

Engine Cooling Systems

CHRYSLER CORP.

WATER PUMP

ALL MODELS

Removal (3.7L Engines)

Drain cooling system. Loosen alternator, power steering pump or idler pulley, and remove all drive belts. Remove fan, spacer, pulley and bolts as an assembly. Position by-pass hose lower clamp in center of hose and disconnect hose. Remove water pump retaining bolts and remove pump assembly.

Installation

Clean all gasket surfaces. Install new hoses, as required, and replace gaskets. Reverse removal procedure. Tighten bolts, adjust drive belt tension and refill cooling system.

RAMCHARGER & PICKUP

Removal (5.2L & 5.9L Engines)

1) Drain cooling system. If equipped with air conditioning, remove radiator. Loosen power steering and air pumps, if equipped. Loosen alternator adjusting bolt and pivot bolt. Remove all drive belts.

2) On vehicles without air conditioning, remove alternator bracket bolts from water pump. Swing alternator out of the way and tighten pivot bolt. On vehicles with air conditioning, remove alternator adjusting bracket and power steering pump bolts and set aside.

3) Remove fan blade, spacer or fluid unit, pulley and bolts as an assembly. Disconnect heater and by-pass hoses. Remove air conditioning compressor pulley and field coil assembly.

NOTE: To prevent silicone fluid from draining into fan drive bearing and ruining the lubricant, do not place drive unit with shaft pointing downward.

4) Remove water pump-to-compressor front mount brackets bolts, and remove bracket. Remove pump retaining bolts and water pump assembly.

Installation

Clean all gasket surfaces, install new hoses, as required, and replace gaskets. Reverse removal procedure, tighten bolts, adjust drive belt tension and refill cooling system.

ALL VANS

Removal (5.2L & 5.9L Engines)

1) Drain cooling system and if equipped with air conditioning, remove radiator and shroud. Loosen alternator adjusting bolts and pivot bolt. Loosen power steering bolts. Remove all drive belts. On engines without air conditioning remove alternator bracket-to-water pump bolts. Swing alternator out of way and tighten pivot bolt.

2) On engines with air conditioning, remove idler pulley assembly, alternator and adjusting bracket. On all models, remove fan, spacer or fluid drive, pulley and bolts as an assembly.

NOTE: To prevent silicone fluid from draining into fan drive bearing and ruining lubricant, do not place drive unit with shaft pointing downward.

3) Disconnect heater, by-pass and radiator hoses. Remove compressor clutch assembly, compres-

sor-to-front mounting bracket bolts and water pump-to-compressor front mount bracket bolts and bracket. Remove water pump attaching bolts and water pump assembly.

Installation

Clean all gasket surfaces. Install new hoses, as required and replace gaskets. Reverse removal procedure. Tighten bolts, adjust drive belt tension and refill cooling system.

SPECIFICATIONS

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Water Pump Attaching Bolts	30 (41)
Fan Attaching Bolts	17 (23)
Fluid Fan Drive Bolts	15-18 (20-24)

COOLING CAPACITIES

Application	Quarts (Liters)
3.7L	112.0 (11.4)
5.2L	² 16.0 (15.1)
5.9L	² 14.5 (13.7)

¹ — Add 2 quarts (1.9) for A/C.

² — Add 1 quart (.9) for A/C, extra cool or aux. heat.

PRESSURE CAP

Application	psi (kg/cm ²)
All Models	16 (1)

THERMOSTAT

Application	Initial Open °F (°C)	Full Open °F (°C)
3.7L All Models	195 (91)	219 (104)
5.2L All Models	195 (91)	219 (104)
5.9L All Models	195 (91)	219 (104)