

# Engine Cooling Systems

## ENGINE COOLANT CAPACITIES (Cont.)

### CHRYSLER CORP.

Application	CAPACITY (Qts)	
	Standard	With A/C
Omni		
105" 4-Cyl. ....	6.5	6.5
Horizon		
105" 4-Cyl. ....	6.5	6.5
Aspen, Diplomat, Volare, LeBaron		
225" 6-Cyl. ....		12.5
318" V-8 ....	15.5	16.5
360" V-8 ....		15.0
Fury, Monaco		
225" 6-Cyl. ....	13.0	14.5
318" V-8 ....	16.0	17.5
360" V-8 ....		15.5
400" V-8 ....		16.0
440" V-8 ....		15.5
Magnum XE, Charger SE		
318" V-8 ....	16.0	17.5
360" V-8 ....		15.5
400" V-8 ....	16.0	17.0
Cordoba, Newport, New Yorker		
360" V-8 ....	15.5	16.5
400" V-8 ....	16.0	17.0
440" V-8 ....	15.5	16.5

### THERMOSTAT

Thermostat is a wax pellet type with an opening temperature of 195°F. Bring engine to normal operating temperature and

check coolant temperature. It should be stable at 187-195°F. Replace thermostat if it fails to fall within operating range.

### PRESSURE CAP

All models use a 16 lb. pressure cap which should be tested at 14-17 lbs. Cap is also equipped with a vent valve in center of cap that allows a small flow through the cap when temperature is below boiling, but closes when boiling point is reached.

**CAUTION** — Warning words "DO NOT OPEN HOT" printed on radiator pressure cap are a safety precaution and should be heeded whenever engine is warm.

### WATER PUMP

Pump is serviced as an assembly only. When replacing water pump do not install a standard pump on any air conditioned vehicle or vice versa. It is possible to replace pump without discharging air conditioning system. When replacing a water pump because of a bearing or shaft failure, carefully inspect the fan for cracks, loose blades or rivets caused by excessive vibration. If any of these problems are found, fan should also be replaced.

### MAINTENANCE

After 24 months or 30,000 miles of operation and every 12 months or 15,000 miles thereafter, inspect, drain, clean and back-flush entire cooling system.

### FORD MOTOR CO.

CAPACITY (Qts.)			CAPACITY (Qts.)		
Application	Standard	With A/C	Application	Standard	With A/C
Pinto, Bobcat			351" W V-8 ....	15.4	15.7
140" 4-Cyl. ....	8.6	9.0	400" V-8 ....	16.5	16.5
171" 6-Cyl. ....	8.5	9.2	400" V-8 ....		②17.0
Mustang II			Ford, Mercury		
140" 4-Cyl. ....	8.8	9.1	302" V-8 ....	15.2	15.2
171" 6-Cyl. ....			302" V-8 ....		①17.1
Man. Trans. ....	8.4	8.6	351" M ....	17.0	17.0
Auto. Trans. ....	8.6	9.1	351" W ....	16.3	④16.3
302" V-8 ....	14.6	14.6	400" V-8 ....	17.0	17.0
Zephyr			400" V-8 ....		②17.5
140" 4-Cyl. ....	8.6	10.3	460" V-8 ....	18.6	18.6
200" 6-Cyl. ....	9.0	9.0	460" V-8 ....		②19.7
302" V-8 ....	13.9	14.0	Continental		
Fairmont			400" V-8 ....		16.9
140" 4-Cyl. ....	8.6	10.2	460" V-8 ....		18.7
200" 6-Cyl. ....	9.0	9.0	460" V-8 ....	③19.0	
302" V-8 ....	13.9	14.0	Mark V		
Granada, Monarch, Versailles			400" V-8 ....	16.9	16.9
250" 6-Cyl. ....	10.5	10.6	460" V-8 ....	18.6	18.6
302" V-8 ....	14.2	14.3	460" V-8 ....		③18.8
LTD II, Thunderbird, Cougar					
302" V-8 ....	14.3	14.6			
351" M V-8 ....	16.5	16.5			
351" M V-8 ....		①17.0			

① — Police & Taxi.

② — Trailer Tow & Police

③ — Trailer Tow.

④ — 18.2, Police.

## ENGINE COOLANT CAPACITIES (Cont.)

### FORD MOTOR CO. (Cont.)

#### THERMOSTAT

On all engines except V6, thermostat is located in water outlet elbow. On V6 engines, thermostat is located on bottom of water pump housing. Thermostat housing connects to lower radiator hose. Test thermostat to see that it starts to open, and is fully open at specified temperatures.

#### WATER PUMP

Ford Motor Co. recommends replacement of water pump if wear or damage exists. No attempt to overhaul or repair pump should be made.

#### Thermostat Opening Temperatures (°F)

Application	Starts Open	Fully Open
All Engines .....	188-195 .....	212-215

#### MAINTENANCE

**NOTE** — Vehicles designate maintenance schedule "A" or "B" on glovebox and engine emission control information decal.

#### PRESSURE CAP

Mustang, Pinto and Bobcat models all use a 13 psi pressure cap which should be tested at 11-17 psi. All other models use a 16 psi cap which should be tested at 13-19 psi.

Inspect cooling system every 15 months or 15,000 miles on vehicles with maintenance schedule "B", and every 20 months or 20,000 miles on vehicles with maintenance schedule "A". Drain, clean and flush system if inspection indicates sufficient dirt or rust to impair cooling ability. Ford Motor Co. recommends that coolant should be replaced every 40 months or 40,000 miles.

## GENERAL MOTORS

### BUICK

Application	CAPACITY (Qts)	
	Standard	With A/C
Skyhawk		
231" 6-Cyl. ....	①11.8 .....	①12.9
Skylark		
231" 6-Cyl. ....	②13.6 .....	③13.7
305" V-8 .....	④15.9 .....	16.3
350" V-8 (VIN L) .....	④16.1 .....	16.9
LeSabre, Estate Wagon		
Electra, Riviera		
231" 6-Cyl. ....	⑤12.9 .....	⑤12.9
301" V-8 .....	⑥20.9 .....	20.9
305" V-8 .....	⑦16.6 .....	16.7
350" V-8 (VIN L) .....	⑧16.6 .....	16.7
350" V-8 (VIN X) .....	⑨14.1 .....	⑩14.1
350" V-8 (VIN R) .....	⑩14.6 .....	14.5
403" V-8.....	⑫15.7 .....	16.6
Century, Regal		
196" 6-Cyl. ....	⑬13.1 .....	⑭13.2
231" 6-Cyl. ....	⑬13.1 .....	⑭13.2
305" V-8 .....	⑮19.2 .....	18.9
350" V-8 (VIN L) .....	⑮19.2.....	18.9
① — Varies from 11.7 to 12.4 (Federal) and 11.7 to 12.9 (Calif.) depending on transmission and heavy duty cooling.		
② — 13.5, Hvy. Duty	⑨ — 14.9, Hvy. Duty	
③ — 13.6, Hvy. Duty	⑩ — 14.8, Hvy. Duty	
④ — 16.9, Hvy. Duty	⑪ — 15.4, Hvy. Duty	
⑤ — With Hvy. Duty	⑫ — 16.6, Hvy. Duty	
⑥ — 21.6, Hvy. Duty	⑬ — 13.0, Hvy. Duty & AT	
⑦ — 16.7, Hvy. Duty	⑭ — 13.1, Hvy. Duty & AT	
⑧ — 18.0, Hvy. Duty	⑮ — 19.6, Hvy. Duty	

#### THERMOSTAT

Thermostat should operate at 195°F on all engines.

#### PRESSURE CAP

All models use a 15 lb. radiator cap.

#### WATER PUMP

Water pump should be serviced as an assembly only if there is excessive endplay or roughness in bearing operation.

#### MAINTENANCE

Inspect cooling system every 12 months or 15,000 miles. Drain and flush cooling system every 24 months or 30,000 miles.