

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

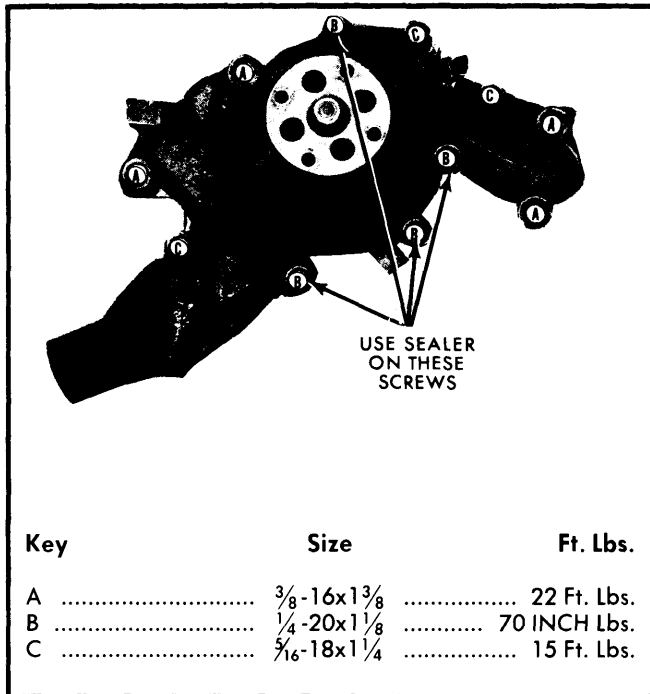
① – 15.5, Hvy. Duty

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.

ENGINE COOLANT CAPACITIES (Cont.)

GENERAL MOTORS – CADILLAC (Cont.)



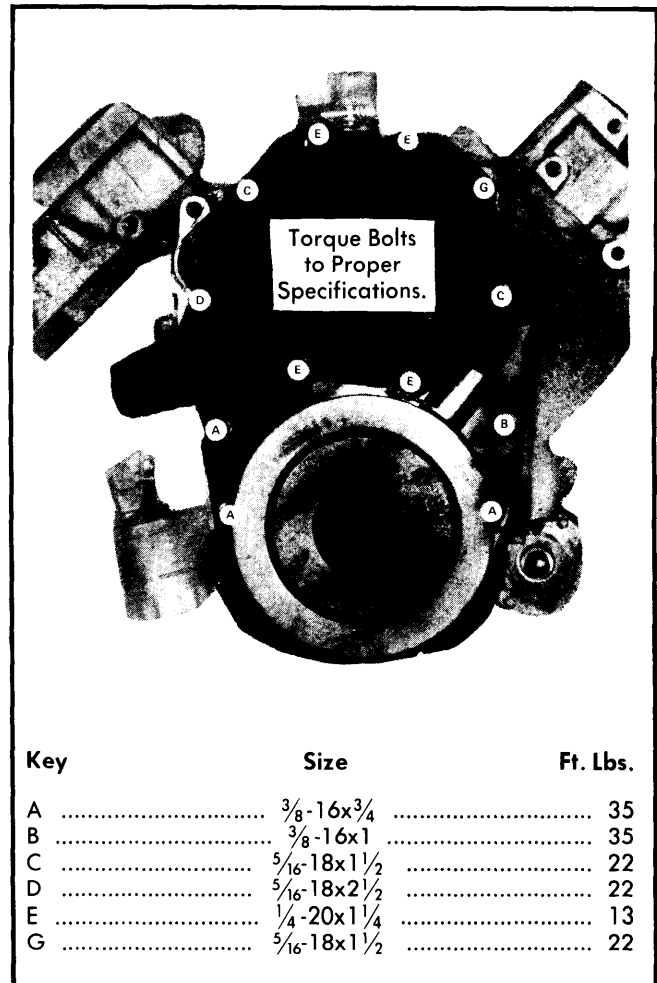
Key	Size	Ft. Lbs.
A	$\frac{3}{8}$ -16x1 $\frac{3}{8}$	22 Ft. Lbs.
B	$\frac{1}{4}$ -20x1 $\frac{1}{8}$	70 INCH Lbs.
C	$\frac{5}{16}$ -18x1 $\frac{1}{4}$	15 Ft. Lbs.

Fig. 7 Water Pump Bolt Location (Exc. Seville)

Overhaul of water pump on all models except Seville is possible only if special tool kit is used. Tool kit and overhaul parts kits are available. Water pump on Seville should not be overhauled if defective. It must be replaced.

MAINTENANCE

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



Key	Size	Ft. Lbs.
A	$\frac{3}{8}$ -16x $\frac{3}{4}$	35
B	$\frac{3}{8}$ -16x1	35
C	$\frac{5}{16}$ -18x1 $\frac{1}{2}$	22
D	$\frac{5}{16}$ -18x2 $\frac{1}{2}$	22
E	$\frac{1}{4}$ -20x1 $\frac{1}{4}$	13
G	$\frac{5}{16}$ -18x1 $\frac{1}{2}$	22

Fig. 8 Water Pump Bolt Location (Seville)

GENERAL MOTORS – CHEVROLET

THERMOSTAT

Thermostat contains a restriction valve actuated by thermostatic element and is designed to open and close at predetermined temperatures. Applications are as follows:

Chevette	190° F
All Others	195° F

PRESSURE CAP

All models use a 15 lb. pressure cap. Test at 14-16 lbs.

WATER PUMP

Water pumps are serviced as an assembly only.

MAINTENANCE

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