

LUBRICATION AND MAINTENANCE

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GENERAL INFORMATION

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GENERAL INFORMATION

ENGINE OIL — GASOLINE ENGINES

Use only oils conforming to API (American Petroleum Institute) Quality SJ and Energy Conserving II, or SH and Energy Conserving II, or ACEA A1-96.

SAE VISCOSITY GRADE

To assure of properly formulated engine oils, it is recommended that SAE Grade 5W-30 engine oils that meet Chrysler material standard MS-6395, be used. SAE Grade 10W-30 oils are also acceptable when the temperatures do not fall below 0°C. In areas where these grades are not generally available, higher SAE grades may be used.

Lubricants which have both an SAE grade number and the proper API service classification shown on the container should be used.

ENGINE OIL—DIESEL ENGINES

Use only Diesel Engine Oil meeting standard **MIL-2104C** or API Classification **CD or higher** or **CCML D4, D5**.

SAE VISCOSITY GRADE

CAUTION: Low viscosity oils must have the proper API quality or the CCMC G5 designation.

To assure of properly formulated engine oils, it is recommended that SAE Grade 15W-40 engine oils that meet Chrysler material standard MS-6395, be used. European Grade 10W-40 oils are also acceptable.

Oils of the SAE 5W-40 or 8W-80 grade number are preferred when minimum temperatures consistently fall below -12°C.

MANUAL TRANSMISSION FLUID (A-558 and A-598 Models)

Use only SAE 10W-40 engine oils carrying the European CCMC-G5 classification to fill the A-598 5-speed manual transmission.

FLUID CAPACITIES

Fuel Tank	76 L
2.0L Gasoline Engine Oil with Filter	4.3L
2.5L VM Diesel Engine Oil With Filter	6.5 L
2.0L Gasoline Engine Cooling System*	6.0L
2.5L VM Diesel Engine Cooling System* ...	10.0 L
Transmission—5-Speed Manual	2.2 L

* Includes heater and coolant recovery tank filled to Max level. Add 2.76L if equipped with Rear Heater.

MAINTENANCE SCHEDULES

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GENERAL INFORMATION

MAINTENANCE SCHEDULE

Refer to the NS/GS Service Manual for Gasoline Engine and non-engine related Maintenance Schedules.

MAINTENANCE SCHEDULE—DIESEL ENGINE

The following are engine related Maintenance items which are unique to Diesel engine-equipped vehicles. Refer to the NS/GS Service Manual for Gasoline Engine and non-engine related Maintenance Schedules.

The service intervals are based on odometer readings in kilometers. There are two maintenance schedules that show proper service intervals. Use the schedule that best describes the conditions the vehicle is operated under. **Schedule-A** lists all the scheduled maintenance to be performed under normal operating conditions. **Schedule-B** is the schedule for vehicles that are operated under one or more of the following conditions:

- Day and night temperatures are below freezing.
- Stop and go driving.
- Long periods of engine idling.
- Driving in dusty conditions.
- Short trips of less than 5 miles.
- Operation at sustained high speeds during hot weather above 32°C (90°F).
- Taxi, police or delivery service.
- Trailer towing.

UNSCHEDULED INSPECTION

At Each Stop for Fuel

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

Once a Month

- Check tire pressure and look for unusual wear or damage.
- Inspect battery and clean and tighten terminals as required.

- Check fluid levels of coolant reservoir, brake master cylinder, power steering and transaxle and add as needed.
- Check all lights and all other electrical items for correct operation.
- Check rubber seals on each side of the radiator for proper fit.

At Each Oil Change

- Inspect exhaust system.
- Inspect brake hoses
- Inspect the CV joints and front suspension components
- Rotate the tires at each oil change interval shown on Schedule—A (7,500 miles) or every other interval shown on Schedule— B (6,000 miles).
- Check the 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.
- Replace engine oil filter.

SCHEDULE—A (DIESEL)

1 000 KM

- Change engine oil.
- Change engine oil filter.
- Check all fluid levels.
- Check correct torque, intake manifold mounting nuts.
- Check correct torque, exhaust manifold mounting nuts.
- Check correct torque, turbocharger mounting nuts.
- Check correct torque, water manifold bolts.

10 000 KM

- Change engine oil.
- Change engine oil filter.

20 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Check glow plug operation.

GENERAL INFORMATION (Continued)

30 000 KM

- Change engine oil.
- Change engine oil filter.

40 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Replace fuel filter/water separator element.**

50 000 KM

- Change engine oil.
- Change engine oil filter.

60 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Replace drive belt.
- Check engine smoke.
- Replace engine coolant.

70 000 KM

- Change engine oil.
- Change engine oil filter.

80 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Replace fuel filter/water separator element.**

90 000 KM

- Change engine oil.
- Change engine oil filter.

100 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Check glow plug operation.

160 000 KM

- Flush and replace engine coolant.

EVERY 40 000 KM AFTER 80 000 KM

- Replace fuel filter/water separator element.**

**The fuel filter/water separator element should be replaced once a year if the vehicle is driven less than 40 000 km annually or if power loss from fuel starvation is detected.

EVERY 10 000 KM AFTER 100 000 KM

- Change engine oil.
- Change engine oil filter.

EVERY 20 000 KM AFTER 100 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Check glow plug operation.

SCHEDULE—B (DIESEL)**500 KM**

- Check correct torque, intake manifold mounting nuts.
- Check correct torque, exhaust manifold mounting nuts.
- Check correct torque, turbocharger mounting nuts.
- Check correct torque, water manifold bolts.

1 000 KM

- Change engine oil.
- Change engine oil filter.
- Check all fluid levels.

5 000 KM

- Change engine oil.
- Change engine oil filter.

10 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.

15 000 KM

- Change engine oil.
- Change engine oil filter.

20 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.

25 000 KM

- Change engine oil.
- Change engine oil filter.

30 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Replace drive belt.
- Check engine smoke.

GENERAL INFORMATION (Continued)

35 000 KM

- Change engine oil.
- Change engine oil filter.
- Change MTX Fluid

40 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Diesel engines only—Replace fuel filter/water separator element.

45 000 KM

- Change engine oil.
- Change engine oil filter.

50 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.

55 000 KM

- Change engine oil.
- Change engine oil filter.

60 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Diesel engines only—Replace fuel filter/water separator element.

65 000 KM

- Change engine oil.
- Change engine oil filter.

70 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Change MTX fluid

75 000 KM

- Change engine oil.
- Change engine oil filter.

80 000 KM

- Change engine oil.
- Change engine oil filter.

- Replace air filter element.
- Replace drive belt.
- Check engine smoke.
- Replace engine coolant.

85 000 KM

- Change engine oil.
- Change engine oil filter.

90 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.

95 000 KM

- Change engine oil.
- Change engine oil filter.

100 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Check glow plug operation.
- Diesel engines only—Replace fuel filter/water separator element.
- Change MTX fluid

160 000 KM

- Flush and replace engine coolant.

EVERY 5 000 KM AFTER 100 000 KM

- Change engine oil.
- Change engine oil filter.

EVERY 10 000 KM AFTER 100 000 KM

- Change engine oil.
- Change engine oil filter.
- Replace air filter element.
- Drive belt visual inspection.
- Check glow plug operation.

EVERY 20 000 KM AFTER 100 000 KM

- Diesel engines only—Replace fuel filter/water separator element.

EVERY 35 000 KM AFTER 100 000 KM

- Change MTX fluid

JUMP STARTING, HOISTING AND TOWING

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SERVICE PROCEDURES

TOWING RECOMMENDATIONS

WARNINGS AND CAUTIONS

WARNING: DO NOT ALLOW TOWING ATTACHMENT DEVICES TO CONTACT THE FUEL TANK OR LINES, FUEL LEAK CAN RESULT.

DO NOT LIFT OR TOW VEHICLE BY FRONT OR REAR BUMPER, OR BUMPER ENERGY ABSORBER UNITS.

DO NOT GO UNDER A LIFTED VEHICLE IF NOT SUPPORTED PROPERLY ON SAFETY STANDS.

DO NOT ALLOW PASSENGERS TO RIDE IN A TOWED VEHICLE.

USE A SAFETY CHAIN THAT IS INDEPENDENT FROM THE TOWING ATTACHMENT DEVICE.

CAUTION: Do not damage brake lines, exhaust system, shock absorbers, sway bars, or any other under vehicle components when attaching towing device to vehicle.

Do not attach towing device to front or rear suspension components.

Do not secure vehicle to towing device by the use of front or rear suspension or steering components.

Remove or secure loose or protruding objects from a damaged vehicle before towing.

Refer to state and local rules and regulations before towing a vehicle.

Do not allow weight of towed vehicle to bear on lower fascia, air dams, or spoilers.

RECOMMENDED TOWING EQUIPMENT

To avoid damage to bumper fascia and air dams use of a flat bed towing device or wheel lift (Fig. 1) is recommended. When using a wheel lift towing device, be sure the 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.

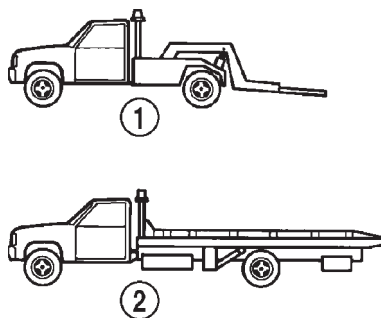


Fig. 1 Recommended Towing Devices

1 - WHEEL LIFT

2 - FLAT BED

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 the lifted wheels are a minimum 100 mm (4 in.) from the ground. Be sure there is at least 100 mm (4 in.) clearance between the tail pipe and the ground. 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 rear of the vehicle. Install lug nuts on wheel attaching studs to retain brake drums or rotors.

LOCKED VEHICLE TOWING

When a locked vehicle must be towed with the front wheels on the ground, use a towing dolly or flat bed hauler.

FLAT TOWING WITH TOW BAR

- 4-speed electronic automatic transaxle vehicles can be flat towed at speeds not to exceed 72 km/h (44 mph) for not more than 160 km (100 miles). The steering column must be unlocked and gear selector in neutral.

SERVICE PROCEDURES (Continued)

FLAT BED TOWING TIE DOWNS

CAUTION: Do not tie vehicle down by attaching chains or cables to suspension components or engine mounts, damage to vehicle can result.

NS vehicles can be tied to a flat bed device using the reinforced loops located under the front and rear bumpers on the drivers side of the vehicle. There are also four reinforced elongated holes for T or R-hooks located on the bottom of the front frame rail torque boxes behind the front wheels and forward of the rear wheels inboard of the rocker panel weld seam.

TOWING—FRONT WHEEL LIFT

Chrysler International recommends that a vehicle be towed with the front end lifted, whenever possible. A 90 cm (36 in.) length of 4x4 wood beam can be placed between the wheel lift device and the bottom of the fascia to prevent damage to vehicle during the lifting operation. The beam can be removed after lifting the front of the vehicle.

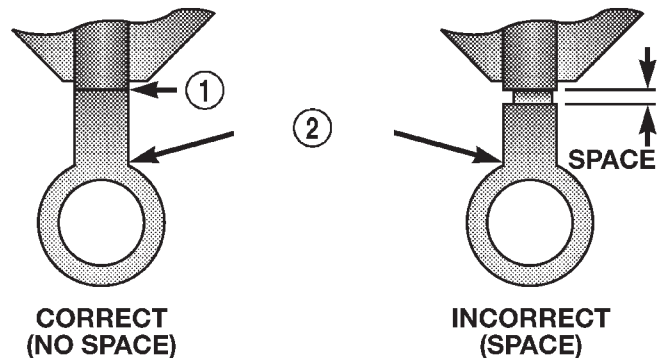
TOWING—REAR WHEEL LIFT

If a vehicle cannot be towed with the front wheels lifted, the rear wheels can be lifted provided the following guide lines are observed.

CAUTION: Do not use steering column lock to secure steering wheel during towing operation.

- On AWD vehicles, all four wheels must be free to rotate. Use towing dollies at unlifted end of vehicle.
- Unlock steering column and secure steering wheel in straight ahead position with a clamp device designed for towing.
- 4-speed electronic automatic transaxle vehicles can be flat towed at speeds not to exceed 72 km/h (44 mph) for not more than 160 km (100 miles). The steering column must be unlocked and gear selector in neutral.

TOWING—TOW HOOKS



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Fig. 2

- 1 - NO SPACE
2 - TOW HOOK

WARNING: Do not use the tow hook to lift the vehicle off the ground.

A tow-hook bolt, located in the rear interior trim storage compartment (with jack), is provided with your vehicle. The tow hook is used for towing the vehicle with all four wheels on the ground only. It can be attached to the vehicle through an opening in the lower front fascia. The tow hook must be fully seated to the attach bracket through the lower front fascia as shown. If the tow hook is not fully seated to the attach bracket the vehicle should not be towed.

NOTE: The tow hook bolt protective plug must be removed from the tow hook bracket prior to bolt attachment. The tow hook is used ONLY for towing the vehicle with all four wheels on the ground.