

## JEEP

### COOLING SYSTEM CAPACITIES

Application	Quarts
All Models	
2.5L Engines .....	8
4.2L Engines .....	11
5.0L Engines .....	13
6.0L Engines .....	14

### PRESSURE CAP

Application	psi
4 Cylinder Engines .....	14
6 & 8 Cylinder Engines .....	15

### THERMOSTAT

Application	① Initial Open	① Full Open
All Models .....	192-198	218

① — Specifications are in °F.

### WATER PUMP

#### ALL 4-CYLINDER MODELS

**Removal** — Drain coolant. Remove drive belts and fan. Disconnect radiator hoses from water pump. Remove water pump attaching bolts, and remove pump.

**Installation** — Clean gasket surfaces, install new hoses (as required) and gaskets. Reverse removal procedure, tighten bolts, adjust drive belt tension, refill system and check for leaks.

#### ALL 6-CYLINDER MODELS

**Removal** — 1) Drain cooling system and disconnect all hoses at water pump. Remove drive belts and separate fan shroud (if equipped) from radiator.

2) Remove fan and hub assembly and remove fan shroud. Remove water pump and gasket.

**NOTE** — On some models, fan removal may be easier if shroud is rotated 1/2 turn.

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

**CAUTION** — California engines with a single drive belt have a reverse rotating water pump and viscous (Tempatrol) fan drive assembly. Components are identified by the words "REVERSE" stamped on the cover of viscous drive and inner side of fan, and "REV" cast into water pump body. Do not install components that are intended for non-single drive belts.

#### ALL V8 MODELS

**Removal** — 1) Drain cooling system and disconnect negative battery cable. Disconnect upper radiator hose at radiator. Loosen all drive belts. Separate fan shroud (if equipped) from radiator and position rearward on engine.

2) Remove fan and hub from water pump. Remove fan and shroud assembly (if equipped) from engine compartment.

3) If equipped with air conditioning, install a double nut on compressor bracket-to-water pump stud and remove stud. This eliminates having to remove the mounting bracket. Remove alternator and mounting bracket assembly (position to one side with wires attached). If equipped with power steering, remove nuts attaching pump to rear half of mounting bracket. Remove bolts attaching front half of bracket to rear half.

4) Remove remaining upper bolt from inner air pump support brace, loosen lower bolt and drop brace away from power steering front bracket. Remove front half of power steering bracket from water pump mounting stud. Disconnect heater hose, by-pass hose and lower hose at 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 nuts and bolts, adjust drive belt tension and refill cooling system.

**CAUTION** — Check to be sure wire coil is installed in lower radiator hose. Failure to install this coil will result in the hose collapsing at high engine RPM.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Water Pump-to-Block	
2.5L (151" Engines) .....	18-33
4.2L (258" Engines) .....	9-18
5.0L (304" Engines) .....	18-33
6.0L (360" Engines) .....	18-33
Front Cover to Engine	
Block Through Water Pump (V8 only) .....	18-33
Fan Blade-to-Hub .....	12-25
Thermostat Housing	
2.5L Engines .....	17-23
All Others .....	10-18