



WP319 GM LS1 Bolt on series High Flow Pump (5.7 5.3 6.0)

In The Box

- 1 Electric Water Pump part number WP319
- 1 Pair (2) AC Delco water pump gaskets
- 1 Outlet fitting (attached to the pump)
- 1 180 degree thermostat
- 1 Wiring harness w/ 20 amp fuse
- 2 Heater hose fittings
- 2 ¼ -20 X ¾ cap screws and washers
- 1 Wire clip (very important for Corvette)
- 2 Contingency decals

The inlet fitting will be modified and re-used from your original pump

To Do the Job You'll Need

- tie wraps
- Scraper or wire brush
- Band clamp removal tool
- Brake cleaner
- Thread sealant; RTV silicone



Removing the stock pump

Drain coolant; remove the air box and upper radiator support. Remove the upper radiator hoses and heater hoses. Remove the throttle body. Remove the serpentine belt, and remove the belt tensioner. Remove the thermostat inlet. Remove the six pump to block bolts. Clean all mating surfaces.

Mounting Pump

The Meziere water pump seals to the block using the two GM gaskets supplied. Bolt pump in place using the 6 OEM bolts. **Run all six bolts up snug before tightening to 22 ft. / lbs.** Care should be taken to not trap the air conditioning wiring harness behind the pump. The new 180 degree thermostat is pre-installed at our factory. Should you want to remove the thermostat, remove the top radiator hose and un-screw the outlet fitting. The thermostat will fall out, please re-lubricate the "o" ring prior to re-installing the outlet fitting. Install the belt tensioner. Before you install the inlet (lower hose) you must remove (remove or cut out the old (OEM) thermostat) from the inlet housing. Using a channel lock pliers; push down and turn to remove the old thermostat. Using the supplied bolts, install the water inlet. Hook up the heater hose fittings supplied with the pump make sure to line up the proper sizes. A small amount of lubricant should be applied to the O-rings. Install the upper radiator hose. If the car is not equipped with a power steering cooler flip the hose to gain extra clearance in front of the idler pulley. Cars with power steering coolers: Extra care must be taken to make sure the upper hose is held away from the idler pulley. **Install the throttle body carefully checking to make sure the throttle linkage clears the top of the pump body.** (Some 2000 and up models may require minor modification to the bottom of the linkage) A light file can perform this in minutes. Once you have checked your throttle by hand, install the cable linkage(s). Install the upper radiator support and the air box. Reinstall the serpentine belt.

Remember to check the upper radiator hose and throttle body linkage before starting the car. Engine Damage could occur if the placement of these parts is not correct. Use the tie wraps to hold the hose away from the idler pulley if necessary. Check to make sure the throttle blades open close freely and completely.

Wiring

The black wire should be routed to ground. The blue wire should be routed to an ignition hot source. Both of these can be found on the left inner fender well. Use of a relay (Meziere # WIK346) is recommended these parts can be purchased through Meziere or many other part outlets.

Keep wires away from the pulley.

Running

Fill the cooling system. Turn on the pump. Top off coolant level. Recheck level after one heat cycle.
DO NOT RUN THIS PUMP DRY for more than a few seconds.

Inlet

The OEM inlet comes with an O-ring. Caution should be taken to keep this O-ring intact. Use the Supplied ¼-20 x ¾ Bolts for Installation.

Thank you for purchasing our product. Feel free to contact us if we can be of further assistance and enjoy your pump.

WARNING: NOT USING THE FUSE WILL VOID YOUR WARRANTY.

220 S. Hale Ave. ~ Escondido, CA 92029 ~ (760) 746-3273 ~ FAX 746-8469