

## FORD MOTOR CO.

### COOLING SYSTEM CAPACITY

Application	Quarts
300"	
E100.....	① 14.5
F100, F150 & F250 (4x4).....	⑤ 14.4
F100, F150 & F250 Man. Trans.....	③ 14.4
F100, F150 & F250 Auto. Trans.....	① 14.4
F350 Man. Trans.....	② 14.4
F350 Auto. Trans.....	② 14.4
P350.....	18.1
302" & 351-W"	
E100, E150, E250 & E350.....	④ 15.2
U100.....	16
F100 & F150.....	③ 14.8
F100 & F150 W/Super Cooling.....	23.9
360" & 390"	
F100, F150 & F250 Man. Trans.....	③ 19.6
F100, F150 & F250 Auto. Trans.....	⑦ 19.6
F100, F150 & F250 W/Super Cooling.....	23.9
F350 & P350.....	④ 22.3
460"	
All Models Exc. W/Super Cooling.....	④ 21
All Models W/Super Cooling.....	23.2

- ① - W/Extra Cooling, capacity is 16.4 qts.
- ② - W/Dual Rear Wheel or Extra Cooling options, capacity is 16.7 qts., if equipped with both; capacity is 18.3 qts.
- ③ - W/Extra Cooling, add 2.3 qts.
- ④ - W/Extra Cooling, add 1.6 qts.
- ⑤ - W/Auto. Trans. or Extra Cooling, capacity is 16.7 qts.
- ⑥ - W/Extra Cooling, capacity is 17.5 qts.
- ⑦ - W/Extra Cooling, add 2.7 qts.

### PRESSURE CAP

Application	PSI
All Models.....	13

### THERMOSTAT

Application	① Initial Open	① Full Open
300" Engine		
Low Temp.....	157-164.....	184-186
High Temp.....	185-192.....	211-214
302" & 351-W" Engines		
Low Temp.....	157-164.....	184
High Temp.....	188-195.....	212
360", 390" & 460" Engines		
Low Temp.....	157-162.....	182
High Temp.....	175-182.....	200

① - Specifications are in °F.

### WATER PUMP

#### 300" "E", "F" & "P" MODELS

**Removal** - Drain cooling system. Loosen alternator adjusting arm bolt and remove drive belt. 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" "U" & "F" MODELS

**Removal** - 1) 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.

2) Loosen alternator pivot bolt and adjusting arm-to-water pump bolt. Remove air pump (if equipped) to water pump and cylinder head attaching bolts. Remove bolt at air pump adjusting arm. 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-W" "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.

#### 360", 390" & 460" "F" MODELS

**Removal** - Drain cooling system. Loosen and remove drive belts. Remove fan, spacer, pulley and bolts from water pump hub. Remove power steering pump (if equipped) and position to one side with hoses attached. Disconnect lower radiator hose, heater hose and by-pass hose from water pump. Remove water pump attaching bolts and water pump assembly.

## 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.

### 360" & 390" MOTOR HOMES

**Removal** — 1) Drain cooling system and remove all drive belts. Remove fan shroud attaching bolts. Remove fan, spacer, pulley and bolts from water pump hub. Remove fan shroud. Remove alternator adjusting arm attaching bolts and spacer, then position bracket to one side. Remove air conditioning compressor (if equipped) attaching bolts and position compressor to left fender brace.

**Installation** — Clean all gasket surfaces, install new hoses as required, and new gaskets. Reinstall all related parts in reverse of removal procedure, tighten all bolts, adjust drive belt tension and refill cooling system.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Water Pump Attaching Bolts	
"E" & "U" Models	
300" .....	15-20
302" & 351-W" .....	12-15
"F" & "P" Models	
300" .....	15-20
302" & 351-W" .....	12-15
360" & 390" .....	20-25
460" .....	12-15
Motor Home .....	12-15
Fan-to-Hub Bolts	
"E" & "U" Models .....	10-15
"F" & "P" Models .....	12-18