

INSTALLATION INSTRUCTIONS

International Harvester V800, Caterpillar 3406, 3408
Detroit Diesel 6V-71, 8V-71 (without belt-driven power
steering or air conditioning)
Detroit Diesel Series 60



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.

1. Drain engine coolant. Clean cooling system if necessary.
2. **For IH V800:** Remove drain plug and 1" NPT reducer located at bottom of oil cooler bonnet on right side of engine (see Figure 1 on back side of this sheet).
Caterpillar 3406: Remove 1" pipe plug located at bottom of oil cooler bonnet (see Figure 2).
Caterpillar 3408: Remove 1" NPT pipe plug at rear of oil cooler bonnet on right side of engine (see Figure 3). With BrakeSaver: 1" pipe plug is located at front of oil cooler bonnet.
Detroit Diesel 6V-71 & 8V-71: Remove 1" pipe plug located at front of left cylinder bank below cylinder head (see Figure 4). Similar plugs are located at both ends of each bank.
Detroit Diesel Series 60—1991 and newer: Remove 1" pipe plug near top front of oil cooler (see Figure 5).
Detroit Diesel Series 60—pre 1991: Remove 1" pipe plug in water pump casting on right front side of engine (see Figure 6).
3. Check interior of water manifold for obstructions; these can usually be removed with a sharp chisel or file. Failure to remove obstructions may result in damage to heater element.
4. Coat threads with gasket cement or teflon tape.
5. Install heater assembly. Tighten securely.
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 securely by hand.
7. Allow slack for engine vibration and protect cord from excessive heat and also from possible chafing or mechanical damage.
8. Fill cooling system with good grade permanent antifreeze solution (see CAUTION note above).
9. Connect only to 120-Volt AC grounded outlet. If an extension cord is used, be sure it is a three-wire grounded cord.

Note: Due to impurities found in most cooling systems, we recommend the installation of an adequate filtration system.

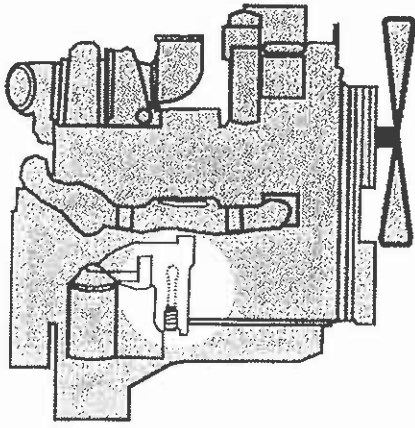


Figure 1
I.H. V800

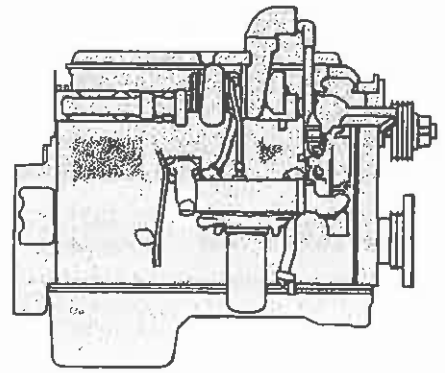


Figure 2
Cat 3406

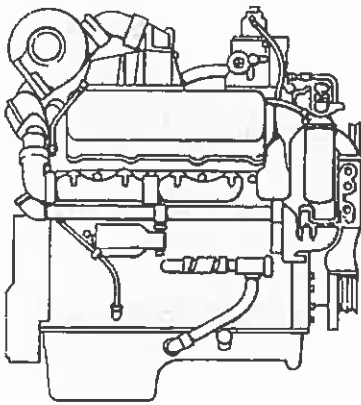


Figure 3
Cat 3408

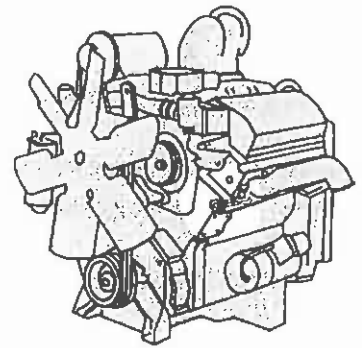


Figure 4
DD V-71 w/o belt-driven power
steering or air conditioning

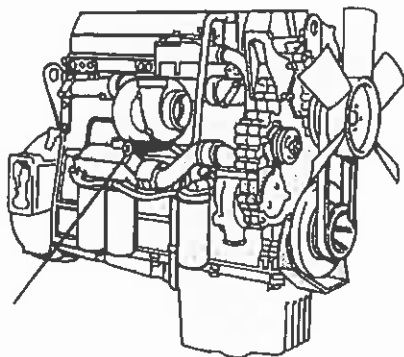


Figure 5
DD Series 60 (1991 & newer)

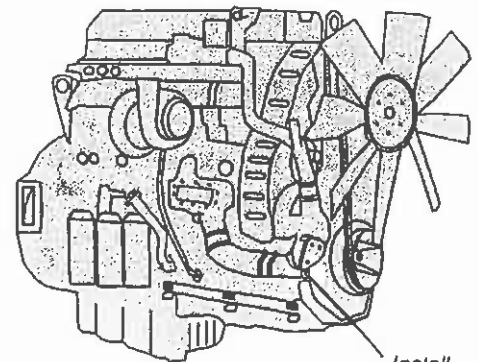


Figure 6
DD Series 60 (pre-1991)

NOTICE

Do Not Use this heater in 1998 Caterpillar 3406E, 3456, or 15.8L (600hp) “Big E” engines. Please contact your dealer for assistance.

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