

# LUBRICATION AND MAINTENANCE

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## LUBRICANTS

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### SERVICE PROCEDURES

#### PARTS AND LUBRICANT RECOMMENDATIONS

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

#### ENGINE COOLANT

The green and the orange engine coolant **MUST NOT BE MIXED**. When replacing coolant the complete system flush must be performed before using the replacement coolant.

#### CLASSIFICATION OF LUBRICANTS

Only lubricants that bear designations defined by the following organization should be used to service a DaimlerChrysler vehicle.

- Society of Automotive Engineers (SAE)
- American Petroleum Institute (API) (Fig. 1)
- National Lubricating Grease Institute (NLGI) (Fig. 2)

#### ENGINE OIL

##### SAE VISCOSITY RATING INDICATES ENGINE OIL VISCOSITY

An SAE viscosity grade is used to specify the viscosity of 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.
- DaimlerChrysler only recommends multiple grade engine oils.

#### API QUALITY CLASSIFICATION

This symbol (Fig. 1) on the front of an oil container means that the oil has been certified by the American Petroleum Institute (API) to meet all the lubrication requirements specified by DaimlerChrysler.

Refer to Group 9, Engine for gasoline engine oil specification.



*Fig. 1 API Symbol*

9400-9

#### FLEXIBLE FUEL ENGINE OIL – 3.3L ENGINE

**Engine Oil Selection for Operating on E-85 Fuel** If vehicle operates on E-85 fuel either full or

SERVICE PROCEDURES (Continued)

part-time, use only Mopar® Flexible Fuel SAE 5W-30 engine oil or an equivalent that meets Daimler-Chrysler Standard MS-9214. Equivalent commercial Flexible Fuel engine oils may be labeled as Multi-Fuel, Variable Fuel, Flexible Fuel, etc. These engine oil is preferred for use in Flexible Fuel engines.

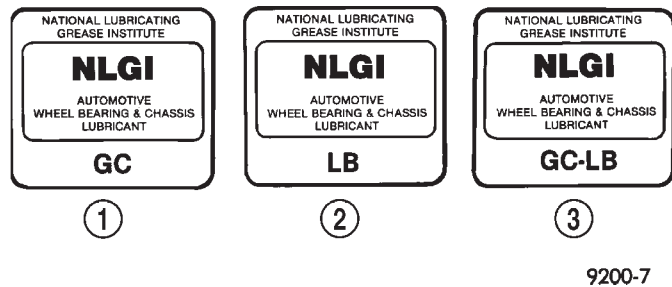
**CAUTION:** If Flexible Fuel engine oil is not used when using E-85 fuel, engine wear or damage may result.

**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. 2) 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. 2 NLGI Symbol**

- 1 - WHEEL BEARINGS
- 2 - CHASSIS LUBRICATION
- 3 - CHASSIS AND WHEEL BEARINGS

**INTERNATIONAL SYMBOLS**

DaimlerChrysler Corporation uses international symbols to identify engine compartment lubricant and fluid check and fill locations (Fig. 3).

<b>CHRYSLER CORPORATION</b>			
	ENGINE OIL		BRAKE FLUID
	AUTOMATIC TRANSMISSION FLUID		POWER STEERING FLUID
	ENGINE COOLANT		WINDSHIELD WASHER FLUID

9500-1

**Fig. 3 International Symbols**

**FLUID CHECK/FILL POINTS AND LUBRICATION LOCATIONS**

The fluid check/fill points and lubrication locations are located in each applicable Sections.

**SPECIFICATIONS**

**FLUID CAPACITIES**

Fuel Tank	76 L (20 gal.)
Engine Oil, With Filter – 2.4 Liter Engine	4.7 L (5.0 qts.)
Engine Oil, With Filter – 3.0 Liter Engine	4.0 L (4.5 qts.)
Engine Oil, With Filter – 3.3 Liter Engine	4.0 L (4.5 qts.)
Engine Oil, With Filter – 3.8 Liter Engine	4.0 L (4.5 qts.)
Cooling System 2.4 Liter Engine *	10.6 L (11.23 qts.)
Cooling System 3.0 Liter Engine *	12.3 L (13 qts.)
Cooling System 3.3 or 3.8 Liter Engine *	12.5 L (13.23 qts.)
With rear heater add additional coolant	2.7 L (2.9 qts.)
Automatic Transaxle Service Fill	3.8 L (4.0 qts.)
Automatic Transaxle 31TH/O-haul Fill	8.0 L (8.5 qts.)
Automatic Transaxle 41TE/O-haul Fill	8.6 L (9.1 qts.)
Power Transfer Unit	1.15 L (1.2 qts.)
Power Steering	0.81 L (1.7 pts.)

**NOTE:**

- \* Includes heater and coolant recovery bottle filled to MAX level.

# MAINTENANCE SCHEDULES

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### DESCRIPTION AND OPERATION

#### MAINTENANCE SCHEDULES

##### DESCRIPTION

There are two maintenance schedules that show proper service for your vehicle.

First is Schedule – **A**. It lists all the scheduled maintenance to be performed under “normal” operating conditions.

Second is Schedule – **B**. It is a schedule for vehicles that are operated under the following conditions:

##### 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 km) or every other interval on Schedule – B (6,000 miles - 10 000 km).
- Check the engine coolant level, hoses, and clamps.

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

#### 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.

#### SPECIFICATIONS

##### SCHEDULE – A – CHRYSLER TOWN AND COUNTRY VEHICLES

###### **7,500 Miles (12 000 km) or at 6 months**

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**
- Inspect the tie rod ends and boot seals.

## SPECIFICATIONS (Continued)

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**
- **Check the PCV valve and replace, if necessary.\***
- Inspect the serpentine drive belt, replace if necessary.
- Inspect the tie rod ends and boot seals.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the serpentine drive belt and replace if necessary. This maintenance is not required if the belt was previously replaced.
- Flush and replace engine coolant at 60 months.

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**
- **Check the PCV valve and replace, if necessary. Not required if previously changed.\***
- Inspect the serpentine drive belt, replace if necessary. This maintenance is not required if the belt was previously replaced.
- Inspect the tie rod ends and boot seals.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.

**100,000 Miles (160,000 km)**

- **Replace the spark plugs.**
- **Replace the ignition cables.**
- Flush and replace engine coolant if not done at 60 months.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the serpentine drive belt and replace if necessary. This maintenance is not required if the belt was previously replaced.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
  - Replace the engine oil filter.
  - **Replace the engine air cleaner element (filter).**
  - **Check and replace the PCV valve, if necessary.\***
  - Inspect the serpentine drive belt Not required if replaced at 75,000, 90,000 or 105,000 miles.
  - Inspect the tie rod ends and boot seals.
- \*This maintenance is recommended by Daimler-Chrysler Corporation to the owner but is not required to maintain the emissions warranty.

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

**SCHEDULE – B – CHRYSLER TOWN AND COUNTRY VEHICLES**

Follow this schedule if the vehicle is usually operates under one or more of the following conditions.

- Frequent short trip driving less than 5 miles (8 km)
- Frequent driving in dusty conditions
- Frequent trailer towing
- Day and night temperatures are below freezing
- Frequent long periods of engine idling
- Frequent stop and go driving
- More than 50% of your driving is at sustained high speeds during hot weather, above 90°F (32°C)
- Use of E-85 (ethanol) fuel in 3.3 liter engines
- Taxi, police or delivery service

**3,000 Miles (5 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

## SPECIFICATIONS (Continued)

**6,000 Miles (10 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**9,000 Miles (14 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**12,000 Miles (19 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**15,000 Miles (24 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Inspect the engine air cleaner element (filter). Replace as necessary.\***
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)

**18,000 Miles (29 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**21,000 Miles (34 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**24,000 Miles (38 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**27,000 Miles (43 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**30,000 Miles (48 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**
- **Inspect the PCV valve, replace as necessary.\***
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
- Inspect the tie rod ends and boot seals.

**33,000 Miles (53 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**36,000 Miles (58 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**39,000 Miles (62 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**42,000 Miles (67 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**45,000 Miles (72 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Inspect the engine air cleaner element (filter). Replace as necessary.\***
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
- Inspect the brake linings.

**48,000 Miles (77 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Flush and replace the engine coolant.

**51,000 Miles (82 000 km)**

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

**54,000 Miles (86 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**57,000 Miles (91 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**60,000 Miles (96 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**
- **Inspect the PCV valve and replace if necessary.\***
- Inspect the serpentine drive belt and replace if necessary.

## SPECIFICATIONS (Continued)

- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)

- Inspect the tie rod ends and boot seals.

**63,000 Miles (101 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**66,000 Miles (106 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**69,000 Miles (110 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**72,000 Miles (115 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**75,000 Miles (120 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Inspect the engine air cleaner element (filter) and replace as necessary.\***
- **Replace the spark plugs.**
- **Replace the ignition cables.**
- Inspect the serpentine drive belt and replace if necessary. This maintenance is not required if belt was previously replaced.
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
- Flush and replace the engine coolant.

**78,000 Miles (125 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**81,000 Miles (130 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**84,000 Miles (134 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**87,000 Miles (139 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**90,000 Miles (144 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**
- **Check the PCV valve and replace if necessary. Not required if previously changed.\***
- Inspect the serpentine drive belt and replace if necessary. This maintenance is not required if belt was previously replaced.
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
- Inspect the tie rod ends and boot seals.
- Inspect the brake linings.

**93,000 Miles (149 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**96,000 Miles (154 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Drain and refill the automatic transmission fluid and replace the filter. (See the note at the end of Schedule – B.)

**99,000 Miles (158 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**102,000 Miles (163 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Flush and replace the engine coolant.

**105,000 Miles (168 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Inspect the engine air cleaner element (filter) and replace as necessary.\***
- Inspect the serpentine drive belt and replace if necessary. This maintenance is not required if belt was previously replaced.
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

## SPECIFICATIONS (Continued)

**108,000 Miles (173 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**111,000 Miles (178 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**114,000 Miles (182 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**117,000 Miles (187 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**120,000 Miles (192 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- **Replace the engine air cleaner element (filter).**

• **Inspect the PCV valve and replace as necessary.\***

• Inspect the serpentine drive belt. Not required if replaced at 75,000, 90,000 or 105,000 miles.

• Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)

- Inspect the tie rod ends and boot seals.

\*This maintenance is recommended by Daimler-Chrysler Corporation to the owner but is not required to maintain the emissions warranty.

**NOTE:** Operating the vehicle more than 50% in heavy traffic during hot weather, above 90°F (32°C), using the vehicle for police, taxi, limousine type operation or trailer towing require the more frequent transaxle service noted in Schedule – B. Perform these services if vehicle usually operates under these conditions.

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

## SCHEDULE – A – PLYMOUTH/DODGE VEHICLES

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect and adjust the generator belt tension on 2.4 liter engines.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.
- Replace the **spark plugs** on 2.4 liter and 3.0 liter engines.
- Inspect and adjust the generator belt and power steering pump belt tension on 2.4 liter engines.
- Inspect the tie rod ends and boot seals.
- Adjust bands on 3–speed transmissions.

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect and adjust the generator belt tension on 2.4 liter engines.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.
- Replace the **ignition cables** (2.4 liter and 3.0 liter engines).
- Check the **PCV valve** and replace, if necessary.\*
- Replace the **spark plugs** on 2.4 liter and 3.0 liter engines.
- Check and replace, if necessary, the **engine timing belt** on 3.0 liter engines.
- Inspect the generator belt and power steering pump belt tension, and replace the belt, if necessary, on 2.4 liter engines.
- Inspect the serpentine drive belt (3.3 liter and 3.8 liter engines), replace if necessary.
- Inspect the tie rod ends and boot seals.
- Adjust bands on 3–speed transmissions.

## SPECIFICATIONS (Continued)

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect and adjust the generator belt tension on 2.4 liter engines.
  - Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines, and replace if necessary. This maintenance is not required if belt was previously replaced.
  - Flush and replace the engine coolant at 60 months.

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

- Change the engine oil.
- Replace the engine oil filter.

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

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.
  - Check the **PCV valve** and replace, if necessary. Not required if previously changed.\*
  - Replace the **spark plugs** on 2.4 liter and 3.0 liter engines.
  - Inspect and adjust the generator belt and power steering pump belt tension on 2.4 liter engines.
  - Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines, and replace if necessary. This maintenance is not required if belt was previously replaced.
  - Check and replace, if necessary, the engine timing belt on 3.0 liter engines. This maintenance is not required if belt was previously replaced.
  - Inspect the tie rod ends and boot seals.
  - Inspect the brake linings.
  - Adjust bands on 3-speed transmissions.

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

- Change the engine oil.
- Replace the engine oil filter.

**100,000 Miles (160,000 km)**

- Replace the **spark plugs** 3.3 liter and 3.8 liter engines.
- Replace the **ignition cables** 3.3 liter and 3.8 liter engines.
- Flush and replace the engine coolant if not done at 60 months.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect and adjust the generator belt tension on 2.4 liter engines.
  - Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines, and replace if necessary. This maintenance is not required if belt was previously replaced.

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

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

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

- Change the engine oil.
  - Replace the engine oil filter.
  - Replace the **engine air cleaner element (filter)**.
    - Replace the **ignition cables** 2.4 liter and 3.0 liter engines.
    - Check and replace the **PCV valve**, if necessary.\*
    - Replace the **spark plugs** 2.4 liter and 3.0 liter engines.
      - Inspect the generator belt and power steering pump belt tension, replace belt if necessary on 2.4 liter engines.
      - Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines. Not required if replaced at 75,000, 90,000 or 105,000 miles.
      - Replace the **engine timing belt** on 2.4 liter engine only.
      - Check and replace, if necessary, the **engine timing belt** on 3.0 liter engines. This maintenance is not required if belt was replaced at 90,000 miles (144 000 km).
      - Inspect the tie rod ends and boot seals.
      - Adjust bands on 3-speed transmissions.
- \* This maintenance is recommended by Daimler-Chrysler Corporation to the owner but is not required to maintain the emissions warranty.

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

**SCHEDULE – B – PLYMOUTH/DODGE VEHICLES**

Follow this schedule if the vehicle is usually operates under one or more of the following conditions.

- Frequent short trips of less than 5 miles
- Frequent driving in dusty conditions
- Frequent trailer towing
- Day and night temperatures are below freezing
- Frequent stop and go driving
- Extensive periods of idling

## SPECIFICATIONS (Continued)

- Frequent operation at sustained high speeds during hot weather, above 90°F (32°C)
- Use of E-85 (ethanol) fuel in 3.3 liter engines.

**3,000 Miles (5 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**6,000 Miles (10 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**9,000 Miles (14 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**12,000 Miles (19 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**15,000 Miles (24 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the **engine air cleaner element (filter)**. Replace as necessary.\*
  - Adjust bands on 3-speed transmission. (See the note at the end of Schedule – B.)
  - Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
  - Inspect and adjust the generator belt tension on 2.4 liter engines.

**18,000 Miles (29 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**21,000 Miles (34 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**24,000 Miles (38 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**27,000 Miles (43 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**30,000 Miles (48 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.
  - Inspect the **PCV valve** and replace as necessary.\*
  - Replace the **spark plugs** 2.4 liter and 3.0 liter engines.
  - Inspect and adjust the generator belt and power steering pump belt tension on 2.4 liter engines.
  - Adjust bands transmission fluid and replace the filter. (See the note at the end of Schedule – B.)
  - Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
  - Inspect the tie rod ends and boot seals.

**33,000 Miles (53 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**36,000 Miles (58 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**39,000 Miles (62 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**42,000 Miles (67 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**45,000 Miles (72 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the **engine air cleaner element (filter)**. Replace as necessary.\*
  - Inspect and adjust the generator belt tension on 2.4 liter engines.
  - Adjust bands on 3-speed transmission. (See the note at the end of Schedule – B.)
  - Change the All Wheel Drive power transfer unit fluid. (See the note at the end of Schedule – B.)
  - Inspect the brake linings.

**48,000 Miles (77 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Drain and replace the automatic transmission fluid and filter.

## SPECIFICATIONS (Continued)

**51,000 Miles (82 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**54,000 Miles (86 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**57,000 Miles (91 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**60,000 Miles (96 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.
- Replace the **ignition cables** (2.4 liter and 3.0 liter engines).
- Inspect the **PCV valve** and replace if necessary.\*
- Replace the **spark plugs** on 2.4 liter and 3.0 liter engines).
- Check and replace, if necessary, the **engine timing belt** on 3.0 liter engines.
- Inspect the generator belt and power steering pump belt tension, replace belt if necessary on 2.4 liter engines.
- Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines and replace if necessary.
- Adjust bands on 3–speed transmissions. (See the note at the end of Schedule – B.)
- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)
- Inspect the tie rod ends and boot seals.

**63,000 Miles (101 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)
- Inspect the brake linings.

**66,000 Miles (106 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**69,000 Miles (110 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**72,000 Miles (115 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

- Inspect the brake linings.

**75,000 Miles (120 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the **engine air cleaner element (filter)** and replace as necessary.\*
- Replace the **spark plugs** (3.3 liter and 3.8 liter engines).
- Replace the **ignition cables** (3.3 liter and 3.8 liter engines).
- Inspect and adjust the generator belt tension on 2.4 liter engines.
- Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines, and replace if necessary. This maintenance is not required if belt was previously replaced.
- Adjust bands on 3–speed transaxle. (See the note at the end of Schedule – B.)
- Change the All Wheel Drive power transfer unit fluid. (See the note at the end of Schedule – B.)

**78,000 Miles (125 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**81,000 Miles (130 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**84,000 Miles (134 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**87,000 Miles (139 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**90,000 Miles (144 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.
- Check the **PCV valve** and replace if necessary. Not required if previously changed.\*
- Replace the **spark plugs** on 2.4 liter and 3.0 liter engines.
- Check and replace, if necessary, the **engine timing belt** on 3.0 liter engines. This maintenance is not required if belt was previously replaced.
- Inspect and adjust the generator belt and power steering pump belt tension on 2.4 liter engines.

## SPECIFICATIONS (Continued)

- Inspect the serpentine drive belt (3.3 liter and 3.8 liter engines) and replace if necessary. This maintenance is not required if belt was previously replaced.

- Adjust bands on 3-speed transmission. (See the note at the end of Schedule – B.)

- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)

- Inspect the tie rod ends and boot seals.
- Inspect the brake linings.

**93,000 Miles (149 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**96,000 Miles (154 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Drain and replace the automatic transmission fluid and filter.

**99,000 Miles (158 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**102,000 Miles (163 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Flush and replace the engine coolant.

**105,000 Miles (168 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the **engine air cleaner element (filter)** and replace as necessary.\*

- Inspect and adjust the generator belt tension on 2.4 liter engines.

- Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines and replace if necessary. This maintenance is not required if the belt was previously replaced.

- Adjust bands on 3-speed transmission. (See the note at the end of Schedule – B.)

- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)

- Change the All Wheel Drive (AWD) overrunning clutch and rear carrier fluid. (See the note at the end of Schedule – B.)

**108,000 Miles (173 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**111,000 Miles (178 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**114,000 Miles (182 000 km)**

- Change the engine oil.
- Replace the engine oil filter.

**117,000 Miles (187 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Inspect the brake linings.

**120,000 Miles (192 000 km)**

- Change the engine oil.
- Replace the engine oil filter.
- Replace the **engine air cleaner element (filter)**.

- Replace the **ignition cables** on 2.4 liter and 3.0 liter engines.

- Inspect the **PCV valve** and replace as necessary.\*

- Replace the **spark plugs** on 2.4 liter and 3.0 liter engines.

- Check and replace, if necessary, the **engine timing belt** on 3.0 liter engines. This maintenance is not required if belt was replaced at 90,000 miles (144 000 km).

- Inspect the generator belt and power steering pump belt tension, replace the belt if necessary on 2.4 liter engines.

- Inspect the serpentine drive belt on 3.3 liter and 3.8 liter engines. Not required if replaced at 75,000, 90,000 or 105,000 miles.

- Replace the **engine timing belt** on 2.4 liter engines.

- Adjust bands on 3-speed transmission. (See the note at the end of Schedule – B.)

- Change the All Wheel Drive (AWD) power transfer unit fluid. (See the note at the end of Schedule – B.)

- Inspect the tie rod ends and boot seals.

\* This maintenance is recommended by Daimler-Chrysler Corporation to the owner but is not required to maintain the emissions warranty.

**NOTE: Operating the vehicle more than 50% in heavy traffic during hot weather, above 90°F (32°C), using vehicle for police, taxi, limousine type operation or trailer towing require the more frequent transaxle service noted in Schedule – B. Perform these services if vehicle usually operate under these conditions.**

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

# JUMP STARTING, TOWING, AND HOISTING

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## SERVICE PROCEDURES

### JUMP STARTING PROCEDURE

**WARNING: REVIEW ALL SAFETY PRECAUTIONS AND WARNINGS IN BATTERY/STARTING/CHARGING SECTIONS. 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

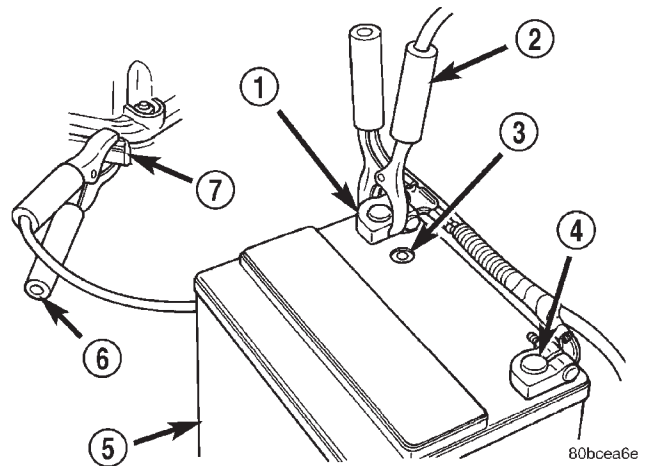
the automatic transmission in PARK or the manual transmission in NEUTRAL and turn the ignition OFF.

(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**

- 1 - BATTERY POSITIVE CABLE
- 2 - POSITIVE JUMPER CABLE
- 3 - TEST INDICATOR
- 4 - BATTERY NEGATIVE CABLE
- 5 - BATTERY
- 6 - NEGATIVE JUMPER CABLE
- 7 - ENGINE GROUND

SERVICE PROCEDURES (Continued)

**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 minutes), before cranking again.

**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**

**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.**

**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 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.**

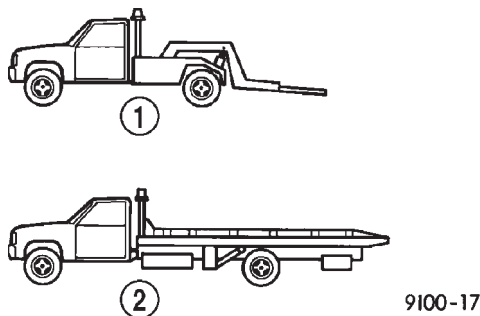
**RECOMMENDED TOWING EQUIPMENT**

To avoid damage to bumper fascia and air dams use:

- FWD vehicles, use a flat bed towing device or wheel lift is recommended (Fig. 2).

- AWD vehicles, a flat bed towing device or wheel lift and towing dolly is recommended (Fig. 2).

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. 2 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**

- Three speed automatic transaxle vehicles can be flat towed at speeds not to exceed 40 km/h (25 mph) for not more than 25 km (15 miles). The steering column must be unlocked and gear selector in neutral.

- Four 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.

The vehicle can be tied to a flat bed device using the two pair of front slots on the bottom surface of the rails, behind the front wheels. The two pair of rear slots on the bottom of the rail between the bumper extension bolts and on the bottom of the rail just rearward of the jounce bumper. Vehicles equipped with a rearsway bar have brackets at this location.

**TOWING – FRONT WHEEL LIFT**

If the vehicle is being towed from the front, whenever possible ensure at least 10 inches road clearness to the tires.

**TOWING – REAR WHEEL LIFT**

If a vehicle cannot be towed with the front wheels lift, 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.
- Three speed automatic transaxle vehicles can be flat towed at speeds not to exceed 40 km/h (25 mph) for not more than 25 km (15 miles). The steering column must be unlocked and gear selector in neutral.
- Four 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.

**HOISTING RECOMMENDATIONS**

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

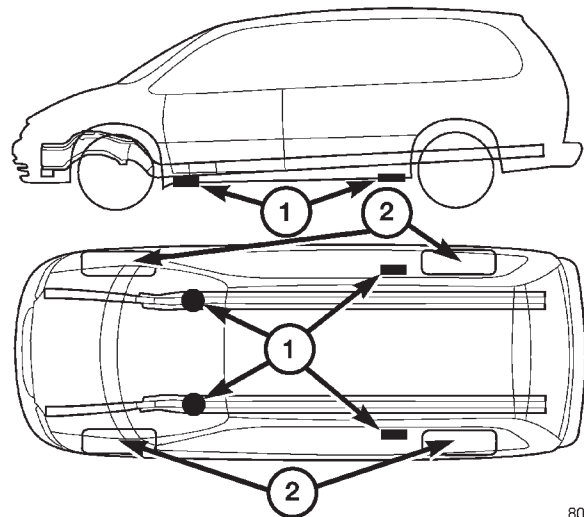
**WARNING: THE HOISTING AND JACK LIFTING POINTS PROVIDED ARE FOR A COMPLETE VEHI-**

**CLE. 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 or front crossmember, damage to vehicle can result.

**TO HOIST OR JACK VEHICLE SEE (Fig. 3).**

Vehicles have factory rear hoisting pads. These pads are stamped, “Hoist Point”. The front hoisting points are at the bottom of the front rail below the S. A. E. hoisting symbol (inverted triangle). Verify clearance of hoist arm to sill flange to avoid damage.



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**Fig. 3 Hoisting and Jacking Points**

ITEM	DESCRIPTION
1	Frame Contract Lift (Single Post) Chassis Lift (Dual Post) Outboard Lift (Dual Post) Floor Jack
2	Drive On Lift