radiator of a vehicle with an overflow system, follow these steps to add engine coolant.

WARNING: 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.

Add the proper mixture of coolant and water to the cooling system by following these steps:

1. Before you begin, turn the engine off and let it cool.

2. When the engine is cool, wrap a thick cloth around the coolant pressure relief cap on the coolant reservoir (a translucent plastic bottle). Slowly turn cap counterclockwise (left) until pressure begins to release.

3. Step back while the pressure releases.

4. When you are sure that all the pressure has been released, use the cloth to turn it counterclockwise and remove the cap.

5. Fill the coolant reservoir slowly with the proper coolant mixture, to within the "COLD FILL RANGE" or the "FULL COLD" level on the reservoir. If you removed the radiator cap in an overflow system, fill the radiator until the coolant is visible and radiator is almost full.

6. Replace the cap. Turn until tightly installed. Cap must be tightly installed to prevent coolant loss.

After any coolant has been added, check the coolant concentration (refer to *Checking engine coolant*). If the concentration is not 50/50 (protection to -34° F/ -36° C), drain some coolant and adjust the concentration. It may take several drains and additions to obtain a 50/50 coolant concentration.

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you drive the vehicle. If necessary, add enough 50/50 concentration of engine coolant and distilled water to bring the liquid level to the proper level.

If you have to add more than 1.0 quart (1.0 liter) of engine coolant per month, have your authorized dealer check the engine cooling system. Your cooling system may have a leak. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

246

https://www.MyCarManual.com

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 *Maintenance product specifications and capacities* in this chapter. Fill your engine coolant reservoir as outlined in *Adding engine coolant* in this section.

Severe climates

If you drive in extremely cold climates (less than $-34^{\circ}F$ [$-36^{\circ}C$]):

- It may be necessary to increase the coolant concentration above 50%.
- NEVER increase the coolant concentration above 60%.
- Increased engine coolant concentrations above 60% will decrease the overheat protection characteristics of the engine coolant and may cause engine damage.
- Refer to the chart on the coolant container to ensure the coolant concentration in your vehicle will provide adequate freeze protection at the temperatures in which you drive in the winter months.

If you drive in extremely hot climates:

- It is still necessary to maintain the coolant concentration above 40%.
- NEVER decrease the coolant concentration below 40%.
- Decreased engine coolant concentrations below 40% will decrease the corrosion protection characteristics of the engine coolant and may cause engine damage.
- Decreased engine coolant concentrations below 40% will decrease the freeze protection characteristics of the engine coolant and may cause engine damage.
- 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.

247

https://www.MyCarManual.com

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 equipped)

If the engine coolant supply is depleted, this feature allows the vehicle to be driven temporarily before incremental component damage is incurred. The "fail-safe" distance depends on ambient temperatures, vehicle load and terrain.

How fail-safe cooling works

If the engine begins to overheat:

- The engine coolant temperature gauge will move to the red (hot) area.
- The $\underbrace{}$ indicator light will illuminate.
- The tindicator light will flash when fail-safe cooling mode has been activated.

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 and 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 an authorized dealer 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.

248

https://www.MyCarManual.com



- 2. Arrange for the vehicle to be taken to an authorized dealer.
- 3. If this is not possible, wait a short period for the engine to cool.
- 4. Check the coolant level and replenish if low.

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

5. Re-start the engine and take your vehicle to an authorized dealer.

Driving the vehicle without repairing the engine problem increases the chance of engine damage. Take your vehicle to an authorized dealer as soon as possible.

FUEL FILTER

For fuel filter replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the fuel filter.

Replace the fuel filter with an authorized Motorcraft part. The customer warranty may be void for any damage to the fuel system if an authorized Motorcraft fuel filter is not used.

WHAT YOU SHOULD KNOW ABOUT AUTOMOTIVE FUELS

Important safety precautions

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

WARNING: The fuel system may be under pressure. If 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.

WARNING: If you do not use the proper fuel filler cap, excessive vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in serious personal injury.



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

249

https://www.MyCarManual.com

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

Observe the following guidelines when handling automotive fuel:

• Extinguish all smoking materials and any open flames before fueling your vehicle.



• Always turn off the vehicle before fueling.

• Automotive fuels can be harmful or fatal if swallowed. Fuels such as gasoline and ethanol are 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 and/or ethanol 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.
- FFV fuel tanks may contain zero to 85 percent ethanol. Any fuel blends containing gasoline and ethanol should be treated the same as "Fuel Ethanol." To identify if your vehicle is an FFV, it may be equipped with a yellow fuel cap with the text "E85/Gasoline", or check if there is a label on the fuel filler door.

250

https://www.MyCarManual.com

Pure ethanol is the alcohol which is the intoxicating agent in liquor, beer and wine. It is distilled from the fermentation of plants such as field corn and sugar cane. When ethanol is produced for use in motor fuels, a small amount of gasoline is added to make it unfit for beverage use. The resulting ethanol blend is called denatured fuel ethanol meaning that it is denatured with 2% to 5% gasoline and is suitable for automotive use.

During the summer season, fuel ethanol may contain a maximum of 85% denatured ethanol (Ed85) and 15% unleaded gasoline. The fuel ethanol has a higher octane rating than unleaded regular or premium gasoline and this allows the design of engines with greater efficiency and power.

Winter blends may contain up to 75% denatured ethanol (Ed75) and up to 25% unleaded gasoline to enhance cold engine starts. Severely cold weather may require additional measures for reliable starting. Refer to *Starting* in the *Driving* chapter.

Ethanol is more chemically active than gasoline. It corrodes some metals and causes some plastic and rubber components to swell, break down or become brittle and crack, especially when mixed with gasoline. Special materials and procedures have been developed for flexible fuel vehicles and the dispensers used by ethanol fuel providers.

WARNING: Flexible fuel components and standard unleaded gasoline fuel components are not interchangeable. If your vehicle is not serviced in accordance with flexible fuel vehicles procedures, damage may occur and your warranty may be invalidated.

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

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

https://www.MyCarManual.com

251

Refueling

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

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

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

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

Fuel filler cap

Your fuel tank filler cap has an indexed design with a 1/4 turn on/off feature.

When fueling your vehicle:

1. Turn the engine off.

2. Carefully turn the filler cap counterclockwise 1/4 of a turn until it stops.

3. Pull to remove the cap from the fuel filler pipe.

4. To install the cap, align the tabs on the cap with the notches on the filler pipe.

5. Turn the filler cap clockwise 1/4 of a turn until it clicks at least once.

If the check fuel cap light \mathbf{k}^{\bullet} or a "check fuel cap" message comes on, the fuel filler cap may not be properly installed. The light or message can come on after several driving events after you've refueled your vehicle.

252

https://www.MyCarManual.com

At the next opportunity, safely pull off of the road, remove the fuel filler cap, align the cap properly and reinstall it. The check fuel cap

light \mathbf{k}^{\bullet} or "check fuel cap" message may not reset immediately; it may take several driving cycles for the check fuel cap light \mathbf{k}^{\bullet} or "check fuel cap" message to turn off. A driving cycle consists of an engine start-up (after four or more hours with the engine off) followed by city and highway driving.

Continuing to drive with the check fuel cap light \mathbf{k}^{*} or "check fuel cap" message on may cause the \mathbf{k}^{*} light to turn on as well.

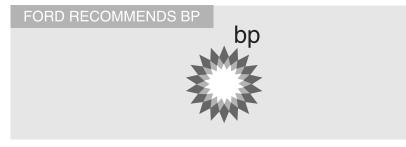
If you must replace the fuel filler cap, replace it with a fuel filler cap that is designed for your vehicle. The customer warranty may be void for any damage to the fuel tank or fuel system if the correct genuine Ford, Motorcraft or other certified fuel filler cap is not used.

WARNING: 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.

WARNING: If you do not use the proper fuel filler cap, excessive vacuum in the fuel tank may damage the fuel system or cause the fuel cap to disengage in a collision, which may result in personal injury.

FFV (Flex Fuel Vehicle) fuel cap

If your vehicle is FFV capable, it will have a yellow colored fuel cap.



https://www.MyCarManual.com

253

Choosing the right fuel

If your vehicle is a flexible fuel vehicle (FFV), use only UNLEADED FUEL and FUEL ETHANOL (Ed75–Ed85).

If your vehicle is not a flexible fuel vehicle (FFV), then only use UNLEADED fuel or UNLEADED fuel blended with a maximum of 10% ethanol. Your vehicle was not designed to run on E85 fuels that are blended with a maximum of 85% ethanol. Do not use fuel containing methanol. It can damage critical fuel system components.

The use of leaded fuel is prohibited by law and could damage your vehicle.

Your vehicle was not designed to use fuel or fuel additives with metallic compounds, including manganese-based additives. Studies indicate that these additives can cause your vehicle's emission control system to deteriorate more rapidly.

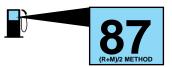
Repairs to correct the effects of using a fuel for which your vehicle was not designed may not be covered by your warranty.

Cleaner air

Ford endorses the use of reformulated "cleaner-burning" gasolines to improve air quality, per the recommendations in the *Choosing the right fuel* section.

Octane recommendations

Do not be concerned if your engine sometimes knocks lightly. However, if it knocks heavily under most driving conditions while you are using fuel with the recommended



octane rating, see your authorized dealer to prevent any engine damage.

Unleaded Gasoline Engines

Your vehicle is designed to use "Regular" unleaded gasoline with a pump (R+M)/2 octane rating of 87. We do not recommend the use of gasolines labeled as "Regular" in high altitude areas that are sold with octane ratings less than 87.

FFV engine (if equipped)

Your vehicle is designed to use Fuel Ethanol (Ed75–Ed85), "Regular" unleaded gasoline or any mixture of the two fuels.

U.S. government regulations require fuel ethanol dispensing pumps to have a small, square, orange and black label with the

254

https://www.MyCarManual.com

common abbreviation or the appropriate percentage for that region. Use of other fuels such as Fuel Methanol may cause powertrain damage, a loss of vehicle performance, and your warranty may be invalidated.

Fuel quality

Do not add aftermarket fuel additive products to your fuel tank. 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. These products have not been approved for your engine and could cause damage to the fuel system. Repairs to correct the effects of using an aftermarket product in your fuel may not be covered by your warranty.

Many of the world's automakers approved the World-Wide Fuel Charter that recommends gasoline specifications to provide improved performance and emission control system protection for your vehicle. Gasolines that meet the World-Wide Fuel Charter should be used when available. Ask your fuel supplier about gasolines that meet the World-Wide Fuel Charter.

Unleaded gasoline engines

If you are experiencing starting, rough idle or hesitation driveability problems during a cold start, try a different brand of "Regular" unleaded gasoline. "Premium" unleaded gasoline is not recommended because it may cause these problems to become more pronounced. If the problems persist, see your authorized dealer.

FFV engine (if equipped)

To identify if your vehicle is an FFV, it may be equipped with a yellow fuel cap with the text "E85/Gasoline", or check if there is a label on the fuel filler door.

It is best not to alternate repeatedly between gasoline and E85. If you do switch fuels, it is recommended that you add as much fuel as possible—at least half a tank. Do not add less than five gallons (18.9 L) when refueling. You should drive the vehicle immediately after refueling for at least 5 miles (8 km) to allow the vehicle to adapt to the change in ethanol concentration.

If you operate your vehicle 50% or more of the time on ethanol, you should follow a different maintenance schedule. In addition to this, it is also recommended to fill the fuel tank with regular unleaded gasoline once every 3,000 miles (4,800 km). See *scheduled maintenance information* for more information.

255

https://www.MyCarManual.com

Running out of fuel

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

If you have run out of fuel:

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

ESSENTIALS OF GOOD FUEL ECONOMY

Measuring techniques

Your best source of information about actual fuel economy is you, the driver. You must gather information as accurately and consistently as possible. Fuel expense, frequency of fill-ups or fuel gauge readings are NOT accurate as a measure of fuel economy. We do not recommend taking fuel economy measurements during the first 1,000 miles (1,600 km) of driving (engine break-in period). You will get a more accurate measurement after 2,000 miles–3,000 miles (3,000 km–5,000 km).

Filling the tank

The advertised fuel capacity of the fuel tank on your vehicle is equal to the rated refill capacity of the fuel tank as listed in the *Maintenance product specifications and capacities* section of this chapter.

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

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

256

https://www.MyCarManual.com

For consistent results when filling the fuel tank:

- Turn the engine/ignition switch to the off position prior to refueling, an error in the reading will result if the engine is left running.
- Use the same filling rate setting (low medium high) each time the tank is filled.
- Allow no more than two automatic click-offs when filling.
- Always use fuel with the recommended octane rating.
- Use a known quality gasoline, preferably a national brand.
- Use the same side of the same pump and have the vehicle facing the same direction each time you fill up.
- Have the vehicle loading and distribution the same every time.

Your results will be most accurate if your filling method is consistent.

Calculating fuel economy

1. Fill the fuel tank completely and record the initial odometer reading (in miles or kilometers).

2. Each time you fill the tank, record the amount of fuel added (in gallons or liters).

3. After at least three to five tank fill-ups, fill the fuel tank and record the current odometer reading.

4. Subtract your initial odometer reading from the current odometer reading.

5. Follow one of the simple calculations in order to determine fuel economy:

Calculation 1: Divide total miles traveled by total gallons used. Calculation 2: Multiply liters used by 100, then divide by total kilometers traveled.

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

Driving style — good driving and fuel economy habits

Give consideration to the lists that follow and you may be able to change a number of variables and improve your fuel economy.

257

https://www.MyCarManual.com

Habits

- Smooth, moderate operation can yield up to 10% savings in fuel.
- Steady speeds without stopping will usually give the best fuel economy.
- Idling for long periods of time (greater than one minute) may waste fuel.
- Anticipate stopping; slowing down may eliminate the need to stop.
- Sudden or hard accelerations may reduce fuel economy.
- Slow down gradually.
- Driving at reasonable speeds (traveling at 55 mph [88 km/h] uses 15% less fuel than traveling at 65 mph [105 km/h]).
- Revving the engine before turning it off may reduce fuel economy.
- Using the air conditioner or defroster may reduce fuel economy.
- You may want to turn off the speed control in hilly terrain if unnecessary shifting between the top gears 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 *Maintenance product specifications and capacities* in this chapter.
- Perform all regularly scheduled maintenance items. Follow the recommended maintenance schedule and owner maintenance checks found in *scheduled maintenance information*.

Conditions

- Heavily loading a vehicle or towing a trailer may reduce fuel economy at any speed.
- Carrying unnecessary weight may reduce fuel economy (approximately 1 mpg [0.4 km/L] is lost for every 400 lb [180 kg] of weight carried).

258

https://www.MyCarManual.com

- Adding certain accessories to your vehicle (for example bug deflectors, rollbars/light bars, running boards, ski/luggage racks) may reduce fuel economy.
- Using fuel blended with alcohol may lower fuel economy.
- Fuel economy may decrease with lower temperatures during the first 8–10 miles (12–16 km) of driving.
- Driving on flat terrain offers improved fuel economy as compared to driving on hilly terrain.
- Transmissions give their best fuel economy when operated in the top cruise gear and with steady pressure on the gas pedal.
- Close windows for high speed driving.

EPA fuel economy estimates

Every new vehicle should have a window sticker containing EPA fuel economy estimates. Contact your authorized dealer if the window sticker is not supplied with your vehicle. The EPA fuel economy estimates should be your guide for the fuel economy comparisons with other vehicles. Your fuel economy may vary depending upon the method of operation and conditions.

Note: Vehicles over 8,500 GVW (Gross Vehicle Weight) will not have fuel economy information printed on the EPA window sticker.

EMISSION CONTROL SYSTEM

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

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

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

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

259

https://www.MyCarManual.com

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

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

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

WARNING: 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 also lists engine displacement.

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

On board diagnostics (OBD-II)

Your vehicle is equipped with a computer that monitors the engine's emission control system. This system is commonly known as the On Board Diagnostics System (OBD-II). The OBD-II system protects the environment by ensuring that your vehicle continues to meet government emission standards. The OBD-II system also assists your authorized dealer in properly servicing your vehicle. When the *Service engine soon* indicator illuminates, the OBD-II system has detected a malfunction. Temporary malfunctions may cause the *Service engine soon* indicator to illuminate. Examples are:

The vehicle has run out of fuel—the engine may misfire or run poorly.
 Poor fuel quality or water in the fuel—the engine may misfire or run poorly.

3. The fuel cap may not have been securely tightened. See Fuel filler cap in this chapter.

4. Driving through deep water—the electrical system may be wet.

260

https://www.MyCarManual.com

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

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

Readiness for Inspection/Maintenance (I/M) testing

Some state/provincial and local governments may have Inspection/Maintenance (I/M) programs to inspect the emission control equipment on your vehicle. Failure to pass this inspection could prevent you from getting a vehicle registration. Your vehicle may not pass the I/M test if the *Service engine soon* () indicator is on or not working properly (bulb is burned out), or if the OBD-II system has determined that some of the emission control systems have not been properly checked. In this case, the vehicle is considered not ready for I/M testing.

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

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

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

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

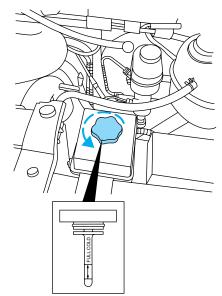
261

https://www.MyCarManual.com

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

POWER STEERING FLUID

Check the power steering fluid. Refer to the scheduled maintenance guide for the service interval schedules.



Check the fluid level when it is at ambient temperature, $20^{\circ} - 80^{\circ}$ F (-7° – 25° C):

1. Check the fluid level on the dipstick. It should be between the arrows in the FULL COLD range. Do not add fluid if the level is within this range.

2. If the fluid level is low, start the engine.

3. While the engine idles, turn the steering wheel left and right several times.4. Turn the engine off.

WARNING: For E-350 and E-450 vehicles with the Hydro-Boost Brake System, do not press the brake pedal after the engine has been turned off. Pressing the brake pedal after the engine has been turned off will give a false power steering fluid level reading.

262

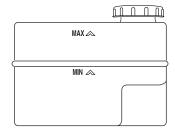
https://www.MyCarManual.com

5. Recheck the fluid level on the dipstick. Do not add fluid if the level is between the arrows in the FULL COLD range.

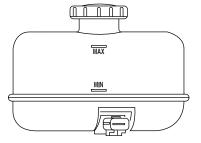
6. If the fluid is low, add fluid in small amounts, continuously checking the level until it reaches the FULL COLD range. Be sure to put the dipstick back in the reservoir. Refer to *Maintenance product* specifications and capacities in this chapter for the proper fluid type.

BRAKE FLUID 🞯

• E-150/E-350 Single Rear Wheel



• E-350/E-450 Dual Rear Wheel



The fluid level will drop slowly as the brakes wear, and will rise when the brake components are replaced. Fluid levels between the "MIN" and "MAX" lines are within the normal operating range; there is no need to add fluid. If the fluid levels are outside of the normal operating range the performance of the system could be compromised; seek service from your authorized dealer immediately.



2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 263

DRIVELINE UNIVERSAL JOINT AND SLIP YOKE

Your vehicle may be equipped with universal joints that require lubrication. Refer to the *scheduled maintenance information* for maintenance intervals. If the original universal joints are replaced with universal joints equipped with grease fittings, lubrication will also be necessary.

TRANSMISSION FLUID

Checking automatic transmission fluid (if equipped)

Refer to your *scheduled maintenance information* for scheduled intervals for fluid checks and changes. Your transmission does not consume fluid. However, the fluid level should be checked if the transmission is not working properly, i.e., if the transmission slips or shifts slowly or if you notice some sign of fluid leakage.

Automatic transmission fluid expands when warmed. To obtain an accurate fluid check, drive the vehicle until it is at normal operating temperature (approximately 20 miles [30 km]). If your vehicle has been operated for an extended period at high speeds, in city traffic during hot weather or pulling a trailer, the vehicle should be turned off for about 30 minutes to allow fluid to cool before checking.

1. Drive the vehicle 20 miles (30 km) or until it reaches normal operating temperature.

2. Park the vehicle on a level surface and engage the parking brake.

3. With the parking brake engaged and your foot on the brake pedal, start the engine and move the gearshift lever through all of the gear ranges. Allow sufficient time for each gear to engage.

4. Latch the gearshift lever in P (Park) and leave the engine running.

5. Remove the dipstick, wiping it clean with a clean, dry lint free rag. If necessary, refer to *Identifying components in the engine compartment* in this chapter for the location of the dipstick.

6. Install the dipstick making sure it is fully seated in the filler tube.

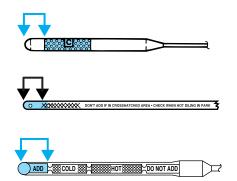
7. Remove the dipstick and inspect the fluid level. The fluid should be in the designated area for normal operating temperature or ambient temperature.

264

https://www.MyCarManual.com

Low fluid level

Do not drive the vehicle if the fluid level is at the bottom of the dipstick and the ambient temperature is above 50° F (10° C).



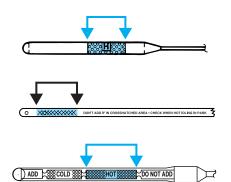
Correct fluid level

The transmission fluid should be checked at normal operating temperature $150^{\circ}F-170^{\circ}F$ (66°C-77°C) on a level surface. The normal operating temperature can be reached after approximately 20 miles (30 km) of driving.

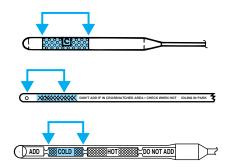
You can check the fluid without driving if the ambient temperature is above 50° F (10° C). However, if fluid is added at this time, an overfill condition could result when the vehicle reaches normal operating temperature.

265

https://www.MyCarManual.com



The transmission fluid should be in this range if at normal operating temperature (150°F-170°F [66°C-77°C]).

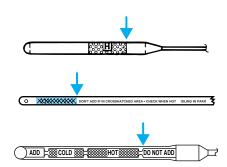


The transmission fluid should be in this range if at ambient temperature (50°F-95°F [10°C-35°C]).

266

https://www.MyCarManual.com

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.

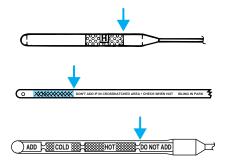
High fluid levels can be caused by an overheating condition.

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. Refer to *Maintenance* product specifications and capacities in this chapter.

Use of a non-approved automatic transmission fluid may cause internal transmission component damage.

If necessary, add fluid in 1/2 pint (250 ml) increments through the filler tube until the level is correct.



If an overfill occurs, excess fluid should be removed by an authorized dealer.

267

https://www.MyCarManual.com

An overfill condition of transmission fluid may cause shift and/or engagement concerns and/or possible damage.

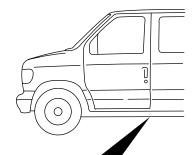
Do not use supplemental transmission fluid additives, treatments or cleaning agents. The use of these materials may affect transmission operation and result in damage to internal transmission components.

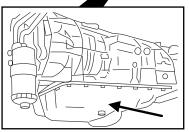
Automatic transmission fluid filter

The Torqshift automatic transmission is equipped with a serviceable transmission fluid filter located inside the transmission bottom pan.

Refer to *scheduled maintenance information* for service intervals for automatic transmission fluid and transmission filter.

For transmission filter maintenance, see your authorized dealer.





AIR FILTER

Refer to *scheduled maintenance information* for the appropriate intervals for changing the air filter element.

When changing the air filter element, use only the Motorcraft air filter element listed. Refer to *Motorcraft part numbers* in this chapter.

WARNING: To reduce the risk of vehicle damage and/or personal burn injuries do not start your engine with the air cleaner removed and do not remove it while the engine is running.

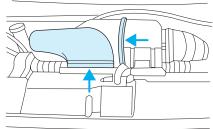
268

https://www.MyCarManual.com

Changing the air filter element

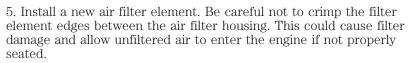
1. Disconnect the fresh air inlet tube from the radiator support.

2. Open the clamp that secures the two halves of the air filter housing together.



3. Carefully separate the two halves of the air filter housing.

4. Remove the air filter element from the housing.



6. Replace the two halves of the air filter housing and secure the clamp.

7. Connect the fresh air inlet tube to the radiator support.

Note: Failure to use the correct air filter element may result in severe engine damage. The customer warranty may be void for any damage to the engine if the correct air filter element is not used.



2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 269

$Component^1$	4.6L V8 engine	5.4L V8 engine	6.8L V10 engine
Air filter element	FA-1632	FA-1632	FA-1632
Battery- standard /	BXT-65-650 /	BXT-65-650 /	BXT-65-650 /
(auxiliary)	(BXT-65-750)	(BXT-65-750)	(BXT-65-750)
Fuel filter	FG-872	FG-872	FG-872
Oil filter	FL-820-S	FL-820-S	FL-820-S
PCV valve	2		
Spark plugs		3	
Torqshift automatic			
transmission		FT-175	FT-175
internal bottom–pan		r 1-170	r 1-175
filter ⁴			

MOTORCRAFT PART NUMBERS

¹Refer to the 6.0 and 6.4 Liter Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement for Motorcraft diesel engine service part numbers.

²The PCV valve is a critical emission component. It is one of the items listed in *scheduled maintenance information* and is essential to the life and performance of your vehicle and to its emissions system.

For PCV valve replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the PCV valve.

Replace the PCV valve with one that meets Ford material and design specifications for your vehicle, such as a Motorcraft or equivalent replacement part. The customer warranty may be void for any damage to the emissions system if such a PCV valve is not used.

³For spark plug replacement, see your authorized dealer. Refer to *scheduled maintenance information* for the appropriate intervals for changing the spark plugs.

Replace the spark plugs with ones that meet Ford material and design specifications for your vehicle, such as Motorcraft or equivalent replacement parts. The customer warranty may be void for any damage to the engine if such spark plugs are not used.

⁴Also available with 6.0L and 6.4L Diesel engine/TorqShift transmission.

270

https://www.MyCarManual.com

MAIN LENANCE PRODUCT SPECIFICATIONS AND CAPACITIES	CIFICATIONS #	AND CAPACITIES	
Item	Capacity	Ford part name	Ford part number / Ford specification
Brake fluid	Between MIN and MAX on reservoir	Motorcraft High Performance DOT 3 Motor Vehicle Brake Fluid	PM-1-C / WSS-M6C62-A
Door weatherstrips		Silicone Spray Lubricant	XL-6 / ESR-M13P4-A
Hinges, latches, Striker plates, fuel filler door hinge, and seat tracks		Motorcraft Multi-Purpose Grease	XG-4 or XL-5 / ESB-M1C93-B
Lock cylinders		Motorcraft Penetrating and Lock Lubricant	XL-1 / None
Engine coolant 4.6L engine	23.8 quarts (22.6L)		
Engine coolant 4.6L engine with aux rear heat	26.0 quarts (24.6L)		
Engine coolant 5.4L engine	28.8 quarts (27.2L)	Motorcraft Premium Gold	VC-7-B /
Engine coolant 5.4L engine with aux rear heat	30.8 quarts (29.1L)	Euglie Coolant wun Dittering agent (yellow-colored) ¹	WSS-M97B51-A1
Engine coolant 6.8L engine	30.4 quarts (28.8L)		
Engine coolant 6.8L engine with aux rear heat	32.6 quarts (30.8L)		
Engine coolant-diesel engine ¹	Refer to the 6.0L	Refer to the 6.0L and 6.4L Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement.	Injection Turbo Diesel ut.
Cooling system stop leak pellets		Motorcraft Cooling System Stop Leak Pellets	VC-6 / WSS-M99B37-B6
Engine oil	6.0 quarts (5.7L)	Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil (US) Motorcraft SAE 5W-20 Super Premium Motor Oil	X0-5W20-QSP (US) CXO-5W20- LSP12 (Canada) / WSS-M2C930-A with API Certification Mark
		(Canada) ²	

MAINTENANCE PRODUCT SPECIFICATIONS AND CAPACITIES

https://www.MyCarManual.com

271

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus)

Maintenance and Specifications

Engine oil-diesel engineRefer to the $6.0L an$ Power steering fluidReep in FULLPower steering fluidKeep in FULLAutomatic transmission fluid13.9 quartsAutomatic transmission fluid13.9 quarts $(4R75E)$ 13.9 quartsAutomatic transmission fluid13.1L) ³ Automatic transmission fluid13.1L) ³ Automatic transmission fluid13.1L) ³ Automatic transmission fluid18.8 quartsAutomatic transmission fluid18.8 quartsBana conventional and Limited Slip5.9 pints (2.8L) ^{5,7} Bana Limited Slip Axle fluid5.9 pints (2.8L) ⁷ Bana Limited Slip Axle fluid5.9 pints (2.8L) ⁷ Bana Limited Slip Axle fluid5.9 pints (2.8L) ⁷ Bana Limited Slip Axle fluid8.3 pints (3.9L) ⁷ Bana Limited Slip Axle fluid8.3 pints (3.9L) ⁷ Bana Conventional axle fluid5.9 pints (2.8L) ⁷	Refer to the 6.0L and 6.4L Power Stroke Direct Injection Turbo Diesel <u>Owner's Guide Supplement.</u> <u>Keep in FULL</u> Motorcraft MERCON® V ATF <u>XT-5-QM (</u>	
Keep in FULL range on dipstick 13.9 quarts $(13.1L)^3$ 18.8 quarts $(17.7L)^3$ 5.9 pints $(2.8L)^{5.7}$ 5.9 pints $(2.8L)^{5.7}$ 6.6 pints $(2.8L)^{5.7}$ 8.3 pints $(2.8L)^{5.7}$ 8.3 pints $(2.8L)^{5.7}$ 5.9 pints $(2.8L)^{5.7}$		Injection Turbo Diesel t.
13.9 quarts $(13.1L)^3$ 18.8 quarts $(17.7L)^3$ $5.9 \text{ pints} (2.8L)^{5.7}$ $5.9 \text{ pints} (2.8L)^{5.7}$ $6.6 \text{ pints} (2.8L)^{5.7}$ $8.3 \text{ pints} (3.1L)^7$ $8.3 \text{ pints} (3.9L)^7$ $5.9 \text{ pints} (2.8L)^{5.7}$	-	XT-5-QM / MERCON® V
$18.8 \text{ quarts} (17.7\text{L})^3$ 5.9 pints $(2.8\text{L})^{5.7}$ 5.9 pints $(2.8\text{L})^{5.7}$ 6.6 pints $(2.8\text{L})^7$ 8.3 pints $(3.1\text{L})^7$ 5.9 pints $(3.2\text{L})^7$	Motorcraft MERCON® V ATF ⁴	XT-5-QM / MERCON® V
$5.9 \text{ pints } (2.8 \text{L})^{5.7}$ $5.9 \text{ pints } (2.8 \text{L})^{5.7}$ $6.6 \text{ pints } (3.1 \text{L})^7$ $8.3 \text{ pints } (3.9 \text{L})^7$ $5.9 \text{ pints } (2.8 \text{L})^7$	Motorcraft MERCON [®] SP ATF ⁴	XT-6-QSP / MERCON® SP
	7 SAE 75W-140 Synthetic Rear Axle Lubricant ⁶	XY-75W140-QL / WSL-M2C192-A
	2.	
	⁷ SAE 90 Hypoid Gear Oil	XY-90-GL / ESW-M2C105-E
	2	
E-200/000	2	
Dana conventional axle fluid M70FF (M267FF) $6.6 \text{ pints } (3.1L)^7$ S E-350	7 SAE 80W-90 Premium Rear Axle Lubricant	XY-80W90-QL / WSP-M2C197-A
Dana conventional axle fluid M70HD (M273HD) E-450 B-450	2	
Windshield washer fluid 4.2 quarts (4.0L)	Motorcraft Premium Windshield Washer Concentrate	ZC-32-A / WSB-M8B16-A2

272

https://www.MyCarManual.com

Item	Capacity	Ford part name F_{C}	Ford part number / Ford specification
Fuel tank-all regular and extended length vans and wagons	35.0 gallons (132.4L)		
Fuel tank-138 inch wheelbase (except E-Super Duty)	37.0 gallons (140.0L)		
Fuel tank-158 inch wheelbase (except E-Super Duty)	37.0 gallons $(140.0L)^8$		
Fuel tank–176 inch wheelbase (except E-Super Duty)	37.0 gallons $(140.0L)^8$		
Fuel tank-158 inch and 176 inch wheelbase (E-Super Duty)	55.0 gallons (208.0L)		
¹ Add the coolant type originally equipped in your vehicle. ² Use of synthetic or synthetic blend motor oil is not mandatory. Engine oil need only meet the requirements of Ford	ed in your vehicle. otor oil is not mands	tory. Engine oil need only meet the r	requirements of Ford
specification WSS-M2C930-A and the API Certification mark. ³ Indicates only approximate dry-fill capacity Some applicatio	PI Certification mar acity Some annlicat	k. ions may yary hased on cooler size i	if equipped with an
in-tank cooler, if equipped with an oil to air cooler and if equipped with a remote filter assembly. The amount of transmission fluid and fluid level should be set by the indication on the distick's normal operating range.	air cooler and if e	upped with a remote filter assembly ation on the dipstick's normal operati	y. The amount of ing range.
⁴ Automatic transmissions that require MERCON [®] V should only use MERCON [®] V fluid. Refer to <i>scheduled maintenance information</i> to determine the correct service interval. Use of any fluid other than the recommended	MERCON® V should the correct servic	only use MERCON® V fluid. Refer to e interval. Use of any fluid other that	o <i>scheduled</i> n the recommended
fluid may cause transmission damage.			
Automatic transmissions that require MERCON® SP should only use MERCON® SP fluid. Use of a dual usage fluid in an automatic transmission requiring MERCON® SP may cause transmission damage. Refer to <i>scheduled</i>	ERCON® SP may can	only use MEKCON® SP fluid. Use of use transmission damage. Refer to sc/	a dual usage fluid in <i>heduled</i>
<i>maintenance information</i> to determine the correct service interval. Use of any fluid other than the recommended fluid may cause transmission damage.	ie the correct servic	e interval. Use of any fluid other than	n the recommended
⁵ Dana limited-slip axle (M60) requires 8 oz. (228 ml) of Additive Friction Modifier XL-3 or equivalent meeting Ford specification EST-M2C118-A.	8 oz. (228 ml) of A	dditive Friction Modifier XL-3 or equ	iivalent meeting Ford
⁶ If your vehicle's rear axle is filled with a synthetic rear axle lubricant it is considered lubricated for life. These lubricants do not need to be checked or changed unless a leak is suspected, service is required or the axle assembly has been submerged in water. The axle lubricant should be changed any time the rear axle has been submerged in	a synthetic rear ax r changed unless a l lubricant should be	e lubricant it is considered lubricated eak is suspected, service is required changed any time the rear axle has	d for life. These or the axle assembly been submerged in
water. ⁷ Fill Dana rear axles to 1/4 inch to 9/16 inch (6 mm to 14 mm) below bottom of fill hole. ⁸ Ontional fuel tank 55.0 gallons (208.0L).	inch (6 mm to 14).	nm) below bottom of fill hole.	

https://www.MyCarManual.com

2008 Econoline (eco) Owners Guide (post-2002-fmt) USA (fus) 273

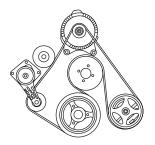
ENGINE DATA

Engine ¹	4.6L V8 engine	5.4L V8 engine	6.8L V10 engine
Cubic inches	281	330	415
Required fuel	87 octane or (E-85) ²	87 octane	87 octane
Firing order	1-3-7-2-6-5-4-8	1-3-7-2-6-5-4-8	1-6-5-10-2-7-3-8-4-9
Ignition system	Coil on plug	Coil on plug	Coil on plug
Spark plug gap		0.052–0.056 inch (1.32–1.42mm)	0.052–0.056 inch (1.32–1.42mm)
Compression ratio	9.4:1	9.0:1	9.0:1

¹Refer to the 6.0 and 6.4 Liter Power Stroke Direct Injection Turbo Diesel Owner's Guide Supplement for diesel engine information.

 $^{2}4.6L$ V8 FFV engines only.

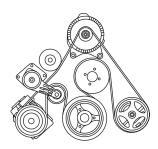
Engine drivebelt routing



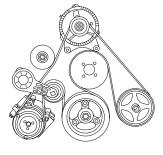
• 4.6L V8 and 5.4L V8 Engines without A/C

274

https://www.MyCarManual.com



• 4.6L V8 and 5.4L V8 Engines with A/C



• 6.8L V10 Engine

VEHICLE IDENTIFICATION NUMBER

Complete Ford built vehicles

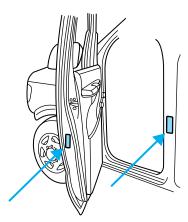
The vehicle identification number is attached to your vehicle in the following places:

• The top of the instrument panel on the driver's side.

https://www.MyCarManual.com

275

• On the certification label. This label is required by the National Highway Traffic Safety Administration and is made of special material. If it is tampered with, it will be destroyed or a destruction pattern will appear.



The Vehicle Identification Number (VIN) contains the following information:

1. World manufacturer identifier

2. Brake system / Gross Vehicle Weight Rating (GVWR) / Restraint System

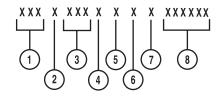
- 3. Vehicle line, series, body type
- 4. Engine type
- 5. Check digit
- 6. Model year
- 7. Assembly plant
- 8. Production sequence number

Certification label for incomplete vehicles

On completed derivations of incomplete vehicles, the certification label is affixed at a location determined by a subsequent stage manufacturer of the completed vehicle. In these cases the completed vehicle is manufactured in two or more stages by two or more separate manufacturers.

276

https://www.MyCarManual.com



TRANSMISSION CODE DESIGNATIONS

You can find a transmission code on the Safety Compliance Certification Label. The following table tells you which transmission each code represents.

MFD. BY F	ORD MO	FOR CO.	
DATE: XX/XX FRONT GAWR: XXXXL XXXXKG XXXX/XXXXXX AT XXX kPa/XX PSI COL	H XXX ES XXX IS XXX	XXLB/ XXXX GAWR: XX XKG X/XXXXXXXX X.XX XX kPa/XX	XXXLB WITH
THIS VEHICLE GOMEORMS TO VEHICLE SAFETY AND THEFT EFFECT ON THE DATE OF MAN VIN: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	PREVENTION IUFACTURE S	STANDARDS I	N
EXT PNT: XX WB ^T BRK ^T INT TR ^T TP/PS XXX X XX X	RC: XX S 'R 'AXLE X XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TR SPR	XXXXX XXX XXXXXXXX-XX

Description	Code
Five-speed automatic TorqShift-diesel engine with overdrive cancel	В
Four-speed automatic overdrive (4R75E)	Q
Five-speed automatic TorqShift-gasoline engine with Tow/Haul	Т

https://www.MyCarManual.com

277

Accessories

GENUINE FORD ACCESSORIES FOR YOUR VEHICLE

A wide selection of Genuine Ford Accessories are available for your vehicle through your local Ford or Ford of Canada dealer. These quality accessories have been specifically engineered to fulfill your automotive needs; they are custom designed to complement the style and aerodynamic appearance of your vehicle. In addition, each accessory is made from high quality materials and meets or exceeds Ford's rigorous engineering and safety specifications. Ford Motor Company will repair or replace any properly dealer-installed Genuine Ford Accessories found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessories. The accessories will be warranted for whichever provides you the greatest benefit:

• 12 months or 12,000 miles (20,000 km) (whichever occurs first), or

• the remainder of your new vehicle limited warranty.

Contact your dealer for details and a copy of the warranty.

The following is a list of several Genuine Ford Accessories. Not all accessories are available for all models. For a complete listing of the accessories that are available for your vehicle, please contact your dealer or visit our online store at: www.fordaccessoriesstore.com.

Exterior style

Bug shields Deflectors Running boards Splash guards

Interior style

Electrochromatic compass/temperature interior mirrors Floor mats

Lifestyle

Trailer hitches, wiring harnesses and accessories

Peace of mind

Mobile-EaseTM hands-free communication system Remote start Vehicle security systems

278

https://www.MyCarManual.com

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Consult your authorized dealer for specific weight information.
- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems — such as two-way radios, telephones and theft alarms - that are equipped with radio transmitters. Any such equipment installed in your vehicle should comply with FCC or CRTC regulations and should be installed only by a qualified service technician.
- Mobile communications systems may harm the operation of your vehicle, particularly if they are not properly designed for automotive use.
- To avoid interference with other vehicle functions, such as anti-lock braking systems, amateur radio users who install radios and antennas onto their vehicle should not locate the Amateur Radio Antennas in the area of the driver's side hood.
- Electrical or electronic accessories or components that are added to the vehicle by the authorized dealer or the owner may adversely affect battery performance and durability.

279

https://www.MyCarManual.com

A

Accessory delay53
AdvanceTrac170
Air cleaner filter
Airbag supplemental restraintsystem
Ambulance packages8
Antifreeze (see Engine coolant)243 Anti-lock brake system (see Brakes)167–168
Anti-theft system
Audio system (see Radio)20, 22, 26
Automatic transmission driving an automatic overdrive178, 180, 183 fluid, adding264 fluid, checking264 fluid, refill capacities271 fluid, specification271
Auxiliary power point51
Axle lubricant specifications271 refill capacities
В

Battery	
---------	--

280

acid, treating emergencies240 battery saver
Belt-Minder [®]
Booster seats
Brakes
anti-lock brake system (ABS)
warning light
fluid, checking and adding263 fluid, refill capacities271
fluid, specifications
lubricant specifications
parking
shift interlock176
Bulbs41

С

Capacities for refilling fluids271
Cell phone use9
Changing a tire200
Child safety restraints
Child safety seats101 in front seat102 in rear seat102 tether anchorage hardware105
Child safety seats - booster seats
Cleaning your vehicle engine compartment

https://www.MyCarManual.com

safety belts
Climate control (see Air conditioning or Heating)32–34
Clock adjust 6-CD in dash24, 28 AM/FM21
Compass, electronic50 calibration51 set zone adjustment50
Console overhead48–49
Controls power seat71
Coolant checking and adding243 refill capacities247, 271 specifications271
Cruise control (see Speed control)54
Customer Assistance
the U.S. and Canada
need
literature
Mediation/Arbitration Program

D

Daytime runr	ning lamps
(see Lamps)	

Dipstick automatic transmission fluid engine oil	
Driveline universal joint and slip yoke	264
Driving under special conditions	
through water	188

E

Emergencies, roadside jump-starting
coolant
Engine block heater165
Engine oil
Event data recording
Exhaust fumes165

F

Fail safe cooling248

281

https://www.MyCarManual.com

Flexible Fuel Vehicle (FFV)249
Fluid capacities271
Four-Wheel Drive vehicles preparing to drive your
vehicle174
Fuel249 calculating fuel economy256 cap252
capacity
choosing the right fuel254 comparisons with EPA fuel
economy estimates
detergent in fuel254
filling your vehicle with
fuel
filter, specifications249, 270
fuel pump shut-off switch191
improving fuel economy256
octane rating
quality
running out of fuel
safety information relating to automotive fuels249
Fuel - flex fuel vehicle (FFV)249, 254
Fuses192–193
ruses132–133

G

Garage door opener49
Gas cap (see Fuel cap)252
Gas mileage (see Fuel economy)256
Gauges17

Η

Hazard flashers	
Headlamps	

282

aiming
Heating heater only system
Hood234

Ι

Ignition162, 274
Illuminated visor mirror48
Infant seats (see Safety seats)101
Inspection/maintenance (I/M) testing261
Instrument panel cleaning
interior

J

Jack
positioning200
storage
Jump-starting your vehicle210

K

Keyless entry system	
autolock	
Keys68	
positions of the ignition162	

https://www.MyCarManual.com

L

Lamps	
bulb replacement	
specifications chart	
daytime running light headlamps	
headlamps, flash to pass	
instrument panel, dimming .	
interior lamps	
replacing bulbs	
Lights, warning and indicator anti-lock brakes (ABS)	
Load limits	145
Loading instructions	151
Locks autolock doors	58
Lubricant specifications	271
Lug nuts	209
Lumbar support, seats	71

M

Mirrors
fold away54
side view mirrors (power)53
Motorcraft parts232, 249, 270

0

Octane rating	254
Oil (see Engine oil)	237

P

Parking brake168
Parts (see Motorcraft parts)270

Power distribution box (see Fuses)196
Power door locks58
Power mirrors53
Power point51
Power steering
Power Windows52
Preparing to drive your vehicle174

R

Radio20, 22, 26
Relays192, 199
Remote entry system62 illuminated entry66 locking/unlocking doors58, 63–64
panic alarm64 replacement/additional transmitters65 replacing the batteries64
Reverse sensing system185
Roadside assistance189
Roll stability control170

S

Safety Belt Maintenance86
Safety belts (see Safety
restraints)77–81
Safety defects, reporting224–225
Safety restraints77–81
Belt-Minder [®] 82

283

https://www.MyCarManual.com

extension assembly
Safety seats for children101
Seats70 child safety seats101 front seats70
SecuriLock passive anti-theft system66, 68
Servicing your vehicle233
Setting the clock AM/FM stereo21 AM/FM/In-dash 6 CD24, 28
Spare tire (see Changing the Tire)203
Spark plugs, specifications270, 274
Special notice
Specification chart, lubricants271
Speed control54
Stability system170
Starting a flex fuel vehicle164
Starting your vehicle162–164 jump starting210
Steering wheel tilting48

Т

Temperature control	
(see Climate control)	32, 34

284

Tilt steering wheel48
Tire Pressure Monitoring System (TPMS) Tires, Wheels and Loading133
Tires
Towing
Traction control169
Traction-lok rear axle174
Transmission
fluid, refill capacities271 lubricant specifications271
Turn signal40

V

Vehicle Identification Number (VIN)275	
Vehicle loading145	
Ventilating your vehicle165	

https://www.MyCarManual.com

W	
Warning	li

Warning lights (see Lights)12
Washer fluid236
Water, Driving through188
Windows
power52

Windshield washer fluid and
wipers
checking and adding fluid236
replacing wiper blades237
Wrecker towing216

https://www.MyCarManual.com

285