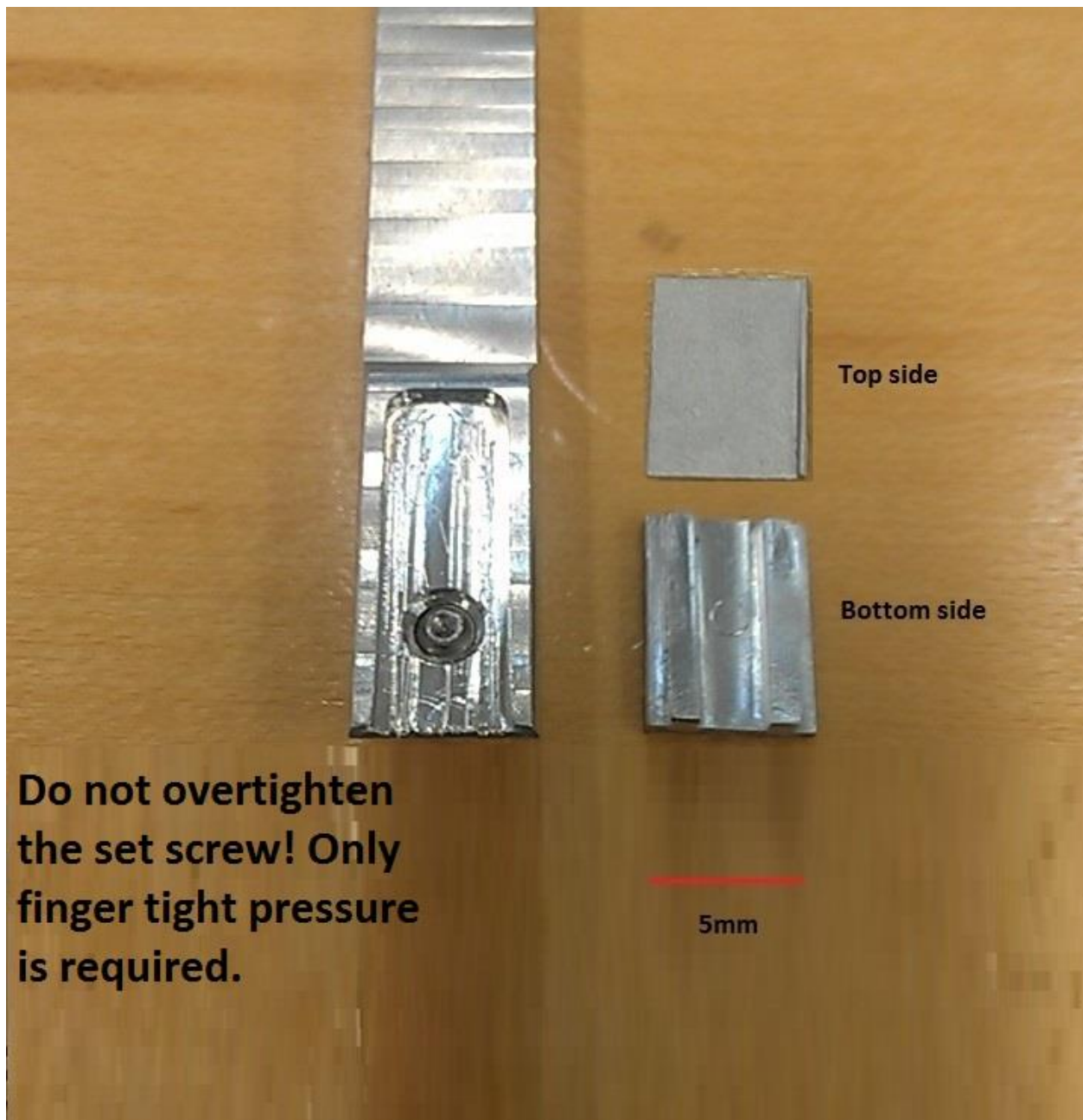


Dovetail Accessory Mounting

W.Sun 1/28/2019

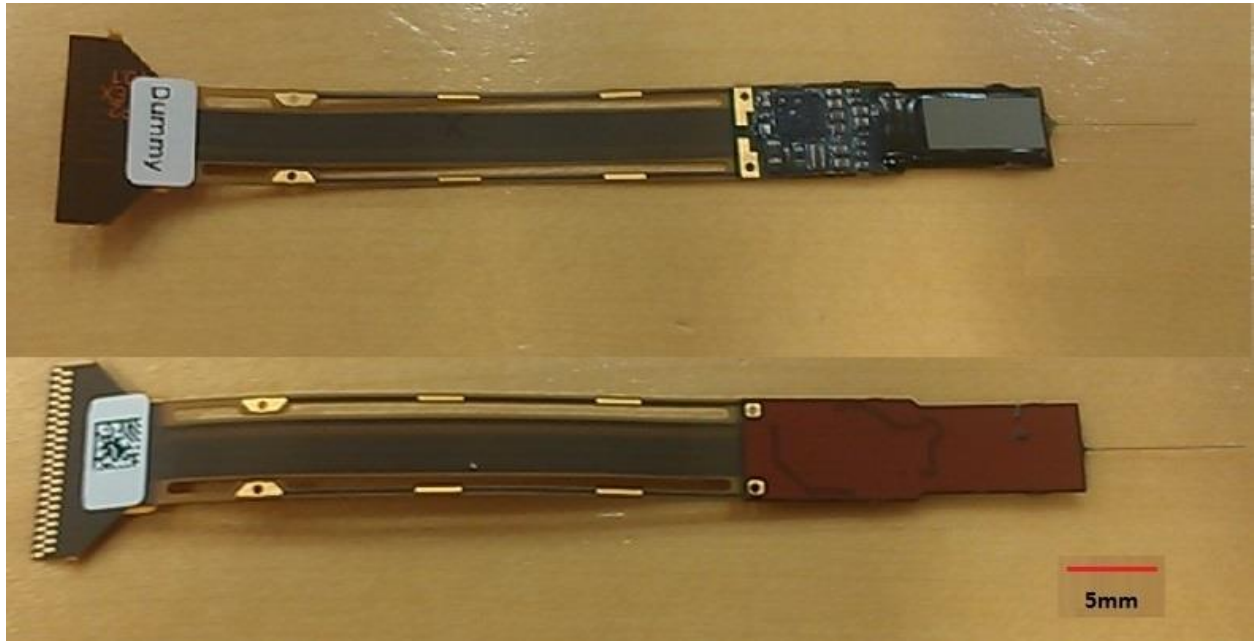


Top and bottom surface of the part to be attached to the "back side" of the 3B probe, opposite of components.

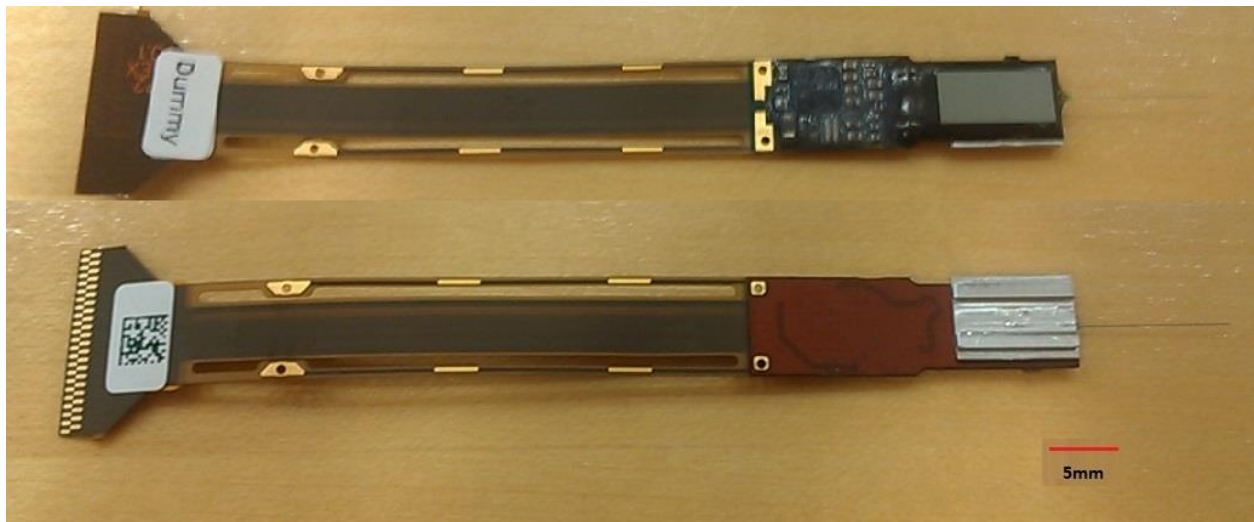


The mounting rod (above), and the dovetail cap (below), mounted on the rod without a probe





A Neuropixels probe, component surface (the side with sites) and the reverse surface, where the dove tail adapter is mounted.



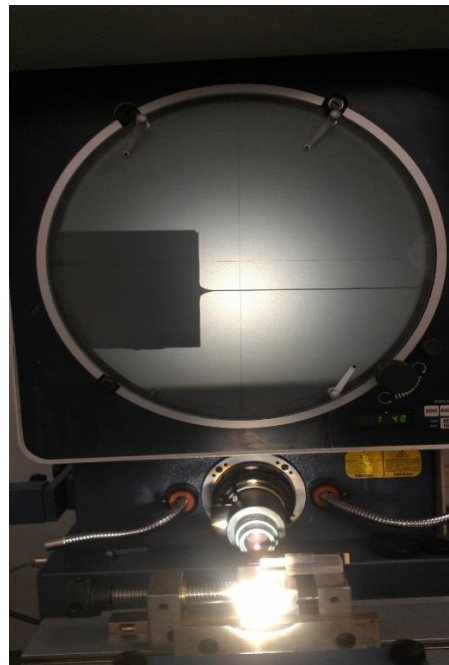
The dovetail attached to the probe

We glue to the bottom flat surface for 3B probes. Our dovetail caps have one alignment ridge, however this does not always guarantee parallel alignment because of imperfections along the probe edges.

Therefore, we use a Mitutoyo Profile Projector Machine PH-3500.



Dovetail pieces are aligned parallel with the electrode shank, and glued with cyanoacrylate gel type Krazy Glue (Part KG866).



For best adhesion, a sandblaster is used to roughen the surface of the caps, and both surfaces are cleaned with IPA before gluing. The probe is temporarily affixed to a movable fixture, then placed onto the profile machine. The dovetail cap is fixed to the rod to permit handling and positioning during the gluing process. Total thickness: 2.1mm