

# Engine Cooling Systems

OLDSMOBILE		
CAPACITY (in quarts)		
APPLICATION	STANDARD	OPTIONAL
<b>1965</b> V-6 F-85 V8 Jetstar V8 425"	10.8 17 16.5 17.5	11.3 19.3 17 18
<b>1966</b> 250" F-85 & Jetstar V8 All Others	11.8 16.5 17.5	..... 17 18
<b>1967</b> 250" 330", 400" (Exc. Delmont 88) 425"	11.8 17.3 17	..... 17.8 17.5
<b>1968</b> 250" 350" (Exc. Delmont 88, Delta 88, 98) (Delmont 88, Delta 88, 98) 400" 455" (Exc. Toronado) (Toronado)	12 15 16.5 16 17.5 18	13 16 17.5 17 18.5 19
<b>1969</b> 250" 350" (Exc. Delta 88, 98) (Delta 88, 98) 400" 455" (Exc. Toronado) (Toronado)	12 15 16.5 16 17.5 18	13 ① ① 17 ① 18.5
<b>1970</b> 250" 350" (Exc. Delta 88, 98) (Delta 88, 98) 455" (Exc. Delta 88, 98, Toronado) (Delta 88, 98) (Toronado)	12 15 16.5 16.8 17.5 18	..... ① ① ② ① 18.5
<b>1971</b> 250" 350" 455" (Exc. Toronado) (Toronado)	13 16 17 18	..... ③ ③ ③
<b>1972</b> 350" (Exc. Delta 88, 98) (Delta 88, 98) 455" (Exc. Toronado) (Toronado)	15.2 16.2 17 19.5	15.7 16.7 17.5 20
<b>1973</b> 250" Omega 350" Omega 350" Cutlass 455" Cutlass 350" 88 455" 88, 98 455" Toronado	12.5 15.6 16.0 18.0 16.0 17.5 20.0	..... 16.5 21.0 22.0 21.5 22.5 .....

- ① - Add ½ qt. with A/C, add 1 qt. with H.D. Cooling.  
 ② - Add .8 qt. with A/C, add 1 qt. with H.D. Cooling.  
 ③ - Add 1 qt. with A/C, add 2 qts. with H.D. Cooling.

## OLDSMOBILE (Cont.)

### FILL LEVEL

**1965 (F-85)** – Fill to 3/4" (cold) or 1/4" (hot) below top of filler neck.

**1965-73 (Exc. 1965 F-85 & 1971-73 Toronado)** – Fill to "Fill Cold" mark on radiator when system is cold.

**1971-73 Toronado** – Check coolant visually at see through coolant reservoir while engine is at normal operating temperature. Keep coolant level above "Add" mark on reservoir. Add coolant to reservoir, not radiator.

*NOTE* – 1972-73 models may have a coolant recovery system, as it is optional on all models except Toronado. See Toronado fill instructions for these models.

### THERMOSTAT

**1965-67** – All models use a 180° thermostat. Thermostat should start to open at 177-182° and be fully open at 205°.

**1968-73** – All models use a 195° thermostat. Thermostat should start to open at about 195° and be fully open at 212°.

### PRESSURE VALVE

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

### WATER PUMP

Water pumps on all models are serviced as an assembly. When installing pump be sure to use a new gasket. Use gasket sealer on all engines except V6. Lubricate 1/4" and self-tapping bolts with oil. Apply sealer to all 3/8" and all 5/16" bolts. Tighten all bolts to specifications.

Engine	Torque (Ft. Lbs.)
1965 V6.....	6-9
1966-71 6 Cyl. ....	15
1965-67 V8 (1/4" bolts).....	5-8
(3/8" bolts).....	25-35
1968-73 (self-tapping bolts).....	13
(5/16" bolts).....	25

### MAINTENANCE

Inspect, drain, and clean cooling system every 24 months.