

Engine Cooling Systems

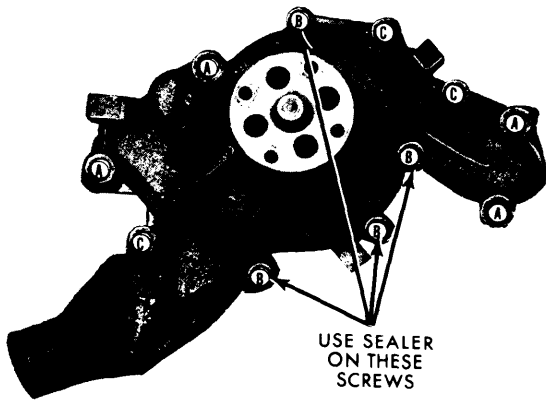
ENGINE COOLANT CAPACITIES (Cont.)

GENERAL MOTORS (Cont.)

CADILLAC (Cont.)

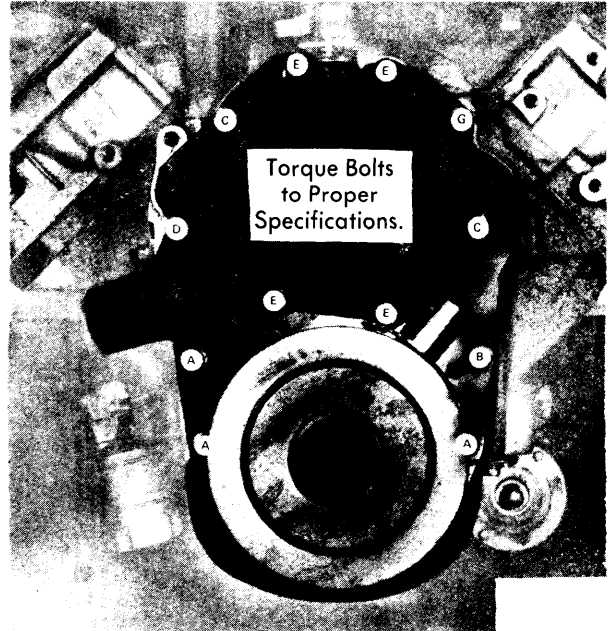
WATER PUMP

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.



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 Locations (All Except Seville)



Key	Size	Ft. Lbs.
A	$\frac{3}{8}$ -16x $\frac{3}{4}$	35 Ft. Lbs.
B	$\frac{3}{8}$ -16x	35 Ft. Lbs.
C	$\frac{5}{16}$ -18x1 $\frac{1}{2}$	22 Ft. Lbs.
D	$\frac{5}{16}$ -18x2 $\frac{1}{2}$	22 Ft. Lbs.
E	$\frac{1}{4}$ 20x1 $\frac{1}{4}$	70 INCH Lbs.
G	$\frac{5}{16}$ -18x1 $\frac{1}{2}$	22 Ft. Lbs.

Fig. 8 Water Pump Attaching Bolt Location (Seville Models)

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.

CHEVROLET

CAPACITY (Qts.)					
Application	Standard	With A/C	Application	Standard	With A/C
Chevette			Camaro		
1.4 & 1.6 Liter	8.5	9.0	250" 6 Cyl.	15.0	16.0
Vega			305" & 350" V8	17.5	18.5
122" & 140" 4 Cyl.	8.0	8.0	Nova		
Monza			250" 6 Cyl.	14.0	15.0
140" 4 Cyl.	8.5	8.5	305" & 350" V8	17.0	18.0
262" & 305" V8	18.5	18.5	Monte Carlo		
Chevelle & El Camino			All	17.5	18.5
All 6 Cyl.	15.0	17.0	Chevrolet		
All V8	17.5	18.5	250" L-6	15.0	16.0
Corvette			305" & 350" V8	18.0	19.9
All	21.0	21.0			

ENGINE COOLANT CAPACITIES (Cont.)

GENERAL MOTORS (Cont.)

CHEVROLET (Cont.)

THERMOSTAT

Thermostats should be checked to ensure that they are fully open 25°F above specified thermostat value or value stamped on thermostat. Thermostat applications are as follows:

Application	Thermostat (°F)
Chevette,Vega,Monza	180
350" Hi Performance	190
All Others	195

PRESSURE VALVE

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.

OLDSMOBILE

CAPACITY (Qts.)

Application	Standard	With A/C
Starfire		
140" 4 Cyl.	8.0	9.2
231" V6	11.7	12.2
305" V8	16.2	16.2
Omega		
231" V6	12.2	12.2
260" V8	16.7	17.2
305" V8	16.0	①16.0
350" L V8	16.0	16.7
350" R V8	15.7	15.7
Cutlass		
231" V6	12.7	12.7
260" V8	17.0	①17.0
350" R V8	15.0	①15.5
403" V8	16.2	②16.5
88		
231" V6	12.2	12.2
260" V8	16.5	②16.5
350" L&G V8	15.7	①15.7
88 & 98		
350" R V8	14.5	①14.5
403" V8	15.7	①15.7
Toronado		
403" V8	17.5	17.5

- ① — With A/C add 1 Qt.
- ② — With Hvy. Duty Cooling or Trailer Tow Pkg. add .5 Qts.

THERMOSTAT

Application	Opens	Fully Opens
140"	180°F	212°F
231"	①195°F	222°F
All Others	195°F	222°F

① — Calif. models open at 180°F.

PRESSURE VALVE

All models use a 15 lb. radiator pressure cap. Test at 14-17 lbs. pressure.

WATER PUMP

Water pump on all models is serviced as an assembly only. Install pump assembly on front cover using new gasket and suitable sealer.

MAINTENANCE

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