

CHRYSLER CORP.

COOLING SYSTEM CAPACITIES			
Application	Approximate Capacity (Qts.) ^①		
	Standard System	With Air Conditioning	With Maximum Cooling Option ^②
3.7L (225") B & PB150/250 Automatic Transmission	14	14	14
Manual Transmission	12	14	14
5.2L (318") B & PB150/250 Automatic Transmission	16	17	18
Manual Transmission	16	17	18
B, PB & CB350, CB450 & MB250/450 Automatic Transmission	16	18	19
Manual Transmission	.....	.....	19
5.9L (360") B & PB150/250 Automatic Transmission	14.5	15.5	15.5
Manual Transmission	.....	.....	.....
B, PB & CB350, CB450 & MB250/450 Automatic Transmission	17	18	19
Manual Transmission	.....	.....	.....

① — Add 1 quart if vehicle is equipped with auxiliary heater.

② — Includes trailer towing option.

PRESSURE CAP

Application	psi
All Models	16

THERMOSTAT

Application	①Initial Open	①Full Open
3.7L All Models	195	219
5.2L All Models	195	219
5.9L All Models	195	219

① — Specifications are in ° F.

WATER PUMP

"AD", "AW", "PD", "PW",
"D" & "W" 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 gaskets. Reverse removal procedure, tighten bolts, adjust drive belt tension and refill cooling system.

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.

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) Remove water pump-to-compressor front mount bracket bolts, and remove bracket. Remove 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.

"B", "PB", "CB", & "MB" MODELS

Removal (3.7L Engines) — 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 middle of hose and disconnect hose. Remove water pump retaining bolts and remove 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.

Engine Cooling Systems

CHRYSLER CORP. (Cont.)

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.

CAUTION – 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, 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.

TIGHTENING SPECIFICATIONS

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

FORD MOTOR CO.

COOLING SYSTEM CAPACITIES

Application	Approximate Capacity (Qts.)			
	Standard System	Extra Cooling	Super Cooling Option	With Air Conditioning
4.2L (255") & 5.0L (302") F100/250 & Bronco				
Automatic Transmission	13	14	14	14
Manual Transmission	13	13	14	14
E100/350				
Automatic Transmission	.....	17.5	18.5	18.5
Manual Transmission	15	15	18.5	12.5
4.9L (300") F100/350 & Bronco				
Automatic Transmission	13	13	14	14
Manual Transmission	13	13	14	14
E100/350				
Automatic Transmission	15 ^③	.....	.....	20 ^{①②}
Manual Transmission	15 ^③	.....	.....	20 ^{①②}
5.8L (351") F100/350 & Bronco				
Automatic Transmission	15	15	16	16
Manual Transmission	15	15	16	16
E100/150				
Automatic Transmission	20 ^③	20 ^③	21	21
Manual Transmission	.....	.....	.....	15 ^{①②}
E250/350				
Man. & Auto. Transmission	20	21	28	21
6.6L (400") F350				
Automatic Transmission	16	16	16	16
Manual Transmission	15	15	16	16
E250/350				
Man. & Auto. Transmission	20	21	28	21
7.5L (460") E350				
Man. & Auto. Transmission	28 ^{①②}	28 ^{①②}	28 ^{①②}	28 ^{①②}

① – Add 1 quart for heater. ② – Add 1.8 quarts for auxiliary heater. ③ – Without air conditioning.

FORD MOTOR CO. (Cont.)

PRESSURE CAP

Application	psi
All Models	13

THERMOSTAT

NOTE — Due to the different variations of emission control devices and the geographical areas for which the vehicles are manufactured, the thermostats will vary from one model to another. Either a 160°, 180° or a 190° thermostat may be used.

WATER PUMP

4.9L "E" & "F" MODELS

Removal — Drain cooling system. Loosen alternator adjusting arm bolt and remove drive belt. Remove air conditioning drive belt (if equipped). Remove fan, pulley and bolts from water pump hub. Disconnect heater hose and lower radiator 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 bolts, adjust drive belt tension and refill cooling system.

5.0L & 5.8L (W) F100/250 & BRONCO MODELS

Removal — Drain cooling system. Remove bolts securing fan shroud (if equipped) to radiator and position shroud over fan. Disconnect lower radiator hose, heater hose, and by-pass hose at water pump. Remove drive belts, fan, spacer, pulley and bolts from water pump hub. Remove fan shroud. Loosen alternator pivot bolt and adjusting arm-to-water pump bolt. 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.

4.2L, 5.0L, & 5.8L (W) E100/350 MODELS

Removal — 1) Remove air cleaner and intake duct assembly including closed crankcase ventilation hose and oil breather cap. Drain cooling system. Disconnect radiator hoses at radiator and oil cooler lines (if equipped). Remove radiator attaching bolts and remove radiator.

2) Remove drive belts, fan, spacer, pulley and bolts from water pump hub. Disconnect heater hose and by-pass 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 bolts, adjust drive belt tension and refill cooling system.

5.8L (M) & 6.6L "E", "F", & BRONCO MODELS

Removal — 1) Drain cooling system and disconnect battery ground cable. Remove fan shroud bolts and position back over engine. Remove fan and spacer from pump. Remove air conditioning drive belt, lower idler pulley and compressor mounting bracket (if equipped).

2) Loosen alternator and remove drive belt. Loosen power steering pump and remove drive belt. Remove water pump pulley. Remove alternator and bracket without disconnecting wires and position out of way.

3) Remove radiator and heater hoses from water pump. Remove water pump attaching bolts and water pump.

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

7.5L "E" MODELS

Removal — 1) Drain cooling system and remove fan shroud bolts. Remove fan assembly from water pump and remove shroud. Loosen power steering pump bolts. If equipped with air conditioning, loosen compressor top bracket bolts and remove bracket. Remove air conditioning idler arm and bracket assembly. Remove compressor and power steering drive belts.

2) If equipped with air pump, remove pump pulley and belt. Disconnect by-pass hose and remove pump pivot bolt. Loosen adjustment arm and remove air pump. Loosen alternator pivot bolt and remove attaching bolts and spacer. Remove adjustment arm bolt and remove alternator and bracket as an assembly.

3) Remove power steering pump and lay aside. Disconnect radiator lower hose and heater hose from water pump. Loosen by-pass hose clamp at pump and remove attaching bolts and remove water pump.

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.
All Models	
Water Pump Attaching Bolts	
4.2L, 4.9L, 5.0L, 5.8L, & 6.6L	12-18
7.5L	15-21
Fan-to-Hub Bolts	12-18