

Engine Cooling Systems

PONTIAC		
CAPACITY (in quarts)		
APPLICATION	STANDARD	OPTIONAL
1965 6 Cyl. V8 (Tempest) (Pontiac)	11.3 20.5 19.5
1966 6 Cyl. V8 (Tempest) (Pontiac)	13.5 20.5 19.5	14.5 22 21
1967 6 Cyl. (Firebird) (Tempest) V8 (Firebird 326" Eng.) (Firebird 400" Eng.) (Tempest) (Pontiac)	12.1 20.5 17.6 16.8 20.5 20	15.1 21.5 18.9 18.1 22 21
1968 6 Cyl. 350" 400" (Exc. Grand Prix) 428" (Exc. Grand Prix) 400", 428" (Grand Prix)	12 18.5 18 17 18.5	12 20 19.5 17 18.5
1969 6 Cyl. 350" (Tempest) (Firebird) 400" (Tempest) (Firebird) (Pontiac) (Grand Prix) 428" (Pontiac) (Grand Prix)	12 20 19.5 18.3 18.5 18 18.8 17.3 17.5	12.3 21.3 20.3 19.8 18.8 18 21 17.3 17.5
1970 250" 350" 400" (Tempest) (Firebird) (Pontiac) (Grand Prix) 455"	11.3 19.5 18.6 18.5 18 18.6 17.2	13 20.2 19.4 18.8 18 18.6 17.2
1971-72 250" 307" 350" (Exc. Firebird) (Firebird) 400" (Exc. Firebird, Grand Prix) (Firebird, Grand Prix) 455"	11.3 15.5 20.2 19.5 18.6 18.6 18	13 16.5 21.4 20.5 19.8 19.2 ① 19
1973 250" (Exc. LeMans) (LeMans) 350" (Venture) (Firebird) (All Others) 400" (Firebird) (LeMans, Grand Am & Grand Prix) (Catalina, Bonneville & Grand Ville) 455" (All Models)	12.0 13.2 19.0 22.3 21.9 22.3 23.0 22.0 21.0 22.7 23.3 23.5 24.0 24.0 22.0

① - Standard Bonneville & Grand Ville - 18.4 qts.

PONTIAC (Cont.)

FILL LEVEL

On all models, fill radiator to 1" (Hot) or 3" (Cold) below filler neck.

THERMOSTAT

Thermostat applications and testing are as follows:

Application	① Initial Open	① Fully Open
1965	Approx. 180	
1966-70	183-197	222
1971-72	188-202	222
1973.....	192-198	222

① – All temperatures are in °F.

PRESSURE VALVE

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

WATER PUMP

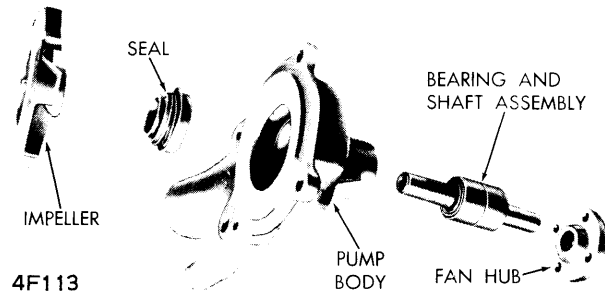
All Models (Exc. 1965 215") – Pump is serviced as an assembly only. *NOTE* – On OHC 6 Cyl. engines it is not necessary to remove timing belt to remove water pump.

1965 215" – See illustration for arrangement of parts. Use suitable drivers and supports when overhauling water pump.

Mark position of hub on shaft before disassembling pump so hub can be reinstalled in same position. Observe the following when reassembling pump: Seal outer flange must bottom against pump body. Press hub on shaft to same mark made at disassembly or use special hub locating gauge J-9583. Press impeller on shaft so there is .010-.035" clearance between impeller vanes and pump body.

MAINTENANCE

On all models, drain, clean, inspect and flush cooling system every 24 months.



1965 215" ENGINE WATER PUMP & 1970-73 250" ENGINE WATER PUMP