

**INSTALLATION
INSTRUCTIONS**

NISSAN DIESEL ENGINES FE6, FE6T, & FE6TA

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 cooling system. Flush system if necessary.
2. Remove front or second core plug from rear-on right side of engine.
3. Clean surface thoroughly with an approved cleaning fluid. Remove any burrs or sharp edges on inner edge of core hole with file or grinder. Burnish core hole surface with sandpaper or steel wool. Remove paint on inner edge.
4. Apply a coating of grease to the heater O-ring and machined surface of core hole (to facilitate installation and prevent O-ring damage).
5. Install heater into core hole with element at about the 5 o'clock position. Situate the channel horizontally during installation.
6. Tighten bolt to 20-25 inch pounds torque. Do not overtighten.
7. Insert power cord connector into socket, taking care to align pins with sockets of connector on cord. Press plug firmly into socket. Tighten 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 properly grounded 120 Volt AC outlet.** If an extension cord is used, it must be the three-wire grounded type.
9. Fill cooling system with good grade permanent antifreeze solution.



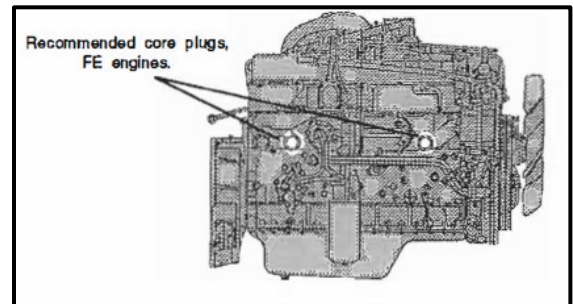
CAUTION

Operate engine until all trapped air is removed before turning power to heater on. Do not start engine with heater plugged in. Turbulence and air bubbles can cause hot spots on heating element and can result in element failure.

Recommended wire gauges for long-length power supply cords

Use only three-wire grounded extension cords. 1000- Watt, 120-Volt heater, current draw: 8.3 Amps.

Cord Length (ft)	Recommended Wire Gauge
6 - 50	16
50 - 100	14
100 - 150	12



RECOMMENDED WEATHERPROOF RECEPTACLE LOCATION FOR UD TRUCKS

1. The recommended mounting location for the weatherproof housing assembly is in the left-hand side (driver's) side of the front bumper. Visibility and ease of access should be considered when choosing another location. A good location can help the operator prevent driving away with the extension cord still attached.
2. Insert power cord connector firmly into socket, taking care to align pins with sockets of connector on cord. Route cord to outside, securing where necessary to allow slack for engine vibration and ensure that cord does not touch engine, hot pipes, or moving parts. **Connect only to 120Volt A.C. properly grounded outlet. If an extension cord is used, be sure it is the three-wire grounded type designed for outdoor use.**
3. Install cord plug into receptacle per instructions on receptacle instruction sheet.

WARRANTY

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