

INSTRUCTIONS FOR INSTALLING AND OPERATING

CAUTION

Do not drain engine coolant or cut any hoses until you determine where best to locate the tank heater and what mounting option you are going to use.

TANK HEATER INSTALLATION PROCEDURES

The tank heater requires two connections to the engine coolant system. The heater must be mounted in a vertical position with the coolant flow arrow pointed up. Locate the coolant drain plug in the block. If there is no drain plug, use the lower radiator hose connector to supply the coolant to the inlet of the heater. Now that you have determined where you are going to locate the heater and the mounting options, the following steps should be followed to ensure proper installation.

Drain and clean the cooling system. Mount the heater vertically with the coolant flow arrow pointed up. Using the mounting bracket provided with the heater, position the heater below the bottom of the engine block. Be sure there is a gravity flow of coolant to the heater.

If you are using the coolant drain plug in the block for your cold water inlet, be sure to clean the hole using a small probe. Use a $\frac{5}{8}$ " diameter heater hose for connecting heater inlet line and outlet to engine. Do not loop or kink hoses or route outlet hose above engine block connection.

Refill the engine with heater outlet line disconnected at the engine until outlet line is full of coolant. This eliminates airlocks in the heater and hoses. Connect outlet line to engine and finish filling engine. Do not use more than 60% concentration of anti-freeze.

TEST THE HEATER INSTALLATION

Route the cord to any convenient point and tie cord down to prevent any damage or strain. Keep cord away from hot surfaces and moving objects.

Run the engine for 30 minutes to open engine thermostat. Check coolant and fill to proper level and check for leaks. Shut off engine and let it cool.

When the engine is cool, plug in the engine heater.

Feel the outlet hose at the engine connections. It should get hot.

Note: If the tank is hot and the top of the outlet is not hot, unplug heater, disconnect and bleed the outlet line at the engine.

Refill the coolant and test again.

**Do not run the engine with the engine heater plugged in.
Heaters on stand-by or remote engines require an automatic
shut-off device.**