

# Engine Cooling Systems

6a-7

## ENGINE COOLANT CAPACITIES (Cont.)

FORD MOTOR CO.

CAPACITY (Qts.)					
Application	Standard	With A/C	Application	Standard	With A/C
Pinto & Bobcat					
140" 4-Cyl. ....	8.6	9.0	302" V8 .....		⓪ 15.9
2800 cc V6 .....	8.5	9.1	351" M V8 .....	16.5	16.5
Mustang & Capri			351" M V8 .....		⓪ 17.0
140" 4-Cyl. ....	8.6	10.0	351" M V8 .....		ⓐ 16.5
140" TC 4-Cyl. ....	8.6	10.2	351" W V8 .....	15.4	15.7
2800 cc V6			Ford & Mercury		
Man. Trans. ....	9.2	9.4	302" V8 .....	13.3	13.8
Auto. Trans. ....	9.4	9.4	302" V8 .....		⓪ 14.2
302" V8 .....	14.0	14.6	351" W V8 .....	14.6	15.2
Fairmont & Zephyr			351" W V8 .....		⓪ⓐ 15.6
140" 4-Cyl. ....	8.6	10.2	Continental		
200" 6-Cyl. ....	9.0	9.0	400" V8 .....		17.4
200" 6-Cyl. ....		⓪ 9.3	400" V8 .....		ⓐ 17.9
302" V8 .....	13.9	14.0	Mark V		
Versailles			400" V8 .....	17.3	17.3
302" V8 .....	14.2	14.3	400" V8 .....		ⓐ 17.8
Granada & Monarch					
250" 6-Cyl. ....	ⓐ 10.5	ⓐ 10.6			
302" V8 .....	ⓐ 14.2	ⓐ 14.3			
LTD II, Thunderbird & Cougar					
302" V8 .....	14.3	14.6			

- ⓪ — Police & Taxi.
- ⓐ — Also applies to extra cooling.
- ⓐ — Trailer Towing.

### 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.

#### Thermostat Opening Temperatures (°F)

Application	Starts Open	Fully Open
140" 4-Cyl. ....	188-195	212
2800 cc V6 .....	192-199	226
200" 6-Cyl. ....	188-195	212
250" 6-Cyl. ....	193-200	221
All V8 .....	193-200	221

### PRESSURE CAP

Zephyr and Fairmont models with standard cooling and all Mustang, Capri, Pinto and Bobcats 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.

### 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.

### MAINTENANCE

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

Check coolant condition annually. Drain, clean, flush and refill system if inspection indicates sufficient dirt or rust to impair cooling ability. Ford Motor Company recommends that hoses and clamps be inspected every 50 months or 50,000 miles and that coolant should be replaced every 50,000 miles, or every 3 years whichever occurs first.

## GENERAL MOTORS – BUICK

### 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.

# Engine Cooling Systems

## ENGINE COOLANT CAPACITIES (Cont.)

### GENERAL MOTORS – BUICK (Cont.)

CAPACITY (Qts.)					
Application	Standard	With A/C	Application	Standard	With A/C
Skyhawk			Auto. Trans. ....	④13.4	③13.4
231" V6			231" TC V6		
Fed. Man. Trans. ....	12.5	①12.4	Auto. Trans. ....	⑥13.7	③13.7
Calif. Man. Trans. ....		②12.9	301" V8 (VIN Y) ....	⑨21.0	21.0
Fed. Auto. Trans. ....	12.4	12.2	LeSabre, Estate Wagon & Electra		
With 2.93 Rear Axle ..		③12.1	350" V8 (VIN X) ....	⑩14.6	⑪14.5
Calif. Auto. Trans. ....		②12.8	350" V8 (VIN R) ....	⑫14.6	14.5
Skylark			403" V8 (VIN K) ....	⑬15.7	14.0
231" V6			Riviera		
Man. Trans. ....	13.9	14.0	231" TC V6 .....		⑭14.0
Auto. Trans. ....	④13.7	③13.9	350" V8 (VIN R) .....		⑮14.9
305" V8 .....	⑤15.9	16.2			
350" V8 (VIN L) .....	⑤16.1	16.7			
Century & Regal					
196" & 231" V6					
Man. Trans. ....	13.5	13.5			
196", 231",					
& 231" TC V6					
Auto. Trans. ....	④13.4	③13.4			
231" TC V6					
Auto. Trans. ....	⑥13.7	③⑥13.7			
301" V8 (VIN Y) ....	④⑦17.6				
301" V8 (VIN W) ....	⑦17.6	17.9			
305" V8 .....	⑧15.7	15.6			
350" V8 (VIN L) .....	⑦15.7	16.4			
LeSabre & Estate Wagon					
196", 231",					
& 231" TC V6					

- ① – 12.1, Hvy. Duty  
 ② – 12.7, Hvy. Duty  
 ③ – Hvy. Duty, A/C  
 ④ – Hvy. Duty, No A/C  
 ⑤ – 16.7, Hvy. Duty  
 ⑥ – 14.1, Hvy. Duty  
 ⑦ – 17.9, Hvy. Duty  
 ⑧ – 16.4, Hvy. Duty  
 ⑨ – 21.6, Hvy. Duty  
 ⑩ – 15.2, Hvy. Duty  
 ⑪ – 15.1, Hvy. Duty  
 ⑫ – 15.4, Hvy. Duty  
 ⑬ – 16.6, Hvy. Duty  
 ⑭ – 14.5, Hvy. Duty  
 ⑮ – 15.7, Hvy. Duty

### GENERAL MOTORS – CADILLAC

#### THERMOSTAT

Thermostats should have the following initial opening and fully opened temperatures:

Application	Initially Open	Fully Opened
350" Gasoline .....	175-182° F	202° F
350" Diesel .....	192-199° F	219° F
425" Gasoline .....	192-199° F	219° F

#### PRESSURE CAP

All models use a 15 lb. radiator cap. Test at 13.5-16.5 lbs.

#### CAPACITY (Qts.)

Application	Capacity
Seville	
Gasoline .....	17.2
Diesel .....	20.0
Eldorado	
Gasoline .....	①14.8
Diesel .....	18.5
All Other Cadillac Models	
Gasoline .....	20.8
Diesel .....	23.8

① – 15.5, Hvy. Duty

#### WATER PUMP

**NOTE** – Some water pumps may have a reddish or greenish coolant stain at vent hole below shaft. This is a normal condition and water pump should not be serviced unless it is obviously leaking with the engine running.