

Replacing/adjusting the DELCD probe

March 2024

The DELCD part# 8670-2029 and 8670-3029 consist of a heater and a probe inside the heater.

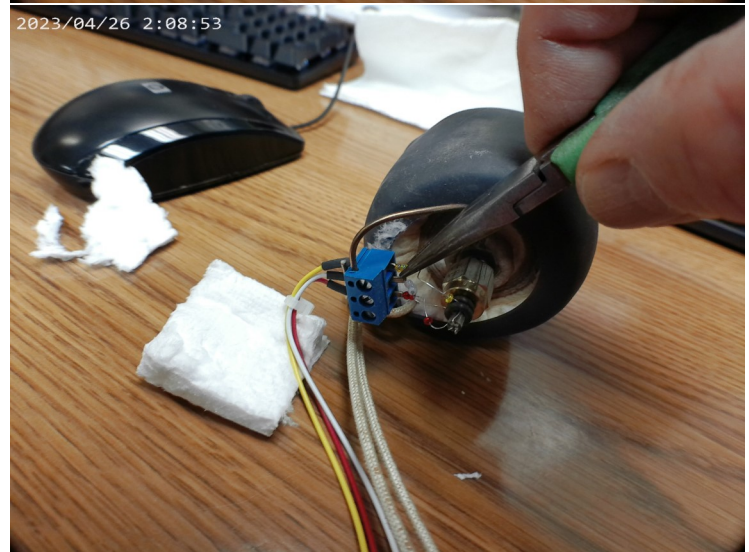
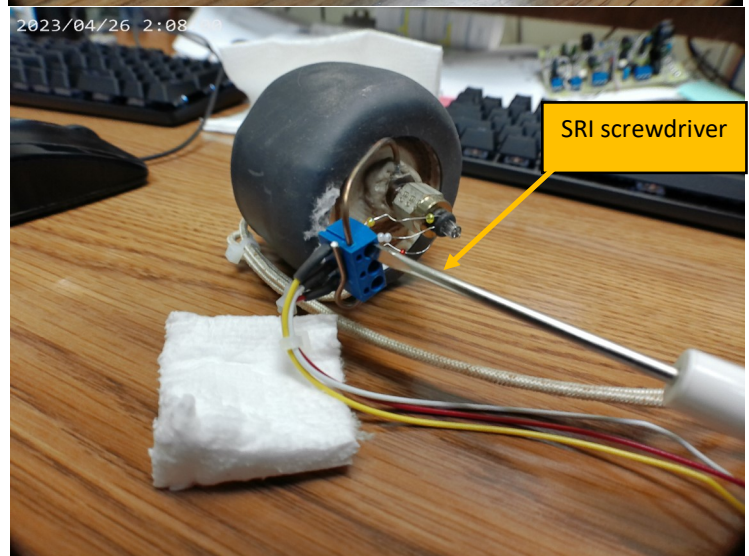
Sometimes it is necessary to adjust the spacing of the platinum wires on the probe.

It is also possible to replace the heater part of the DELCD and re-use the probe from the burnt out heater.

Remove the white insulation and use the SRI flat blade screwdriver to loosen the 3 screws holding the Red/White/Yellow wires. Hold the blue terminal block with your fingers (so it can't move) while loosening the screws to avoid breaking the tiny platinum wires.

Use a needle-nose pliers or tweezers to VERY CAREFULLY remove the platinum wires from the screw terminals.

Avoid bending the wires if possible but its OK to straighten them out a little which makes the next step easier.



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Use a 7/16" (US size) wrench to loosen the Swagelok nut holding the probe. Make sure the delicate platinum wires are not twisted as the nut rotates.

Pull the probe out of the heater.

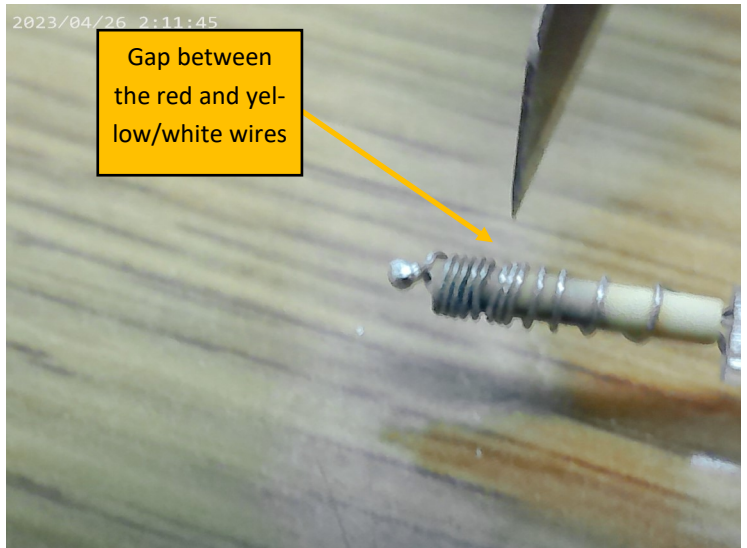
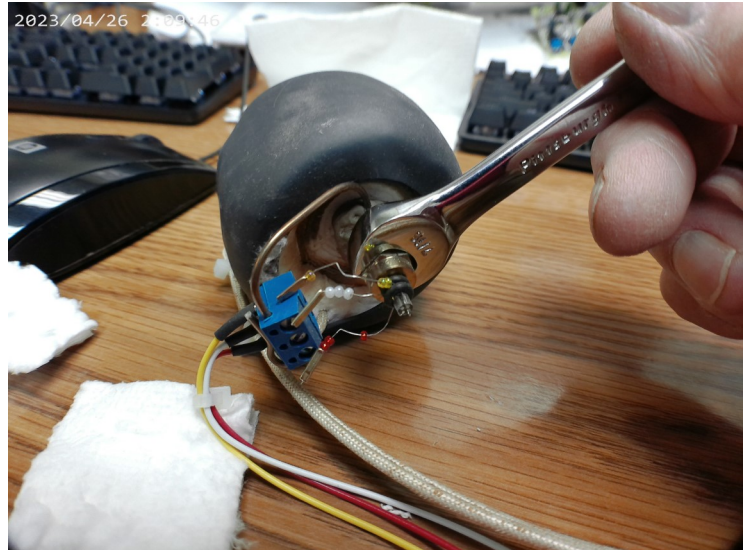
The tip of the probe is a white ceramic rod.

There are 3 platinum wires wrapped around the ceramic rod.

The two wires which are welded together to make a little metal ball at the tip are the white and yellow thermocouple wires. These two wires are wrapped around the rod from the left to act as a ground electrode.

The 3rd platinum wire is the red (collector) wire. It is wrapped around the rod starting from the right side and ending about 1 mm away from the closest white/yellow wire. The circuit measures the electrical conductivity between the red and yellow/white wires so its good if the wires are close to each other but if they touch then the signal goes to the maximum. Sometimes due to thermal expansion and contraction the red wire can move enough to touch. Use a sharp knife to move the red wire 1-2mm away from the yellow/white wire.

Then re-assemble and test



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