

**INSTALLATION
INSTRUCTIONS**

CAT C13 AND C15 ACERT 2007 & NEWER



WARNING

PERSONAL INJURY. Never operate heater if element is not immersed in coolant. Element sheath could burst and cause personal injury.
HEATER DAMAGE. Never run engine while heater is in operation. Shortened heater life will result.
HEATER DAMAGE. DO NOT use stop leak additives or improper coolant mixtures. Shortened heater life will result.

INSTALLATION PROCEDURE

1. Drain engine coolant. Flush system if necessary.
2. Remove the 1 3/16" plug located in the oil cooler on the right side of the engine (see Figures 1 and 2).
3. Install heater assembly and tighten securely. Contact dealer for torque recommendation.
4. 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.
5. 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 a GFCI protected 120-Volt AC outlet. If an extension cord is used, it must be the three-wire grounded type.
6. Refill cooling system with coolant mixture. Use a standard 50/50 mixture of coolant and water or standard pre-mixed coolant. Do not use more than 60% concentration of coolant as it will reduce the heater life.
7. Run engine up to operating temperature and check for leaks. Let engine run for 5-10 minutes after thermostat opens to ensure all air is bled from system.



CAUTION

HEATER DAMAGE. Do not operate heater until all air is bled from system. Shortened heater life will result.



NOTE

Please respect the environment. All products, packaging and engine fluids should be collected and recycled or disposed of in accordance with local regulations.

WARRANTY

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

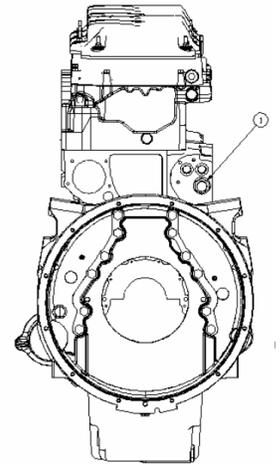


Figure 1 - C13

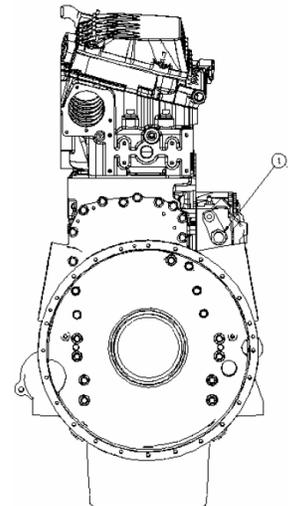


Figure 2 - C15