

General Owner's Information

[illegible]

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

Ford Motor Company
Worldwide Direct Market Operations
1555 Fairlane Drive
Allen Park, Michigan 48101 U.S.A.
Telephone: (313) 594-4857
Fax: (313) 390-0804

Table of Contents

General Owner's Information 1
Find Your Way 2
General Maintenance Information 4
Owner Checks and Services 7
Normal Schedule 9
 Mileage Intervals 10
 Exceptions 33
Special Operating Conditions 35
Maintenance and Service Record 37

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.

Copyright © 1999 Ford Motor Company

Find Your Way

Symbol Key



Cars and Minivans



Light Trucks, Sport Utilities, and Vans



4x4 Vehicles



Diesel

Diesel



Natural Gas Vehicles (NGV) and Propane



Towing a trailer or using a camper or car-top carrier



Extensive idling and/or low-speed driving for long distances as in heavy commercial use such as delivery, taxi, patrol car or livery



Operating in dusty conditions such as unpaved or dusty roads



Off-road operation

General Maintenance Information

Why Maintain Your Vehicle?

This guide describes the scheduled maintenance required for your vehicle. Carefully following this schedule helps protect against major repair expenses resulting from neglect or inadequate maintenance and may also help to increase the value of your vehicle when you sell or trade it.

It is your responsibility to see that all scheduled maintenance is performed and that the materials used meet Ford engineering specifications. Failure to perform scheduled maintenance specific in this guide will invalidate warranty coverage on parts affected by the lack of maintenance. Be sure receipts for completed maintenance are kept with the vehicle and confirmation of the work performed is always recorded in this guide.

Your Ford or Lincoln Mercury dealer, or Ford or Lincoln Mercury Auto Care service center has factory trained technicians who can perform the required maintenance using genuine Ford parts. They are committed to meeting your service needs and to assuring your continuing satisfaction.

Protecting Your Investment

Maintenance is an investment that will pay dividends in the form of improved reliability, durability and resale value. To assure the proper performance of your vehicle and its emission control systems, it is imperative that scheduled maintenance be completed at the designated intervals.

Ford strongly recommends the use of genuine Ford replacement parts. Parts other than Ford, Motorcraft or Ford authorized remanufactured parts that are used for maintenance replacement or for the service of components affecting emission control must be equivalent to genuine Ford Motor Company parts in performance and durability. It is the owner's responsibility to determine the equivalency of such parts. Please consult your Warranty Guide for complete warranty information.

General Maintenance Information

PCV Valve Replacement

The PCV valve is a critical emission component. For the 2000 model year Ranger light truck equipped with 2.5L 4 cylinder engine, the dealer will replace the PCV valve free of charge at **60,000 miles** except in Canada, on California certified vehicles registered in California, and on California certified vehicles registered in states that have adopted California standards. The valve should be replaced again at **120,000 miles**, but this will be at the owner's expense.

For all passenger cars and light trucks under 6,000 Gross Vehicle Weight (GVW), regardless of engine the PCV valve should be replaced at **100,000 miles**.

This replacement will be at the owner's expense.

For all light trucks over 6,000 GVW, regardless of engine, the PCV valve should be replaced at **120,000 miles**. This replacement will be at the owner's expense.

If you are unsure about your engine type or GVW ask your dealer.

General Maintenance Information

Which Maintenance Schedule Should You Follow?

Normal Schedule

The Normal Schedule applies to those who operate their vehicle under typical, everyday driving conditions. The maintenance frequency represented in this schedule typifies what the vast majority of vehicle operators will require. The listed services should be performed at specified mileage intervals.

Special Operating Conditions

If you operate your Ford/Lincoln/Mercury **primarily** in one of the more demanding “**Special Operating Conditions**” listed below, you will need to have some items maintained more frequently, see page 35. If you only **occasionally** operate your vehicle under these conditions, it is not necessary to perform the additional maintenance. For specific recommendations, see your dealership service advisor or qualified service professional.

These special operating conditions are:

- Towing or carrying heavy loads
- Extensive idling and/or driving at low-speeds for long distances
- Driving in dusty conditions
- Off-road operation

Exceptions

In addition, there are several exceptions to the Normal Schedule for specific vehicles or special applications on page 33.

These exceptions are:

- Natural Gas Vehicles - replace the gas tank(s)
- Class A Motorhome - change the brake fluid
- Normal vehicle axle - maintenance and lubrication
- Police and Taxi vehicle axles - maintenance and lubrication

If you have any questions about your driving conditions, or for further clarification, please see your dealer.

Owner Checks and Services

Refer to Mileage Intervals for Additional Checks and Services

Certain basic maintenance checks and inspections should be performed by the owner or a service technician at the intervals indicated. Service information and supporting specifications are provided in the Owner's Guide.

Any adverse condition should be brought to the attention of your dealer or qualified service technician as soon as possible for the proper service advice. The owner maintenance service checks are generally not covered by warranties so you may be charged for labor, parts or lubricants used.



Check Every Month for All Vehicles:

- ☐ Check function of all interior and exterior lights
- ☐ Check tires for wear and proper air pressure
- ☐ Check engine oil fluid level
- ☐ Check windshield washer solvent fluid level
- ☐ Check and drain fuel/water separator (diesel vehicles)

Owner Checks and Services



Check Every Six Months for All Vehicles:

- ☐ Check lap/shoulder belts and seat latches for wear and function
- ☐ Check air pressure in spare tire
- ☐ Check power steering fluid level
- ☐ Check washer spray, wiper operation, and clean all wiper blades
- ☐ Check parking brake for proper operation
- ☐ Check and lubricate all hinges, latches and outside locks
- ☐ Check and lubricate door rubber weatherstrips
- ☐ Check and clean body and door drain holes
- ☐ Check safety warning lamps (brake, ABS, air bag, safety belt) for operation
- ☐ Check cooling system fluid level and coolant strength
- ☐ Check battery water level (non-maintenance free)
- ☐ Check battery connections and clean if necessary
- ☐ Check clutch fluid level, if equipped



Every 5,000 miles

- ☐ Adjust clutch by lifting pedal (manual transmission Mustang only)

Normal Schedule

The following section contains the "Normal Schedule." This schedule is presented at specific mileage intervals with exceptions noted. In addition, those items listed in *italic type* are additional services that **only** the noted vehicles require.

Additional Information Available on the Web

To learn more about the importance of routine and dealer-performed maintenance on your vehicle, please visit the Ford Customer Service website. You'll also find important warranty information, customer assistance, technical expertise, frequently asked questions and much more. The website location is at: www.ford.com/customerservice/

Normal Schedule

5,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear and rotate



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

10,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

Normal Schedule

15,000 miles

Normal Schedule



**Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles**

- ☐ Change engine oil and replace oil filter
- ☐ Inspect automatic transmission fluid level, if equipped with dipstick
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace cabin air filter, if equipped



**Additional services for: Light Trucks,
Sport Utilities, and Vans**

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ *Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)*



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

Normal Schedule

20,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

25,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

Normal Schedule

30,000 miles

Normal Schedule



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses
- ☐ Inspect exhaust system and heat shields
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace engine air filter
- ☐ Replace fuel filter*
- ☐ Replace cabin air filter, if equipped
- ☐ Inspect accessory drive belt(s) (Villager)
- ☐ Change automatic transmission/transaxle fluid on all vehicles equipped with AX4S, AX4N, 4R70W, 4R100, 4F27E. Inspect automatic transmission fluid level on all other vehicles, if equipped with dipstick. Consult your dealer for your particular requirements.
- ☐ Replace climate-controlled seat filters (Navigator, if equipped)



Additional services for: Light Trucks, Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)

*If vehicle is registered in California, the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle's useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.

Normal Schedule



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system



Additional services for: Natural Gas Vehicles

- ☐ Inspect NGV tanks

35,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

Normal Schedule

40,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

45,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect automatic transmission fluid level, if equipped with dipstick
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace cabin air filter, if equipped
- ☐ Change green engine coolant, if equipped

Normal Schedule



Additional services for: Light Trucks,
Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

50,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

Normal Schedule

55,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

60,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses
- ☐ Inspect exhaust system and heat shields
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace engine air filter

Normal Schedule

- ☐ Replace fuel filter*
- ☐ Replace cabin air filter, if equipped
- ☐ Inspect drive belt (Villager)
- ☐ Replace PCV valve (All 4 cylinder Ranger light trucks. See page 5.)
- ☐ Change automatic transmission/transaxle fluid on all vehicles equipped with AX4S, AX4N, 4R70W, 4R100, 4F27E. Inspect automatic transmission fluid level on all other vehicles, if equipped with dipstick. Consult your dealer for your particular requirements.
- ☐ Replace climate-controlled seat filters (Navigator, if equipped)



Additional services for: Light Trucks, Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Lubricate 4X2 wheel bearings, replace grease seals, and adjust bearings
- ☐ Change manual transmission fluid
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

*If vehicle is registered in California, the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle's useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.

Normal Schedule

Normal Schedule



Additional services for: Natural Gas Vehicles

- ☐ Inspect NGV tanks

65,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

70,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.

Normal Schedule



Additional services for: Diesel

- Check air filter minder, replace filter as required

75,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- Change engine oil and replace oil filter
- Inspect automatic transmission fluid level, if equipped with dipstick
- Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- Inspect engine cooling system and hoses
- Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- Inspect tires for wear and rotate
- Replace cabin air filter, if equipped
- Change green engine coolant, if equipped



Additional services for: Light Trucks, Sport Utilities, and Vans

- Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- *Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)*

Normal Schedule

Normal Schedule



Diesel

Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

80,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Diesel

Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

85,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.

Normal Schedule



Additional services for: Diesel

- Check air filter minder, replace filter as required

90,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- Change engine oil and replace oil filter
- Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- Inspect engine cooling system and hoses
- Inspect exhaust system and heat shields
- Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- Inspect tires for wear and rotate
- Replace engine air filter
- Replace fuel filter*
- Replace cabin air filter, if equipped
- Inspect drive belt (Villager)
- Change automatic transmission/transaxle fluid on all vehicles equipped with AX4S, AX4N, 4R70W, 4R100, 4F27E. Inspect automatic transmission fluid level on all other vehicles, if equipped with dipstick. Consult your dealer for your particular requirements.
- Replace climate-controlled seat filters (Navigator, if equipped)

*If vehicle is registered in California, the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle's useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.

Normal Schedule

Normal Schedule



Additional services for: Light Trucks, Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system



Additional services for: Natural Gas Vehicles

- ☐ Inspect NGV tanks

95,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.

Normal Schedule



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

100,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect accessory drive belt(s)
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.
- ☐ Replace spark plugs
- ☐ Replace the PCV on all passenger cars and light trucks under 6,000 Gross Vehicle Weight. (See page 5.)



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

Normal Schedule

105,000 miles

Normal Schedule



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect automatic transmission fluid level, if equipped with dipstick
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace cabin air filter, if equipped
- ☐ Change green engine coolant, if equipped
- ☐ Replace camshaft belt (Villager)



Additional services for: Light Trucks, Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

Normal Schedule

110,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

115,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

Normal Schedule

120,000 miles

Normal Schedule



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses
- ☐ Inspect exhaust system and heat shields
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace engine air filter
- ☐ Replace fuel filter*
- ☐ Replace cabin air filter, if equipped
- ☐ Inspect drive belt (Villager)
- ☐ Replace PCV valve on all light trucks over 6,000 Gross Vehicle Weight and Rangers with 4 cylinder engines. (See page 5.)
- ☐ Change automatic transmission/transaxle fluid on all vehicles equipped with AX4S, AX4N, 4R70W, 4R100, 4F27E. Inspect automatic transmission fluid level on all other vehicles, if equipped with dipstick. Consult your dealer for your particular requirements.
- ☐ Inspect camshaft belt on all 2.0L, 4 cylinder engines (Escort, Tracer, Contour, Mystique, Cougar, and ZX2)
- ☐ Replace climate-controlled seat filters (Navigator, if equipped)

*If vehicle is registered in California, the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle's useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.

Normal Schedule



Additional services for: Light Trucks,
Sport Utilities, and Vans

- ☐ Change manual transmission fluid
- ☐ Lubricate 4X2 wheel bearings (except F-450/F-550)
- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ *Inspect camshaft belt on 4 cylinder engine (2.5L Ranger)*
- ☐ *Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)*



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system



Additional services for: Natural Gas Vehicles

- ☐ Drain coalescent fuel filter bowl and replace filter
- ☐ Inspect NGV tanks

125,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.

Normal Schedule

Normal Schedule



Additional services for: Diesel

- Check air filter minder, replace filter as required

130,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- Change engine oil and replace oil filter
- Inspect tires for wear. Rotation recommended for optimal tire life.



Additional services for: Diesel

- Check air filter minder, replace filter as required

135,000 miles



Cars, Minivans, Light Trucks, Sport Utilities, Vans, 4x4, Natural Gas, Propane, and Diesel Vehicles

- Change engine oil and replace oil filter
- Inspect automatic transmission fluid level, if equipped with dipstick
- Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system

Normal Schedule

- ☐ Inspect engine cooling system and hoses
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace cabin air filter, if equipped
- ☐ Replace green engine coolant, if equipped



Additional services for: Light Trucks,
Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

140,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.

Normal Schedule

Normal Schedule



Diesel

Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

145,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect tires for wear. Rotation recommended for optimal tire life.



Diesel

Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required

150,000 miles



Cars, Minivans, Light Trucks, Sport Utilities,
Vans, 4x4, Natural Gas, Propane, and Diesel
Vehicles

- ☐ Change engine oil and replace oil filter
- ☐ Inspect brake pads/shoes/rotors/drums, brake lines & hoses, and parking brake system
- ☐ Inspect engine cooling system and hoses

Normal Schedule

- ☐ Inspect exhaust system and heat shields
- ☐ Inspect steering linkage, suspension, and if equipped driveshaft and ball joints
- ☐ Inspect tires for wear and rotate
- ☐ Replace engine air filter
- ☐ Replace fuel filter*
- ☐ Replace cabin air filter, if equipped
- ☐ Replace orange engine coolant, if equipped
- ☐ Change automatic transmission/transaxle fluid and filter
- ☐ Replace rear axle lubricant on all rear wheel drive (RWD) vehicles.
- ☐ Inspect drive belt (Villager)
- ☐ Replace climate-controlled seat filters (Navigator, if equipped)



Additional services for: Light Trucks, Sport Utilities, and Vans

- ☐ Inspect and lubricate 4X2 ball joints (except F-450/F-550)
- ☐ Replace 4x2 wheel bearings, grease seals, lubricate and adjust bearings
- ☐ Inspect and lubricate steering linkage (E and F Series, Expedition, Navigator, Excursion)



Additional services for: 4x4 Vehicles

- ☐ Change front axle lubricant
- ☐ Change transfer case fluid



Additional services for: Diesel

- ☐ Check air filter minder, replace filter as required
- ☐ Replace fuel filter
- ☐ Add 8 to 10 oz. of FW16 coolant conditioner to cooling system

*If vehicle is registered in California, the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle's useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.

Normal Schedule



Additional services for: Natural Gas Vehicles

- ☐ Inspect NGV tanks

Exceptions

In addition, there are several exceptions to the Normal Schedule. They are listed below:

Natural Gas and Propane Vehicles

- ☐ Every 15 years - Replace NGV or propane fuel tank(s)

Class A Motorhome

- ☐ Every two years - Change brake fluid
- ☐ Every 30,000 miles - Change automatic transmission fluid

Normal Vehicle Axle Maintenance

- ☐ Rear axles containing synthetic lubricant and light duty trucks equipped with Ford-design axles are lubricated for life. These lubricants are not 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 anytime the axle has been submerged in water.
Non-synthetic rear axle lubricants should be replaced every 3,000 miles or 3 months, whichever occurs first, during extended trailer tow operation above 21 Celsius (70 degrees Fahrenheit) ambient and wide open throttle for extended periods above 45 mph. The 3,000 mile lube change interval may be waived

Normal Schedule

if the axle was filled with 75W140 synthetic gear lubricant meeting Ford specification WSL-M2C192-A, part number FITZ-19580-B or equivalent. Add four ounces of additive friction modifier C8AZ-19B546-A (EST-M2C118-A) or equivalent for complete refill of Traction-Lok rear axles. The rear axle lubricant should be changed anytime the axle has been submerged in water.

Police and Taxi Vehicle Axle Maintenance

- Replace rear axle lubricant every 160,000 km (100,000 miles). Rear axle lubricant change may be waived if the axle was filled with 75W140 synthetic gear lubricant meeting Ford specification WSL-M2C192-A, part number FITZ-19580-B or equivalent. Add four ounces of additive friction modifier C8AZ-19B546-A (EST-M2C118-A) or equivalent for complete refill of Traction-Lok rear axles. The rear axle lubricant should be changed anytime the axle has been submerged in water.

F-450 and F-550 Axle Maintenance

- Replace rear axle lubricant every 100,000 miles under normal driving conditions on all F-450 and F-550 commercial applications. For F-450 and F-550 trucks operated at or near maximum Gross Vehicle Weight Ratings, the rear axle lubricant should be replaced every 50,000 miles. In addition, this 50,000 mile schedule should be observed when the vehicles are operated under the Special Operating Conditions, where noted, beginning on page 36.

Special Operating Conditions

Items Needing Special Attention

If you operate your Ford/Lincoln/Mercury **primarily** in one of the more demanding “**Special Operating Conditions**” listed below, you will need to have some items maintained more frequently. If you only **occasionally** operate your vehicle under these conditions, it is not necessary to perform the additional maintenance. For specific recommendations, see your dealership service advisor or qualified service professional.



Towing a trailer or using a camper or car-top carrier

- Every 3,000 miles or 3 months Change engine oil and replace oil filter
- Every 30,000 miles Change automatic transmission fluid
- Every 60,000 miles Change transfer case fluid
- As required Change manual transmission fluid
- As required Inspect and lubricate U-joints



Extensive idling and/or low-speed driving for long distances as in heavy commercial use such as delivery, taxi, patrol car or livery

- Every 3,000 miles or 3 months Change engine oil and replace oil filter
- Lube front lower control arm ball joints with zerk fittings, if equipped
- Every 5,000 miles Inspect brake system
- Every 15,000 miles Replace fuel filter
- Every 30,000 miles Change automatic transmission fluid
- Lubricate 4x2 wheel bearings, replace grease seals, and adjust bearings
- Every 60,000 miles Replace spark plugs
- Change transfer case fluid
- As required Replace cabin air filter

Special Operating Conditions



Operating in dusty conditions such as unpaved or dusty roads

- Every 3,000 miles or 3 months Change engine oil and replace oil filter
- Every 15,000 miles Replace fuel filter
- Every 30,000 miles Change automatic transmission fluid
- Every 50,000 miles Change rear axle lubricant (F-450 and F-550 only)
- Every 60,000 miles Change transfer case fluid
- As required Replace engine air filter
- As required Replace cabin air filter



Off-road operation

- Every 30,000 miles Change automatic transmission fluid
- Every 50,000 miles Change rear axle lubricant (F-450 and F-550 only)
- Every 60,000 miles Change transfer case fluid
- As required Replace cabin air-filter
- As required Inspect and lubricate U-joints

Maintenance and Service Record

See An Authorized Dealer

This section of the guide is designed to allow your Ford or Lincoln Mercury dealer, or Ford or Lincoln Mercury Auto Care service center or other qualified service technician to record that the recommended service was completed at the appropriate mileage intervals. Be sure to ask your service provider to record the type of service rendered (Normal or Special Operating Conditions — SOC) each time service is performed.

Maintenance and Service Record

Date:	Dealer's Stamp:
Mileage:	
Normal <input type="checkbox"/>	
SOC <input type="checkbox"/>	

See corresponding mileage in maintenance schedule for services performed.

Date:	Dealer's Stamp:
Mileage:	
Normal <input type="checkbox"/>	
SOC <input type="checkbox"/>	

See corresponding mileage in maintenance schedule for services performed.

Date:	Dealer's Stamp:
Mileage:	
Normal <input type="checkbox"/>	
SOC <input type="checkbox"/>	

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Maintenance and Service Record

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	------------------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Maintenance and Service Record

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Maintenance and Service Record

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Date:

Mileage:

Normal ☐

SOC ☐

Dealer's Stamp:

See corresponding mileage in maintenance schedule for services performed.

Maintenance and Service Record

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.

Date: Mileage: Normal <input type="checkbox"/> SOC <input type="checkbox"/>	Dealer's Stamp:
--	-----------------

See corresponding mileage in maintenance schedule for services performed.