

**INSTALLATION  
INSTRUCTIONS****OIL PAN HEATER  
CATERPILLAR 3116**

This heater replaces the drain plug on the caterpillar 3116 engine (drain plug thread size: 3/4 - 16).

**WARNING**

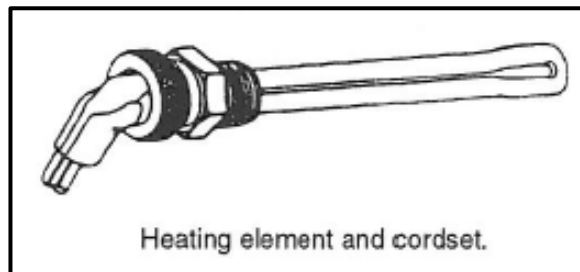
DO NOT plug in heater if element is not immersed in coolant. If not immersed, element sheath may burst and could result in personal injury.

**INSTALLATION**

1. Drain oil from engine.
2. Check that O-ring seal is on heater. Install heater in oil drain opening and tighten securely.
3. Install cord to heater, taking care to align terminal pins of heater with sockets in cord connector. Tighten strain relief nut securely by hand.
4. Route cord to outside, securing where necessary to allow slack for engine vibration and to ensure that cord does not touch engine, hot pipes, or any moving parts.
5. Fill oil pan to proper level with lubricating oil approved by the engine manufacturer. In cold weather, oil changes should be performed more frequently, due to contamination caused by cold starts.

**IMPORTANT**

Remove cord before removing heater to change oil. In extreme weather, heaters should be connected to power source **when engine oil is warm** to eliminate the possibility of oil coking on heating element. 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).