

## EMISSION CONTROL SYSTEM MAINTENANCE

The “Scheduled” maintenance services, listed in **bold type** on the following pages must be done at the times or mileages specified to assure the continued proper functioning of the emission control system. These, and all other maintenance services included in this manual, should be done to provide best vehicle performance and reliability. More frequent maintenance may be needed for vehicles in severe operating conditions such as dusty areas and very short trip driving.

Inspection and service also should be done any time a malfunction is suspected.

**NOTE: Maintenance, replacement, or repair of the emission control devices and systems on your vehicle may be performed by any automotive repair establishment or individual using any automotive part which has been certified pursuant to U.S. EPA or, in the State of California, California Air Resources Board regulations.**

## EMISSIONS TESTING

In some localities, it may be or will become a legal requirement to ensure that all emissions components and systems are functioning properly as a part of the test procedure. The test center accomplishes this by checking the On Board Diagnostic System (OBD) system with an electronic scan tool. If your vehicle has recently been serviced, the OBD system may have been reset to a “not ready” condition because the OBD system has not had sufficient time since the servicing to reconfirm that emissions components are operating properly. In most cases, a reasonable mix and amount of normal city and highway driving and at least one overnight-off period will be required to prepare your vehicle for this check; however your dealer has the equipment and procedures required to make certain that the OBD system of your vehicle is ready for the required testing.

## MAINTENANCE SCHEDULES

### SELECTING THE PROPER MAINTENANCE SCHEDULE

There are **two** maintenance schedules that show the **required** service for your vehicle. First is the “**Severe Maintenance Schedule**”. It is for vehicles that are operated under the conditions that are listed below.

Day or night temperatures are below 32° F (0° C).

- Stop and go driving.
- Extensive engine idling.
- Driving in dusty conditions.
- Short trips of less than 10 miles (16 km).
- More than 50% of your driving is at sustained high speeds during hot weather, above 90° F (32° C).
- Trailer towing.
- Taxi, police, or delivery service (commercial service).
- Off-road or desert operation.
- Heavy Loading
- **If equipped for and operating with E-85 (ethanol) fuel.**

**NOTE:** If **ANY** of these apply to you then change your **engine oil** every 3,000 miles (5 000 km) or 3 months, whichever comes first and follow the “Severe Schedule” of the “Maintenance Schedules” section of this manual.

**NOTE:** If **ANY** of these apply to you then change your **coolant** every 102,000 miles (175 000 km) or 60 months, whichever comes first and follow the “**Severe Schedule**” of the “Maintenance Schedules” section of this manual.

Second is the “**Regular Maintenance Schedule**”. It is for vehicles that are **not** operated under **any** of the conditions listed under the “Severe Schedule.”

Use the schedule that best describes your driving conditions. Where time and mileage are listed, follow the interval that occurs first.

**NOTE:** Under no circumstances should oil change intervals exceed 6000 miles (10 000 km) or 6 months whichever comes first.

### CAUTION!

Failure to perform the required maintenance items may result in damage to the vehicle.

## SERVICE STATION CHECKS

### *At Each Stop for Fuel*

- Check the engine oil level about 5 minutes after a fully warmed engine is shut off. Checking the oil level while the vehicle is on level ground will improve the accuracy of the oil level reading. Add oil only when the level is at or below the ADD or MIN mark.
- Check the windshield washer solvent and add, if required.

### *Once a Month*

- Check tire pressure and look for unusual wear or damage.
- Inspect the battery and clean and tighten the terminals as required.
- Check the fluid levels of coolant reservoir, brake master cylinder, and transmission and add as needed.
- Check all lights and all other electrical items for correct operation.

### *At Each Oil Change*

- Change the engine oil filter.
- Inspect the exhaust system.
- Inspect the brake hoses.
- Inspect the CV joints (if equipped) and front suspension components.
- Check the automatic transmission fluid level (if equipped).
- Check the manual transmission fluid level (if equipped).
- Check the coolant level, hoses, and clamps.

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

<b>Miles (Kilometers)</b>	<b>3,000 (5 000)</b>	<b>6,000 (10 000)</b>	<b>9,000 (15 000)</b>	<b>12,000 (20 000)</b>	<b>15,000 (25 000)</b>
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	X
Rotate tires.		X		X	
Check spare tire for proper pressure and correct stowage		X		X	
Change rear axle fluid.					X
Change front axle fluid (4X4).					X
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

Miles (Kilometers)	18,000 (30 000)	21,000 (35 000)	24,000 (40 000)	27,000 (45 000)	30,000 (50 000)
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	X
Rotate tires.	X		X		X
Check spare tire for proper pressure and correct stowage.	X		X		X
Change rear axle fluid.					X
Change front axle fluid (4X4).					X
Check transfer case fluid level (4X4).					X
Inspect brake linings.	X				
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X
<b>Replace spark plugs.</b>					X
<b>Inspect PCV valve, replace as necessary.**</b>					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

<b>Miles (Kilometers)</b>	<b>33,000 (55 000)</b>	<b>36,000 (60 000)</b>	<b>39,000 (65 000)</b>	<b>42,000 (70 000)</b>	<b>45,000 (75 000)</b>
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	X
Rotate tires.		X		X	
Check spare tire for proper pressure and correct stowage.		X		X	
Change rear axle fluid.					X
Change front axle fluid (4X4).					X
Inspect brake linings.		X			
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

Miles (Kilometers)	48,000 (80 000)	51,000 (85 000)	54,000 (90 000)	57,000 (95 000)	60,000 (100 000)
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	X
Rotate tires.	X		X		X
Check spare tire for proper pressure and correct stowage.	X		X		X
Change rear axle fluid.					X
Change front axle fluid (4X4).					X
Inspect brake linings.			X		
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X
<b>Replace spark plugs.</b>					X
<b>Inspect PCV valve, replace as necessary.**</b>					X
Inspect auto tension drive belt and replace, if required.					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

<b>Miles (Kilometers)</b>	<b>48,000 (80 000)</b>	<b>51,000 (85 000)</b>	<b>54,000 (90 000)</b>	<b>57,000 (95 000)</b>	<b>60,000 (100 000)</b>
Drain and refill automatic transmission fluid, change filter (3.7L).					X
Drain and refill automatic transmission fluid and change main sump filter (4.7L).					X
Inspect transfer case fluid (4X4).					X
Flush and replace engine coolant at 60 months, or 102, 000 miles (175 000 km) whichever comes first.					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

<b>Miles (Kilometers)</b>	<b>63,000 (105 000)</b>	<b>66,000 (110 000)</b>	<b>69,000 (115 000)</b>	<b>72,000 (120 000)</b>	<b>75,000 (125 000)</b>
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	
Rotate tires.		X		X	
Check spare tire for proper pressure and correct stowage.		X		X	
Change rear axle fluid.					X
Change front axle fluid (4X4).					X
<b>Inspect brake linings.</b>				X	
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X
<b>Inspect auto tension drive belt and replace, if required.</b>					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

Miles (Kilometers)	78,000 (130 000)	81,000 (135 000)	84,000 (140 000)	87,000 (145 000)	90,000 (150 000)
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	X
Rotate tires.	X		X		X
Check spare tire for proper pressure and correct stowage.	X		X		X
Change rear axle fluid.					X
Change front axle fluid (4X4).					X
<b>Inspect brake linings.</b>					X
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X
<b>Replace spark plugs.</b>					X
<b>Inspect PCV valve, replace as necessary.**</b>					X
<b>Inspect auto tension drive belt and replace, if required.</b>					X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

Miles (Kilometers)	93,000 (155 000)	96,000 (160 000)	99,000 (165 000)	100,000 (170 000)	102,000 (175 000)
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X		X
Rotate tires.		X			X
Check spare tire for proper pressure and correct stowage.		X			X
Flush and replace engine coolant, if not done at 60 months.					X
Change rear axle fluid.		X			
Change front axle fluid (4X4).		X			

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

<b>Miles (Kilometers)</b>	<b>105,000 (180 000)</b>	<b>108,000 (185 000)</b>	<b>111,000 (190 000)</b>	<b>114,000 (195 000)</b>	<b>117,000 (200 000)</b>	<b>120,000 (205 000)</b>
Change engine oil and engine oil filter, or at 3 months whichever comes first.	X	X	X	X	X	X
Rotate tires.		X		X		X
Check spare tire for proper pressure and correct stowage.		X		X		X
Change rear axle fluid.	X					X
Change front axle fluid (4X4).	X					X
Inspect brake linings.		X				
<b>Inspect engine air cleaner filter, replace if necessary.</b>	X					X
<b>Replace spark plugs.</b>						X
<b>Inspect PCV valve, replace as necessary.**</b>						X
<b>Inspect auto tension drive belt and replace, if required.</b>	X					X
Drain and refill transfer case fluid (4X4).						X

## MAINTENANCE SCHEDULES - Severe Maintenance Schedule

Miles (Kilometers)	105,000 (108 000)	108,000 (185 000)	111,000 (190 000)	114,000 (195 000)	120,000 (205 000)
Drain and refill automatic transmission fluid, change filter (3.7L).					X
Drain and refill automatic transmission fluid and change main sump filter and spin-on cooler return filter if equipped. (4.7L).					X
Flush and replace engine coolant, if not replaced at 102,000 miles (175 000 km).					X

This applies only if your vehicle is used for police, taxi, fleet, or frequent trailer towing.

Inspection and service should also be performed anytime a malfunction is observed or suspected. Retain all receipts.

\*\* This maintenance is recommended by the manufacturer to the owner, but not required to maintain the emissions warranty.

## MAINTENANCE SCHEDULES - Regular Maintenance Schedule

### REGULAR MAINTENANCE SCHEDULE

Miles (Kilometers) [Months]	6,000 (10 000) [6]	12,000 (20 000) [12]	18,000 (30 000) [18]	24,000 (40 000) [24]	30,000 (50 000) [30]
Change engine oil and engine oil filter.	X	X	X	X	X
Rotate tires.	X	X	X	X	X
Check spare tire for proper pressure and correct stowage.	X	X	X	X	X
Check transfer case fluid level (4X4).					X
Inspect brake linings.			X		
<b>Inspect engine air cleaner filter, replace if necessary</b>					X
<b>Replace spark plugs.</b>					X

## MAINTENANCE SCHEDULES - Regular Maintenance Schedule

Miles (Kilometers) [Months]	36,000 (60 000) [36]	42,000 (70 000) [42]	48,000 (80 000) [48]	54,000 (90 000) [54]	60,000 (100 000) [60]	66,000 (110 000) [66]
Change engine oil and engine oil filter.	X	X	X	X	X	X
Rotate tires.	X	X	X	X	X	X
Check spare tire for proper pressure and correct stowage.	X	X	X	X	X	X
Check transfer case fluid level (4X4).					X	
Flush and replace engine coolant at 60 months, if not replaced at 102,000 miles (185 000 km).					X	
Inspect brake linings.	X			X		
<b>Inspect engine air cleaner filter, replace if necessary.</b>					X	
<b>Replace spark plugs.</b>					X	
<b>Inspect PCV valve, replace as necessary.**</b>					X	
Inspect auto tension drive belt and replace, if required.					X	

## MAINTENANCE SCHEDULES - Regular Maintenance Schedule

Miles (Kilometers) [Months]	72,000 (120 000) [72]	78,000 (130 000) [78]	84,000 (140 000) [90]	90,000 (150 000) [96]	96,000 (160 000) [96]	100,000 (170 000)
Change engine oil and engine oil filter.	X	X	X	X	X	
Rotate tires.	X	X	X	X	X	X
Check spare tire for proper pressure and correct stowage.	X	X	X	X	X	
Check transfer case fluid level (4X4).				X		
Inspect brake linings.	X			X		
<b>Inspect engine air cleaner filter, replace if necessary.</b>				X		
<b>Replace spark plugs.</b>				X		
<b>Inspect PCV valve, replace as necessary.**</b>				X		
Inspect auto tension drive belt and replace, if required.				X		

## MAINTENANCE SCHEDULES - Regular Maintenance Schedule

Miles (Kilometers) [Months]	102,000 (180 000) [102]	108,000 (190 000) [108]	114,000 (200 000) [114]	120,000 (210 000) [120]
Change engine oil and engine oil filter.	X	X	X	X
Rotate tires.	X	X	X	X
Check spare tire for proper pressure and correct stowage.	X	X	X	X
Drain and refill transfer case fluid (4X4).				X
Flush and replace engine coolant, if not done at 60 months.	X			
Flush and replace engine coolant, if not done at 102,000 miles (180 000 km)				X
Inspect brake linings.		X		
<b>Inspect engine air cleaner filter, replace as necessary.</b>				X
<b>Replace spark plugs.</b>				X
<b>Inspect PCV valve, replace as necessary.**</b>				X

## MAINTENANCE SCHEDULES

### WARNING!

You can be badly injured working on or around a motor vehicle. Do only that service work for which you have the knowledge and the right equipment. If you have any doubt about your ability to perform a service job, take your vehicle to a competent mechanic.