FROST PLUG HEATERS

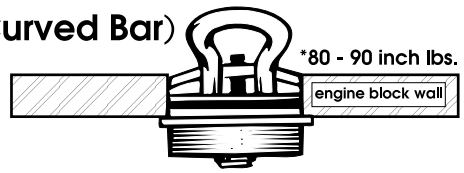
Simple installation directly into engine block. Saves Wear & Tear on your engine.

SIMPLE TO INSTALL

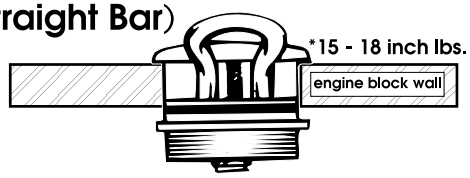
10400 & 11400
SERIES RATED AT 400 WATTS / 120 VOLTS
10600 & 11600
SERIES RATED AT 600 WATTS / 120 VOLTS

DO NOT USE A KAT'S ENGINE HEATER WHEN USING A 100% SOLUTION OF ANTI-FREEZE.

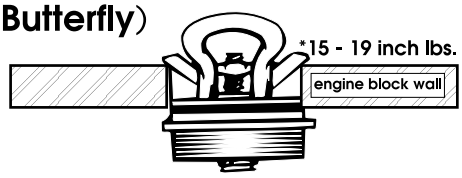
EXAMPLE A (Curved Bar)



EXAMPLE B (Straight Bar)



EXAMPLE C (Butterfly)



Torque Properly

INSTRUCTIONS:

1. Drain and flush radiator and block.
2. Remove correct frost plug or core plug - depending on type of engine.
3. Clean frost plug hole with a cleaning agent to remove any dirt, grease or paint. (Lubricate "O" ring with a light weight grease only, oil is not as satisfactory) before installing heater in frost plug opening.
4. Place engine heater in frost plug opening. Position of element is dependent on specific engine. The shoulder on the steel section of the heater must be against the face of the engine block wall. This allows the "O" ring to seal the unit for a leak proof installation.
5. Models with a toggle or flat cross bar on the back side of steel adapter must be installed with bar behind block wall. Tighten the Hex head or nut to 15 to 18 inch pounds torque until the cross bar is tight against inside block wall. Only use these models where recommended. (see example B above.)

*6. Models with a curved cross bar need to be torqued to 80 to 90 inch pounds to expand the cross bar on the back side of the heater in the frost plug opening. Only use these models where recommended. (See example A above.)

*7. Models with a butterfly cross bar need to be tightened to 14 to 19 inch pounds. Only use these models where recommended. (See example C above.)

8. Place the electric cord from the heater through radiator grille or other convenient opening and tape or fasten in position, making sure it is clear of all moving parts (fan blades) and heater parts (manifold).
9. Refill radiator, run engine long enough to build up a maximum pressure and check for leaks to complete installation.
10. Connect the Kat's Engine Heater to any 120 volt AC or DC electric outlet. Use your heater for 60 minutes or longer before vehicle is to be operated. Heater can be left on all night without overheating.
11. This heater is equipped with a three prong (grounding) plug and should be connected to a properly grounded circuit.
12. If an extension cord is used in conjunction with this heater, be certain that the wire size of the extension cord is of adequate size for the wattage of the heater and distance from the receptacle to the heater Consult a licensed electrician if further information is required.