

# GT-50 Temperature Probe Installation Instructions

## Installation:

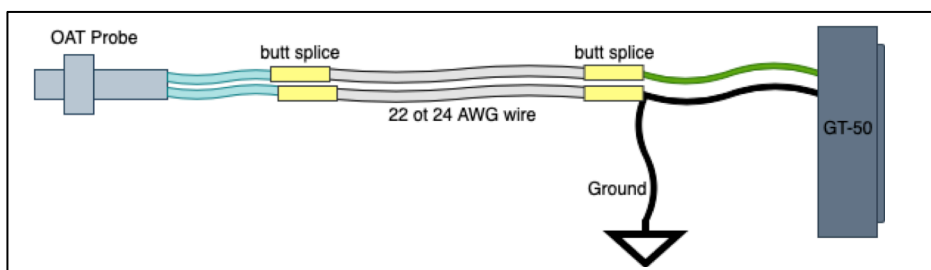
### Mechanical

To achieve the most accurate temperature readings, the probe should be installed in the free air stream outside of the arc of the propeller. Locations inside the arc of the propeller can cause inaccurate readings because the air near the probe may be moving faster than the plane is traveling through the air.

We suggest mounting the probe in a wing inspection panel outside of the arc of the propeller. Drill a 3/16" hole in the mounting surface and secure the probe in the hole with the provided nut and washer.

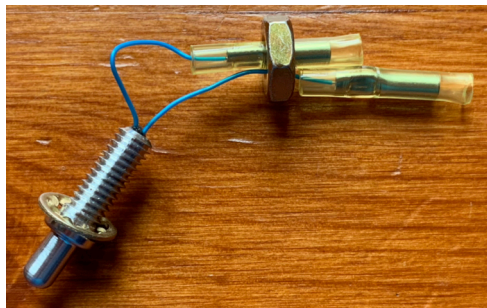
### Electrical Notes:

- The probe wires are identical.
- Use 24 or 22 AWG wire for connections to the OAT probe from the GT-50.
- **One probe wire is connected to the green wire on the GT-50, the other probe wire is connected to ground at the GT-50.**
- Ground the probe at the GT-50. Do not use the airframe for the ground connection.
- Tee off of the black wire on the GT-50 harness to create an extra ground connection for the OAT probe.



### Step One:

- Remove the nut and washer from the probe. Pass the splices through the nut and washer one at a time.

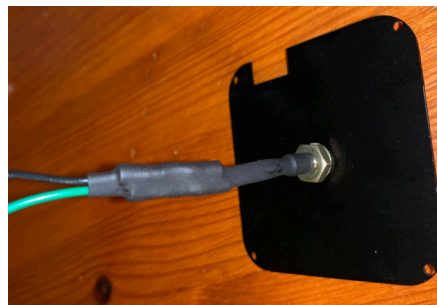
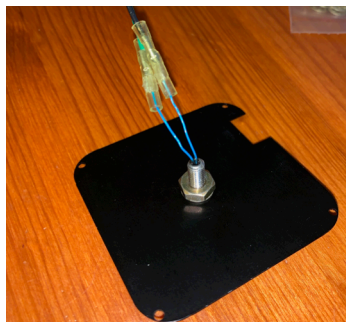
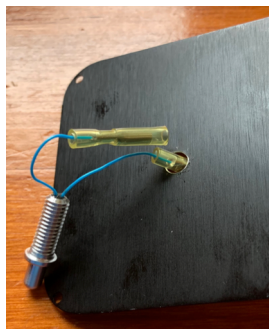


### Method one (preferred method):

Install the probe into the mounting surface, then connect the wires.

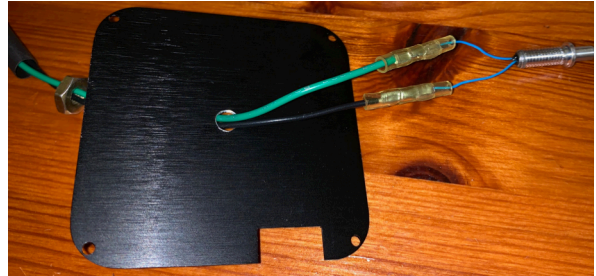
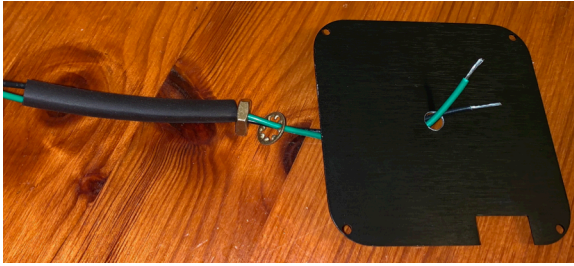
Once the probe is installed into the mounting surface, connect the wires and cover with supplied heat shrink. Don't forget to put the heat shrink on the wires before crimping the connections.

If you can't wire the probe when in the mounting surface see method two.

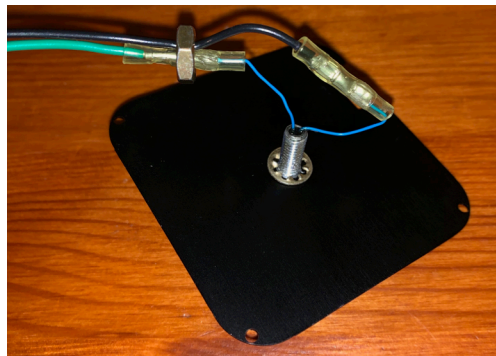
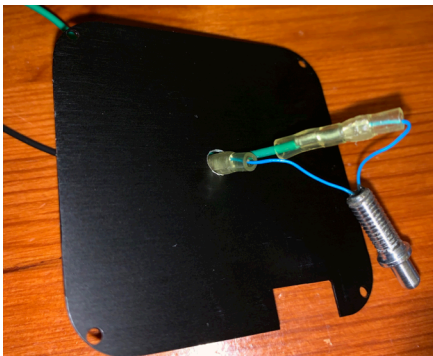


**Method two (if you can't use method one), wire the probe, then install it into the mounting surface:**

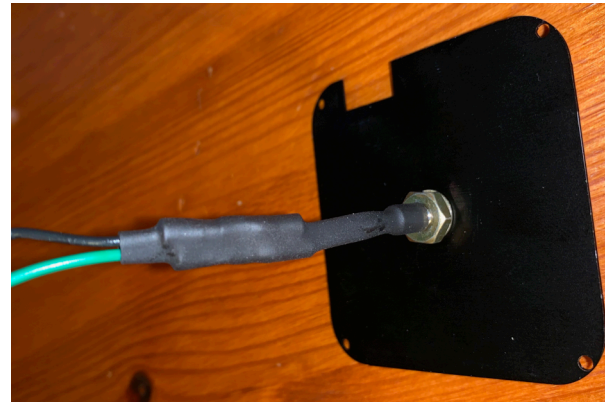
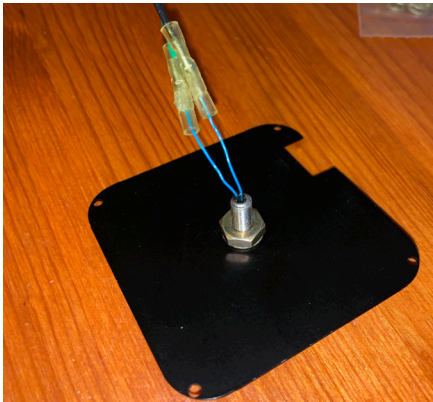
1. Pass the connecting wires through the heat shrink, nut, washer, then through the mounting surface before crimping them to the probe.



2. Once the wires are crimped to the probe, pass each butt splice (one at a time) through the mounting surface, washer and nut.



3. If the butt splice won't fit through the nut, reshape the splice with a pair of needle nose pliers.
4. Cover the entire connection and the back of the OAT probe with heat shrink tubing

**Specifications:**

**Temperature Range:** -30°F to +122°F

**Dimensions:** Overall Length: 0.8 inches, Overall Diameter 0.25 inches  
Mounting Hole Diameter 0.1875 inches (3/16"), 10-32 Mounting Thread

Aluminum Housing Material

**Weight:** 0.1 Oz.



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or call (831) 325-3131