

**INSTALLATION
INSTRUCTIONS**

HEATER FOR NISSAN NE-6 ENGINE



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.
DO NOT use heater in coolant system containing any form of stop-leak additive.
DO NOT use heater in coolant system containing anything other than the recommended mixture of ethylene glycol and water, (i.e: 60-40 max).

HEATER INSTALLATION PROCEDURE

1. Drain cooling system. Flush system if necessary.
2. Remove core plug on left rear 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 sand paper 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 pointing up. Position the channel horizontally during installation. After heater is installed, the channel should move freely in and out about 1/2".
6. Tighten bolt to 15-20 inch pounds torque (5/32 internal hex). Do not overtighten. If excessive torque is used, bolt threads will strip, but clamping lock is maintained.
7. Insert power cord connector into socket being careful to align pins with sockets of connector on cord. Press plug firmly into socket. Tighten relief nut securely by hand.
8. Allow slack for engine vibration and protect cord from excessive heat and also from possible chafing or mechanical damage.



CAUTION

Fill cooling system with good grade permanent antifreeze solution and operate engine until all trapped air is removed before turning power on. If any stop leak additives have been added to coolant antifreeze, fill system with new mixture.



NOTE

For optimum heater performance use a 50-50 solution of water and ethylene glycol.



IMPORTANT

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 current used, 8.3 amps.

| CORD LENGTH (FT) | RECOMMENDED WIRE GAUGE |
|------------------|------------------------|
| 6 - 50 | 16 |
| 50 - 100 | 14 |
| 100 - 150 | 12 |

WARRANTY

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