

Engine Cooling Systems

ENGINE COOLANT SPECIFICATIONS (Cont.)

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.

CAPACITY (Qts.)

Application	Standard	With A/C	Application	Standard	With A/C
Skyhawk			LeSabre, Electra & Estate Wagon		
231" V6 (VIN A)			231" (VIN A) &		
Man. Trans.	12.2	12.5	252" V6	13.0	13.0
Auto. Trans.	12.2	12.5	231" (VIN 3)	②13.4	13.4
Skylark			301" V8	18.9	18.9
151" 4-Cyl.	9.5	9.8	350" V8 (VIN X)	②14.3	②14.2
173" V6	11.5	11.8	350" V8 (VIN R)	①15.2	14.5
Century & Regal			350" V8 Diesel	18.3	18.0
231" V6 (VIN A)			Riviera		
Man. Trans.	13.4	13.4	231" V6 (VIN 3)	②13.7
Auto. Trans.	①13.3	①13.3	350" V8 (VIN R)	②14.9
231" V6 (VIN 3)	②12.7	②13.8	① – Hvy. Duty		
301" V8	②20.3	21.0	② – Add .3-.5 qts. for Hvy. Duty		
305" V8	②17.6			

GENERAL MOTORS – CADILLAC

THERMOSTAT

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

Application	Starts Open	Fully Open
V6 Engine	195°F
V8 Engines		
350" Gasoline	175-182°F	202°F
350" Diesel	192-199°F	219°F
368" (Carb. & DEFI) ..	192-199°F	219°F

CAPACITY (Qts.)

Application	Capacity
V6 Engine	13.0
V8 Engines	
350" Gasoline	15.2
350" Diesel	18.4
368" Carb.	21.4
368" DEFI	22.4

PRESSURE CAP

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

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.

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 with water only, every 24 months or 30,000 miles.

GENERAL MOTORS – CHEVROLET

THERMOSTAT

Thermostat contains a restriction valve actuated by thermostatic element and is designed to open and close at predetermined temperatures, stamped on thermostat valve.

Chevette	190° F
All Others	195° F

PRESSURE CAP

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

Engine Cooling Systems

ENGINE COOLANT SPECIFICATIONS (Cont.) GENERAL MOTORS – CHEVROLET (Cont.)

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.

CAPACITY (Qts.)					
Application	Standard	With A/C	Application	Standard	With A/C
Chevette			267" V8	21.0	22.0
98" 4-Cyl.	9.0	9.3	305" V8	19.0	20.0
Monza			Impala & Caprice		
151" 4-Cyl.	11.0		229" V6	14.3	15.3
231" V6	12.0		231" V6	11.8	12.8
Citation			267" V8		
151" 4-Cyl.	9.5	9.8	Sedan & Coupe	16.8	17.8
173" V6	11.5	11.8	Station Wagon	①15.5	16.5
Camaro & Berlinetta			305" V8	15.5	16.5
229" V6	14.5	15.5	350" Gasoline	16.3	17.3
267" & 305" V8	15.0	16.0	350" Diesel	18.0	18.3
350" V8	14.0	15.0	Corvette		
Malibu, Malibu Classic,			305" & 350" V8	21.0	21.0
Monte Carlo, El Camino & Caballero					
229" V6	18.5	19.5			
231" V6	15.5	16.5			

① – 16.8, Hvy. Duty

GENERAL MOTORS – OLDSMOBILE

THERMOSTAT

All models use a thermostat that begins to open at 195° F and is fully open by 220° F.

PRESSURE CAP

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.

CAPACITY (Qts.)					
Application	Standard	With A/C	Application	Standard	With A/C
Omega			265" V8	19.0	③19.0
151" 4-Cyl.	9.5	9.8	307" V8	15.5	②15.3
173" V6	11.5	11.8	350" V8 (VIN R)	14.5	④14.5
Starfire			350" V8 Diesel	18.3	18.0
151" 4-Cyl.	11.0	11.5	Toronado		
231" V6	12.0	①12.5	307" V8	16.3	16.3
Cutlass			350" V8 (VIN R)		③15.5
231" V6	13.0	13.0	350" V8 Diesel		18.0
260" V8	16.0	16.5			
305" V8	15.3	②15.3			
350" V8 (VIN R)	15.0	15.0			
350" V8 Diesel	17.3	17.3			
Delta 88, Custom Cruiser & Ninety-Eight					
231" V6	13.0	13.0			

① – 12.3, Trlr. Tow.

② – 16.0, Trlr. Tow.

③ – 19.8, Trlr. Tow.

④ – 15.5, Trlr. Tow.

⑤ – 15.3, Trlr. Tow.