

### MOUNTING THE THERMOSTAT HOUSING FITTINGS: (See fig. 1)

- 1) Mount the thermostat housing (not included with this kit) to the rear outlet of the manifold using a 1/2" hex nipple. The nipple should be installed in the "Inlet" port on the thermostat housing, and it's preferable to orient the thermostat housing with the "By-pass" port facing aft.
- 2) Attach the male end of a 1/2" branch "T" fitting to the "By-pass" port of the thermostat housing. Arrange the female outlets of the "T" so that one of them faces toward the inlet of the raw water pump. The other female outlet is usually used to accommodate a temperature sending unit.
- 3) Install a 1/2" by 3/8" reducer bushing and a 3/8" by 1/2" hose barb in the end of the branch "T" that faces in the direction of the water pump.
- 4) The "Outlet" of the thermostat housing is led to the cooling water inlet on the exhaust system using the 90 degree 1/2" hose barb.

### INSTALLING THE FITTINGS ON WATER PUMP: (See figs. 2 and 3)

- 1) Install the normal fittings between the outlet of the pump and the inlet of the water jacket side plate (these fittings are not supplied in the MMI kit).
- 2) Install the male end of a 3/8" bar stock running "T" fitting into the inlet side of the pump.
- 3) Install a 3/8" hex-nipple, the small knob-type ball valve, a 45 degree street el, and a 3/8" MPT by 1/2" hose barb, all inline and extending upward from running "T" in the inlet of the pump.
- 4) Attach a 1/2" hose between the 1/2" hose barb in (3) above, and the 1/2" hose barb leading from the "By-pass" of the thermostat housing.
- 5) Install a 3/8" MPT by 5/8" hose barb into the remaining outlet of the running "T" in the inlet of the raw water pump, and attach a hose from the through-hull fitting to this 5/8" hose barb on the running "T".

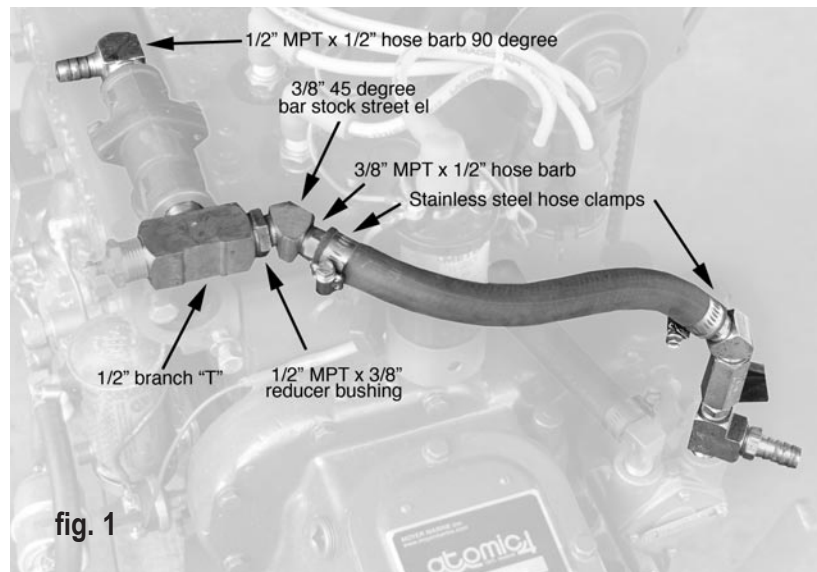


fig. 1

**NOTE:** If the hose size leading from the raw water through-hull is different than 5/8", we recommend adjusting the fitting on the through-hull to accommodate 5/8" hose. Inlet hose of 5/8" diameter should be sufficient for distances up to 6 feet.

## INITIAL STARTUP

On initial startup, close the ball valve on the inlet of the water pump (See fig 3) until all air is purged from the cooling system (usually 30 to 45 seconds). After all air is purged, the ball valve should be left open for normal operation.

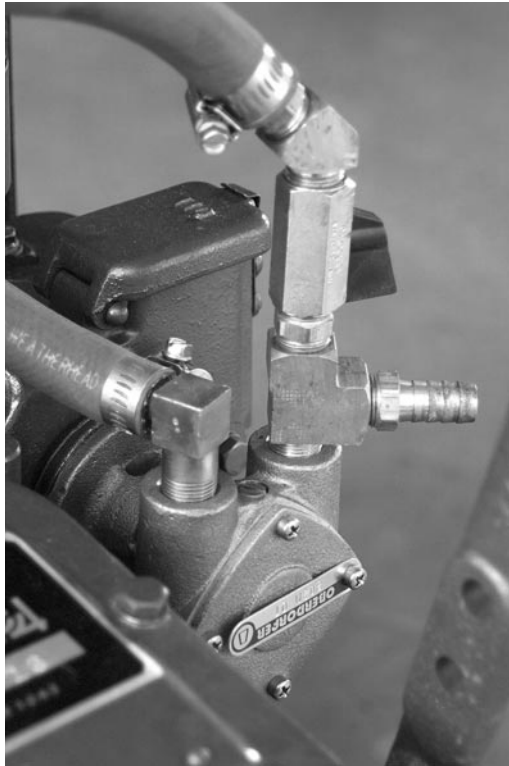


fig. 2

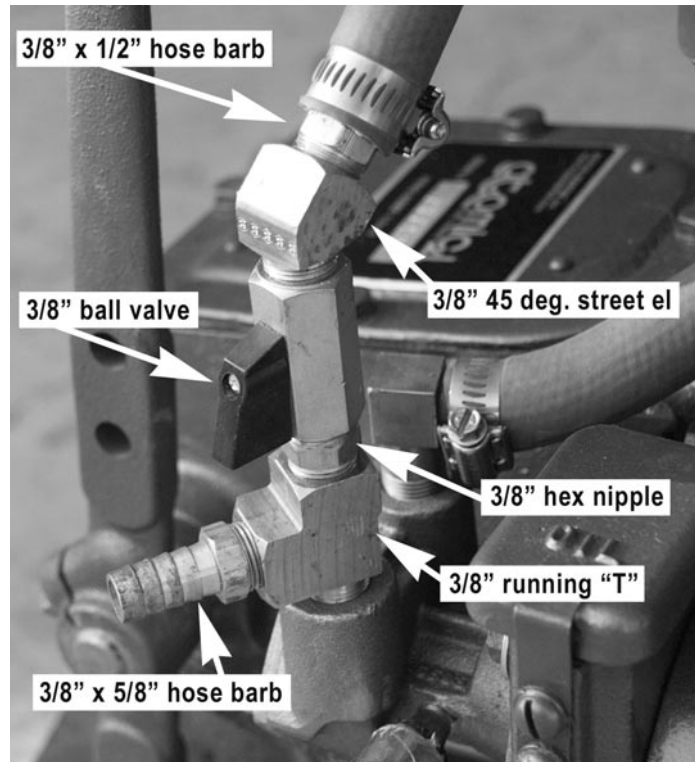


fig. 3

## BILL OF MATERIALS

### Fittings installed into the inlet of the water pump:

- 1) One 3/8" running "T" fitting. The branches of these fittings have one female and one male outlet, and the stem is a female outlet.
- 2) One 3/8" hex nipple, or 3/8" close nipple.
- 3) One small "knob-type" 3/8" female by female ball valve.
- 4) One 3/8" 45 degree bar stock street el.
- 5) One 3/8" MPT by 5/8" hose barb.
- 6) One 3/8" MPT by 1/2" hose barb - straight.
- 7) One stainless steel hose clamp

### Fittings for installing the thermostat on the rear of the manifold:

- 6) One 1/2" hex nipple, or 1/2" close nipple.
- 7) One 1/2" "branch T". These are "T" fittings with a male end on the stem of the "T". The other two ends (the "branches") are female.
- 8) One 1/2" MPT by 1/2" hose barb - 90 degree.
- 9) One 1/2" MPT by 3/8" reducer bushing.
- 10) One 3/8" MPT by 1/2" hose barb - straight.
- 11) One 3/8" 45 degree bar stock street el.
- 12) One stainless steel hose clamp
- 13) 2 feet 1/2" cooling hose