

**INSTALLATION  
INSTRUCTIONS**

**SECTION 1.01 THERMOSTAT KIT FOR  
HEAVY DUTY ENGINE COOLANT AND  
OIL PAN HEATERS**

This kit contains a plug-type thermostat with a ½" NPT fitting\*, a Y-cord assembly with two heavy duty female connectors (3/4" diameter-rewired in series), and a ½" NPT adapter bushing.

**OIL PAN THERMOSTAT INSTALLATION**

Use with ½", 1" NPT or 22 mm oil pan heaters.

1. Check pan for available threaded openings. The access hole required for the thermostat is a ½-14 NPT. The thermostat should be mounted horizontally about 4 to 8" from heater installation. NOTE: Cummins Big Cam III and IV engines have a provision for 1"NPT heater and a ½"NPT thermostat.
2. Install heater per instructions, replacing standard heater cord with Y-cord.
3. Apply sealant or gasket cement on threads of thermostat plug.
4. Use reducer bushing if required. Install thermostat plug and tighten unit to 25-30 foot-lbs. torque. DO NOT use an impact gun.
5. **If it is necessary to provide a port in a stamped steel oil pan, follow these instructions:**
  - a. Drill or punch a 1" hole for adapter bushing on side or end of pan approximately 1" from bottom of pan, if possible.
  - b. Install adapter bushing or bushings from outside of pan.
  - c. Braze in place.
6. Connect wiring to heater and thermostat. Insert the power cord connector into the socket, taking care to align pins with sockets of connector cord. Press plug firmly into socket. Tighten strain relief nut securely by hand.
7. Route cord to location where male plug is accessible.



**CAUTION:** Secure cord to frame, allowing slack for engine vibration. Protect cord from chafing on moving parts, heat from manifold, and exhaust pipe. The two lengths of cord can be tie wrapped together for easier handling.

**COOLANT THERMOSTAT INSTRUCTIONS**

Use with any heavy-duty coolant heater that uses the heavy duty ¾" diameter connector.

1. Install the coolant heater per instructions provided with heater, replacing the standard cord with the Y-cord.
2. The thermostat can be installed in any available location into the block's coolant system, preferably in the upper part of the block. Since heat rises, the upper location will be the warmest. Example: On Cummins 855 CID blocks, install in the water manifold.
3. Install and connect the thermostat as stated in steps 3, 4, 5, & 6 above.



**NOTE:** Due to variable locations in which this thermostat can be installed, the actual heater on/off cycle times may vary.

- Thermostat marked '017' range: 120°F OFF/100° F ON.
- Thermostat marked '030' range: 75° F OFF/55° F ON.



**CAUTION:** Heater damage. Do not operate heater until all air is bled from system. Shortened heater life will result.

Please respect the environment. All products, packaging and engine fluids should be disposal collected and recycled or disposed of in accordance with local regulations.

**WARRANTY**

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