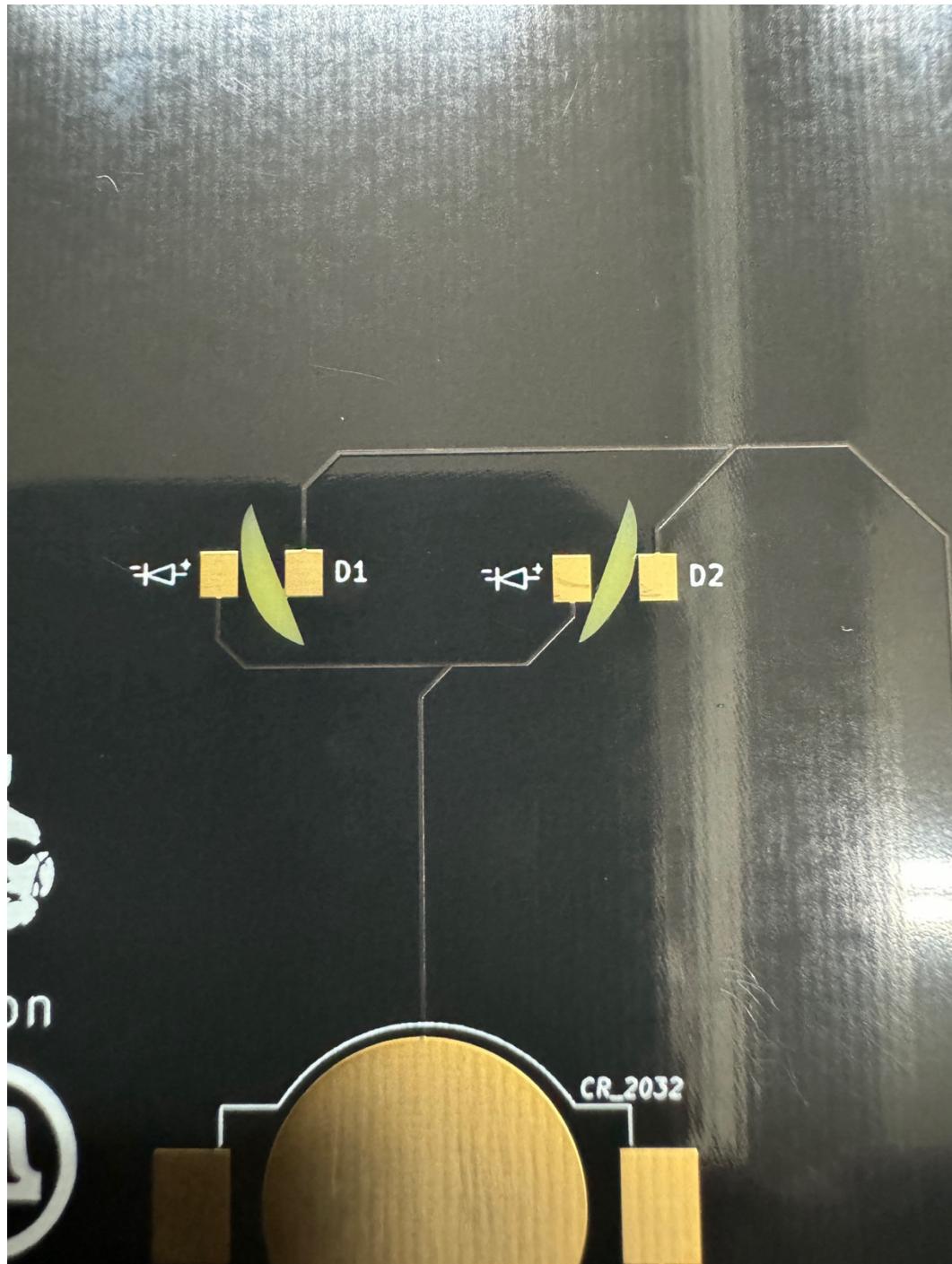


This year's Learn to Solder features both through hole and surface mount components including two blue reverse mount LED's, a CR2032 battery holder and a though hole SPDT slide switch.

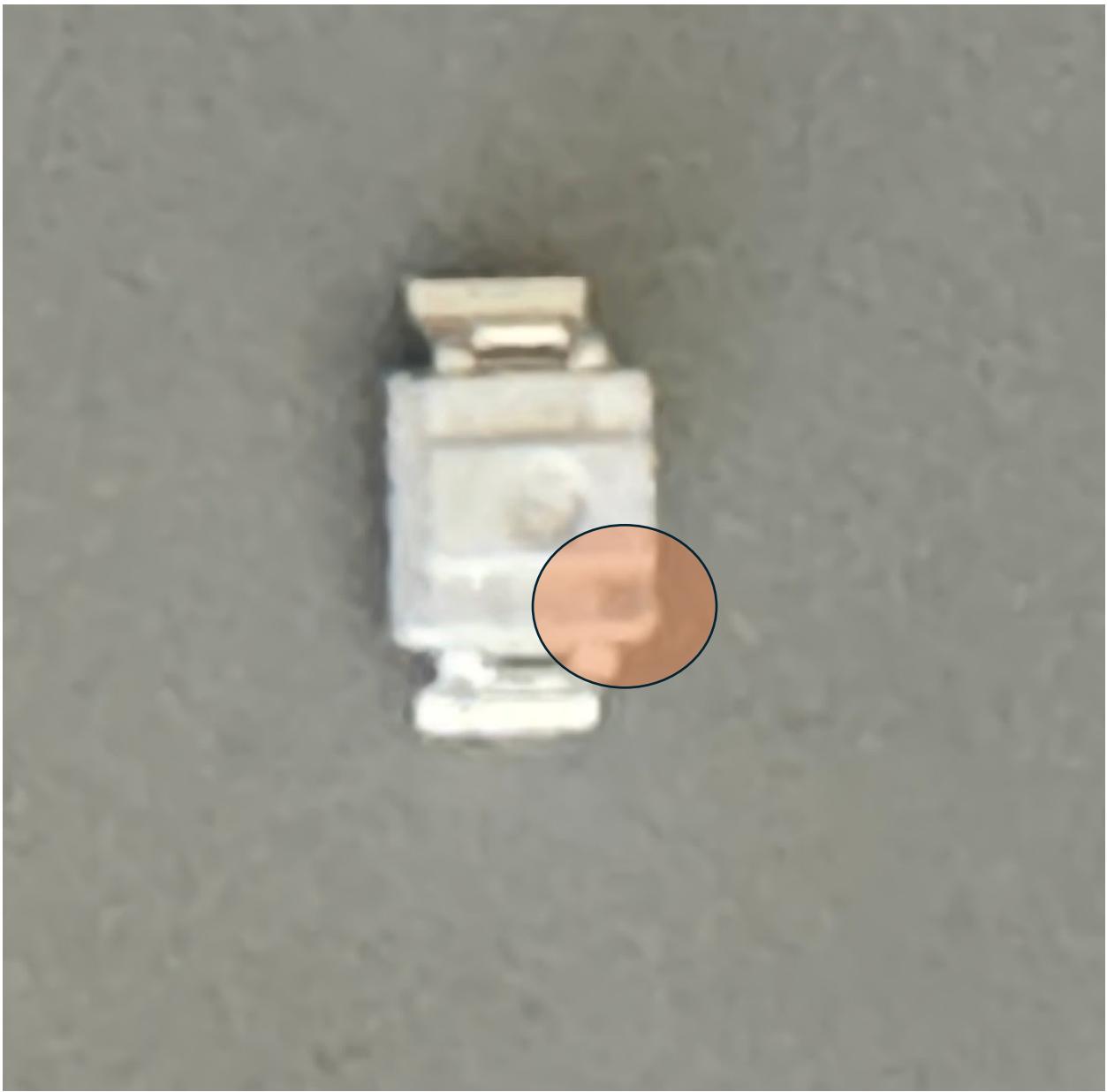
When soldering the surface mount components, you should first add solder to one pad that you will use to 'tack' the part into place. This will not be a good solder joint but is only used to allow you to keep the component in place. Heat the component leg and pad on the other side and let the solder flow creating a good joint. Once that side has cooled (a couple of seconds) go back to the first side and heat the component and pad again and add more solder to ensure a good joint.



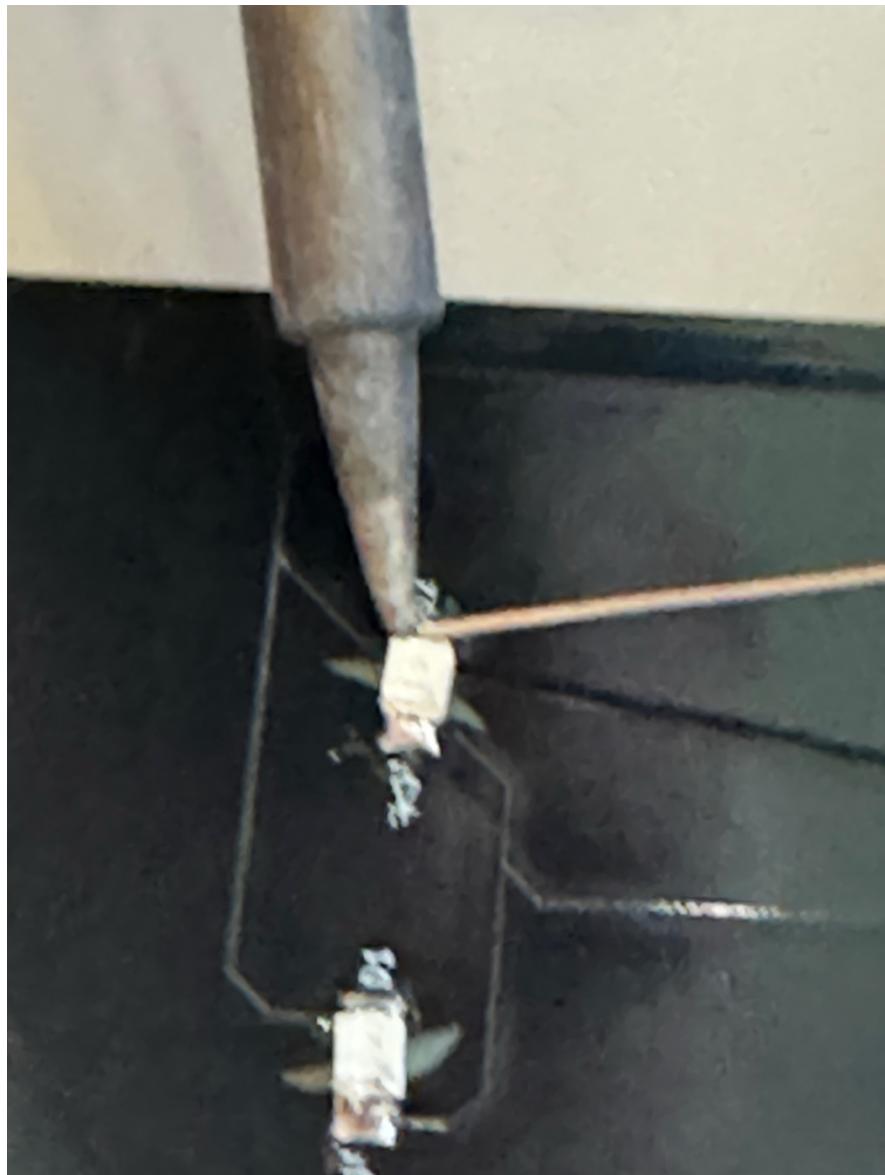
The surface mount components are all on the back side of the PCB

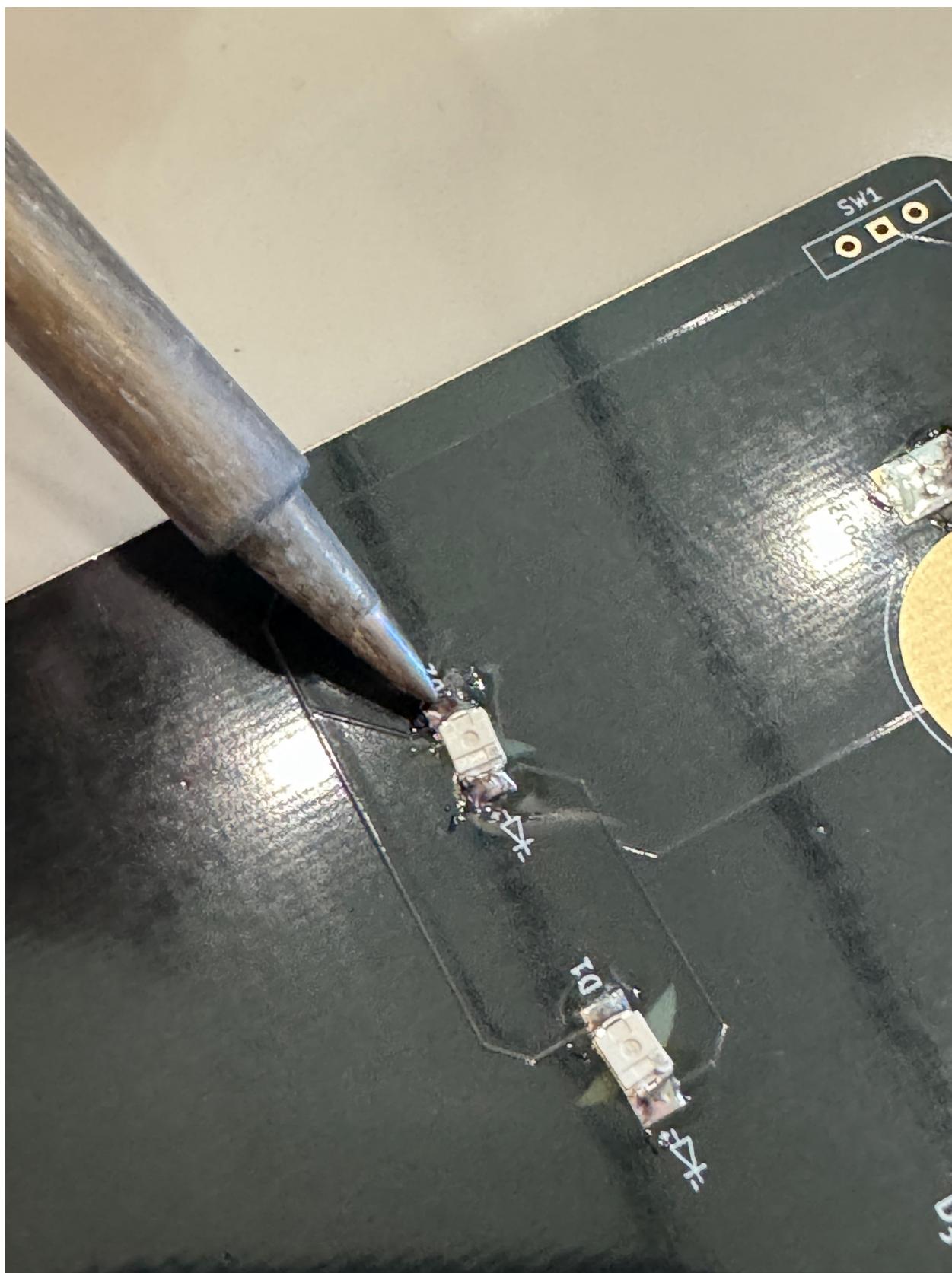


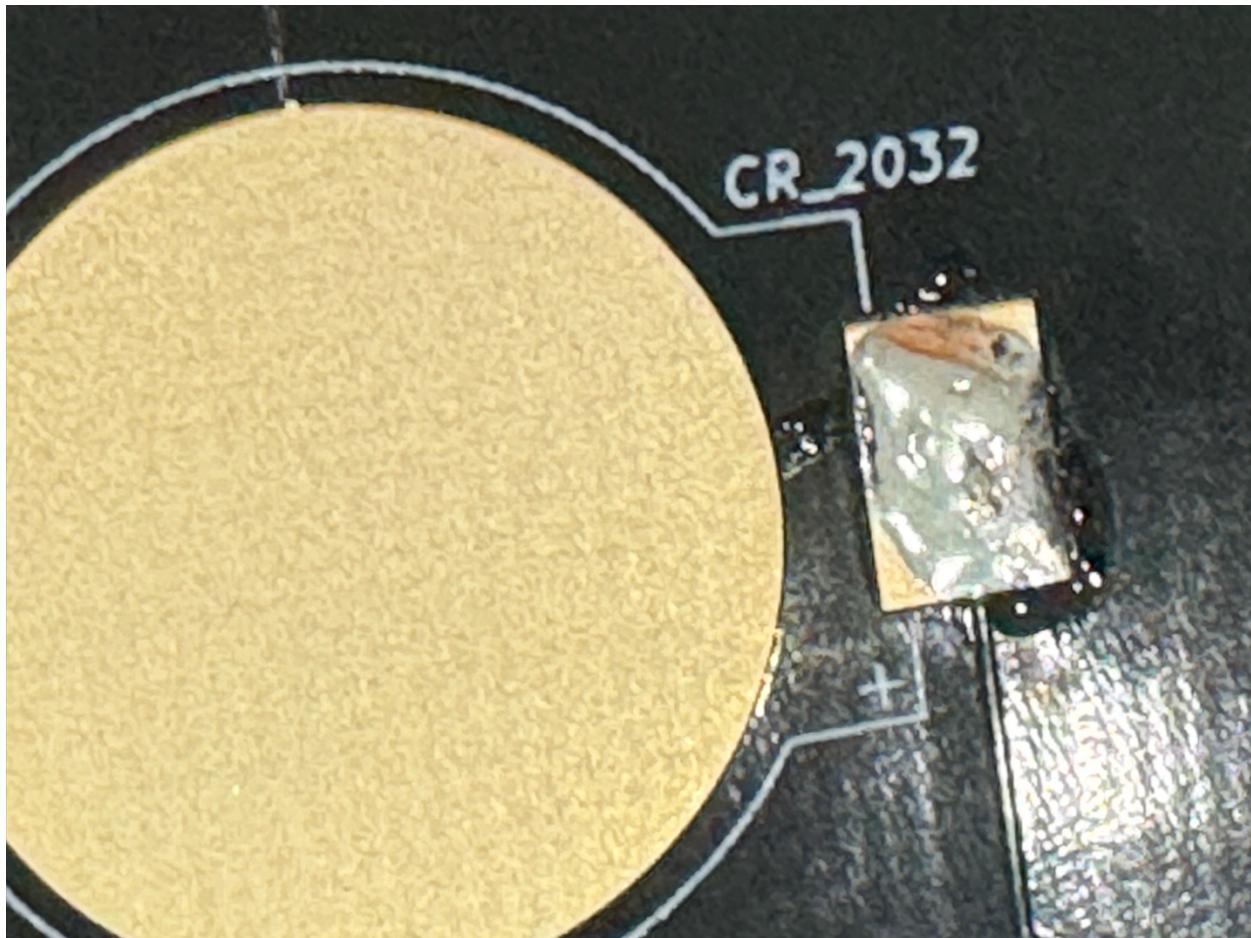
The LEDs go over the eyes on the board and have to be put on with a specific orientation. The 'dot' on the LED is 'ground' or '-' and will go on the left pad when the hole at the top of the led is pointed up.



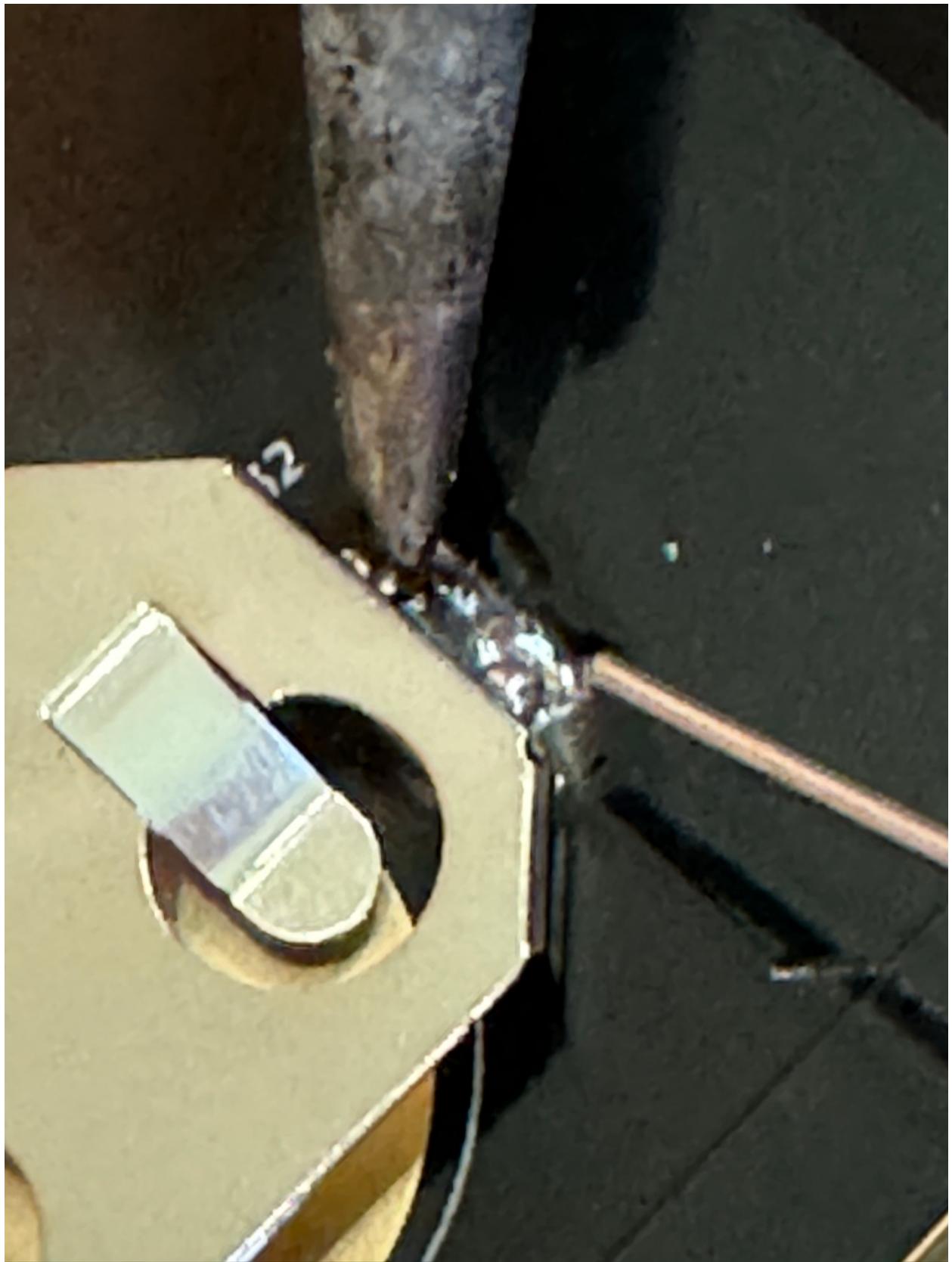


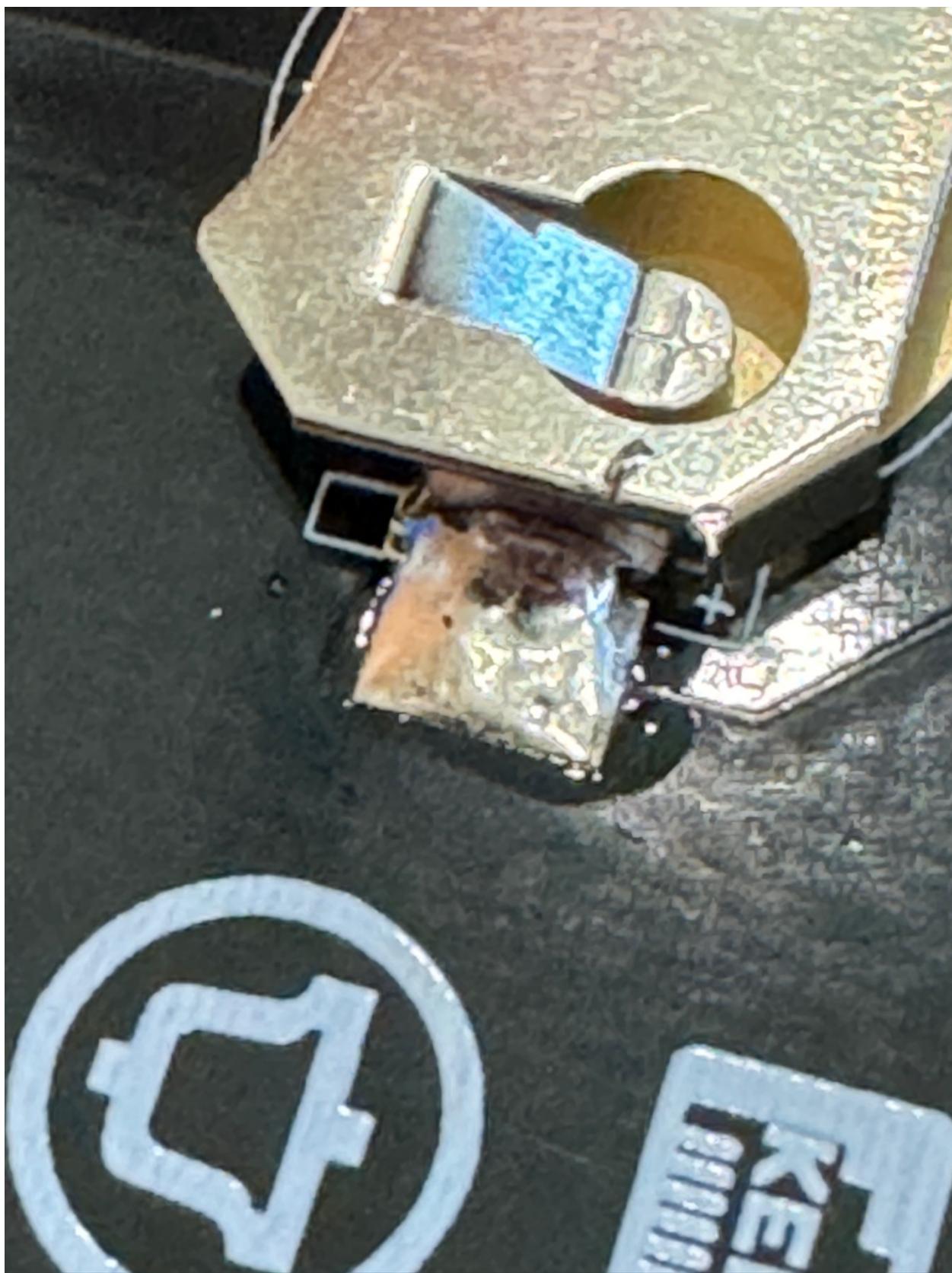






Add solder to one battery connector first





What it should look like with solder on both the pad and the battery holder



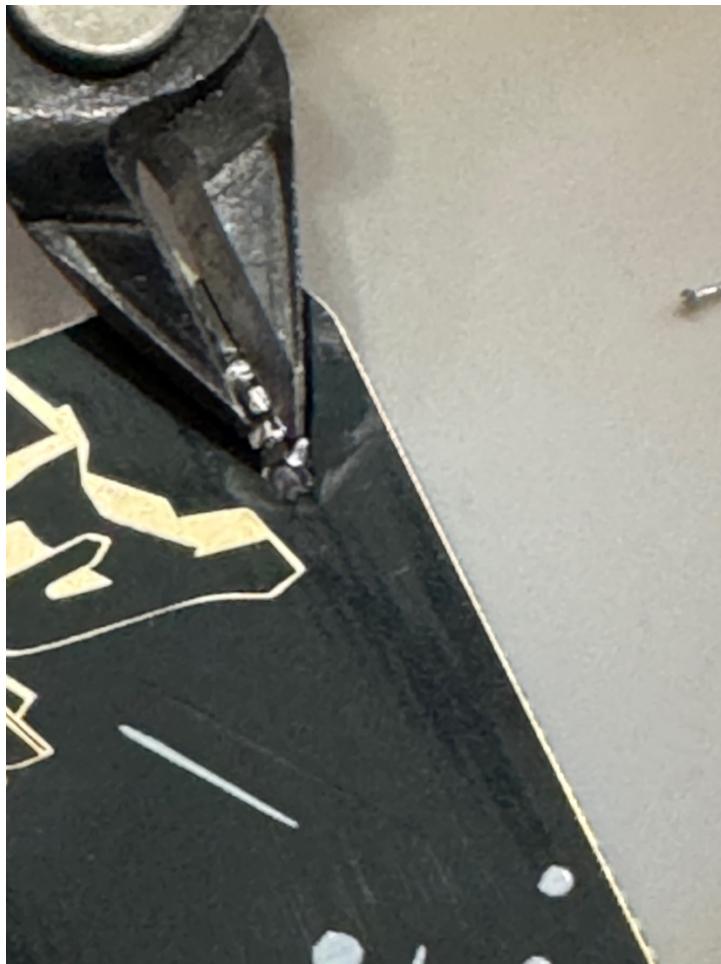
The power switch goes here



Front side



You can put the switch on either side of the board but it is recommended to put it on the back.



Trim the leads with the diagonal cutters but keep your finger on them to prevent them from flying off.





The battery goes in with the plus (positive) side up