

# Engine Cooling Systems

## CHRYSLER CORP.

### COOLING SYSTEM CAPACITY

Application	Quarts
<b>225"</b>	
D100 & 200, W100 & 200 .....	①②13
D300, W300 .....	①14
All B, PB, CB, MB Models .....	①13
<b>318"</b>	
D100, W100 .....	①17
D200 & 300, W200 & 300 .....	③17
All B, PB, CB, MB Models .....	①17
<b>360"</b>	
D & W Models (All) .....	①16
B, PB, CB, MB Models .....	①④16
M300, M400 .....	21
<b>400"</b>	
B100 & 200, PB100 & 200 .....	①14.5
B, PB, CB, MB300 Models .....	①④14.5
<b>440"</b>	
D & W Models (All) .....	③16
B100 & 200, PB100 & 200 .....	①14.5
B, PB, CB, MB300 Models .....	①④14.5
M300, M400, M500, M600 .....	23

- ① - Add 1 quart with increased cooling, auxiliary heater or air conditioning.
- ② - On W100 models add 1 quart for automatic transmission or increased cooling.
- ③ - Add 1½ quarts for air conditioning or increased cooling.
- ④ - Add 2 quarts for air conditioning.

### PRESSURE CAP

Application	PSI
All Models .....	16

### THERMOSTAT

Application	①Initial Open	①Full Open
225" All .....	182-189 .....	205
<b>318"</b>		
All 100 & 200 Models .....	192-199 .....	219
All 300 Models .....	182-189 .....	205
360" All .....	182-189 .....	205
400" All .....	182-189 .....	205
440" All .....	182-189 .....	205

① - Specifications are in °F.

### WATER PUMP

#### "D" & "W" MODELS

**Removal (225" Engine)** - On models without air conditioning, drain cooling system. Remove fan shroud (if equipped) and set back on engine. Loosen alternator, power steering pump and remove belts. Remove fan, spacer, pulley and bolts as an assembly. Remove fan shroud if equipped. Position lower hose clamp in center of by-pass hose. Disconnect heater hose and lower radiator hose from water pump. Remove water pump attaching bolts and water pump assembly.

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

**Removal (V8 Engines)** - 1) Drain cooling system. Remove fan shroud (if equipped) and set back on engine. Disconnect radiator hoses and oil cooler lines at radiator. **CAUTION** - Cap or plug lines to prevent contamination of fluid or excessive loss of fluid. Remove radiator attaching screws, air conditioning condenser attaching bolts (if necessary), and remove radiator and shroud from vehicle.

2) Loosen alternator adjusting bolts and pivot bolt, power steering and air pump (if equipped), and remove all drive belts. On 318" and 360" engines without air conditioning, remove alternator bracket attaching bolts, swing alternator out of way and tighten pivot bolt. On 318" and 360" engines with air conditioning, remove idler pulley assembly, alternator and adjusting bracket.

3) Remove fan, spacer (or fluid drive) pulley and bolts as an assembly. **CAUTION** - To prevent silicone fluid from draining into fan drive bearing and ruining the lubricant, do not place drive unit with shaft pointing downward.

4) On 318" and 360" engines, disconnect heater and by-pass hoses, remove compressor clutch assembly, remove compressor to front mounting bracket bolts and remove water pump to compressor front mount bracket bolts and bracket. On all engines, remove water pump attaching bolts and water pump assembly.

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

#### B, PB, CB, & MB MODELS

**Removal (225" Engine)** - Drain cooling system, loosen alternator, power steering pump or idler pulley, then 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 heater hose. Remove water pump retaining bolts and water pump assembly.

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

## CHRYSLER CORP. (Cont.)

**Removal (318" & 360" 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 318" and 360" engines without air conditioning, remove alternator bracket bolts to water pump. Swing alternator out of way and tighten pivot bolt.

2) On 318" and 360" 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. **CAUTION** – To prevent silicone fluid from draining into fan drive bearing and ruining the lubricant, do not place drive unit with shaft pointing downward.

3) Disconnect heater, by-pass and radiator hoses. Remove compressor clutch assembly, compressor-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 gaskets. Reverse removal procedure, tighten bolts, adjust drive belt tension and refill cooling system.

**Removal (400" & 440" Engines)** – Disconnect fusible link in engine compartment, then drain cooling system. Loosen all drive belts, then remove crankshaft pulley. Remove fan shroud and set back on engine. Remove fluid fan drive bolts and set fluid fan drive and fluid fan assembly aside. Remove water pump retaining bolts and water pump assembly.

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

### MOTOR HOME MODELS

**Removal** – 1) Radiator must be removed before removing water pump. The radiator removal procedure may vary depending on body style. The following general procedures apply to most body styles. Disconnect battery ground cable and drain cooling system. Disconnect upper and lower radiator hoses, remove radiator filler extension, and disconnect oil cooler lines. **CAUTION** – Cap or plug lines to prevent contamination of fluid or excessive loss of fluid.

2) Remove upper air baffle, both side baffles and coolant reserve tank. Remove fan shroud from radiator and position rearward on engine to provide maximum clearance. Remove radiator attaching bolts and remove radiator from vehicle.

3) Loosen power steering pump and alternator. Remove all drive belts. Remove fan and fluid fan drive as a unit. **CAUTION** – To prevent silicone fluid from draining into fan drive bearing and ruining the lubricant, do not place drive unit with shaft pointing downward. Remove inlet hose, and loosen by-pass hose clamp (360" engine only). Remove water pump attaching bolts and water pump assembly.

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

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Water Pump Attaching Bolts.....	30
Fan Attaching Bolts.....	15-18
Fluid Fan Drive Bolts.....	15-18