

CHRYSLER CORP. (Cont.)

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 CAPACITY

Application	Quarts
300"	
E100/350 Man. & Auto. Trans. w/o A/C	①②15
E100/350 Man. & Auto. Trans. w A/C	①②20
F100/350 Man. Trans.	③13
F100/350 Auto. Trans.	④14
302"	
E100/350 Man. Trans.	15
E100/350 Auto. Trans.	17.5
F100/150 Man. Trans.	15
F100/150 Auto. Trans.	④15
351"	
E100/150 Man. Trans.	①②15
E100/150 Auto. Trans.	①②20
E250/350 All Exc. "Super Cool"	20
E250/350 "Super Cool"	27
F100 Man. Trans.	17
F100/350 Man. & Auto. Trans. w "Super Cool"	24
F150/350 Man. Trans. Std. Cooling	15
F150/350 Man. & Auto. Trans. w Extra Cooling	17
F150/350 Man. & Auto. Trans. w A/C	18
Bronco Man. Trans. w Std. Cooling	20
Bronco (All Others)	22
400"	
E250/350 All Exc. "Super Cool"	20
E250/350 "Super Cool"	27
F100/350 Auto. Trans.	18
F250/350 Man. Trans.	18
F100/350 & Bronco with "Super Cool"	24
Bronco All Exc. "Super Cool"	22
460"	
E350 All	①②28

① — Add 1 quart for heater.
 ② — Add 1.8 quarts for auxiliary heater.
 ③ — Add 4 quarts with A/C.
 ④ — Add 3 quarts with A/C.

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

300" 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.

302" & 351" W V8 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.

302" & 351" W V8 E100/250 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.

Engine Cooling Systems

FORD MOTOR CO. (Cont.)

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.

351" M & 400" V8 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 if equipped. Also remove compressor mount to water pump.

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.

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.

460" V8 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.
Water Pump Attaching Bolts	
All Models	
300", 302", 351" M & W & 400"	12-18
460"	15-21
Fan-to-Hub Bolts	12-18

GENERAL MOTORS

COOLING SYSTEM CAPACITY

Application ^①	Quarts
250"	
C10 & K10 Man. & Auto. Trans.	②15
G10/30	17
292"	
C20 Auto. & Man. Trans.	②15
C30 & K30 Auto. & Man. Trans.	②14.5
P10/30	13.5
305"	
C10/30 & K10/30 Auto. & Man. Trans.	17.5
G10	④19
350" Gas	
C10/30 & K10/30 Auto. & Man. Trans.	②17.5
G10/30 Auto. & Man. Trans.	20
P20	③16.5
350" Diesel	18
400"	
K20 Auto. Trans.	⑤⑥18
G20/30 Auto. Trans	⑤20

Application ^①	Quarts
454"	
P30 Auto. Trans.	④23.5
C20/30 Auto. Trans.	⑦24

① — When General Motors is referred to within this manual (rather than Chevrolet or GMC), the numerical vehicle series designations will be abbreviated for common reference to both Chevrolet and GMC. Chevrolet will use numerical series designation as listed. GMC models will be identified as follows: 10 = 1500; 20 = 2500; 30 = 3500.

- ② — Add 1/2 qt. with Air Conditioning.
- ③ — Add 1/2 qt. with Heavy Duty Cooling.
- ④ — Add 1 qt. with Air Conditioning.
- ⑤ — Add 1 qt. with Heavy Duty Cooling.
- ⑥ — Add 2 qt. with Air Conditioning.
- ⑦ — Add 1/2 qt. with Trans. Oil Cooler.

PRESSURE CAP

Application	PSI
All Models	15

THERMOSTAT

Application	① Rating °F
All	195
① — Thermostat should be full open at 25°F above stamped rating and fully closed at 10°F below stamped rating.	