

INSTALLATION INSTRUCTIONS

Navistar® Frost Plug Heater



WARNING

DO NOT PLUG IN HEATER IF HEATING ELEMENT IS NOT IMMERSSED IN COOLANT. IF NOT IMMERSSED, ELEMENT SHEATH MAY BURST AND COULD RESULT IN PERSONAL INJURY.

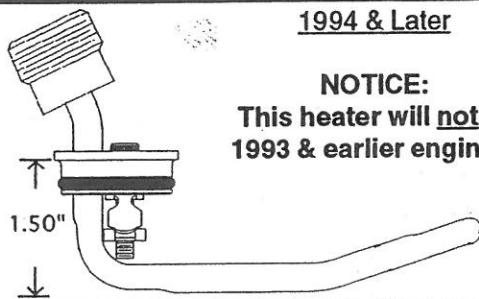
USE A 50/50 SOLUTION OF ETHYLENE GLYCOL ANTI-FREEZE AND WATER FOR OPTIMUM HEATER PERFORMANCE



CAUTION

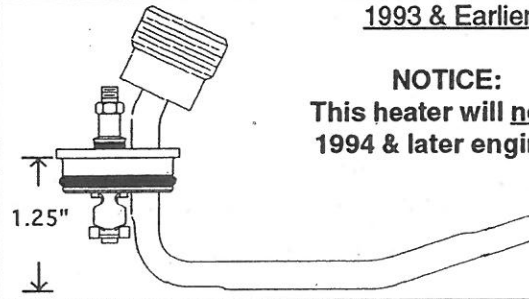
DO NOT USE MORE THAN 65% CONCENTRATION OF ANTI-FREEZE, AS A SHORTENED HEATER LIFE WILL RESULT.

DO NOT USE HEATER IN COOLANT SYSTEM CONTAINING ANY FORM OF STOP-LEAK ADDITIVE.



1994 & Later

NOTICE:
This heater will not fit
1993 & earlier engines.



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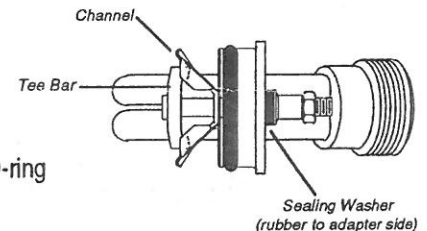
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1. Drain cooling system. Flush system, if necessary. Remove core plug, as indicated in chart below.

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 insure 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 |