

## Ceramic Thermocouple Assembly For THS-192

1) install the connector on the cable.

Strip  $\frac{1}{2}$  of the yellow jacket off the cable. Then, strip  $\frac{3}{8}$  inch of the insulation off the wire as shown in Figure 1.

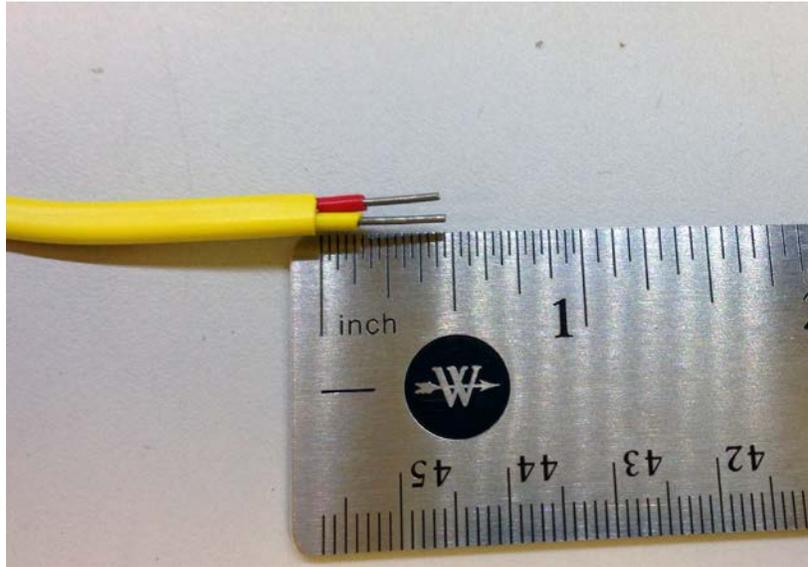


Figure 1 Prepare the cable for connector installation.

Install the wire to the connector. Wire with red jacket is the negative and needs to be installed to the wider blade. The wire with yellow jacket is the positive wire. It needs to be installed to the narrow blade (with positive mark). Please see Fig 2.

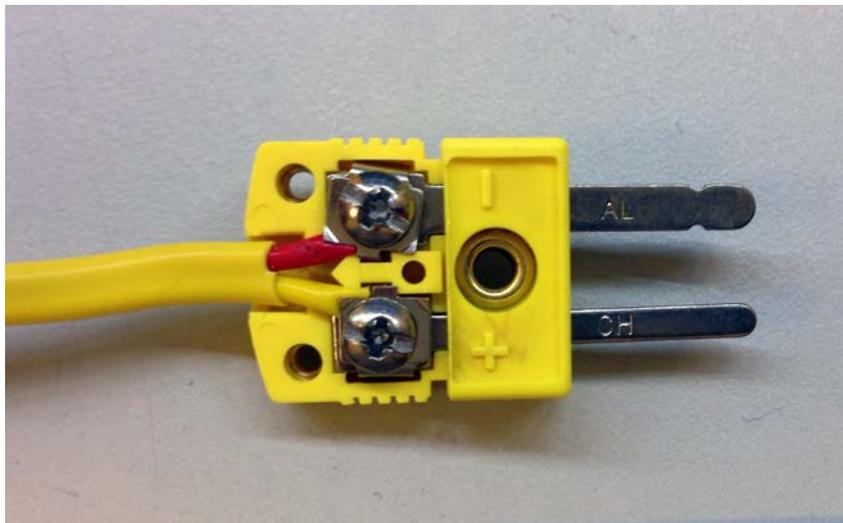


Figure 2 Connector connection.

Install the rest of connector parts as shown in Figure 3

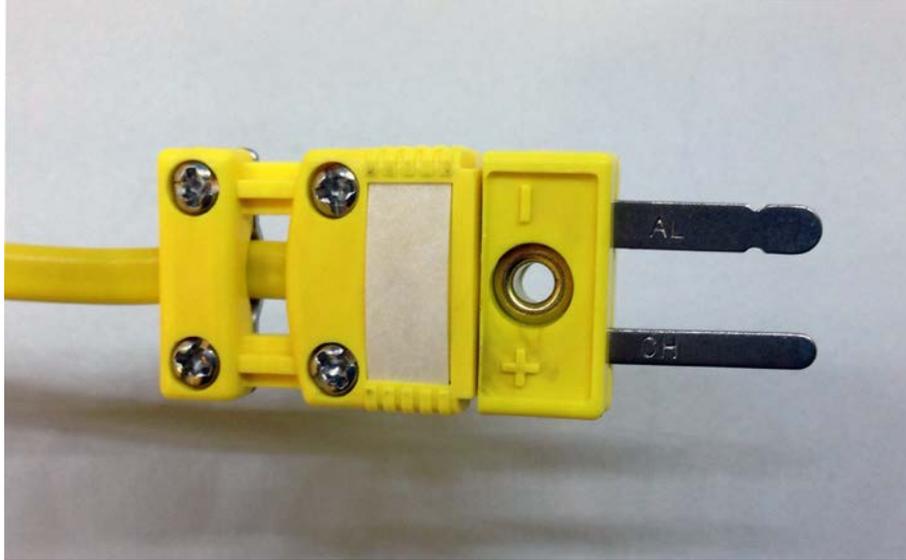


Figure 3

2) Install the probe with cable.

Both the thermocouple and the cable are polarized. The negative of the thermocouple has a red ink mark at the end. The negative of the extension cable has a red insulation jacket. If the thermocouple polarity is reversed, the reading will decrease when temperature increases. If the cable is reversed, you will get at least 40 F error in reading. The negative of the thermocouple wire and the negative of the extension cable should be connected to the same brass terminal block on the oval shaped terminal plate as shown in Fig 4.

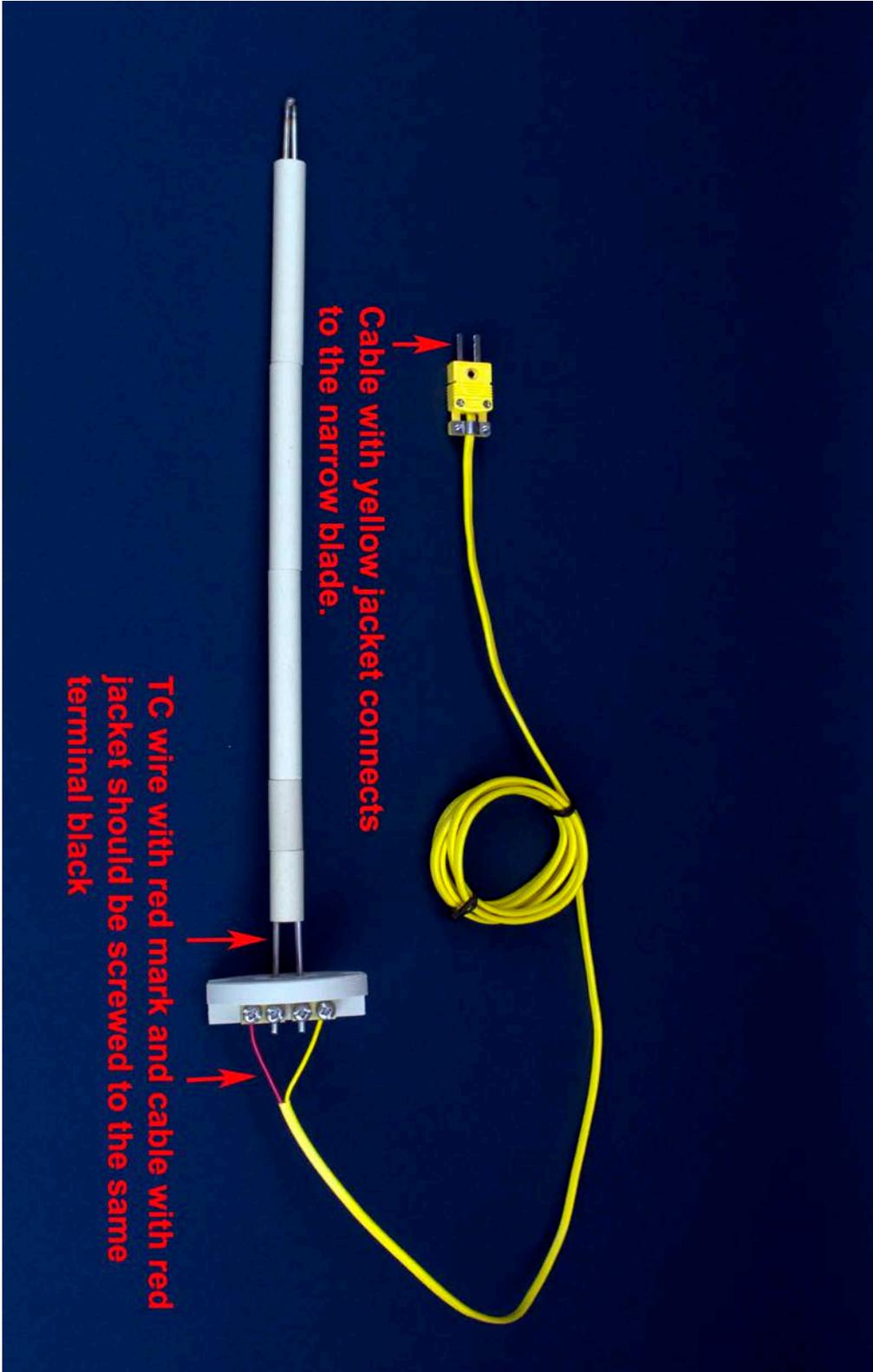


Figure 4. Thermocouple assembly.