

INSTALLATION INSTRUCTIONS

Volvo D13 Engines



WARNING

- PERSONAL INJURY. NEVER OPERATE HEATER IF ELEMENT IS NOT IMMERSSED IN COOLANT. ELEMENT SHEATH COULD BURST AND CAUSE PERSONAL INJURY.



CAUTION

- 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.

1. Drain engine coolant. Flush system if necessary.
2. Remove access plate in the pipe on **right side, near the front** of engine (see pictures on the back of this sheet).
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. Re-use existing o-ring or contact a Volvo dealer if a replacement o-ring is required.
5. Install heater into core hole with element pointing towards the lower rear of the engine.
6. Install heater assembly and tighten bolts to 10 Nm (7.4 ft-lbs) torque. Note: bolt not provided in kit, use an M6 x 1.0 x 16mm grade 8.8 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.



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- HEATER DAMAGE. DO NOT OPERATE HEATER UNTIL ALL AIR IS BLED FROM SYSTEM. SHORTENED HEATER LIFE WILL RESULT.

