

**INSTALLATION
INSTRUCTIONS****CATERPILLAR
3116, 3114, 3126, 6.6L, 4.4L****CAUTION**

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.

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.

HEATER INSTALLATION PROCEDURE

1. Drain engine coolant. Flush system if necessary.
2. Remove core plug on **right side, center** of engine.
3. Clean core hole surface thoroughly. Remove any burrs, paint, or sharp edges on diameter of core hole. Burnish core hold surface with sandpaper or steel wool.
4. Apply a coating of grease to the heater O-ring to ease installation and prevent damage to O-ring.
5. Install heater into core hole with element pointing **UP**. Position the locking channel horizontally during installation.
6. Push heater tight against block. Tighten bolt to 20-25 inch pounds torque. DO NOT overtighten.
7. Insert power cord connector firmly into socket, taking care to align pins with sockets of connector on cord. Tighten strain relief nut securely by hand.

**NOTE**

Step #8 applies to 3114 & 3116 only.

8. Route cord to outside, securing where necessary to allow slack for engine vibration and ensure that cord does not touch engine, hot pipes, or any moving parts. **Connect only to properly grounded 120-Volt AC outlet.**
9. Refill cooling system with good grade permanent antifreeze solution. See CAUTION note above.

**CAUTION**

Before applying power to heater, remove all trapped air by operating engine for 5 -10 minutes after thermostat opens (normal operating temperature).

WARRANTY

The Phillips & Temro Industries warranty statement is located on the website at phillipsandtemro.com/terms.