

# Engine Cooling Systems

## ENGINE COOLANT CAPACITIES

### AMERICAN MOTORS

#### THERMOSTAT

Thermostat is located in water outlet elbow. Operating range is as follows:

Application	Start Open	Full Open
4-Cyl. ....	189° F .....	216° F .....
6-Cyl. ....	195° F .....	218° F .....
8-Cyl. ....	195° F .....	218° F .....

**NOTE** — Maintain coolant level with a mixture of ethylene glycol based anti-freeze and low mineral content water.

#### PRESSURE CAP

All American Motors models use a 14 lb. pressure cap. Test at 12-15 psi for 30 seconds or more.

#### WATER PUMP

Water pump impeller is pressed on the rear of pump shaft and bearing assembly. Pump is serviced as an assembly only.

#### CAPACITY (Qts.)

Application	Standard	With A/C or Hvy. Duty Cooling
Spirit		
121" 4-Cyl. ....	6.5 .....	6.5 .....
AMX		
232" & 258" 6-Cyl. ....	11.0 .....	14.0 .....
Concord		
304" V8 .....	18.0 .....	18.0 .....
Pacer		
258" 6-Cyl. ....	14.0 .....	14.0 .....
304" V8 .....	18.0 .....	18.0 .....

#### MAINTENANCE

At 25,000 miles or 25 months, change engine coolant. Thereafter, change coolant every 12 months, at the start of winter.

### CHRYSLER CORP.

#### THERMOSTAT

Thermostat is a wax pellet type with an opening temperature of 195°F. Bring engine to normal operating temperature and check coolant temperature. It should be stable at 187-195°F. Replace thermostat if it fails to fall within operating range.

#### PRESSURE CAP

All models use a 16 lb. pressure cap which should be tested at 14-17 lbs. Cap is also equipped with a vent valve in center of cap that allows a small flow through the cap when temperature is below boiling, but closes when boiling point is reached. Valve also opens when coolant is cooling and contracting, permitting coolant to return to radiator from coolant reserve tank.

**CAUTION** — Warning words "DO NOT OPEN HOT" printed on radiator pressure cap are a safety precaution and should be heeded whenever engine is warm.

#### WATER PUMP

Pump is serviced as an assembly only. When replacing water pump do not install a standard pump on any air conditioned vehicle or vice versa. It is possible to replace pump without discharging air conditioning system. When replacing a water pump because of a bearing or shaft failure, carefully inspect the fan for cracks, loose blades or rivets caused by excessive vibration. If any of these problems are found, fan should also be replaced.

#### CAPACITY (Qts.)

Application	Standard	With A/C
Horizon & Omni		
105" 4-Cyl. ....	6.0 .....	6.5 .....
Aspen, Diplomat, Volare & LeBaron		
225" 6-Cyl. ....	11.5 .....	⓪12.5 .....
318" V8 .....	15.0 .....	⓪16.5 .....
360" V8 .....	.....	⓪15.0 .....
St. Regis, Newport, & New Yorker		
225" 6-Cyl. ....	11.5 .....	⓪14.5 .....
Magnum, Cordoba, St. Regis, Newport, & New Yorker		
318" V8 .....	15.0 .....	⓪17.5 .....
360" V8 .....	.....	⓪16.0 .....

⓪ — Also applies to Police & Taxis.

#### MAINTENANCE

After 24 months or 30,000 miles of operation and every 12 months or 15,000 miles thereafter, inspect, drain, clean and back-flush entire cooling system.