

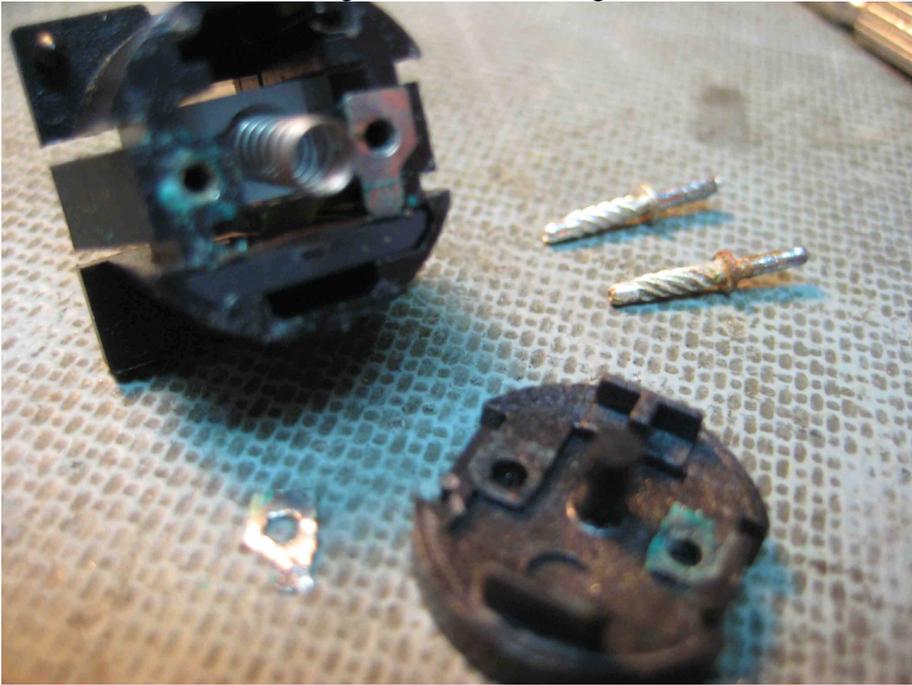
OSI Scientific Superboard II, Keyboard switch fixing.

This particular switch failed due to corrosion from condensation. The whole board shows signs of corrosion. Some keys started functioning after “working” the switch but this switch would not function no matter how many times I banged on the key. Time to open it up... but how?

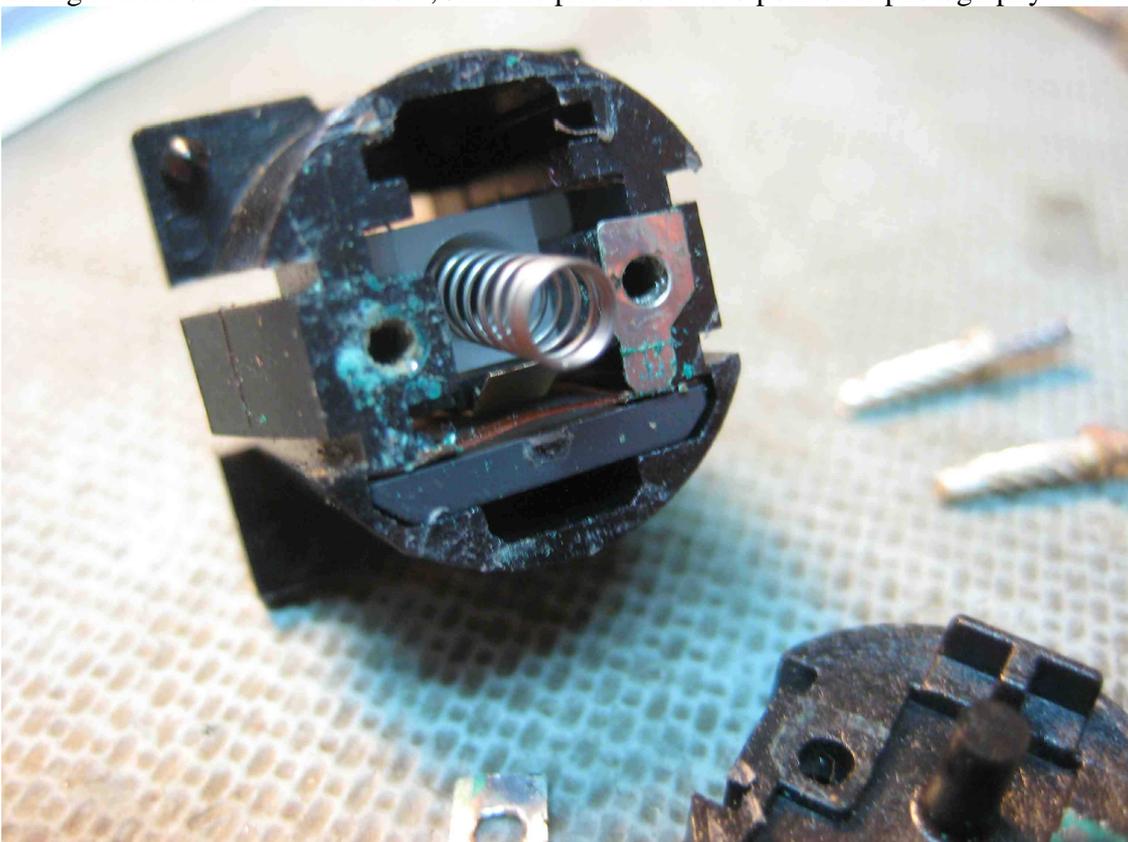
The back cap of the switch is held in place by the actual terminals. If you “unscrew” the posts slowly while gently pulling, they will come out.



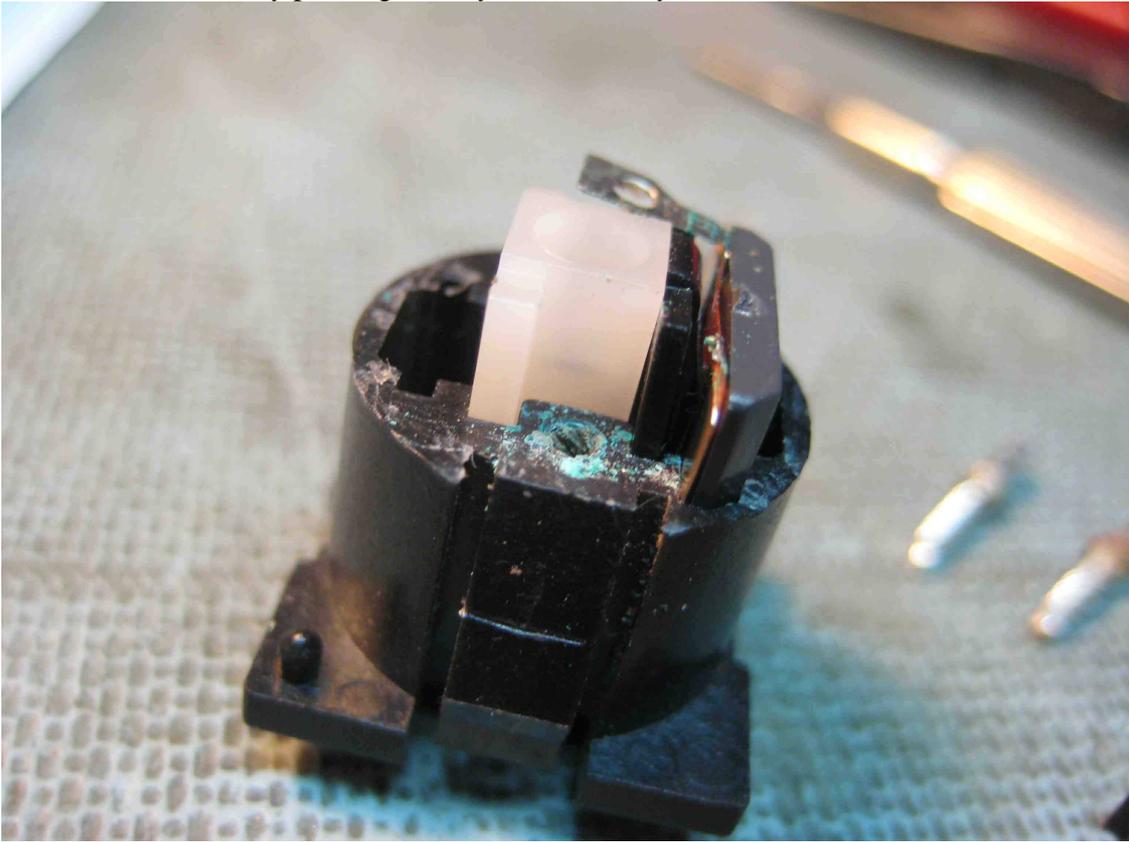
Next, I examined the damage and inner workings.



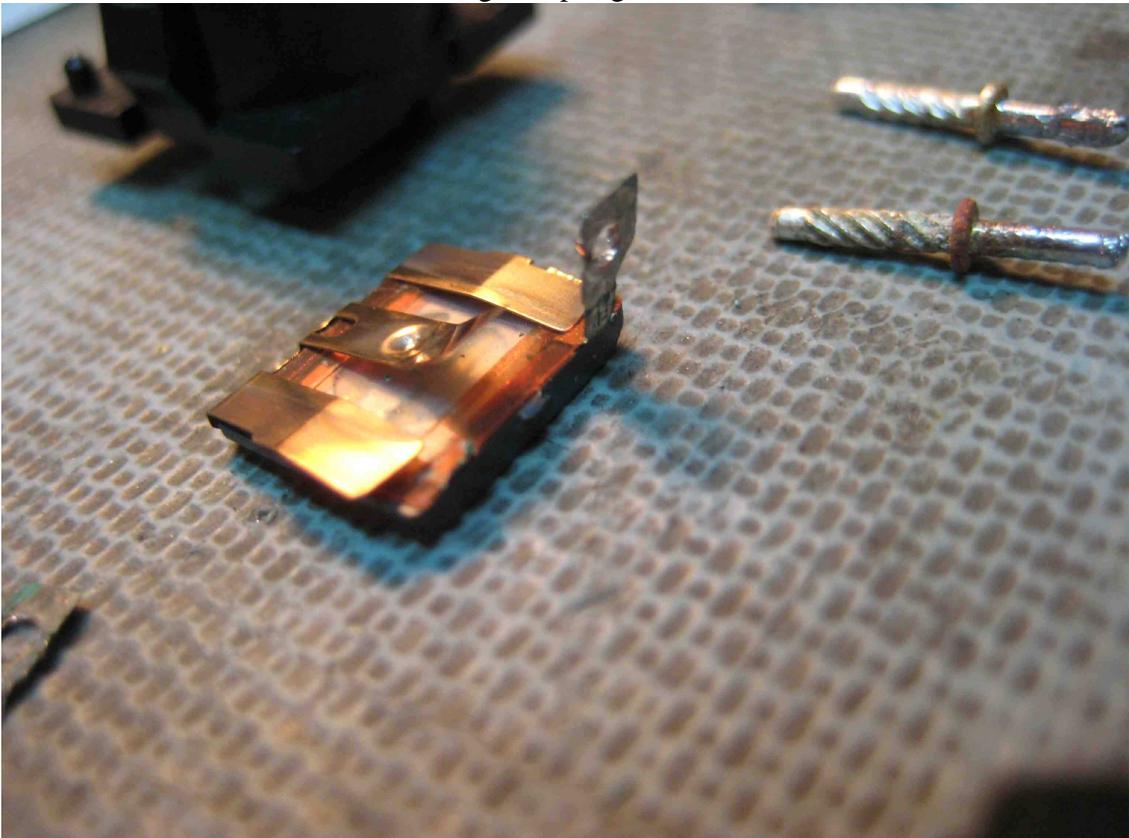
Zoom in for closer examination. See the switch lead broken on the left side? It's remains are right there on the bench below, 1/2 in the photo shot. No points for photography here!



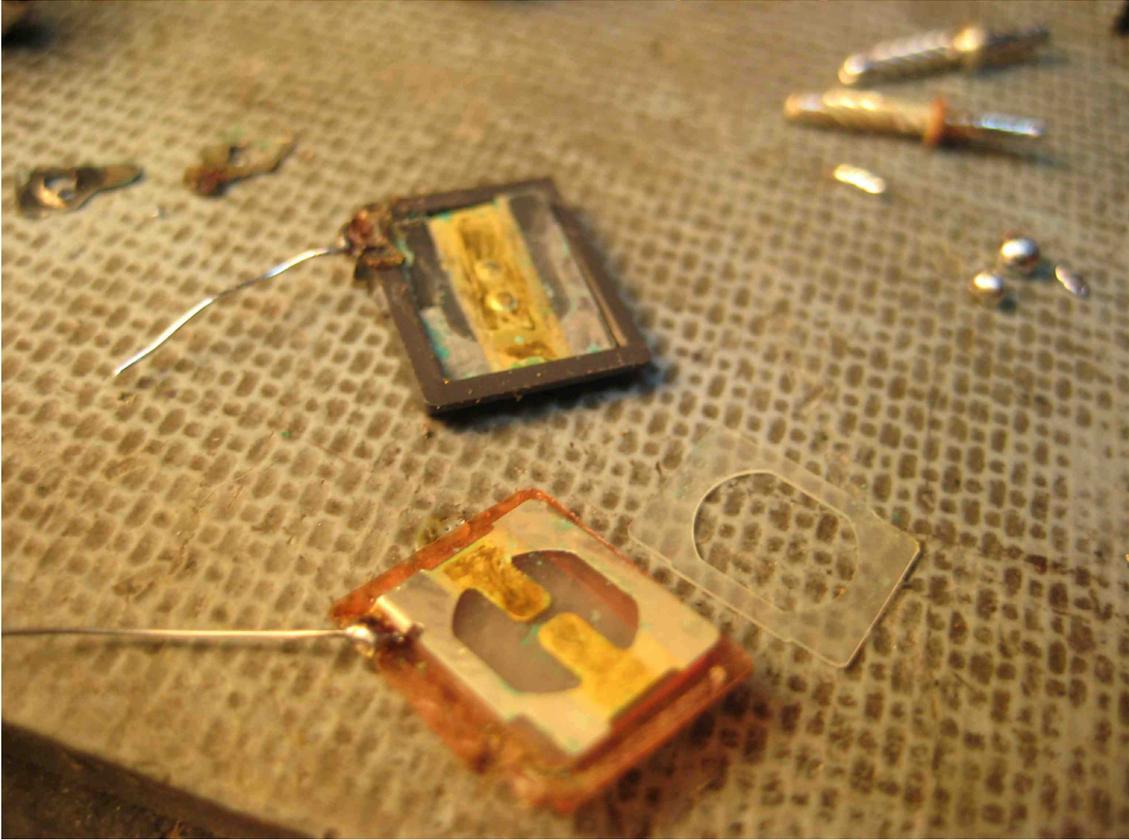
Remove the Switch by pushing the key button slowly.



Here, the switch is out. You are seeing the spring metal actuator, not the contacts.



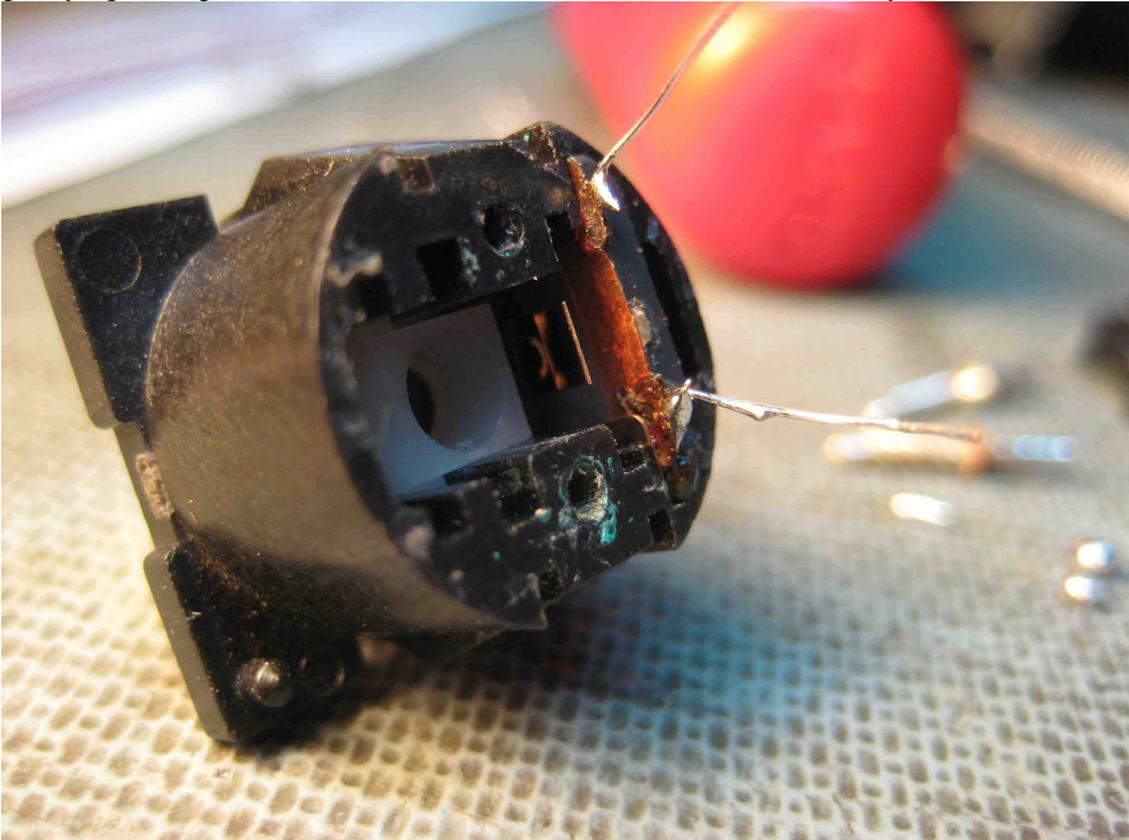
Here are the contacts. I've soldered new leads (30awg Wire Wrap)



Carefully replace the insulator (which was removed to clean the contacts and solder new wires without melting it).



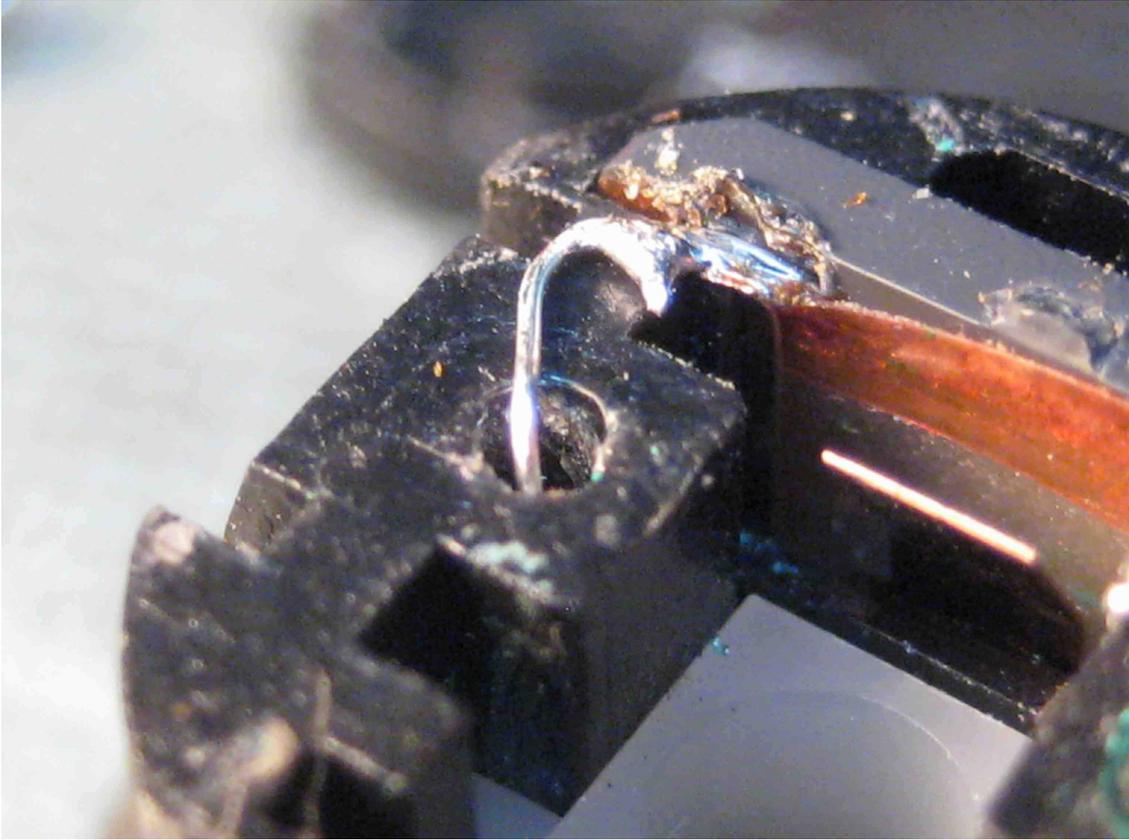
After sandwiching the switch, be sure it gets flat again (melt the solder quickly while gently squeezing the switch flat with a screw driver or tweezers). Test your switch.



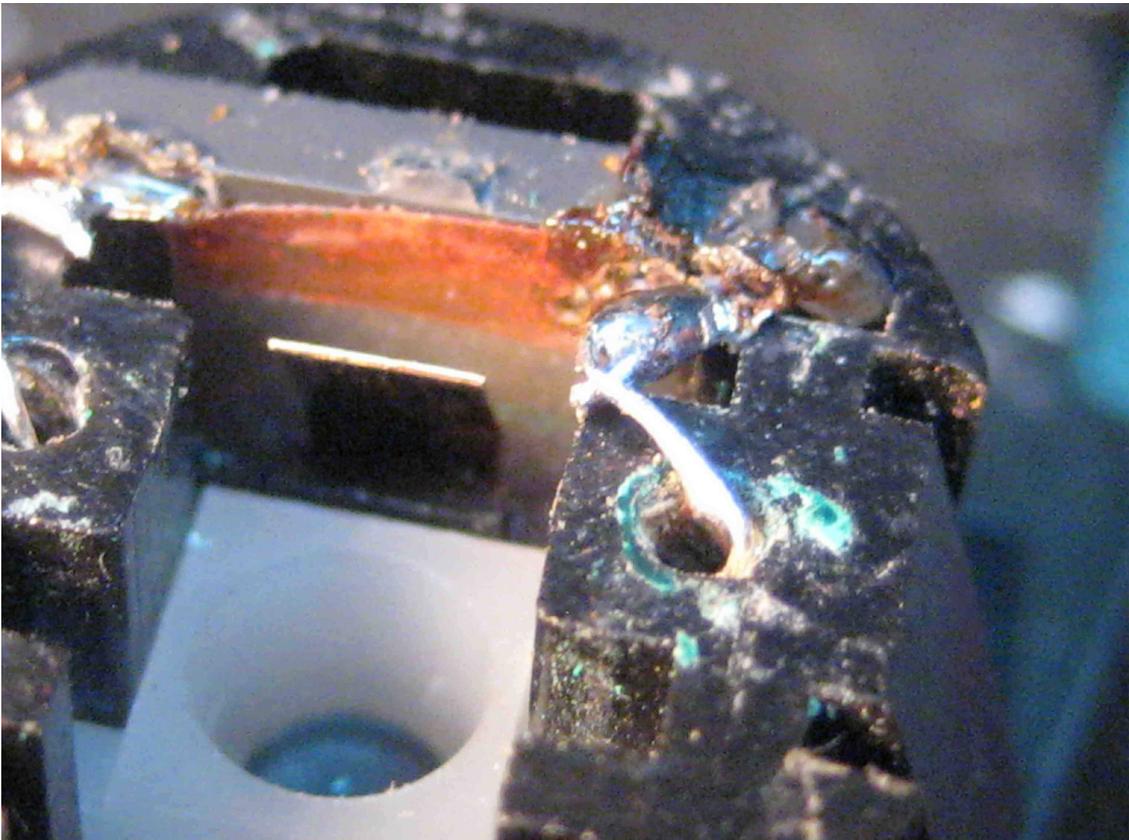
Tuck the new leads into the pin holes for terminal connection.



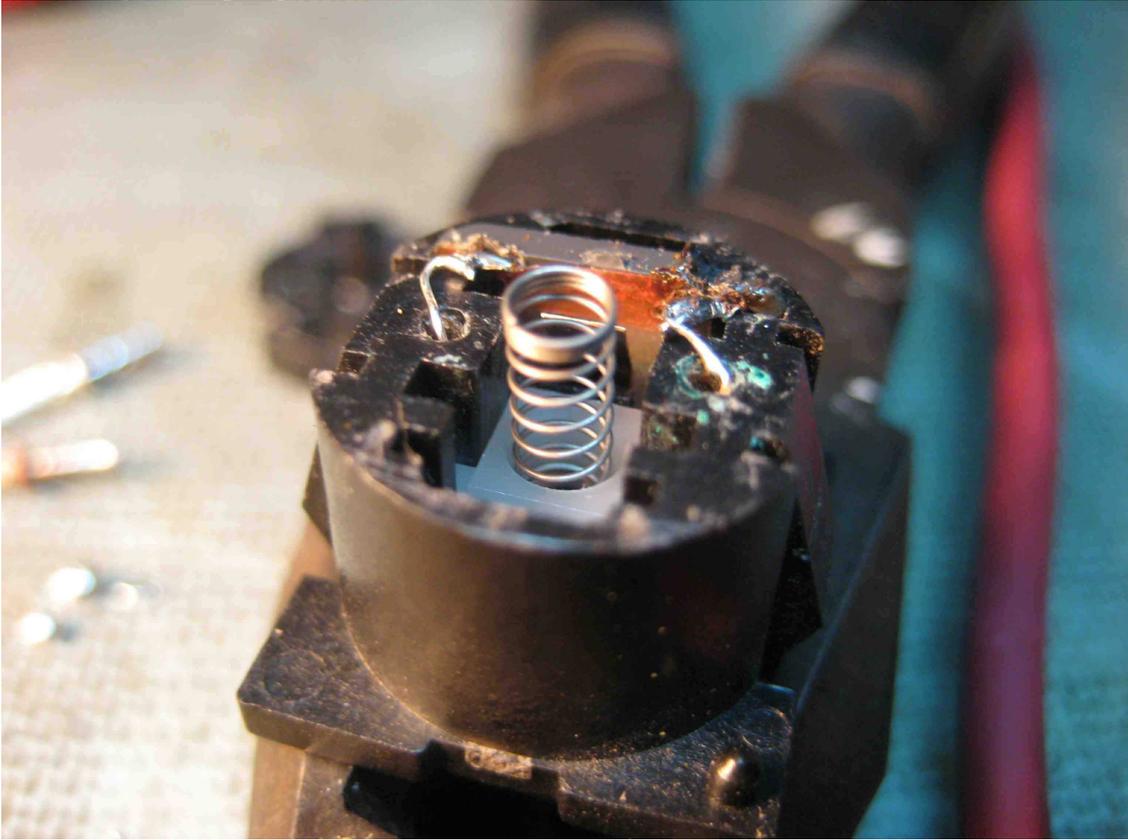
Zoom of wire in the hole.



Other wire.



Don't forget the spring!!



Now, replace the end cap, “screw your terminals” back into place while holding everything together tight. Test your switch and solder it back in place.

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Any comments, updates or recommendations on this paper are welcomed.

Email Josh at:

crustyomo@hotmail.com