

CLC Series probe testing and replacement guide

For 60/80, 100/80, 200/80

Begin by removing the lid of the chiller and opening the front door.

Locate the probe signal converter. Pictured below.

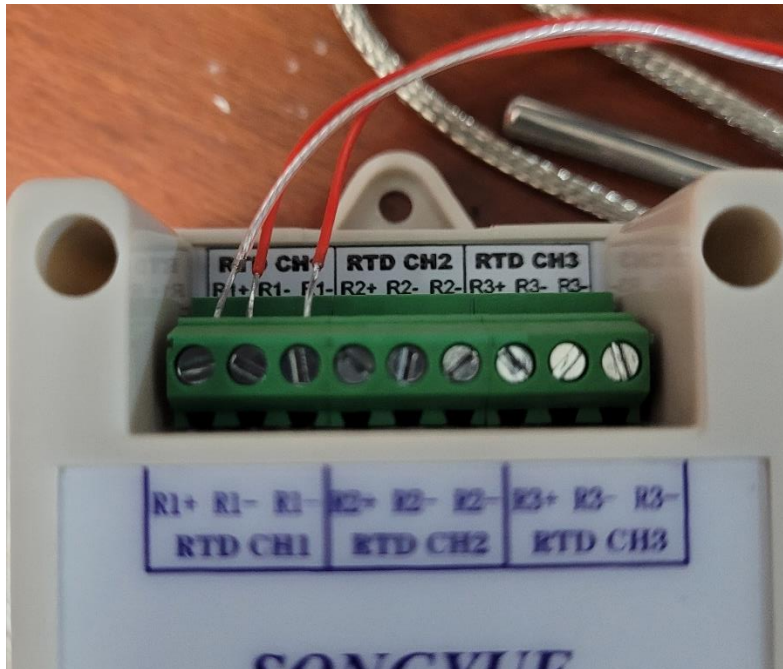


Use the new probe included to test each of the 3 channels.

It will be necessary to remove the wire channel caps to access the probe wiring.



The silver wire is R+ and both red wires are R-
(red wire locations do not matter)



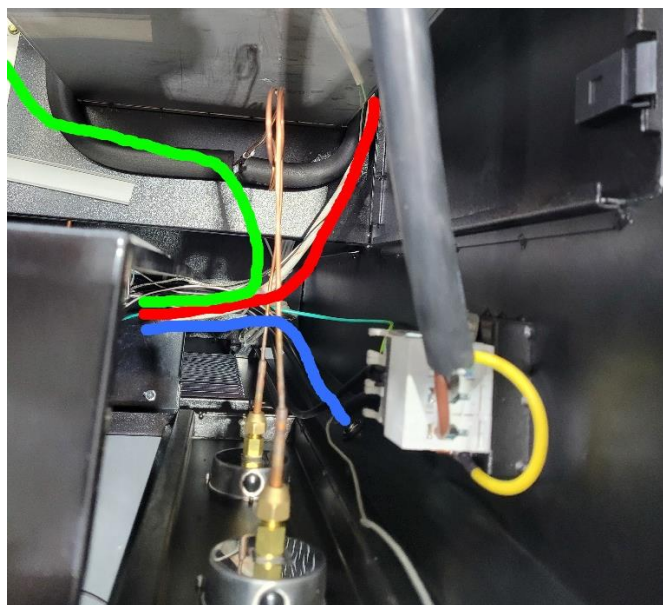
Press Loop on the touchscreen after installing the test probe on each channel.

If the loop does not start, then the probe on that channel is good and another channel is the culprit.

RED [Channel 1 is the liquid temperature probe]

GREEN [Channel 2 is the compressor exchanger probe]

BLUE [Channel 3 is the external probe connector]



Once the defective probe has been identified.

Trace the wire to the end of the white and black wires.

Where the black and white wires end and meet the silver and red wires. Cut where the two meet.

Included in the replacement kit are three butt connectors.

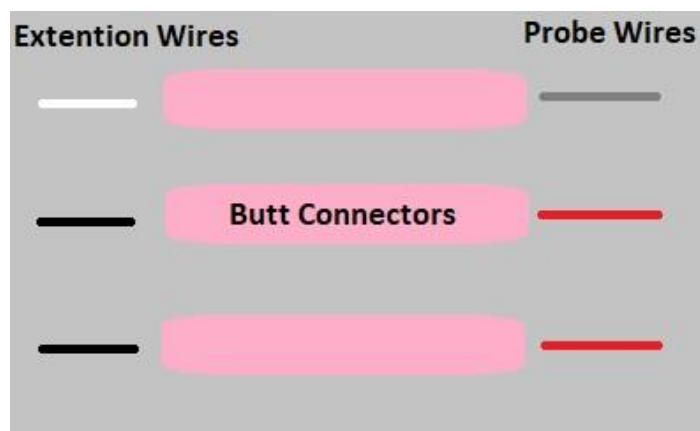


You will need to cut back the ends of the white and black wires. Then using a crimp tool, crimp the butt connectors to each of the three wires. Add the probe wires to the other end like below.

White -> Silver

Black -> Red

Black -> Red



Once the wires have been crimped together, use a lighter to shrink the heat shrink ends of the crimps.

* Be careful to not overheat the wires or the shrink tubing *

Liquid temperature probe area:

Loosen the set screw on the metal collar, until the probe out of the collar easily.



Compressor exchanger probe area:

This probe location will require the cutting back of insulating material.



Push the probe in the same spot that the failed probe was removed from. Ensure the slip over fabric cover goes at the end of the probe where the wires come out. This will keep sharp metal from cutting the probe wire.



External probe area:

Replace the probe on the end of the extension wire. Not the internal wire, but the wire that plugs into the outside of the chiller.

If you have any further issues or need help at any step, please contact us.

Email:

support@usalab.com

Phone:

During Business Hours

(734) 855-4890