

FORD MOTOR CO.

COOLING SYSTEM CAPACITY

Application	Quarts
300"	
F100, F150 Man. Trans.	① 13
F100, F350 Auto. Trans.	② 14
302"	
F100, F150	② 15
351"	
F100	17
F150, F350 Man. Trans.	③ 15
F150, F350 Auto. Trans.	③ 17
400"	
F250, F350 Man. Trans.	③ 18
F100, F350 Auto Trans.	③ 18
400"	
F250, F350 Man. Trans.	③ 18
F100, F350 Auto. Trans.	③ 18
460"	
F150, F350	24
Bronco	
351" Man. Trans.	③ 20
400"	③ 22
300"	
E100, E350 Man. Trans.	16
E100, E350 Auto. Trans.	21
351"	
E100, E350 Man. Trans.	16
E100, E350 Auto. Trans.	21
460"	
E100, E350	29

① - Add 4 qts. with A/C.
 ② - Add 3 qts. with A/C.
 ③ - Man. & Auto. Trans. and Super Cooling, 24 qts.

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 - 1) 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.

2) Remove power steering pump attaching bolts and position pump to one side with hoses attached. Remove air conditioning bracket. Disconnect lower radiator hose and heater hose from water pump. Loosen by-pass hose clamp 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" "F" 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.

351" "E" 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. Loosen alternator pivot bolt and adjusting arm-to-water pump bolt. 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.

351" & 400" "F" 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.

3) Remove power steering pump and bracket without disconnecting lines and position out of way. Disconnect heater hose at water pump. Disconnect lower radiator hose at water pump. Remove water pump 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.

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.

460" "E" & "F" MODELS

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

2) Loosen alternator pivot bolts. Remove two attaching bolts and spacer. Remove drive belt, then rotate bracket out of the way. If equipped with air conditioning, remove mounting bolts and remove compressor. Wire out of way to the left fenderwell without disconnecting lines.

3) Disconnect lower radiator hose and heater hose at water pump. Loosen by-pass hose clamp at water pump. Remove

remaining water pump bolts. Remove water pump from engine. Remove separator plate from 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	
"E" Models	
300", 302" & 351"	ⓐ12-18
"F" Models	
300", 302" & 351W	
351"M, 400" & 460"	12-18
Fan-to-Hub Bolts	
"E" Models	10-15
"F" Models	12-18

ⓐ — For 5/16"-18 Bolts. 5/16"-24 Bolts 14-20

GENERAL MOTORS

CHEVROLET & GMC COOLING SYSTEM CAPACITY

Application	Quarts	Application	Quarts
250"		350"	
G10, G35	15	K10, K15	17.5
C10, K10, K15 Man. Trans.	15	K20, K25	18
C10, K10, K15 Auto. Trans.	15.5	K30, K35	17.5
292"		P20, P25	16.5
G20, G35	14.5	P30, P35	17
C20, C35, K20, K35	ⓐ14.5	400"	
P10, P15	13.5	G20, G35	ⓑ18
305"		K10, K15	ⓐ19.5
G10, G15	14.5	K20, K25	20
G10, G15	14.5	454"	
C10, C15	17.5	C10, C15	19.5
C20, C25	17.5	C20' C25	24.5
K10, K15	17.5	P20, P25	23.5
K20, K25	17.5		
350"			
G10, G15	ⓑ17.5		
G20, G35	ⓑ17.5		
C10, C35	ⓑ17.5		

ⓐ — Add 1 qt. with Air Conditioning.
 ⓑ — Add 1/2 qt. with Air Conditioning.
 ⓒ — Add 1 1/2 qt. with Air Conditioning.

CHEVROLET & GMC PRESSURE CAP

Application	PSI
All Other Models	15

CHEVROLET & GMC THERMOSTAT

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