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HotBand Cylinder Heating System

INSTALLATION INSTRUCTIONS

Failure to follow these instructions WILL result in product failure.
If any of these instructions are unclear, please call for clarification before beginning.

1. Test the band heaters before installing by plugging in each one for 2-3 seconds until it begins to feel warm, but do not allow them to get hot. Do not cut or damage the red heating elements.
2. Remove the cowling and anything else needed to gain access to the cylinder bases. The inter-cylinder baffles do not need to be removed.
3. Using care not to pull on the wire leads, install a HotBand cylinder heater P/N CH38-XXX around the base of each cylinder, on the unfinned section. The leads must face the crankcase and be positioned on top of the cylinder. Bands with part numbers ending in "R" and "L" are interchangeable – the only difference is the screw orientation preferred for best access. Installation can usually be done easily by prebending the cylinder heater to about a 5 inch diameter, then feeding it from the top while holding the screw end. The prebend will allow the end to follow the curvature of the cylinder all the way around the bottom and back up to the top. It is usually easy to push the band between the cylinder and the baffles. While pushing the heater from the top place your free hand under the cylinder to help feed the end around the cylinder if necessary. Hand tighten the clamp with a screwdriver so it's **just snug - do not over tighten**. Over tightening will crush the silicone heating element.
4. **Safety wire the clamp screws**, or place a dab of RTV on the screw. If they vibrate loose the heating elements will burn out. See photo showing how to do this in our web page "Installation Instructions".
5. Install the wire harness P/N CH4 or CH6 longitudinally along the top center of the engine crankcase, using cable ties or clamps to secure it to the crankcase bolts as shown in photos. The AC plug should be located so it will be easily accessible with an extension cord, such as through the front air inlet (as shown at right) or oil check door. Avoid interference with any moving parts or controls, and heat sources such as exhaust pipes. If you must go through the rear baffle, insert the connector end of the harness rather than the AC plug end so that a smaller hole and grommet are needed.



6. Attach the green ground wire to the engine (photo at right), and test the connection by checking for continuity between the engine and the ground pin on the plug.

Photo also shows one way to secure the harness to the crankcase bolts with wire ties.



7. Plug each cylinder heater into a harness connector. Extra connectors are provided for the heaters for the oil sump and oil cooler, if installed. 6" extensions are available if any of the heater leads will not reach the harness. **The heater leads must be well supported** by clamping them to the pushrod tubes (Lycomings) or bonding to the crankcase (Continental) with a dab of silicone adhesive.
8. Test the system by plugging it in and feeling by hand to ensure each cylinder heater gets warm.
9. Before re-cowling the engine, have someone get in the cockpit and move all controls while you watch to see if there is any interference with any part of the heater system.
10. Installation of these FAA-PMA parts is a minor alteration and does not require an STC or Form 337. See www.ReiffPreheat.com/FAA-PMA.htm . For type certificated aircraft an A&P is required to install them (or supervise owner installation) and document the engine logbook and W&B. The weight of your system is printed on the label on your box. The arm is the same as the arm for the engine oil.

Operating Instructions

Always use a grounded outlet for safety. For the best protection against shock, use a ground fault type outlet or extension cord.

Place a blanket over the engine cowl and plug all cowl openings to retain heat in the engine compartment. Plug in the heater at least 3-5 hours before engine start, 10-12 hours for maximum heating.

See the Heating Time Table for more info: www.ReiffPreheat.com/product.htm#Heating_time

We suggest using a WI-FI or cellular remote control to make it convenient for you to turn the preheater on prior to a flight. Continuous preheating during long periods of aircraft inactivity is not recommended, nor do we advocate continuous preheater use as a means to prevent corrosion in inactive engines. Corrosion can occur in engines that are not flown frequently, whether they are warm or not. Every aircraft owner should become familiar with these:

Lycoming Service Letter No. L180B "Engine Preservation for Active and Stored Aircraft"

Continental Service Information Letter No. SIL99-1 "Engine Preservation for Active and Stored Aircraft"

Links to both of these are here: www.ReiffPreheat.com/FAQ.htm#QA3

During each annual inspection the heaters and harnesses should be checked to make sure they are secure and undamaged. If necessary, replacement parts may be obtained directly from us.

No Fault Warranty

Install it, try it, and if you are unsatisfied for any reason, send it back within 30 days of purchase. Up to 5 years after your purchase we will repair or replace any part that fails.