

**INSTALLATION  
INSTRUCTIONS**

**HINO J SERIES**



**WARNING**

DO NOT plug in heater if element is not immersed in coolant. If not immersed, element sheath may burst and could result in personal injury.



**CAUTION**

USE a 50/50 solution of ethylene glycol antifreeze and water for optimum heater performance.  
DO NOT use more than 65% concentration of antifreeze, as a shortened heater life will result.  
DO NOT use heater in coolant system containing any form of stop-leak additive, as a shortened heater life will result.

**HEATER INSTALLATION PROCEDURE**

1. Drain cooling system. Flush system if necessary.
2. Remove core plug on right front side of engine.
3. Clean surface thoroughly with an approved cleaning fluid. Remove any burrs or sharp edges on inner edge of core hole with file or grinder. Burnish core hole surface with sandpaper or steel wool. Remove paint on inner edge.
4. Apply a coating of grease to the heater O-ring and machined surface of core hole to facilitate installation and prevent O-ring damage.
5. Install heater into core hole with element pointing at 9 o'clock. Move heater to left (9:00) to help insert channel in hole. Press heater into hole with arrow UP, which positions the cord connection at about the 4-5 o'clock position.
6. Tighten bolt to 15-20-inch pounds torque (5/32 internal hex). Do not overtighten. If excessive torque is used, bolt thread will strip, though clamping lock is maintained.
7. Insert power cord connector into socket, taking care to align pins with sockets of connector on cord. Press plug firmly into socket. Tighten relief nut securely by hand.



**NOTE**

Allow slack for engine vibration and protect cord from excessive heat and from possible chafing or mechanical damage.



**CAUTION**

Fill cooling system with good grade permanent antifreeze solution and operate engine until all trapped air is removed before turning power on. If any stop-leak additives have been added to coolant, fill system with new antifreeze mixture.



**IMPORTANT**

Do not start engine with heater plugged in. Turbulence and air bubbles can cause hot spots on heating element and can result in element failure.

Recommended wire gauges for long-length power supply cords (use only three-wire grounded cords):

6-50 ft .....	16 gauge
50-100 ft .....	14 gauge
100-150 ft .....	12 gauge

**WARRANTY**

The Phillips & Temro Industries warranty statement is located on the website at [phillipsandtemro.com/terms](http://phillipsandtemro.com/terms).