

Contents

Before driving

Introduction 2

Instrumentation 8

Controls and features 17

Seating and safety restraints 71

Starting and driving

Starting 104

Driving 109

Roadside emergencies 127

Servicing

Maintenance and care 150

Capacities and specifications 199

Customer assistance 210

Reporting safety defects 222

Index 223

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 © 1999 Ford Motor Company

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

government emission standards. The OBD II system also assists the service technician in properly servicing your vehicle.

The *Service Engine Soon* indicator light illuminates when the ignition is first turned to the ON position to check the bulb. If it comes on after the engine is started, one of the engine's emission control systems may be malfunctioning. The light may illuminate without a driveability concern being noted. The vehicle will usually be drivable and will not require towing.

What you should do if the *Service Engine Soon* light illuminates Light turns on solid:

This means that the OBD II system has detected a malfunction.

Temporary malfunctions may cause your *Service Engine Soon* light to illuminate. Examples are:

1. The vehicle has run out of fuel. (The engine may misfire or run poorly.)
2. Poor fuel quality or water in the fuel.
3. The fuel cap may not have been properly installed and securely tightened.

These temporary malfunctions can be corrected by filling the fuel tank with high quality fuel of the recommended octane and/or properly installing and securely tightening the gas cap. After three driving cycles without these or any other temporary malfunctions present, the *Service Engine Soon* light should turn off. (A driving cycle consists of a cold engine startup followed by mixed city/highway driving.) No additional vehicle service is required.

If the *Service Engine Soon* light remains on, have your vehicle serviced at the first available opportunity.

Light is blinking:

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

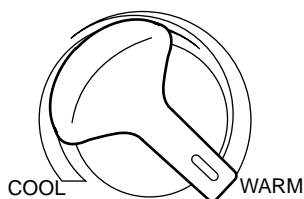


Under engine misfire conditions, excessive exhaust temperatures could damage the catalytic converter, the fuel system, interior floor coverings or other vehicle components, possibly causing a fire.

Controls and features

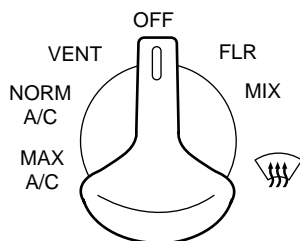
Temperature control knob

Controls the temperature of the airflow inside the vehicle.



Mode selector control

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



The air conditioning compressor will operate in all modes except VENT and FLR. However, the air conditioning will only function if the outside temperature is about 10°C (50°F) or higher.

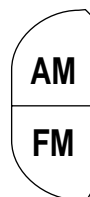
Since the air conditioner removes considerable moisture from the air during operation, it is normal if clear water drips on the ground under the air conditioner drain while the system is working and even after you have stopped the vehicle.

- **MAX A/C**-Uses recirculated air to cool the vehicle. MAX A/C is noisier than NORM A/C but more economical and will cool the inside of the vehicle faster. Airflow will be from the instrument panel registers. This mode can also be used to prevent undesirable odors from entering the vehicle.
- **NORM A/C**-Uses outside air to cool the vehicle. It is quieter than MAX A/C but not as economical. Airflow will be from the instrument panel registers.
- **VENT**-Distributes outside air through the instrument panel registers. However, the air will not be cooled below the outside temperature because the air conditioning does not operate in this mode.

Controls and features

AM/FM select

The AM/FM select control works in radio and tape modes.



AM/FM select in radio mode

This control allows you to select AM or FM frequency bands. Press the AM control to select from AM selections, and press the FM control to select from FM1 or FM2 memory preset stations.

AM/FM select in tape mode

Press this control to stop tape play and begin radio play.

Tune adjust

The tune control works in radio mode.

Tune adjust in radio mode

- Press ◀ to move to the next frequency down the band (whether or not a listenable station is located there). Hold the control to move through the frequencies quickly.
- Press ▶ to move to the next frequency up the band (whether or not a listenable station is located there). Hold for quick movement.

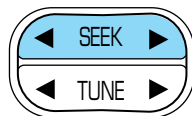


Seek function

The seek function control works in radio mode.

Seek function in radio mode

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



Controls and features

Starting autosest memory preset

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



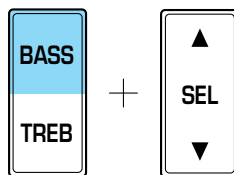
If there are less than six strong stations available on the frequency band, the remaining memory preset controls will all store the last strong station available.

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

Bass adjust

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

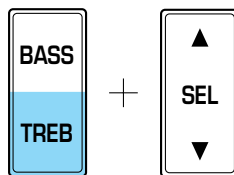
Press the BASS control. Use the SEL control to increase or decrease the amount of bass.



Treble adjust

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

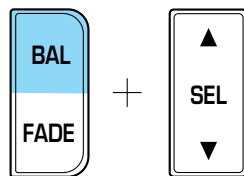
Press the TREB control. Use the SEL control to increase or decrease the amount of treble.



Speaker balance adjust

Speaker sound distribution can be adjusted between the right and left speakers.

Press the BAL control. Use the SEL control to adjust the sound between the speakers.



Controls and features

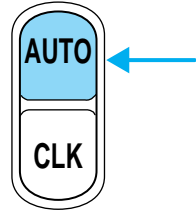
Starting autoselect memory preset

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

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

These stations are temporarily stored in the memory preset controls (until deactivated) and are accessed in the same manner of your original presets.

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

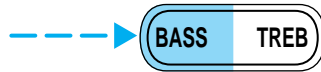


Bass adjust

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

Press the BASS control then press:

- ◀ to decrease the bass output and
- ▶ to increase the bass output.



Treble adjust

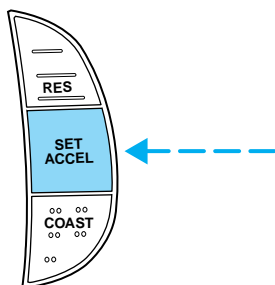
The treble adjust control allows you to increase or decrease the audio system's treble output.



Controls and features

To set a higher set speed

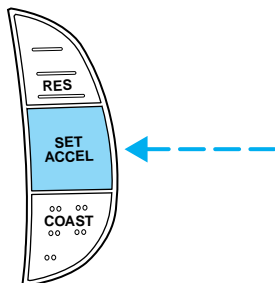
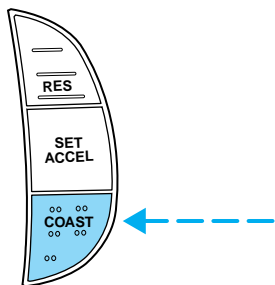
- Press and hold SET/SET ACC/SET ACCEL. Release the control when the desired vehicle speed is reached or
- Press and release SET/SET ACC/SET ACCEL. Each press will increase the set speed by 1.6 km/h (1 mph) or
- Accelerate with your accelerator pedal. When the desired vehicle speed is reached, press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



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

To set a lower set speed

- Press and hold CST/COAST. Release the control when the desired speed is reached or
- Press and release CST/COAST. Each press will decrease the set speed by 1.6 km/h (1 mph) or
- Depress the brake pedal. When the desired vehicle speed is reached, press SET/SET ACC/SET ACCEL.



Seating and safety restraints

SEATING

Adjusting the front manual seat



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



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

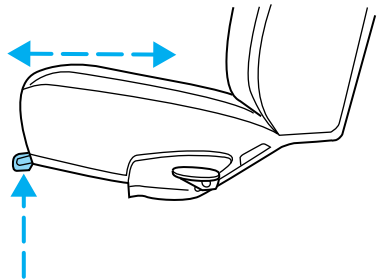


Always drive and ride with your seatback upright and the lap belt snug and low across the hips.

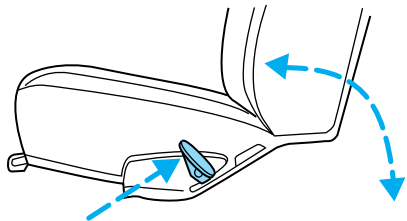


Reclining the seatback can reduce the effectiveness of the seat's safety belt in the event of a collision.

Lift handle to move seat forward or backward.



Pull lever up to adjust seatback.



Seating and safety restraints

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.

Safety belt pretensioner

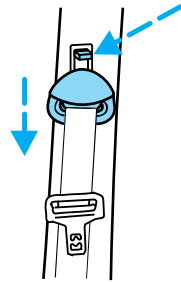
Your vehicle is equipped with safety belt pretensioners at the driver and front passenger seating positions.

The safety belt pretensioner is a device which removes excess webbing from the safety belt system. The safety belt pretensioner uses the same crash sensor system as the front air bag supplemental restraint system (SRS). When the safety belt pretensioner deploys, webbing from the lap and shoulder belt is tightened. The driver and front passenger seat belt system (including retractors, buckles and height adjusters) must be replaced if the vehicle is involved in a collision that results in deployment of front air bags and safety belt pretensioners.

Front safety belt height adjustment

Your vehicle has safety belt height adjustments for the driver and front passenger. Adjust the height of the shoulder belt so the belt rests across the middle of your shoulder.

To lower the shoulder belt height, push the button and slide the height adjuster down. To raise the height of the shoulder belt, slide the height adjuster up. Pull down on the height adjuster to make sure it is locked in place.



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

Seating and safety restraints

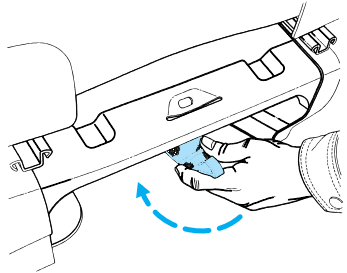
The air bags inflate and deflate rapidly upon activation. After air bag deployment, it is normal to notice a smoke-like, powdery residue or smell the burnt propellant. This may consist of cornstarch, talcum powder (to lubricate the bag) or sodium compounds (e.g., baking soda) that result from the combustion process that inflates the air bag. Small amounts of sodium hydroxide may be present which may irritate the skin and eyes, but none of the residue is toxic.

While the system is designed to help reduce serious injuries, contact with a deploying air bag may also cause abrasions, swelling or temporary hearing loss. Because air bags must inflate rapidly and with considerable force, there is the risk of death or serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of air bag deployment. Thus, it is extremely important that occupants be properly restrained as far away from the air bag module as possible while maintaining vehicle control.

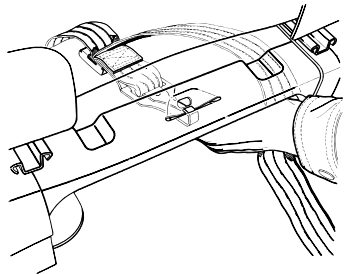


Seating and safety restraints

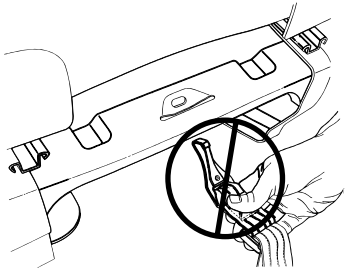
5. Rotate the tether strap as shown.



6. Clip the tether strap to the seat pedestal as shown.



Do not clip the tether strap to the seat pedestal as shown.



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



CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below

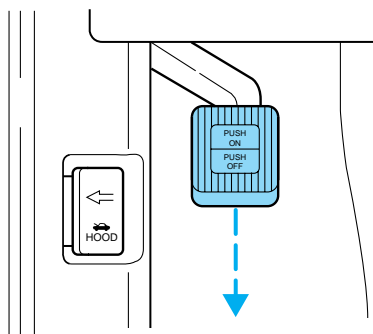


- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

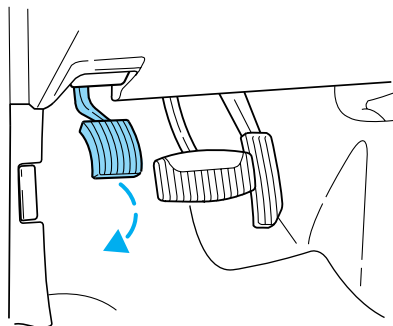
Parking brake (P)

- Type A



- Type B

Apply the parking brake whenever the vehicle is parked. Push pedal downward to set the parking brake.



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

BRAKE
(!)



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

The parking brake is not recommended to stop a moving vehicle. However, if the normal brakes fail, the parking brake can be used to stop your vehicle in an emergency. Since the parking brake applies only the rear brakes, the vehicle's stopping distance will increase greatly and the handling of your vehicle will be adversely affected.

Trailer Towing Table

GCWR (Gross Combined Weight Rating)/Trailer Weights

Engine	Rear axle ratio	Maximum GCWR-kg (lbs.)	Trailer weight range-kg (lbs.) (0-Maximum)	Maximum Frontal Area Of Trailer-m ² (ft ²)
Regular Van E-250				
4.2L	3.73	4 763 (10 500)	2 359 (5 200)	5.52 (60)
5.4L	3.73	5 897 (13 000)	3 402 (7 500)	5.52 (60)
Regular Van E-250 HD (3 901 kg [8 600 lb.]-3 924 kg [8 650 lb.] GVW)				
4.2L	4.09	4 990 (11 000)	2 586 (5 700)	5.52 (60)
5.4L	3.73	5 897 (13 000)	3 402 (7 500)	5.52 (60)
Super Van E-250				
4.2L	3.73	4 763 (10 500)	2 313 (5 100)	5.52 (60)
5.4L	3.73	5 897 (13 000)	3 357 (7 400)	5.52 (60)
Super Van E-250 HD (3 901 kg [8 600 lb.]-3 924 kg [8 650 lb.] GVW)				
4.2L	4.09	4 990 (11 000)	2 540 (5 600)	5.52 (60)
5.4L	3.73	5 897 (13 000)	3 356 (7 400)	5.52 (60)
Regular Van E-350				
5.4L	3.55	5 443 (12 000)	2 948 (6 500)	5.52 (60)
5.4L	4.10	5 897 (13 000)	3 402 (7 500)	5.52 (60)
6.8L	3.73	6 804 (15 000)	4 218 (9 300)	5.52 (60)
6.8L	4.10	8 392 (18 500)	4 536 (10 000)	5.52 (60)
Super Van E-350				
5.4L	3.55	5 443 (12 000)	2 858 (6 300)	5.52 (60)
5.4L	4.10	5 897 (13 000)	3 311 (7 300)	5.52 (60)
6.8L	3.73	6 804 (15 000)	4 173 (9 200)	5.52 (60)
6.8L	4.10	8 392 (18 500)	4 536 (10 000)	5.52 (60)
Club Wagon E-150 (8 passenger)				
4.2L	3.55	4 536 (10 000)	2 132 (4 700)	5.52 (60)
4.6L	3.55	5 216 (11 500)	2 767 (6 100)	5.52 (60)
5.4L	3.55	5 443 (12 000)	2 948 (6 500)	5.52 (60)

Roadside emergencies



Always replace a fuse with one that has the specified amperage rating. Using a fuse with a higher amperage rating can cause severe wire damage and could start a fire.

Standard fuse amperage rating and color

COLOR					
Fuse Rating	Mini Fuses	Standard Fuses	Maxi Fuses	Cartridge Maxi Fuses	Fuse Link Cartridge
2A	Grey	Grey	—	—	—
3A	Violet	Violet	—	—	—
4A	Pink	Pink	—	—	—
5A	Tan	Tan	—	—	—
7.5A	Brown	Brown	—	—	—
10A	Red	Red	—	—	—
15A	Blue	Blue	—	—	—
20A	Yellow	Yellow	Yellow	Blue	Blue
25A	Natural	Natural	—	—	—
30A	Green	Green	Green	Pink	Pink
40A	—	—	Orange	Green	Green
50A	—	—	Red	Red	Red
60A	—	—	Blue	—	Yellow
70A	—	—	Tan	—	Brown
80A	—	—	Natural	—	Black

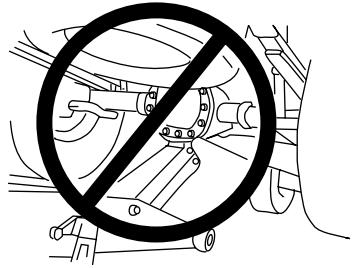
Passenger compartment fuse panel

The fuse panel is located below and to the left of the steering wheel by the brake pedal. Remove the panel cover to access the fuses.

To remove a fuse use the fuse puller tool provided on the fuse panel cover.

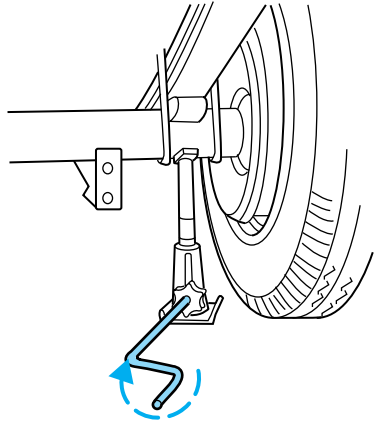
Roadside emergencies

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

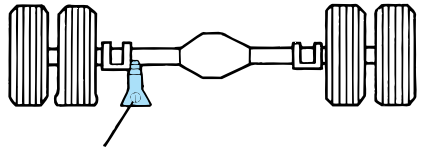


Rear axle jacking points:

- All models except E-Super Duty



- E-Super Duty



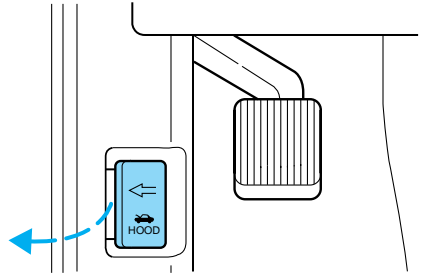
Maintenance and care



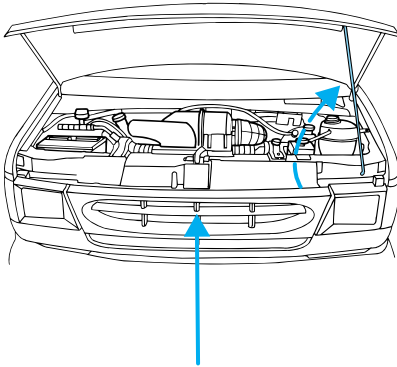
Do not start your engine with the air cleaner removed and do not remove it while the engine is running.

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 release the auxiliary latch that is located in the center top of the grill.



3. Lift the hood and secure it with the prop rod.

Maintenance and care

mixture of engine coolant and distilled water to the engine coolant reservoir until the coolant level is at the “cold fill level” or within the “cold fill range” as listed on the reservoir (depending upon application).

Have your dealer check the engine cooling system for leaks if you have to add more than 1.0 liter (1.0 quart) of engine coolant per month.



To avoid scalding hot steam or coolant from being released from the engine cooling system, never remove the radiator cap while the engine is running or hot. Failure to follow this warning may result in damage to the engine’s cooling system and possible severe personal injury.

If you must remove the radiator cap, follow these steps to avoid personal injury:

1. Before you remove the cap, turn the engine off and let it cool.
2. When the engine is cool, wrap a thick cloth around the cap. Slowly turn cap counterclockwise 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.

Recycled engine coolant

Ford Motor Company recommends the use of a recycled engine coolant produced by Ford-approved processes.

Not all coolant recycling processes produce coolant which meets Ford specification ESE-M97B44-A. Use of a recycled engine coolant which does not meet the Ford specification may harm engine and cooling system components.



Always dispose of used automotive fluids in a responsible manner. Follow your community’s regulations and standards for recycling and disposing of automotive fluids.

Coolant refill capacity

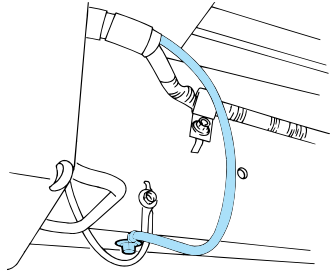
To find out how much fluid your vehicle’s cooling system can hold, refer to *Refill capacities* in the *Capacities and specifications* chapter.

Fill your engine coolant reservoir as outlined in *Adding engine coolant* in this chapter.

Maintenance and care

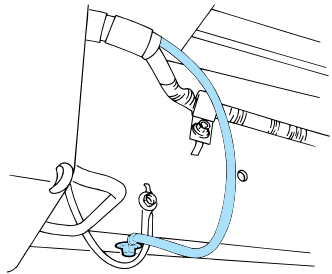
2. Disconnect the auxiliary battery frame ground.

- Remove the ground bolt.
- Pull the cable away from the frame and make sure that the cable does not contact the frame.

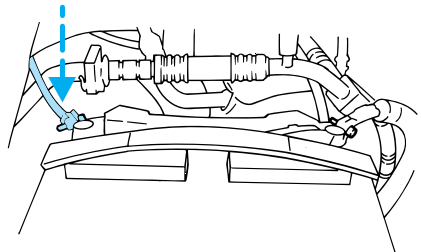


Connect:

1. Reconnect the auxiliary battery frame ground.



2. Reconnect the primary battery ground cable.



Diesel engines

Disconnect:



Secondary positive cable remains energized after disconnection. make sure the tool does not contact any ground surface.

Choosing the right fuel

Use only UNLEADED FUEL. The use of leaded fuel is prohibited by law and could damage your vehicle.

Do not use fuel containing methanol. It can damage critical fuel system components.

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

Repairs to correct the effects of using a fuel for which your vehicle was not designed may not be covered by your warranty.

Octane recommendations

Your vehicle is designed to use “Regular” unleaded gasoline with an (R+M)/2 octane rating of 87. We do not recommend the use of gasolines labeled as “Regular” that are sold with octane ratings of 86 or lower in high altitude areas.



Do not be concerned if your engine sometimes knocks lightly. However, if it knocks heavily under most driving conditions while you are using fuel with the recommended octane rating, see your dealer or a qualified service technician to prevent any engine damage.

Fuel quality

If you are experiencing starting, rough idle or hesitation driveability problems during a cold start, try a different brand of “Regular” unleaded gasoline. “Premium” unleaded gasoline is not recommended (particularly in the United States) because it may cause these problems to become more pronounced. If the problems persist, see your dealer or a qualified service technician.

It should not be necessary to add any aftermarket products to your fuel tank if you continue to use high quality fuel of the recommended octane rating. Aftermarket products could cause damage to the fuel system. Repairs to correct the effects of using an aftermarket product in your fuel may not be covered by your warranty.

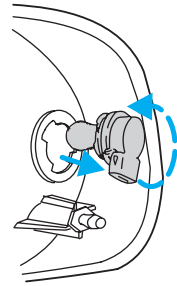
Many of the world’s automakers issued the World-wide Fuel Charter that recommends gasoline specifications to provide improved performance and emission control system protection for your vehicle. Gasolines that meet the World-wide Fuel Charter should be used when available. Ask

Maintenance and care

Replacing front parking lamp/turn signal bulbs

1. Make sure the headlamp control is in the OFF position.
2. Open the hood.
3. Remove two screws and pull lamp assembly away from the vehicle.
4. Rotate the bulb socket counterclockwise and remove.
5. Carefully pull out the bulb straight out of the socket and push in new bulb.

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

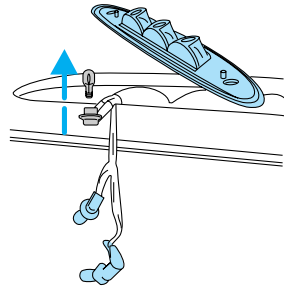


Replacing high-mount brakelamp bulbs

The interior cargo lamp (if equipped) will have to be removed from under the high-mount brakelamp assembly located inside the vehicle.

To change the high-mount brakelamp bulbs:

1. Remove the two screws from the high-mount brakelamp assembly.
2. Remove the bulb from the lamp assembly by turning counterclockwise.
3. Carefully pull the bulb straight out of the socket and push in the new bulb.
4. Install bulb socket in lamp assembly by turning clockwise.
5. Install brakelamp assembly on the vehicle with two screws.



Capacities and specifications

Fluid	Ford Part Name	Application	Capacity
Power steering fluid	Motorcraft MERCON® ATF	All	Keep in FULL range on dispstick
Rear axle	Refer to Footnote 4	Ford 8.8/9.75 inch conventional and Traction-Lok	2.6-2.7L (5.5-5.8 pints) ²
		Dana 9.75 inch (M60-IU)	3.0L (6.3 pints) ³
		Dana 10.5 inch (M70-2U)	3.1L (6.6 pints) ³
		Dana 10.5 inch (M70-1HD)	3.5L (7.5 pints) ³
		Dana 11.25 inch (model 80)	3.9L (8.25 pints) ⁴
Fuel tank	N/A	All regular and extended length vans and wagons	132.4L (35.0 gallons)
		138 inch wheelbase (except E-Super Duty)	140.0L (37.0 gallons)
		158 inch wheelbase (except E-Super Duty)	140.0L (37.0 gallons) ⁵
		176 inch wheelbase (except E-Super Duty)	140.0L (37.0 gallons)
		158 inch and 176 inch wheelbase (E-Super Duty)	208.0L (55.0 gallons)

Customer assistance

If you have questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

1. Contact your Sales Representative or Service Advisor at your selling/servicing dealership.
2. If your inquiry or concern remains unresolved, contact the Sales Manager or Service Manager at the dealership.
3. If the inquiry or concern cannot be resolved at the dealership level, please contact the Ford Customer Assistance Center.

Ford Motor Company and Ford of Canada dealerships also carry quality parts and accessories, providing you with equipment reliability.

Away from home

If you own a Ford or Mercury vehicle and are away from home when your vehicle needs service, or if you need more help than the dealership could provide, after following the steps described above, contact the Ford Customer Assistance Center to find an authorized dealership to help you. In the United States:

Ford Motor Company
Customer Assistance Center
16800 Executive Plaza Drive
P.O. Box 6248
Dearborn, Michigan 48121
1-800-392-3673 (FORD)
(TDD for the hearing impaired: 1-800-232-5952)

In Canada:
Customer Assistance Centre
Ford Motor Company of Canada, Limited
P.O. Box 2000
Oakville, Ontario L6J 5E4
1-800-565-3673 (FORD)

ORDERING ADDITIONAL OWNER'S LITERATURE

To order the publications in this portfolio:

Make checks payable to:

HELM, INCORPORATED

P.O. Box 07150

Detroit, Michigan 48207

For a free publication catalog, order toll free: 1-800-782-4356

Monday-Friday 8:00 a.m. - 6:00 p.m. EST,

for credit card holders only

Obtaining a French owner's guide

French Owner's Guides can be obtained from your dealer or by writing to Ford Motor Company of Canada, Limited, Service Publications, P.O. Box 1580, Station B, Mississauga, Ontario L4Y 4G3.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL