

**INSTALLATION
INSTRUCTIONS**

NAVISTAR® FROST PLUG HEATER



WARNING

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

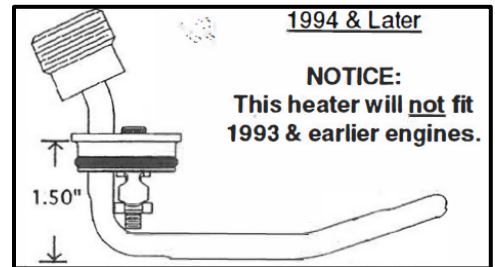
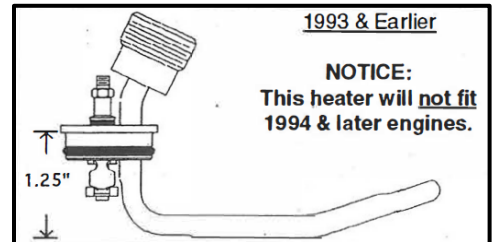


CAUTION

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

HEATER INSTALLATION PROCEDURE

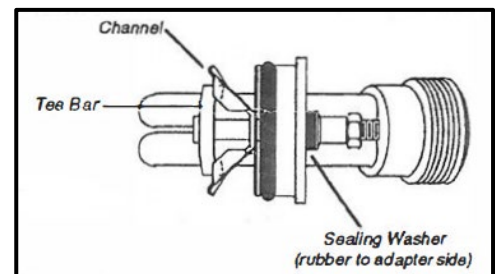
1. Drain cooling system. Flush system, if necessary. Remove core plug, as indicated in chart below.
2. Clean core hole surface thoroughly. Remove any burrs, compound, or paint. Burnish core hole surface with sandpaper or steel wool.
3. Apply a coating of grease to the heater O-ring and core hole surface to ease installation and prevent O-ring damage.
4. Install heater into core hole with element pointing in direction shown in chart. To assist in difficult installations, the channel may be closed to a smaller width. With bolt assembly loose, lightly squeeze channel sides together.



CAUTION

Before installing heater, check to make sure tee bar is located in channel groove.

5. Tighten hex nut to 25-inch pounds torque -- the channel opens to lock against the inside of block wall.
6. Insert power cord connector into socket, taking care to align pins with sockets of connector on cord. Press plug firmly into socket. Tighten strain relief nut securely by hand. Route cord outside, securing where necessary to ensure that cord does not touch engine, hot pipes, or moving parts.
7. Refill cooling system with good grade permanent anti-freeze solution. See CAUTION note above.



CAUTION

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

8. Connect only to 120-Volt AC grounded outlet. If an extension cord is used, it must be the three-wire grounded type.

ENGINE MAKE & MODEL	FROST PLUG LOCATION	ELEMENT DIRECTION
Navistar/IH D312, D414, DT414, D436, D360 (Prior to 1988), DT436, DT466 (Prior to 1994)	Left side 3rd or 4th from rear	1 o'clock
Navistar 1988 - 1993: DT360, DTA360	Left side 3rd or 4th from rear	1 o'clock
Navistar 1994 & newer: DT408, DT466, 530	Left side, protruding boss behind injection pump	Up

WARRANTY

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