

LUBE OIL HEATERS AND LUBE OIL THERMOSTATS

READ CAREFULLY FOR PROPER INSTALLATION & OPERATION



218061-042 rev1



I. OPERATING INFORMATION

The Lube Oil Heater is a cartridge heating element. The Lube Oil Thermostat is a temperature sensing device in an aluminum well.

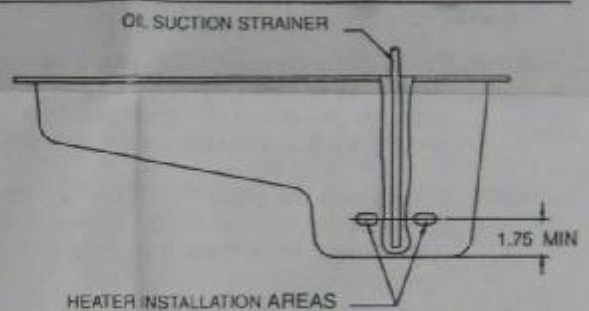
Kim Hotstart recommends the use of a thermostat with a Lube Oil Heater. The thermostat prevents the possibility of overheating and thus damaging the oil. The Lube Oil Heater can be controlled by a lube oil thermostat or by a Kim-Stat on a coolant heater.



II. INSTALLING THE LUBE OIL HEATER

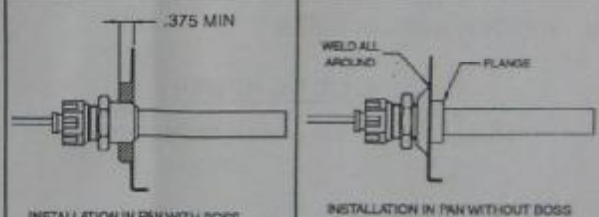
CAUTION: Do not install the Lube Oil Heater in the oil sump drain.

- Drain the oil sump.
- Remove the oil pan if drilling or welding is required.
- Install the Lube Oil Heater low in the side of the oil pan or sump. Do not install it closer than 1 3/4" from the bottom or walls of the sump. Keep the heater away from internal objects.



NOTE: Some manufacturers provide additional openings or bosses in the sump. Use an available opening if its location is acceptable per step C.

NOTE: The wall of the sump or boss must be at least 3/8" (10MM) thick to provide an adequate mounting hole. If the sump wall is too thin a flange must be installed to mount the heater.

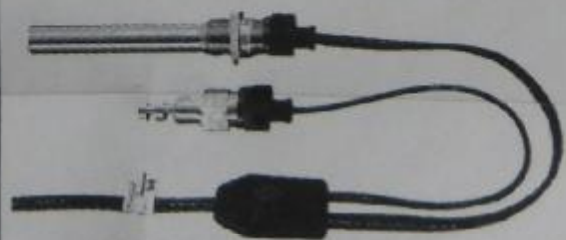


Oil Heater Thread Size

- OW6 or OE6 — 1" NPT
- OW4 or OE4 — 3/4" NPT
- OW2 or OE2 — 1/2" NPT

NOTE: When installing a Lube Oil Heater with Y-Cord and thermostat, follow the steps below.

- Disconnect cord from heater and install per section II.
- Disconnect cord from thermostat assembly and install per section III.
- Re-attach cord to heater and thermostat.

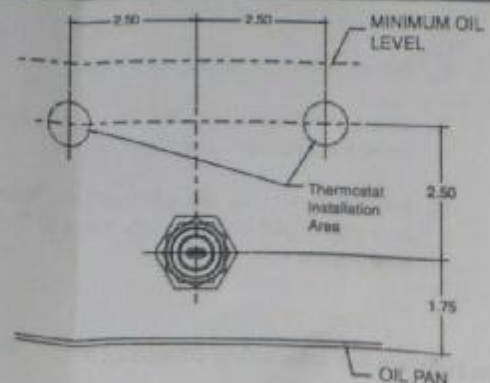


III. INSTALLING THE LUBE-OIL THERMOSTAT

- Install the thermostat approximately 2 1/2" (64MM) to either side of the oil heater and 2 1/2" (64MM) above the heater.

CAUTION: The thermostat must be installed below the minimum oil level in the sump. If the thermostat is not immersed in the oil it will not control the oil temperature.

NOTE: The same conditions concerning the sump wall and bosses apply for the thermostat as for the oil heater in Section II.



IV. WIRING THE OIL HEATER AND LUBE-STAT

NOTE: In this case the lube oil thermostat is wired in series with the oil heater.

- Make a 4" (102MM) cut down a groove in the end of the thermostat cord. Strip the cord as shown.
- Make an 8" (203MM) cut in a groove of the oil heater cord at a point where the thermostat cord will reach. Cut the green wire and one power lead. Strip the cord as shown.
- Splice the wires together as shown. Use insulated crimp type connectors.
- Wrap splice with electrical tape to protect the splice and reduce strain.

NOTE: The following diagrams show some common wiring configurations. When wiring an oil heater in parallel with a coolant heater do not exceed the amperage rating of the coolant heater plug or thermostat.

NOTE: Models with the prefix "-OE" have a termination enclosure to meet NEC Class I, Division I, Group D requirements when wired in compliance with NEC specifications.

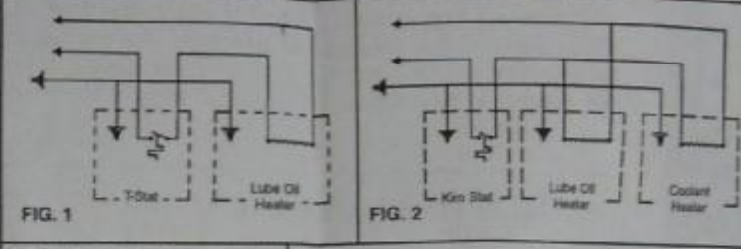
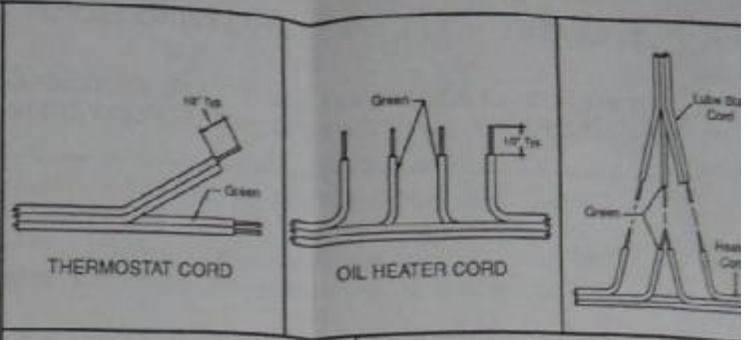


FIG. 1

FIG. 2

Caution must be used with FIG. 2 wiring because the oil temperature is not being monitored. If the oil heater wattage is too high the oil may be damaged before the KIM-STAT shuts the heaters off.

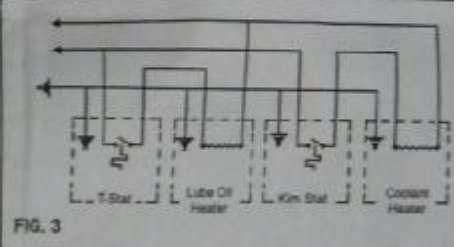
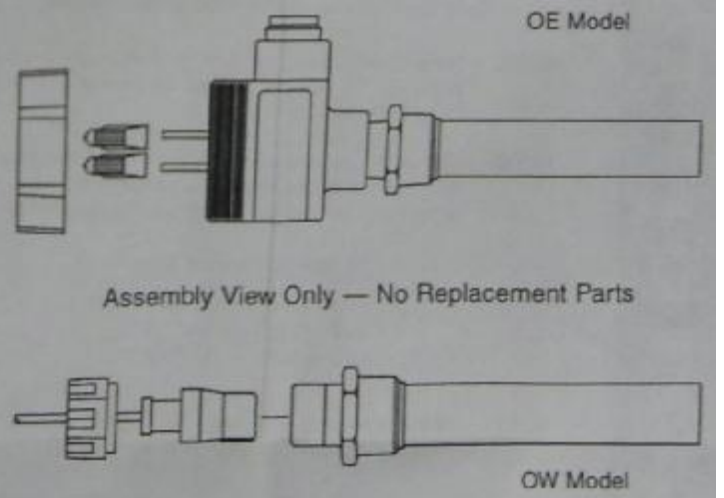


FIG. 3

V. HEATER REPLACEMENT

LUBE OIL HEATER

Heater replacement only. No replacement parts.



Assembly View Only — No Replacement Parts

LUBE OIL THERMOSTAT SENSING UNIT

- Unscrew the hex cap. Pull the cord and sensing unit out of the well.
- Pull sensing unit off the cord plug.
- Insert new sensing unit into cord. Spade terminals should not be exposed.
- Insert the sensing unit and cord into the well and screw the hex cap down snug. Do not overtighten.

