

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 psi pressure cap which should be tested at 14-18 psi.

WATER PUMP

Overhaul of water pump on 265" V8 model is possible only if special tool kit is used. Overhaul part kit is available from manufacturer.

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
2.5L (151") 4-Cyl.	9.5	9.5
2.8L (173") V6	11.5	11.5
3.8L (231") V6		
Riviera	13.5	14.0
All Other Models		
(Exc. Turbo)	13.0	13.0
Turbo	13.5	13.5
4.1L (252") V6	13.0	13.0
4.3L (265") V8	20.0	20.5
5.0L (307") V8		
Riviera	16.5	16.5
All Other Models	19.0	19.0
5.7L (350") V8 Diesel	18.0	18.0

GENERAL MOTORS - CADILLAC

THERMOSTAT

All models use a thermostat that starts to open at 192-199°F, and is fully open at 219°F.

PRESSURE CAP

All models use a 15 psi pressure cap which should be tested at 12-16 psi.

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 368" V8 models is possible only if special tool kit is used. Overhaul part kit is available from manufacturer.

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.

CAPACITY (Qts.)

Application	Capacity
4.1L (252") V6	
All Models (Exc. Eldorado & Seville)	18.2
Eldorado & Seville	13.0
5.7L (350") V8 Diesel	
All Models (Exc. Eldorado & Seville)	23.7
Eldorado & Seville	18.4
6.0L (368") V8	
All Models (Exc. Eldorado & Seville)	21.4
Eldorado & Seville	22.4

GENERAL MOTORS - CHEVROLET

THERMOSTAT

Thermostat contains a restriction valve actuated by a thermostatic element. On Chevette models, thermostat is designed to open and close at 190° F. On all other models, thermostat is designed to open and close at 195° F.

WATER PUMP

Water pumps are serviced as an assembly only.

PRESSURE CAP

All models use a 15 psi pressure cap which should be tested at 14-17 psi.

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 SPECIFICATIONS (Cont.)

GENERAL MOTORS – CHEVROLET (Cont.)

CAPACITY (Qts.)					
Application	Standard	With A/C	Application	Standard	With A/C
1.6L (98") 4-Cyl.	9.0	9.0	Camaro	15.0	15.0
2.5L (151") 4-Cyl.	9.5	9.5	All Other Models	21.0	21.0
2.8L (173") V6	11.5	11.5	5.0L (305") V8		
3.8L (229") V6			Impala & Caprice	15.5	15.5
Impala, Caprice &			Camaro	15.0	15.0
Camaro	14.5	15.5	All Other Models	19.0	19.0
All Other Models	18.5	18.5	5.7 (350") V8		
3.8L (231") V6			Corvette	21.0 [ⓐ]	21.0 [ⓐ]
Impala, Caprice &			All Other Models	16.0	16.0
Camaro	12.0	12.0			
All Other Models	15.5	15.5			
4.4L (267") V8					
Impala & Caprice	16.8 [ⓐ]	16.8 [ⓐ]			

ⓐ – Station Wagon with standard cooling; 15.5 qts.
 ⓑ – With Auto. Trans. and A/C, add 1 qt.

GENERAL MOTORS – OLDSMOBILE

THERMOSTAT

All models use a thermostat that starts to open at 195°F, and is fully open at 222°F.

PRESSURE CAP

All models use a 15 psi pressure cap which should be tested at 14-17 psi.

WATER PUMP

Overhaul of water pump on all V8 models is possible only if special tool kit is used. Overhaul parts kits are available from manufacturer.

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
2.5L (151") 4-Cyl.	9.5	9.5	5.0L (307") V8		
2.8L (173") V6	11.5	11.5	Cutlass	15.0	15.5
3.8L (231") V6	13.0	13.0	88	15.5	15.0
With Tow Package	13.5	13.5	With Tow Package	16.0	16.0
4.1L (252") V6	13.0	13.0	98	16.0	16.0
4.3L (260") V8			Toronado	16.4	16.4
Cutlass	16.0	15.5	5.7L (350") V8 Diesel		
With Tow Package	16.5	16.5	Cutlass	17.4	17.4
88	16.5	16.0 [ⓐ]	All Other Models	18.0	18.0
With Tow Package	17.0	17.0			

ⓐ – With High Capacity radiator, add 1 qt.

GENERAL MOTORS – PONTIAC

THERMOSTAT

NOTE – Several types of thermostats are being used due to different coolant flow patterns. Turbocharged models use a 2-stage thermostat for coolant circulation. Be sure to use correct part number when replacing.

Some altitude models use a 180°F thermostat. All other models use a 195°F thermostat that starts to open at 192-199°F, and is fully open at 222°F.

PRESSURE CAP

All models use a 15 psi pressure cap which should be tested at 14-17 psi.

WATER PUMP

Overhaul of water pump on 265" and 301" V8 models is possible only if special tool kit is used. Overhaul parts kits are available from manufacturer.

MAINTENANCE

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