

INSTALLATION INSTRUCTIONS

VOLVO D16 ENGINES

WARNING



- PERSONAL INJURY. **NEVER OPERATE HEATER IF ELEMENT IS NOT IMMERSSED 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.

HEATER INSTALLATION PROCEDURE

1. Drain engine coolant. Flush system if necessary.
2. Remove core plug on **right side, near the front** of engine, behind the cab heater pipe (see pictures).
3. Clean core hole surface thoroughly. Remove any burrs, paint or sharp edges on diameter of core hole. Burnish core hole 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. Grease or lubricant must not be petroleum-based, use a water-based or synthetic lubricant.
5. Install heater into core hole with element pointing towards the front of the engine.
6. Install heater assembly and tighten bolt to 25 Nm (18.4 ft-lbs) torque.



NOTE

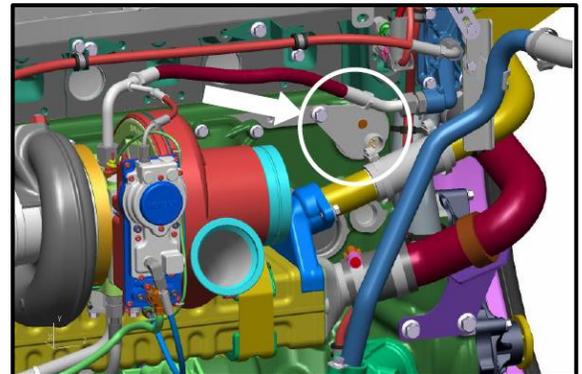
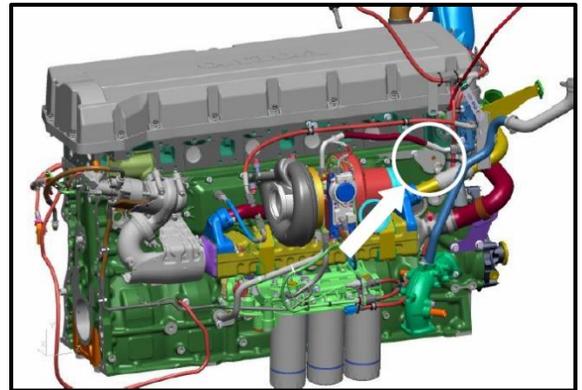
Bolt not provided in kit, use an M10 x 1.5 x 20mm grade 10.9 Hex Flange Bolt to mount the heater.

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.
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 a GFCI protected 120 Volt AC outlet. If an extension cord is used, it must be the three-wire grounded type.
9. Refill cooling system with coolant mixture. Use a standard 50/50 mixture of coolant and water. Do not use more than 60% concentration of coolant as it will reduce the heater life.
10. 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.



WARRANTY

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