



### INSTALLATION INSTRUCTIONS

**MOROSO #23980 ENGINE OIL PREHEATER WITH ALUMINUM FITTING**

**MOROSO #23990 ENGINE OIL PREHEATER WITH STEEL FITTING**

1. Locate a suitable place for installation. Keep in mind that the heater element should be installed at the lowest point possible in the dry sump tank or sump of the oil pan. (Submerged in oil.)
2. Check that there is adequate clearance inside, and that the element will not interfere with the operation of any baffle doors inside oil pans.
3. Once you have a suitable location, drill a 1 1/4" diameter hole which will allow the element to enter the oil cavity.
4. Weld the 1" NPT fitting to this location, preferably using the heli-arc process. Be sure that the chamfer on the fitting is not against the tank or sump.
5. Install the element using the appropriate sealer around the threads. By plugging into the household current or generator, this element will raise the initial temperature of 12 quarts engine oil by 60° in 30 minutes. Heat up time will be reduced accordingly if quantity of oil is less.
6. If you decide to leave the cord permanently attached, route it away from any potential hot spots (headers, etc.) and be sure it does not interfere with any moving suspension components. Tie-wraps can be used to secure the cord at various locations. Locate the male end of the cord in a readily accessible location.

### PARTS LIST

- |   |                    |
|---|--------------------|
| 1 | OIL PREHEATER CORD |
| 1 | OIL HEATER FITTING |

**For Technical Assistance, Call Moroso's Tech Line at  
(203) 458-0542, 8:30am – 5:00pm Eastern Time**

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