

**INSTALLATION  
INSTRUCTIONS**

**MACK ASET, E7 & E-TECH  
ENGINE HEATER**



**WARNING**

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

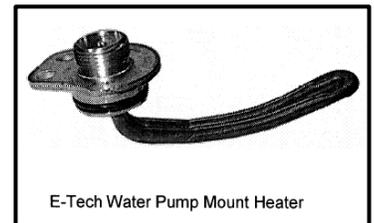
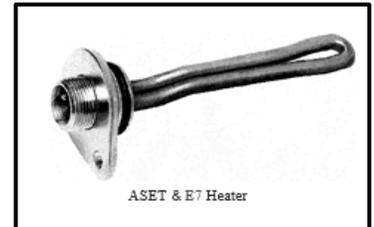


**CAUTION**

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

**HEATER INSTALLATION PROCEDURE**

1. Drain engine coolant.
2. **ASET, E7 & E-Tech in models CH, CL, CX:** Remove 1.38" diameter core plug located on the right front face or right rear race of engine (end of block).  
**E-Tech (water pump mount) in models DM, DMM, LE, MR, RB, RDG, RD8:** Remove 1.38" diameter core plug located on the right front face of water pump casting.
3. Clean core hole surface thoroughly. Remove any burrs or sharp edges on inner edge of core hole. The hardened cup plug sealant must also be removed.
4. Apply coating of non-petroleum lubricant to the heater O-ring to ease installation and prevent O-ring damage.
5. Install heater into core hole. Align mounting hole in plate with threaded hole in engine block or water pump. Press heater squarely into core hole.
6. Install and tighten hex head bolt and lock washer (thread size M8 x 1.25 metric).
7. Install (and tighten) power cord connector firmly into socket, taking care to align pins with sockets of connector on the 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 properly grounded 120-Volt AC outlet. If an extension cord is used, it must be the three-wire grounded type.**
9. Fill cooling system completely with good grade permanent antifreeze solution. See CAUTION note above.



**CAUTION**

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

**WARRANTY**

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