

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

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)

GENERAL INFORMATION (Continued)



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 oil that is API Service Grade Certified or an oil that conforms to the API Service Grade SH or SH/CD. MOPAR engine oils conform to all of these service grades.

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.

9400-9

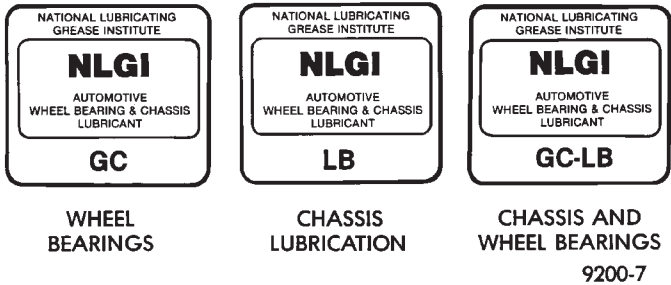


Fig. 3 NLGI Symbol

FLUID CAPACITIES

FUEL TANK

All.87.4 L (23 gal.)

ENGINE OIL W/FILTER CHANGE

4.0L5.7 L (6.0 qts.)
5.2L4.7 L (5.0 qts.)

COOLING SYSTEM

4.0L11.4 L (12.0 qts.)*
5.2L14.1 L (14.9 qts.)*

*Includes 2.2 L (2.3 qts.) for coolant recovery bottle.

AUTOMATIC TRANSMISSION

Dry fill capacity.*

42RE8.0-10.4 L (17-22 pts.)
44RE8.0-10.4 L (17-22 pts.)

*Depending on type and size of internal cooler, length and inside diameter of cooler lines, or use of an auxiliary cooler, these figures may vary. Refer to Group 21, Transmission for proper fluid fill procedure.

FRONT AXLE

Model 301.48 L (3.13 pts.)

REAR AXLE

Model 44*2.24 L (4.75 pts.)

*If the vehicle is equipped with TRAC-LOK, include 0.11 L (0.25 pts.) of friction modifier.

NOTE: Vehicles with trailer tow, must use a synthetic lubricant. Refer to Group 3, Differential and Driveline for service procedures.

MAINTENANCE SCHEDULES

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GENERAL INFORMATION

INTRODUCTION

There are two maintenance schedules that show proper service intervals for ZJ vehicles. Use the schedule that best describes the conditions the vehicle is operated under. When mileage and time is listed, follow the interval that occurs first.

Schedule-A lists all the scheduled maintenance to be performed under normal operating conditions.

Schedule-B is a schedule for vehicles that are usually operated under one or more of the following conditions:

- Frequent short trips driving less than 5 miles (8 km)
- Frequent driving in dusty conditions
- Frequent trailer towing
- Extensive idling
- More than 50% of your driving is at sustained high speeds during hot weather, above 90°F (32°C)
- Off road driving
- Desert operation

EMISSION CONTROL SYSTEM MAINTENANCE

The scheduled emission maintenance listed in **bold type** on the Maintenance Schedules, must be done at the mileage 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 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, 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 electrolyte level and add water as needed.

- Check fluid levels of coolant reservoir, power steering and transmission and add as needed.

- Check all lights and all other electrical items for correct operation.

AT EACH OIL CHANGE

- Inspect exhaust system.
- Inspect brake hoses.
- 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 coolant level, hoses and clamps.
- Lubricate suspension ball joints.
- After completion of off-road (4WD) operation, the underside of the vehicle should be thoroughly inspected. Examine threaded fasteners for looseness.

SCHEDULE—A

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage.

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

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

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Replace spark plugs.**
- Inspect drive belt.
- Lubricate steering linkage.

GENERAL INFORMATION (Continued)

- Drain and refill automatic transmission fluid.
- Drain and refill transfer case fluid.

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage.
- Inspect brake linings.
- Flush and replace engine coolant at 36 months, regardless of mileage.

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).
- Flush and replace engine coolant if not done at 36 months.

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

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Replace ignition wires.**
- **Replace spark plugs.**
- **Inspect PCV valve and replace if necessary (5.2L only).***
- Inspect drive belt.
- Lubricate steering linkage.
- Drain and refill automatic transmission fluid.
- Drain and refill transfer case fluid.
- Replace fuel filter.**

*This maintenance is recommended, but is not required to maintain warranty on the PCV valve.

**Recommended for proper vehicle performance for vehicles built for sale in California.

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings

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

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

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).
- Flush and replace engine coolant if it has been 30,000 miles (48 000 km) or 24 months since last change.

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

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Replace spark plugs.**
- Inspect drive belt.
- Lubricate steering linkage.
- Drain and refill automatic transmission fluid.
- Drain and refill transfer case fluid.
- Inspect brake linings.

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

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

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

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

112,500 Miles (180 000 km) or at 90 months

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.
- Flush and replace engine coolant if it has been 30,000 miles (48 000 km) or 24 months since last change.

120,000 Miles (192 000 km) or at 96 months

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Replace ignition wires.**
- **Replace spark plugs.**
- **Inspect PCV valve and replace if necessary (5.2L only).***
- Inspect drive belt.
- Lubricate steering linkage.
- Drain and refill automatic transmission fluid.
- Drain and refill transfer case fluid.
- Replace fuel filter.**

*This maintenance is recommended, but is not required to maintain warranty on the PCV valve.

GENERAL INFORMATION (Continued)

****Recommended for proper vehicle performance for vehicles built for sale in California.**

IMPORTANT: Inspection and service should also be performed anytime a malfunction is observed or suspected.

SCHEDULE—B**3,000 Miles (5 000 km)**

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

6,000 Miles (10 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

9,000 Miles (14 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

12,000 Miles (19 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

15,000 miles (24 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Inspect engine air cleaner element, replace as necessary.**
- Lubricate steering linkage.

18,000 Miles (29 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

21,000 Miles (34 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

24,000 Miles (38 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

27,000 Miles (43 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

30,000 Miles (48 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Inspect PCV valve and replace if necessary (5.2L only).***

- **Replace spark plugs.**
- Inspect drive belt.
- Drain and refill transfer case fluid.
- Lubricate steering linkage.

*This maintenance is recommended to the customer, but is not required to maintain warranty on the PCV valve.

33,000 Miles (53 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

36,000 Miles (58 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

39,000 Miles (62 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

42,000 Miles (67 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

45,000 Miles (72 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Inspect engine air cleaner element, replace as necessary.**
- Lubricate steering linkage.

48,000 Miles (77 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

GENERAL INFORMATION (Continued)

51,000 Miles (82 000 km)

- Change engine oil.
- Replace engine oil filter.
- Flush and replace engine coolant.
- Lubricate steering linkage (4x4 only).

54,000 Miles (86 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

57,000 Miles (91 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

60,000 Miles (96 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Replace ignition wires.**
- **Inspect PCV valve and replace if necessary (5.2L only).***

- Replace spark plugs.
- Inspect drive belt.
- Drain and refill automatic transmission fluid.
- Drain and refill transfer case fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage.
- Replace fuel filter.**
- Inspect brake linings.

*This maintenance is recommended, but is not required to maintain warranty on the PCV valve.

**Recommended for proper vehicle performance for vehicles built for sale in California.

63,000 Miles (101 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

66,000 Miles (106 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

69,000 Miles (110 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

72,000 Miles (115 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).

- Inspect brake linings.

75,000 Miles (120 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Inspect engine air cleaner element, replace as necessary.**
- Lubricate steering linkage.

78,000 Miles (125 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

81,000 Miles (130 000 km)

- Change engine oil.
- Replace engine oil filter.
- Flush and replace engine coolant.
- Lubricate steering linkage (4x4 only).

84,000 miles (134 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

87,000 Miles (139 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

90,000 Miles (144 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Inspect PCV valve and replace if necessary (5.2L only).***

- **Replace spark plugs.**
- Inspect drive belt.
- Drain and refill transfer case fluid.
- Lubricate steering linkage.

*This maintenance is recommended, but is not required to maintain warranty on the PCV valve.

93,000 Miles (149 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

96,000 Miles (154 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).

GENERAL INFORMATION (Continued)

- Inspect brake linings.

99,000 Miles (158 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

102,000 Miles (163 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

105,000 Miles (168 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Inspect engine air cleaner element, replace as necessary.**
- Lubricate steering linkage.

108,000 Miles (173 000 km)

- Change engine oil.
- Replace engine oil filter.
- Drain and refill automatic transmission fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage (4x4 only).
- Inspect brake linings.

111,000 Miles (178 000 km)

- Change engine oil.
- Replace engine oil filter.
- Flush and replace engine coolant.
- Lubricate steering linkage (4x4 only).

114,000 Miles (182 000 km)

- Change engine oil.
- Replace engine oil filter.

- Lubricate steering linkage (4x4 only).

117,000 Miles (187 000 km)

- Change engine oil.
- Replace engine oil filter.
- Lubricate steering linkage (4x4 only).

120,000 Miles (192 000 km)

- Change engine oil.
- Replace engine oil filter.
- **Replace engine air cleaner element.**
- **Replace ignition wires.**
- **Replace spark plugs.**
- **Inspect PCV valve and replace if necessary (5.2L only).**
- Inspect drive belt.
- Drain and refill automatic transmission fluid.
- Drain and refill transfer case fluid.
- Drain and refill front and rear axles.
- Lubricate steering linkage.
- Replace fuel filter.**
- Inspect brake linings.

*This maintenance is recommended, but is not required to maintain warranty on the PCV valve.

**Recommended for proper vehicle performance for vehicles built for sale in California.

IMPORTANT: Inspection and service should also be performed anytime a malfunction is observed or suspected.

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 BATTERY INDICATOR DOT IS YELLOW OR BRIGHT COLOR. BATTERY CAN EXPLODE.

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 ARCHING OF BATTERY CURRENT.

WHEN USING A HIGH OUTPUT BOOSTING DEVICE, DO NOT ALLOW DISABLED VEHICLE'S BATTERY TO EXCEED 16 VOLTS. PERSONAL INJURY OR DAMAGE TO ELECTRICAL SYSTEM CAN RESULT.

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:

- Generator drive belt condition and tension.
- Fuel fumes or leakage, correct if necessary.
- Frozen battery.
- Yellow or bright color test indicator, if equipped.
- Low battery fluid level.

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, turn off all accessories, place gear selector in park or neutral, set park brake or equivalent and operate engine at 1200 rpm.

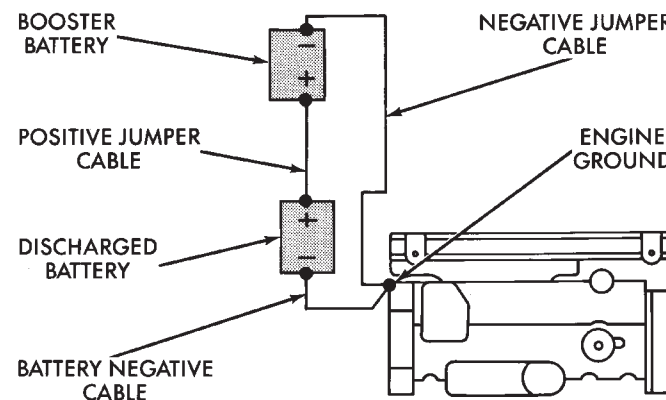
(3) On disabled vehicle, place gear selector in park or neutral and set park brake or equivalent. Turn OFF all accessories.

(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 (Fig. 1). Review all warnings in this procedure.

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

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

(6) 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.



DO NOT ALLOW VEHICLES TO TOUCH

9100-3

Fig. 1 Jumper Cable Clamp Connections

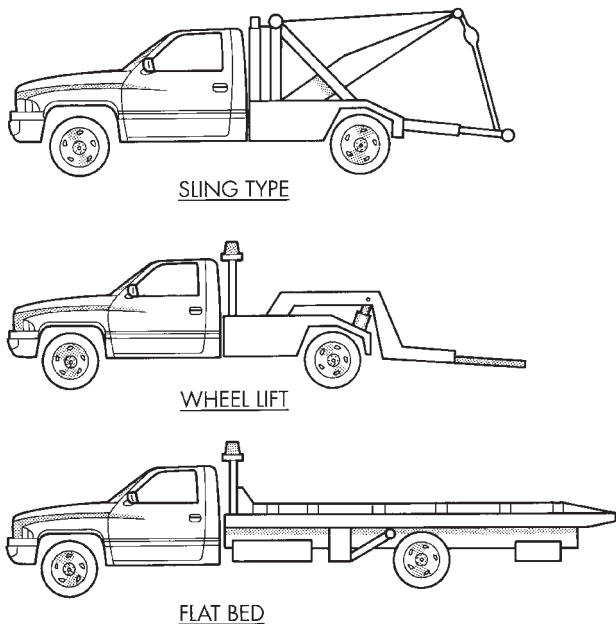
SERVICE PROCEDURES (Continued)

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.

TOWING RECOMMENDATIONS

A vehicle equipped with SAE approved sling-type towing equipment or a wheel-lift towing device can be used to tow all ZJ vehicles. When towing a 4WD vehicle, use tow dollies under the opposite end of the vehicle. A vehicle with a flat-bed device can also be used to transport a disabled vehicle (Fig. 2).



J9500-6

Fig. 2 Tow Vehicles With Approved Equipment.**SAFETY PRECAUTIONS**

The following safety precautions must be observed when towing a vehicle:

- Secure loose and protruding parts.
- Always use a safety chain system that is independent of the lifting and towing equipment.
- Do not allow towing equipment to contact the disabled vehicle's fuel tank.
- Do not allow anyone under the disabled vehicle while it is lifted by the towing device.
- Do not allow passengers to ride in a vehicle being towed.
- Always observe state and local laws regarding towing regulations.

- Do not tow a vehicle in a manner that could jeopardize the safety of the operator, pedestrians or other motorists.

- Do not attach tow chains, T-hooks, J-hooks, or a tow sling to a bumper, steering linkage, drive shafts or a non-reinforced frame hole.

GROUND CLEARANCE

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

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 opposite 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 brake drums.

FLAT-BED TOWING RAMP ANGLE

If a vehicle with flat-bed towing equipment is used, the approach ramp angle should not exceed 15 degrees.

TWO-WHEEL-DRIVE VEHICLE TOWING

Chrysler Corporation recommends that a vehicle be towed with the rear end lifted, whenever possible.

TOWING-REAR END LIFTED

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

Vehicles can be towed with the front wheels on the ground for extended distances at speeds not exceeding 48 km/h (30 mph).

(1) Attach the J-hooks around the axle shaft tube outboard of the rear springs.

(2) Position and center the sling under and forward of the rear bumper.

(3) Attach safety chains (with pads) at each end of the rear bumper.

(4) Turn the ignition switch to the OFF position to unlock the steering wheel.

(5) Secure the steering wheel in straight ahead position with a clamp device designed for towing.

(6) Verify that steering components are in good condition.

(7) Shift the transmission to NEUTRAL.

TOWING-FRONT END LIFTED

To prevent damage to front fascia components, use only a Wheel-Lift type towing device or Flat-Bed hauling equipment.

SERVICE PROCEDURES (Continued)

2WD—AUTOMATIC TRANSMISSION

Provided the transmission is operable, tow only in **NEUTRAL** at speeds not to exceed 30 mph (50 km/h) and distances less than 15 miles (25km/h).

If the vehicle is to be towed more than 15 miles, the propeller shaft should be disconnected or place tow dollies under rear wheels.

FOUR-WHEEL-DRIVE VEHICLE TOWING

Chrysler Corporation recommends that a vehicle be transported on a flat-bed device. A Wheel-lift or Sling-type device can be used provided all the wheels are lifted off the ground using tow dollies.

4WD TOWING-REAR END LIFTED

(1) Raise the front of the vehicle off the ground and install tow dollies under front wheels.

(2) Attach the J-hooks around the axle shaft tube outboard of the rear springs.

(3) Position and center the sling under and forward of the rear bumper.

(4) Attach safety chains (with pads) at each end of the rear bumper.

(5) Turn the ignition switch to the OFF position to unlock the steering wheel.

(6) Secure the steering wheel in straight ahead position with a clamp device designed for towing.

(7) Shift the transfer case to **NEUTRAL**.

4WD TOWING-FRONT END LIFTED

To prevent damage to front fascia components, use only a Wheel-Lift type towing device or Flat-Bed hauling equipment.

If using the wheel-lift towing method, install tow dollies under rear wheels.

EMERGENCY TOW HOOKS

WARNING: REMAIN AT A SAFE DISTANCE FROM A VEHICLE THAT IS BEING TOWED VIA ITS TOW HOOKS. THE TOW STRAPS/CHAINS COULD BREAK AND CAUSE SERIOUS INJURY.

Some Jeep vehicles are equipped with front emergency tow hooks. The tow hooks should be used for **EMERGENCY** purposes only.

CAUTION: DO NOT use emergency tow hooks for tow truck hook-up or highway towing.

HOISTING RECOMMENDATIONS**FLOOR JACK**

When properly positioned, a floor jack can be used to lift a ZJ vehicle (Fig. 3). Support the vehicle in the raised position with jack stands at the front and rear ends of the frame rails.

CAUTION: Do not attempt to lift a vehicle with a floor jack positioned under:

An axle tube.

A body side sill.

A steering linkage component.

A drive shaft.

The engine or transmission oil pan.

The fuel tank.

A front suspension arm.

HOIST

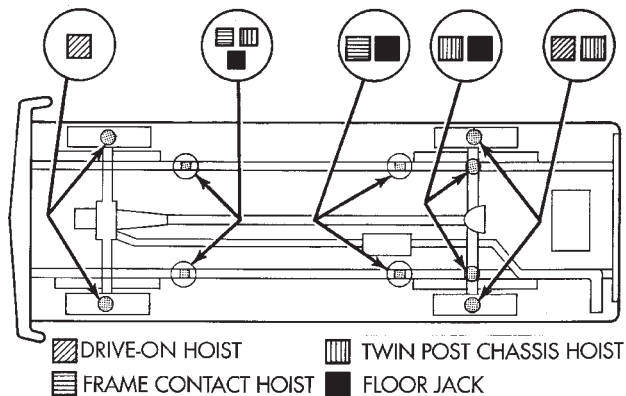
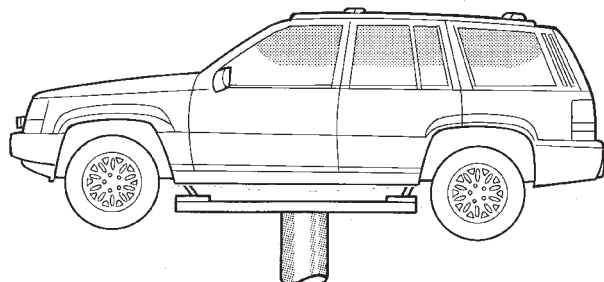
A vehicle can be lifted with:

- A single-post, frame-contact hoist.
- A twin-post, chassis hoist.
- A ramp-type, drive-on hoist.

SERVICE PROCEDURES (Continued)

NOTE: When a frame-contact type hoist is used, verify that the lifting pads are positioned properly (Fig. 3).

WARNING: THE HOISTING AND JACK LIFTING POINTS PROVIDED ARE FOR A COMPLETE VEHICLE. WHEN A CHASSIS OR DRIVETRAIN COMPONENT 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.



J9500-22

Fig. 3 Correct Vehicle Lifting Locations

LUBRICATION AND MAINTENANCE

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GENERAL INFORMATION

FLUID CAPACITIES

FUEL TANK

All.87.4 L (23 gal.)

ENGINE OIL W/FILTER CHANGE

4.0L5.7 L (6.0 qts.)
5.2L4.7 L (5.0 qts.)

COOLING SYSTEM

4.0L11.4 L (12.0 qts.)*
5.2L14.1 L (14.9 qts.)*
*Includes 2.2 L (2.3 qts.) for coolant recovery bottle.

AUTOMATIC TRANSMISSION

Dry fill capacity.*

42RE8.0-10.4 L (17-22 pts.)
44RE8.0-10.4 L (17-22 pts.)
*Depending on type and size of internal cooler, length and inside diameter of cooler lines, or use of

an auxiliary cooler, these figures may vary. Refer to Group 21, Transmission for proper fluid fill procedure.

TRANSFER CASE

242 NVG1.4 L (3.0 pts.)
249 NVG1.1 L (2.5 pts.)

FRONT AXLE

Model 301.18 L (2.5 pts.)

REAR AXLE

Model 35*1.6 L (3.5 pts.)
Model 44*2.24 L (4.75 pts.)
*If the vehicle is equipped with Trac-lok, include 0.11 L (0.25 pts.) of friction modifier.

NOTE: Vehicles with trailer tow, must use a synthetic lubricant. Refer to Group 3, Differential and Driveline for service procedures.