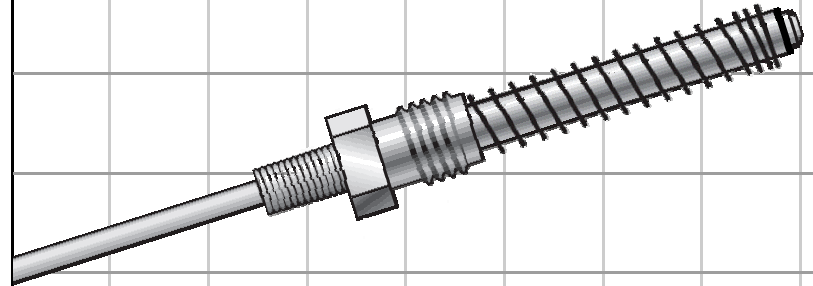


CHT Probe

Installation Instructions
Screw-In



Web site: www.alcorinc.com
E-Mail: support@alcorinc.com



GENERAL INFORMATION

When installing a new or replacement thermocouple ensure the wire colors match the extension lead and color code for the indicator.

Thermocouple Type	Color code (+/-)
Type J (iron/constantan)	Black/Yellow
Type K (chromel/alumel)	Yellow/Red

Screw-in probes install directly into the cylinder head thermowell without the use of an adapter.

INSTALLATION, SCREW-IN TYPE

1. If replacing an existing bayonet probe, remove any adapters that may be installed in the cylinder head thermowell.
2. Apply small amount of anti-seize on probe screw threads. Insert probe into cylinder head thermowell. Make sure probe tip remains inside end of probe tube/spring assembly. While pushing against spring, screw nut into cylinder head. Nut will turn easily for 2-3 threads then friction will increase. Torque nut to 25-30 in-lbs or tighten 1/4 to 1/3 more than finger tight.
3. Slide fiberglass insulation of over extension lead. Attach lead to probe, making sure to match wire colors and stagger together. Slide sleeve over lead connection and secure with nylon ties.
4. Allow enough slack in the probe lead to minimize strain on wire. Secure remainder of lead to engine/airframe way from the exhaust pipe.

FREQUENTLY ASKED QUESTIONS

On a new installation, which cylinder should I install the probe on?

Install the probe in the same location as factory-installed system, or rear cylinder on horizontally opposed engines, or #1 cylinder on radial engines. If unsure, make several similar test flights changing thermocouple locations between flights to select the hottest cylinder. That cylinder should remain the hottest unless airflow is altered because of cooling airflow problems such as air baffling leaks, etc. or cylinder runs excessively lean.

How can I check my probe to see if it is working correctly?

Use an Alcor® ALCAL® 2000 EGT/CHT Tester. Otherwise, place the probe in boiling water and either read the Alcor® meter temperature (200° at first mark) or measure millivolt output and compare with table value listed on opposite page.

What am I to do if I have replaced the probe/thermocouple and I still do not get an indication on the meter?

Inspect entire system for loose connections, broken wires/connectors, or mismatched color-codes between lead/meter and probe. Disconnect meter from lead and check the loop resistance of the lead and probe and compare with value on meter label. Use cigarette lighter or soldering iron to heat probe and check for reading on meter. Use boiling water for accurate check at first meter mark. If you obtain no indication and lead/probe resistance and type are correct, then you may have a bad calibration potentiometer or damaged meter movement. Call Alcor® for repair.

WARRANTY INFORMATION

Alcor®, Inc., warrants all parts in your new Alcor® product to be free from defects in material and workmanship under normal use. Our obligation under this warranty is limited to repair or exchange of any defective part of this unit if the part is returned, transportation prepaid, within **THREE YEARS** from the date of manufacture. The replacement parts carry a warranty for the balance of the period of warranty.

Under this warranty, Alcor® is not responsible for any service charges, including removal and reinstallation or any other consequential damages.

This warranty is void on any product which has been subjected to misuse, accident, negligent damage, repaired by anyone other than the Alcor® Repair Department, or damaged in transit handling. If in the opinion of Alcor®, the product's serial number or inspection date label have been altered or defaced, the warranty is void.

This warranty is in lieu of all other warranties expressed or implied and all other obligations of liability on Alcor®'s part, and it neither assumes nor authorizes any other person to assume for Alcor® any other liability in connection with the sale of Alcor® products.

Should the product covered by this warranty fail to operate properly contact the Alcor® Customer Care Department at **1/800-FLI-SAFE**



300 Breesport
San Antonio, Texas 78216
Phone 210/349/6491
Fax 210/308/8536
Toll free 800/354/7233