

**INSTALLATION  
INSTRUCTIONS**

**OIL PAN HEATER WITH M27 X 1.5  
METRIC THREAD**



**WARNING**

**PERSONAL INJURY. Never operate heater if element is not immersed in oil.** Element sheath could burst and cause personal injury.

**HEATER**

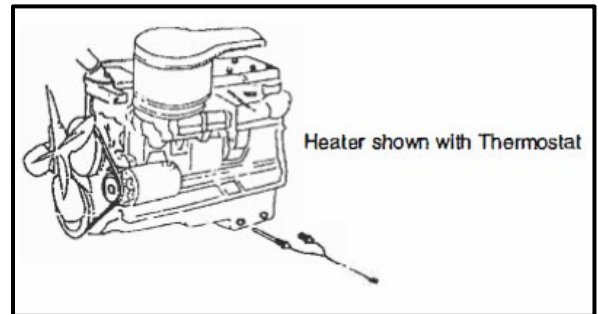
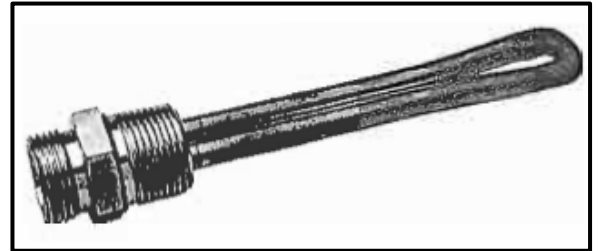
A 27 mm threaded plug that is approximately 2" or more below the oil level is required.

**THERMOSTAT (IF INCLUDED IN KIT)**

The thermostat requires a threaded port, preferably located on or below the horizontal plane of the heater. The port should be approximately 4" -8" away from the heater to accurately sense the oil temperature.

**HEATER INSTALLATION PROCEDURE**

1. Drain oil and remove pan if necessary.
2. Check for oil pump screen baffles, etc., which would interfere with the heater.
3. Remove available access plug or drill and tap available boss.
4. Reassemble oil pan to engine (if removed) using new gasket to ensure against all leaks.
5. Install oil pan heater with gasket or sealing washer if one was used on plug and tighten securely. Install thermostat (if used) using good grade of non-hardening gasket cement on the threads.
6. Connect wiring to heater (and thermostat, if used). Take care to align pins with sockets of the cord connector. Tighten strain relief nut securely by hand. Route cord to outside, securing where necessary to allow slack for engine vibration and ensure that cord does not touch engine, hot pipes, or any moving parts. Connect only to a protected AC outlet. If an extension cord is used, it must be the three-wire grounded type.
7. Fill oil pan to proper level with lubricating oil approved by the engine manufacturer.
8. In cold weather, oil changes should be performed more frequently, due to contamination caused by cold starts.



**CAUTION**

In extremely cold weather, heaters should be connected to power source when engine oil is warm to eliminate possibility of oil coking on heater. Severe coking may cause heater failure.

**WARRANTY**

The Phillips & Temro Industries warranty statement is located on the website at [phillipsandtemro.com/terms](http://phillipsandtemro.com/terms).