

## INSTALLATION INSTRUCTIONS IMMERSION BOLT ON PLATE HEATER

1. Drain the cooling system, flush radiator and block.
2. Remove the existing plate. Keep the bolts and lock washers.
3. Clean the gasket-mounting surface on the engine. **CAUTION:** Do not nick or scar the mounting surface on the engine.
4. Apply gasket sealant on the heater plate and engine-mounting surface.
5. Place the gasket on the heater plate. Mount the heater on the engine with the original bolts and lock washers tightening securely.
6. The element is formed to fit the water passage without touching the walls. If there is contact, the element can be slightly bent to eliminate contact.
7. Align cord and element pins on the heater. Press cord into heater socket, tighten aluminum nut securely by hand. Route the cord to any convenient point and tie cord down. Keep cord away from hot surfaces and moving parts.
8. Refill the coolant system. Check manufacturer's instruction on mixture of antifreeze. Do not use more than 60% anti-freeze. Use of non distilled water could result in lime or calcium build up on elements and cause premature burn out of heater. Run engine until internal thermostat opens and continue running for 20 minutes to eliminate air pockets. **CHECK FOR LEAKS!**
9. Plug heater into power supply and test for proper operation. The block near the heater should get hot.

### WARNING

**Do Not** plug in heater if heating element is not immersed in coolant. If not immersed, element sheath may burst and could result in personal injury.

The heating element **Should Not** be energized while starting the engine.

An oil pressure switch for automatic cut-off on stand by equipment may be required.

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