

LUBRICATION AND MAINTENANCE

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GENERAL INFORMATION

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GENERAL INFORMATION

INTRODUCTION

Service and maintenance procedures for components and systems listed in Schedule—A or B can be found by using the Group Tab Locator index at the front of this manual. If it is not clear which group contains the information needed, refer to the index at the back of this manual.

There are two maintenance schedules that show proper service based on the conditions that the vehicle is subjected to.

Schedule— **A** , lists scheduled maintenance to be performed when the vehicle is used for general transportation.

Schedule— **B** , lists maintenance intervals for vehicles that are operated under the conditions listed at the beginning of the Maintenance Schedule section.

Use the schedule that best describes your driving conditions.

Where time and mileage are listed, follow the interval that occurs first.

PARTS AND LUBRICANT RECOMMENDATIONS

When service is required, Chrysler Corporation recommends that only Mopar® brand parts, lubricants and chemicals be used. Mopar provides the best engineered products for servicing Chrysler Corporation vehicles.

INTERNATIONAL SYMBOLS

Chrysler Corporation uses international symbols to identify engine compartment lubricant and fluid inspection and fill locations (Fig. 1).

 CHRYSLER CORPORATION			
	ENGINE OIL		BRAKE FLUID
	AUTOMATIC TRANSMISSION FLUID		POWER STEERING FLUID
	ENGINE COOLANT		WINDSHIELD WASHER FLUID

9500-1

Fig. 1 International Symbols

GENERAL INFORMATION (Continued)

CLASSIFICATION OF LUBRICANTS

Only lubricants that are endorsed by the following organization should be used to service a Chrysler Corporation vehicle.

- Society of Automotive Engineers (SAE)
- American Petroleum Institute (API) (Fig. 2)
- National Lubricating Grease Institute (NLGI) (Fig. 3)



9400-9

*Fig. 2 API Symbol***ENGINE OIL****SAE GRADE RATING INDICATES ENGINE OIL VISCOSITY**

An SAE viscosity grade is used to specify the viscosity of engine oil. SAE 30 specifies a single viscosity engine oil. Engine oils also have multiple viscosities. These are specified with a dual SAE viscosity grade which indicates the cold-to-hot temperature viscosity range.

- SAE 30 = single grade engine oil.
- SAE 10W-30 = multiple grade engine oil.

API QUALITY CLASSIFICATION

The API Service Grade specifies the type of performance the engine oil is intended to provide. The API Service Grade specifications also apply to energy conserving engine oils.

Use engine oils that are API Service Certified. 5W-30 and 10W-30 MOPAR engine oils conform to specifications.

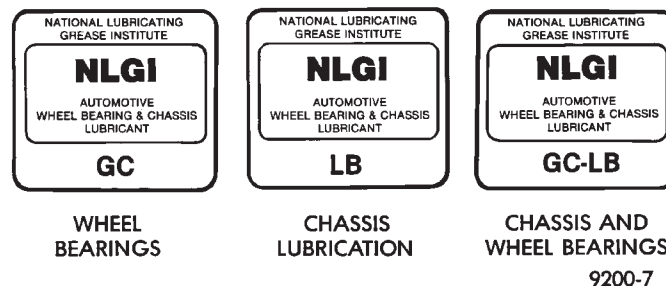
Refer to Group 9, Engine for engine oil specification.

GEAR LUBRICANTS

SAE ratings also apply to multiple grade gear lubricants. In addition, API classification defines the lubricants usage.

LUBRICANTS AND GREASES

Lubricating grease is rated for quality and usage by the NLGI. All approved products have the NLGI symbol (Fig. 3) on the label. At the bottom NLGI symbol is the usage and quality identification letters. Wheel bearing lubricant is identified by the letter "G". Chassis lubricant is identified by the latter "L". The letter following the usage letter indicates the quality of the lubricant. The following symbols indicate the highest quality.

*Fig. 3 NLGI Symbol***FLUID CAPACITIES**

Fuel Tank	68 L (18 gal.)
Engine Oil—3.3L	4.7L (5 qts.)
Engine Oil—3.5L	5.2L (5.5 qts.)
Cooling System—3.3L	10.74L (10.17 qts.)
Cooling System—3.5L	12.46L (11.80 qts.)
Transmission	9.4L (9.9 qts.)
Differential	0.95L (1 qt)

MAINTENANCE SCHEDULES

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GENERAL INFORMATION

INTRODUCTION

There are two maintenance schedules that show proper service for LH vehicles. Use the schedule that best describes the condition under which the vehicle is operated. Where time and mileage are listed, follow the interval that occurs first.

Schedule —A lists all the scheduled maintenance to be performed under “normal” operating conditions.

Schedule —B lists the schedule for vehicles that are operated under one or more of the conditions listed below.

- Day and night temperatures are below freezing
- Frequent stop and go driving
- Frequent long periods of engine idling
- Frequent driving in dusty conditions
- Frequent short trips of less than 5 miles
- Frequent operation at sustained high speeds during hot weather, above 90°F (32°C)
- Frequent trailer towing
- Taxi, police or delivery service

Use the schedule that best describes your driving conditions.

EMISSION CONTROL SYSTEM MAINTENANCE

(1) The scheduled emissions maintenance listed in bold type in the maintenance schedules must be done at the specified mileage 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 the 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.

UNSCHEDULED INSPECTION

At Each Stop For Fuel

- Check engine oil level and add as required.
- Check windshield washer solvent and add as required.

Once A Month

- Check tire pressure and look for unusual wear or damage.
- Check fluid levels of coolant reservoir, brake master cylinder, power steering and transmission. Add fluid as required.
- Check all lights and all other electrical items for correct operation.

At Each Oil Change

- Inspect the exhaust system.
- Inspect brake hoses.
- Inspect the CV joints and front suspension component boots and seals.
- Rotate the tires at each oil change interval shown on Schedule—A (7,500 miles - 12 000 am) or every other interval on Schedule “B” (6,000 miles - 10 000 km).
- Check the engine coolant level, hoses, and clamps.

If your mileage is less than 7,500 miles (12 000 km) yearly, replace the engine oil filter at each oil change.

SCHEDULE —A

7,500 miles (12 000km) or at 6 months

- Change engine oil.

15,000 miles (24 000km) or at 12 months

- Change engine oil.
- Replace engine oil filter.
- Adjust drive belt tension.

22,500 Miles (36 000km) or at 18 months

- Change engine oil.
- Inspect the front and rear brake linings.

30,000 Miles (48 000km) or at 24 months

- Change engine oil.
- Replace engine oil filter.
- Adjust drive belt tension.
- Replace the **air cleaner element**.
- Replace the **spark plugs**.

GENERAL INFORMATION (Continued)

37,500 Miles (60 000km) or at 30 months

- Change engine oil.

45,000 Miles (72 000km) or at 36 months

- Change engine oil.
- Replace engine oil filter.
- Inspect front and rear brake linings.
- Adjust drive belt tension.
- Flush and replace engine coolant at 36 months, regardless of mileage.

52,500 Miles (84 000km) or at 42 months

- Change engine oil.
- Flush and replace engine coolant if not done at 36 months.

60,000 Miles (96 000km) or at 48 months

- Change engine oil.
- Replace engine oil filter.
- **Check and replace, if necessary***, the PCV valve**.**
- Replace the drive belts.
- **Replace air cleaner element.**
- **Replace ignition cables.**
- **Replace spark plugs.**

67,500 Miles (108 000) or at 54 months

- Change engine oil.
- Inspect front and rear brake linings.

75,000 Miles (120 000km) or at 60 months

- Change engine oil.
- Replace engine oil filter
- Adjust drive belt tension.
- Flush and replace engine coolant if it has been 30,000 miles (48 000 km) or 24 months since last change.

82,500 Miles (132 000km) or at 66 months

- Change engine oil.
- Flush and replace engine coolant if it has been 30,000 miles (48 000km) since last change

90,000 Miles (144 000km) or at 72 months

- Change engine oil.
- Replace engine oil filter.
- **Check and replace, if necessary***, the PCV valve**.**
- Inspect front and rear brake linings.
- Adjust drive belt tension.
- **Replace air cleaner air element .**
- **Replace spark plugs.**

97,500 Miles (156 000km) or at 78 months

- Change engine oil.

105,000 Miles (168 000km) or at 84 months

- Change engine oil.
- Replace engine oil filter.
- **Replace engine timing belt on 3.5L engines.**

SCHEDULE —B**3,000 Miles (5 000km)**

- Change engine oil

6,000 Miles (10 000km)

- Change engine oil.
- Replace engine oil filter.

9,000 Miles (14 000km)

- Change engine oil.
- Inspect front and rear brake linings.

12,000 Miles (19 000km)

- Change engine oil.
- Replace engine oil filter.

15,000 Miles (24 000km)

- Change engine oil.
- Adjust drive belt tension.
- Lubricate steering linkage tie rod ends.
- Change automatic transaxle fluid and filter.*
- Change differential fluid.*
- **Replace air cleaner element.**

18,000 Miles (29 000km)

- Change engine oil.
- Replace engine oil filter.
- Inspect front and rear brake linings.

21,000 Miles (34 000km)

- Change engine oil.

24,000 Miles (38 000km)

- Change engine oil.
- Replace engine oil filter.

27,000 Miles (43 000km)

- Change engine oil.
- Inspect front and rear brake linings.

30,000 Miles (48 000km)

- Change engine oil.
- Replace engine oil filter.
- **Check and replace, if necessary***, the PCV valve**.**
- Lubricate steering linkage tie rod ends.
- Adjust drive belt tension.
- **Replace air cleaner element.**
- **Replace spark plugs**
- Change automatic transmission fluid and filter.*

GENERAL INFORMATION (Continued)

- Change differential fluid.*

33,000 Miles (53 000km)

- Change engine oil.

36,000 Miles (58 000km)

- Change engine oil.
- Replace engine oil filter.
- Inspect front and rear brake linings.

39,000 Miles (62 000km)

- Change engine oil.

42,000 Miles (67 000km)

- Change engine oil.
- Replace engine oil filter.

45,000 Miles (72 000km)

- Change engine oil.
- Lubricate the steering linkage tie rod ends.
- Adjust drive belt tension.
- Change automatic transaxle fluid and filter.*
- Change differential fluid.*
- Inspect front and rear brake linings.
- **Replace air cleaner element.**

48,000 Miles (77 000km)

- Change engine oil.
- Replace engine oil filter.

51,000 Miles (82 000km)

- Change engine oil.
- Flush and replace engine coolant.

54,000 Miles (86 000km)

- Change engine oil.
- Replace engine oil filter.
- Inspect front and rear brake linings.

57,000 Miles (91 000km)

- Change engine oil.

60,000 Miles (96 000km)

- Change engine oil.
- Replace engine oil filter.
- **Check and replace, if necessary***, the PCV valve**.**
- Lubricate steering linkage tie rod ends.
- Replace drive belts.
- **Replace the air cleaner filter.**
- **Replace the ignition cables.**
- Change automatic transaxle fluid and filter.*
- Change differential fluid.*
- **Replace the spark plugs.**

63,000 Miles (101 000km)

- Change engine oil.
- Inspect front and rear brake linings.

66,000 Miles (106 000km)

- Change engine oil.
- Replace engine oil filter.

69,000 Miles (110 000km)

- Change engine oil.

72,000 Miles (115 000km)

- Change engine oil.
- Replace engine oil filter.
- Inspect front and rear brake linings.

75,000 Miles (120 000km)

- Change engine oil.
- Adjust drive belt tension.
- Lubricate the steering linkage tie rod ends.
- Change automatic transaxle fluid and filter.*
- Change the differential fluid.*
- **Replace air cleaner element.**

78,000 Miles (125 000km)

- Change engine oil.
- Replace engine oil filter.

81,000 Miles (130 000km)

- Change engine oil.
- Flush and replace the engine coolant.
- Inspect front and rear brake linings.

84,000 Miles (134 000km)

- Change engine oil.
- Replace engine oil filter.

87,000 Miles (139 000km)

- Change engine oil.

90,000 Miles (144 000km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage tie rod ends.
- Adjust drive belt tension.
- **Check and replace, if necessary***, the PCV valve**.**
- **Replace the air cleaner element.**
- **Replace the spark plugs.**
- Change automatic transaxle fluid and filter.*
- Change the differential fluid.*
- Inspect front and rear brake linings.

93,000 Miles (149 000km)

- Change engine oil.

GENERAL INFORMATION (Continued)

96,000 Miles (154 000km)

- Change engine oil.
- Replace engine oil filter.

99,000 Miles (158 000km)

- Change engine oil.

105,000 Miles (168 000km)

- Change engine oil.
- Adjust drive belt tension.
- Lubricate the steering linkage tie rod ends.
- **Inspect and replace, as needed, the air cleaner element.**
- Replace the engine timing belt on 3.5 liter engines.

NOTE: * Police, taxi, or delivery service usage and trailer towing require a more frequent transaxle service indicated with a * in schedule – B. Perform these services if you usually operate your vehicle under these conditions.

NOTE: ** This maintenance is recommended by Chrysler to the owner but is not required to maintain warranty on the PCV valve.

NOTE: *** This maintenance is not required if the component was previously replaced.

JUMP STARTING, HOISTING AND TOWING

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SERVICE PROCEDURES

JUMP STARTING PROCEDURE

WARNING: REVIEW ALL SAFETY PRECAUTIONS AND WARNINGS IN GROUP 8A, BATTERY/STARTING/CHARGING SYSTEMS DIAGNOSTICS. DO NOT JUMP START A FROZEN BATTERY, PERSONAL INJURY CAN RESULT. DO NOT JUMP START WHEN MAINTENANCE FREE BATTERY INDICATOR DOT IS YELLOW OR BRIGHT COLOR. DO NOT JUMP START A VEHICLE WHEN THE BATTERY FLUID IS BELOW THE TOP OF LEAD PLATES. DO NOT ALLOW JUMPER CABLE CLAMPS TO TOUCH EACH OTHER WHEN CONNECTED TO A BOOSTER SOURCE. DO NOT USE OPEN FLAME NEAR BATTERY. REMOVE METALLIC JEWELRY WORN ON HANDS OR WRISTS TO AVOID INJURY BY ACCIDENTAL ARCING OF BATTERY CURRENT. WHEN USING A HIGH OUTPUT BOOSTING DEVICE, DO NOT ALLOW BATTERY VOLTAGE TO EXCEED 16 VOLTS. REFER TO INSTRUCTIONS PROVIDED WITH DEVICE BEING USED.

CAUTION: When using another vehicle as a booster, do not allow vehicles to touch. Electrical systems can be damaged on either vehicle.

TO JUMP START A DISABLED VEHICLE:

- (1) Raise hood on disabled vehicle and visually inspect engine compartment for:
 - Battery cable clamp condition, clean if necessary.
 - Frozen battery.
 - Yellow or bright color test indicator, if equipped.
 - Low battery fluid level.
 - Generator drive belt condition and tension.
 - Fuel fumes or leakage, correct if necessary.

CAUTION: If the cause of starting problem on disabled vehicle is severe, damage to booster vehicle charging system can result.

- (2) When using another vehicle as a booster source, park the booster vehicle within cable reach. Turn off all accessories, set the parking brake, place

the automatic transmission in PARK or the manual transmission in NEUTRAL and turn the ignition OFF.

- (3) On disabled vehicle, place gear selector in park or neutral and set park brake. Turn off all accessories.

- (4) Connect jumper cables to booster battery. RED clamp to positive terminal (+). BLACK clamp to negative terminal (-). DO NOT allow clamps at opposite end of cables to touch, electrical arc will result. Review all warnings in this procedure.

- (5) On disabled vehicle, connect RED jumper cable clamp to positive (+) terminal. Connect BLACK jumper cable clamp to engine ground as close to the ground cable attaching point as possible (Fig. 1).

- (6) Start the engine in the vehicle which has the booster battery, let the engine idle a few minutes, then start the engine in the vehicle with the discharged battery.

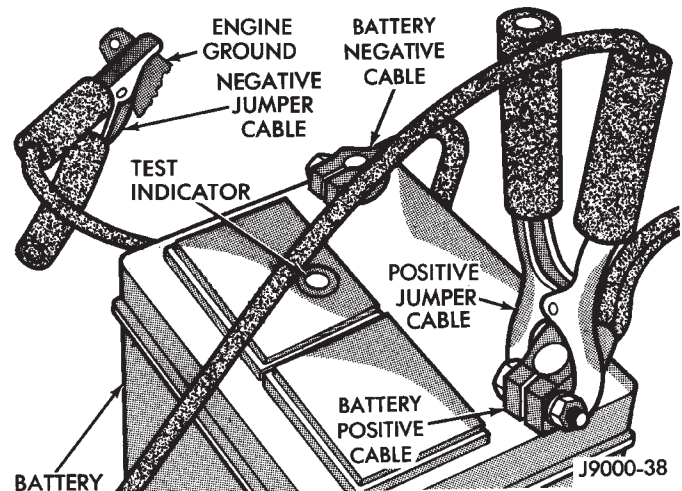


Fig. 1 Jumper Cable Clamp Connections

CAUTION: Do not crank starter motor on disabled vehicle for more than 15 seconds, starter will over-heat and could fail.

- (7) Allow battery in disabled vehicle to charge to at least 12.4 volts (75% charge) before attempting to start engine. If engine does not start within 15 seconds, stop cranking engine and allow starter to cool (15 min.), before cranking again.

SERVICE PROCEDURES (Continued)

DISCONNECT CABLE CLAMPS AS FOLLOWS:

- Disconnect BLACK cable clamp from engine ground on disabled vehicle.
- When using a Booster vehicle, disconnect BLACK cable clamp from battery negative terminal. Disconnect RED cable clamp from battery positive terminal.
- Disconnect RED cable clamp from battery positive terminal on disabled vehicle.

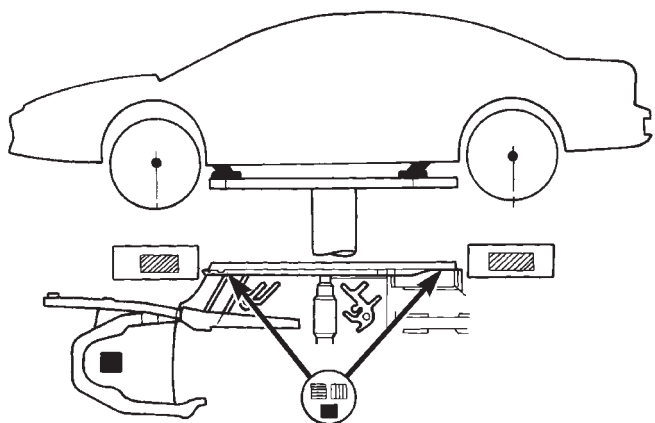
HOISTING RECOMMENDATIONS

Refer to Owner's Manual provided with vehicle for proper emergency jacking procedures.

WARNING: THE HOISTING AND JACK LIFTING POINTS PROVIDED ARE FOR A COMPLETE VEHICLE. WHEN THE ENGINE OR REAR SUSPENSION IS REMOVED FROM A VEHICLE, THE CENTER OF GRAVITY IS ALTERED MAKING SOME HOISTING CONDITIONS UNSTABLE. PROPERLY SUPPORT OR SECURE VEHICLE TO HOISTING DEVICE WHEN THESE CONDITIONS EXIST.

CAUTION: Do not position hoisting device on suspension components, damage to vehicle can result.

For proper hoisting and jacking points, refer to (Fig. 2).



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Fig. 2 Hoisting and Jacking Points

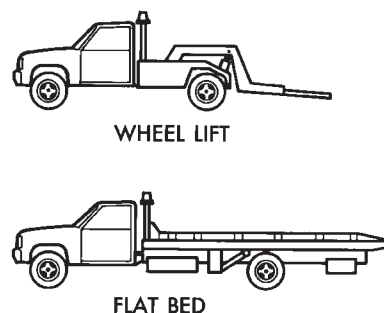
TOWING RECOMMENDATIONS**WARNING:**

- Do NOT tow vehicle with front wheels on the ground. The transaxle can be damaged.

- Secure loose and protruding parts from a disabled vehicle.
- Always use a safety chain system that is independent of the lifting and towing equipment.
- Do not allow any of the towing equipment to contact the fuel tank of the vehicle being towed.
- Do not go under the vehicle while it is lifted by the towing equipment.
- Do not allow passengers to ride in a vehicle being towed.
- Always observe all state and local laws pertaining to warning signals, night illumination, speed, etc.
- Do not attempt a towing operation that could jeopardize the operator, bystanders or other motorists.
- Do not exceed a towing speed of 48 km/h (30mph).
- Avoid towing distances of more than 24 km (15), whenever possible.
- Never attach tow chains or a tow sling to the bumper, steering linkage, or constant velocity joints.

RECOMMENDED TOWING EQUIPMENT

To avoid damage to bumper fascia and air dams use of a wheel lift or flat bed towing device (Fig. 3) is recommended. When using a wheel lift towing device, be sure the rear end of disabled vehicle has at least 100 mm (4 in.) ground clearance. If minimum ground clearance cannot be reached, use a towing dolly. If a flat bed device is used, the approach angle should not exceed 15 degrees.



9100-17

Fig. 3 Recommended Towing Devices

GROUND CLEARANCE

CAUTION: If vehicle is towed with wheels removed, install lug nuts to retain brake drums or rotors.

A towed vehicle should be raised until lifted wheels are a minimum 100 mm (4 in) from the ground. Be sure there is adequate ground clearance at the oppo-

SERVICE PROCEDURES (Continued)

site end of the vehicle, especially when towing over rough terrain or steep rises in the road. If necessary, remove the wheels from the lifted end of the vehicle and lower the vehicle closer to the ground, to increase the ground clearance at the opposite end of the vehicle. Install lug nuts on wheel attaching studs to retain braking discs.

TIE DOWN LOCATIONS FOR FLAT BED TOWING

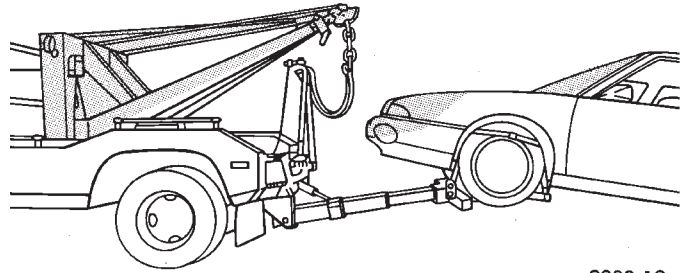
There are three reinforced elongated holes on each side of the vehicle designed to serve as hold down locations. These locations can safely hold the vehicle to the towing device using T or R- hooks.

- Bottom of the front frame rail forward of the engine cradle.
- Bottom of the forward torque box between the front frame rail and the rocker panel.
- Bottom of the rearward torque box forward of the rear wheel.

FRONT TOWING PROCEDURES

CAUTION: Do Not tow vehicle from the front with sling type towing device. Damage to bumper fascia will result.

Always tow vehicle with front wheels off the ground as shown (Fig. 4).



9300-12

Fig. 4 Towing

Use a flat bed towing device when wheel lift towing device is not available.

REAR TOWING PROCEDURES

CAUTION: Do not tow vehicle with the rear end lifted.

If damage to the vehicle prevents front towing, use a flat bed towing device.

CAUTION: Do not push the vehicle with another vehicle as damage to the bumper fascia and transaxle can result.

