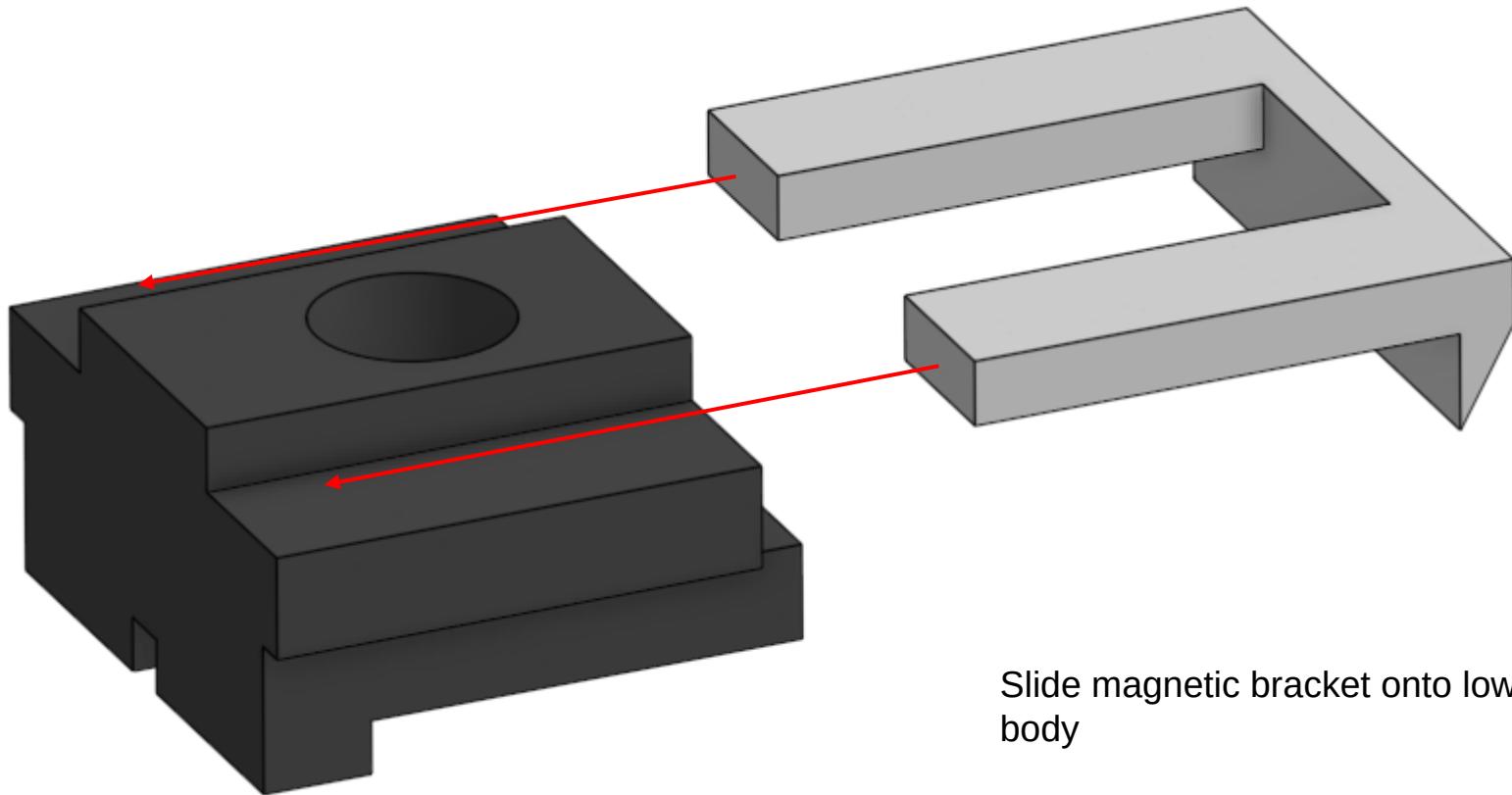
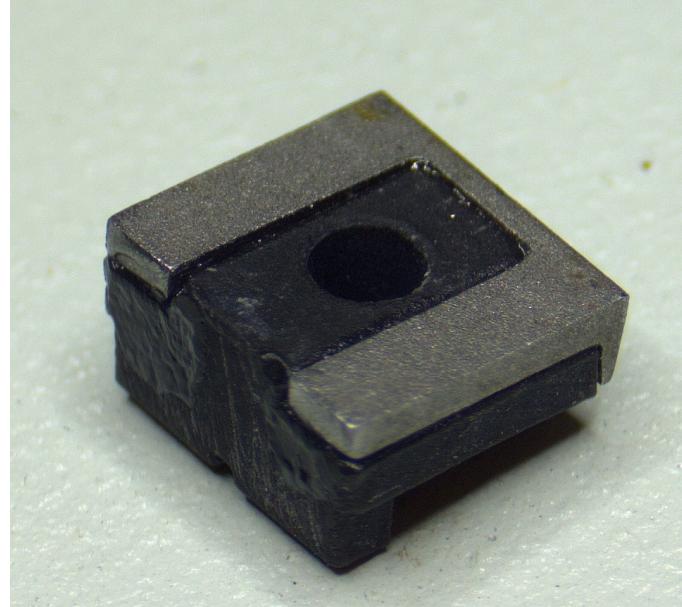
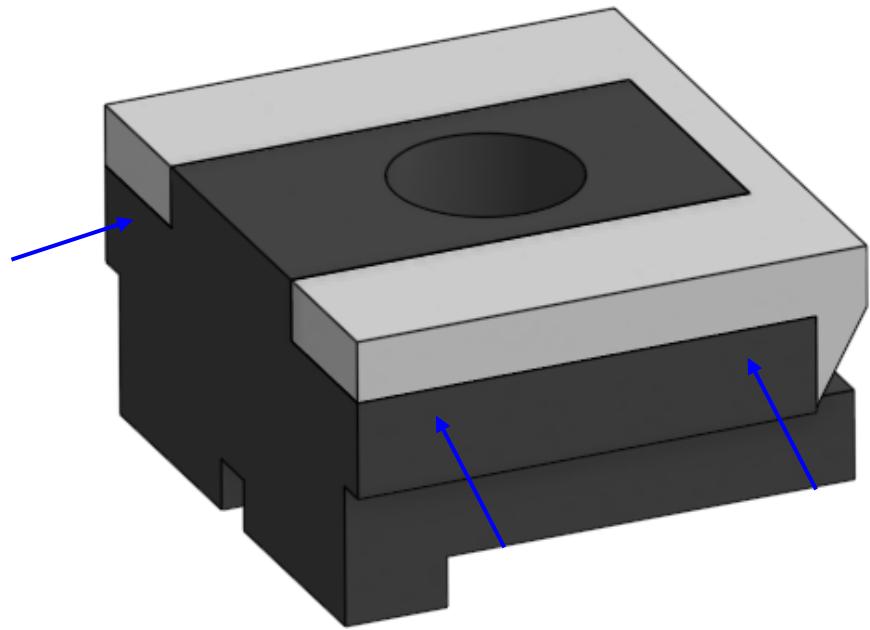


Featherscope assembly

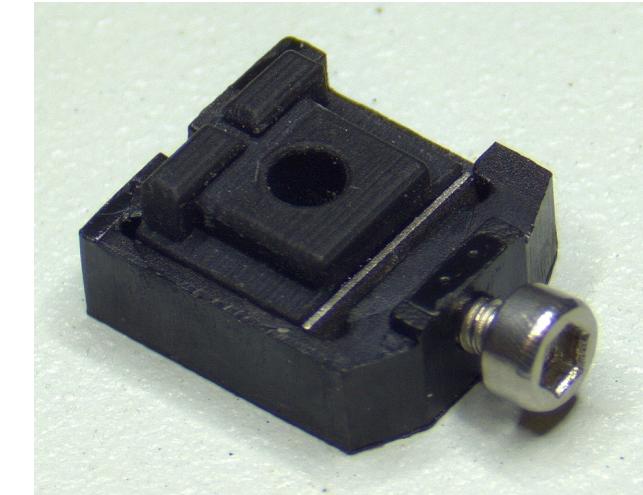
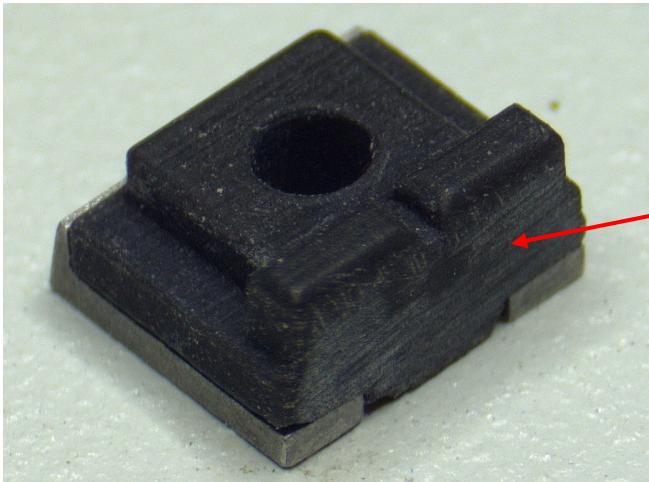


Slide magnetic bracket onto lower body

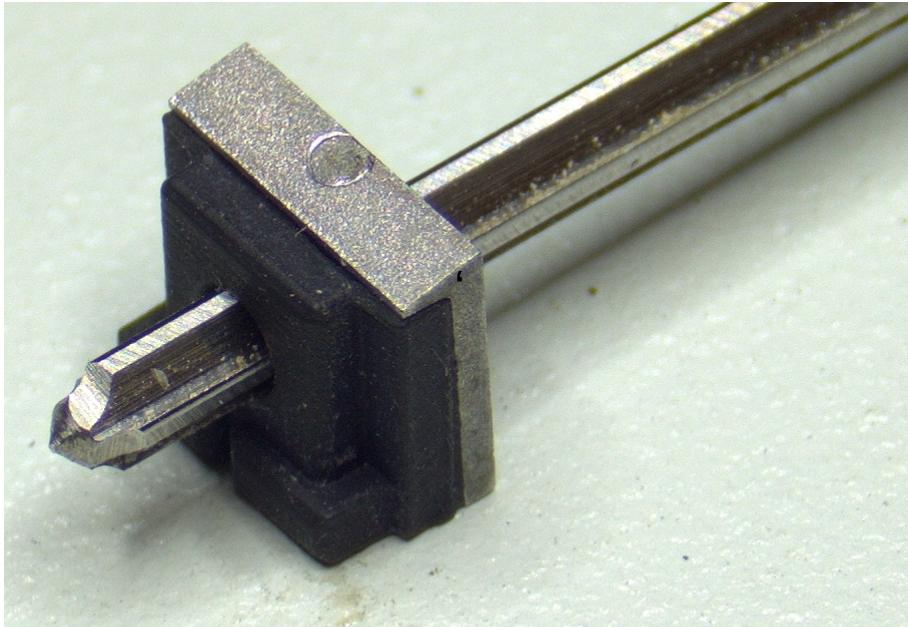


Apply cyanoacrylate glue to
interface

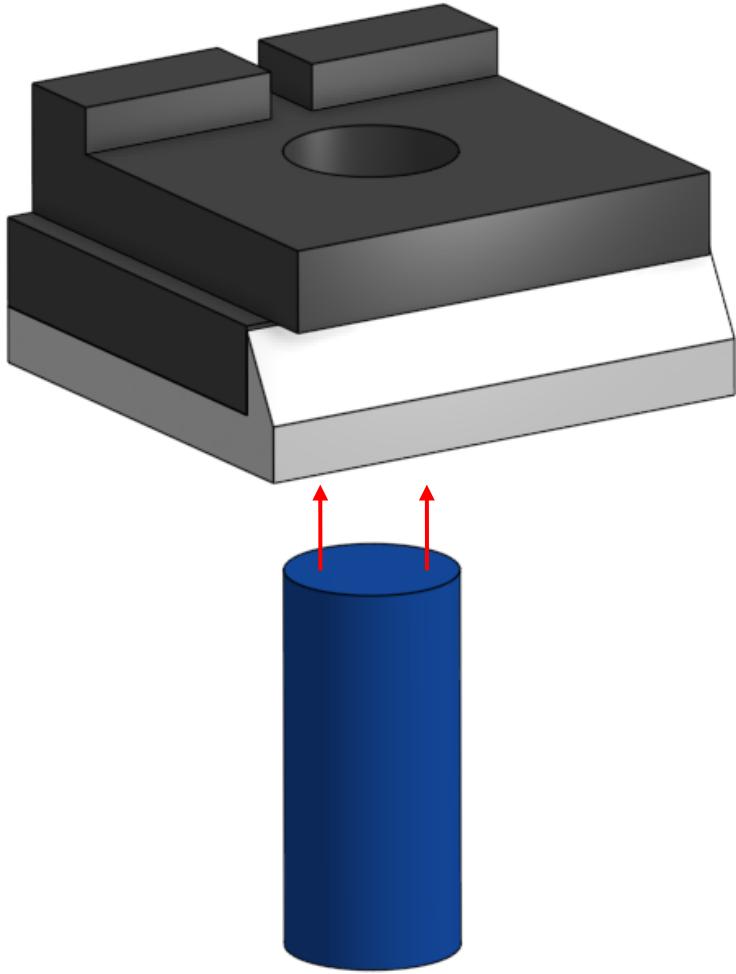
Insert into baseplate to confirm fit



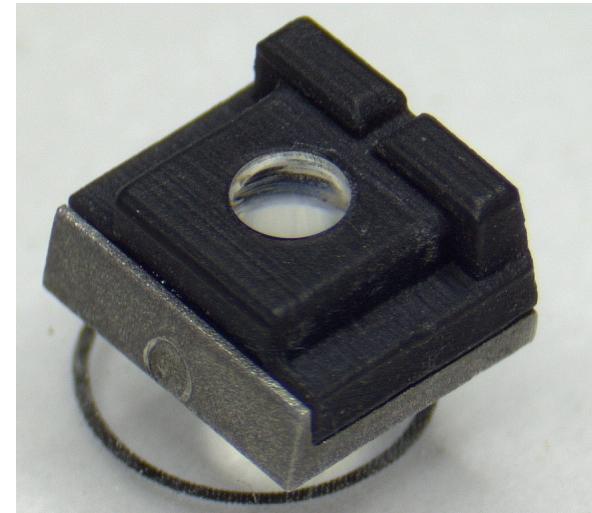
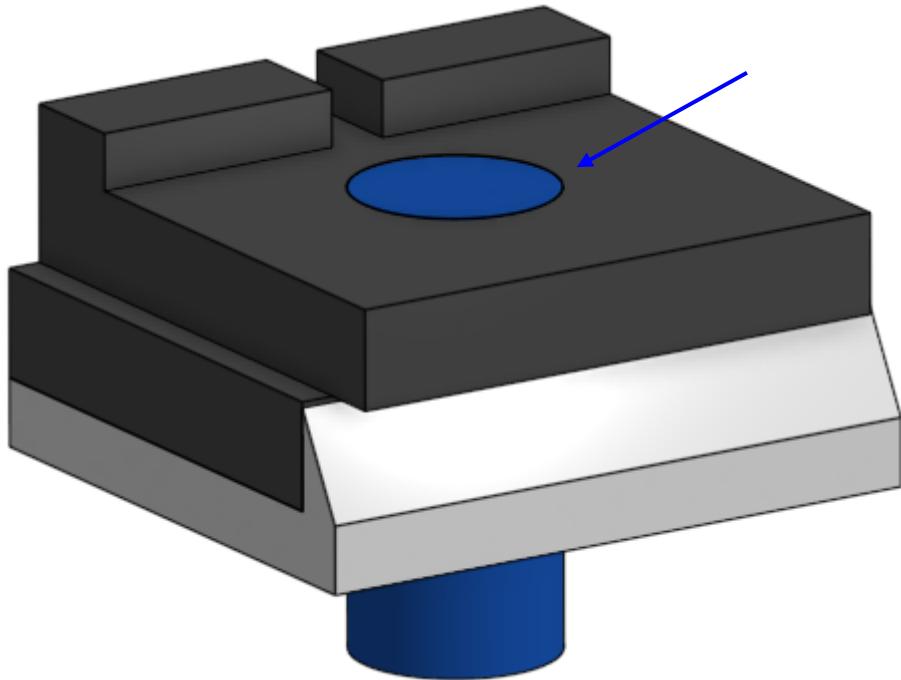
If assembly doesn't snap in
easily, file down back side until it
does



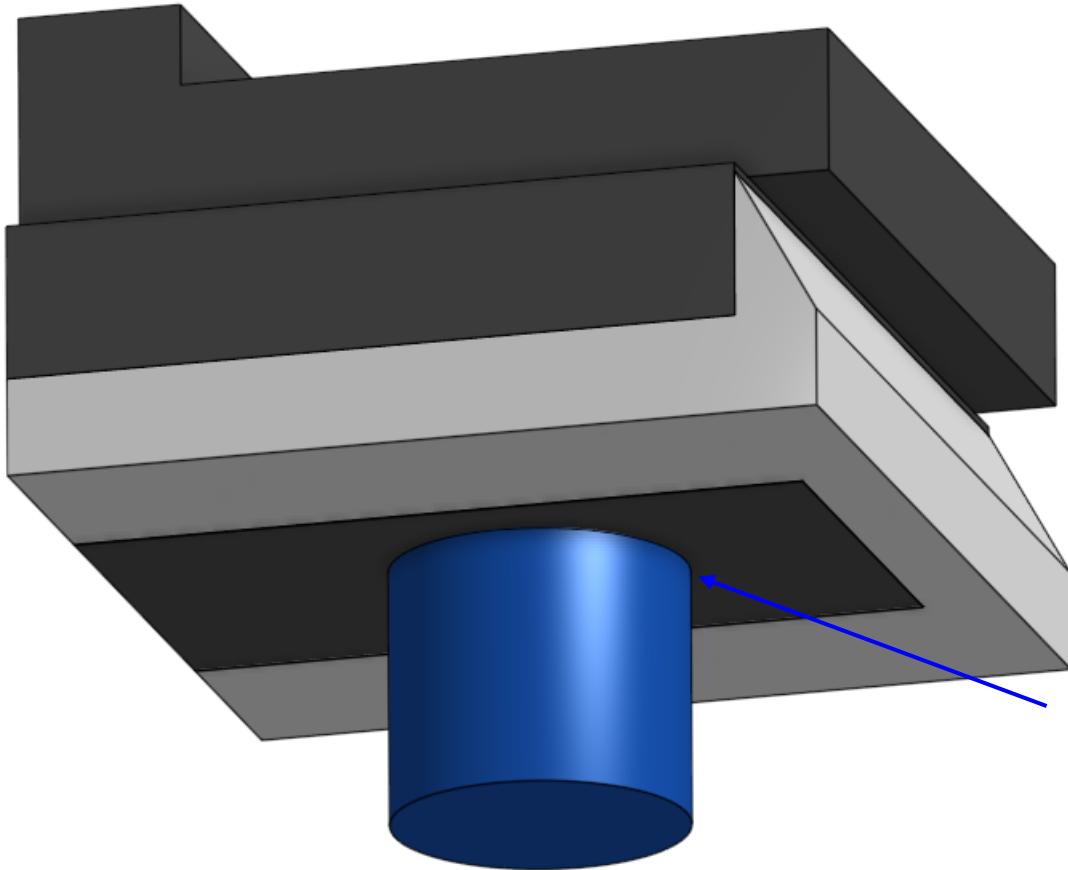
ream objective mounting hole with 0.0710" reamer



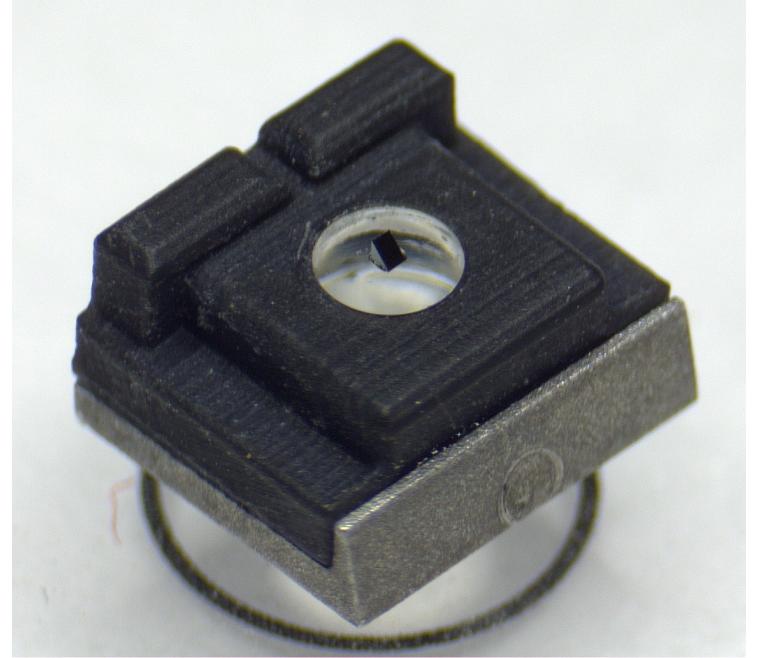
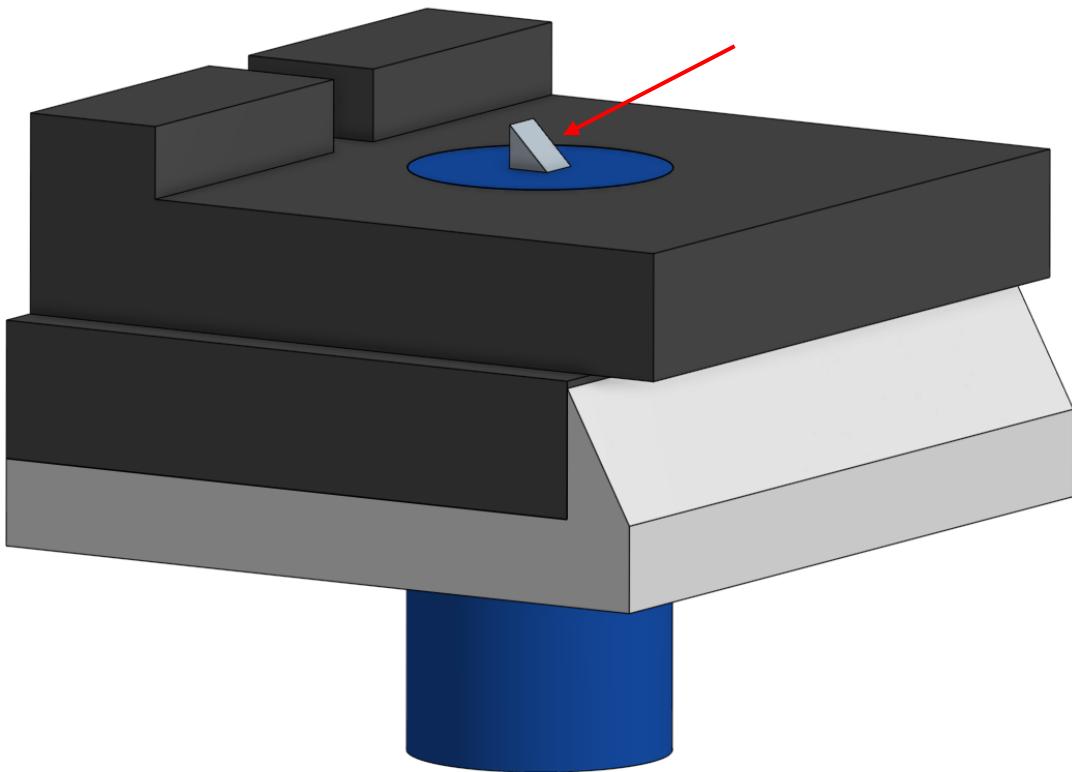
Insert objective lens into lower
subassembly



Push objective into body until top
faces of lens and body are flush

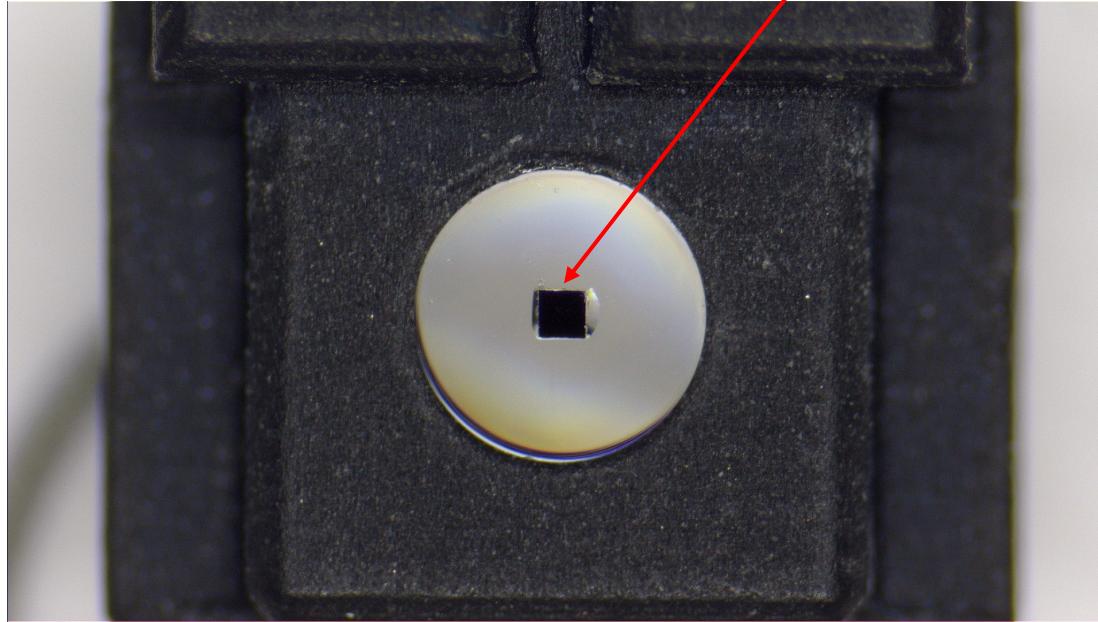


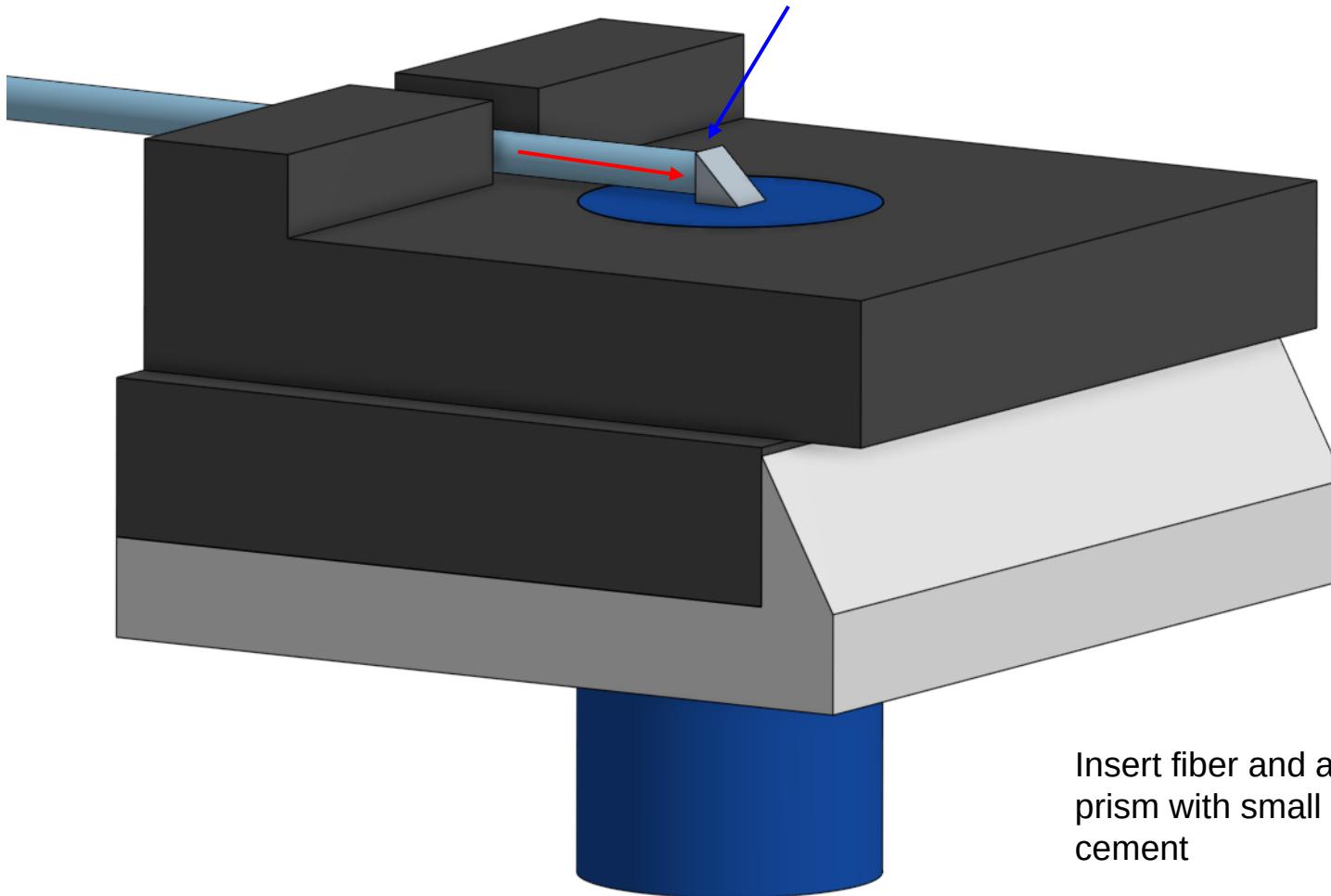
Apply 61 cement around interface



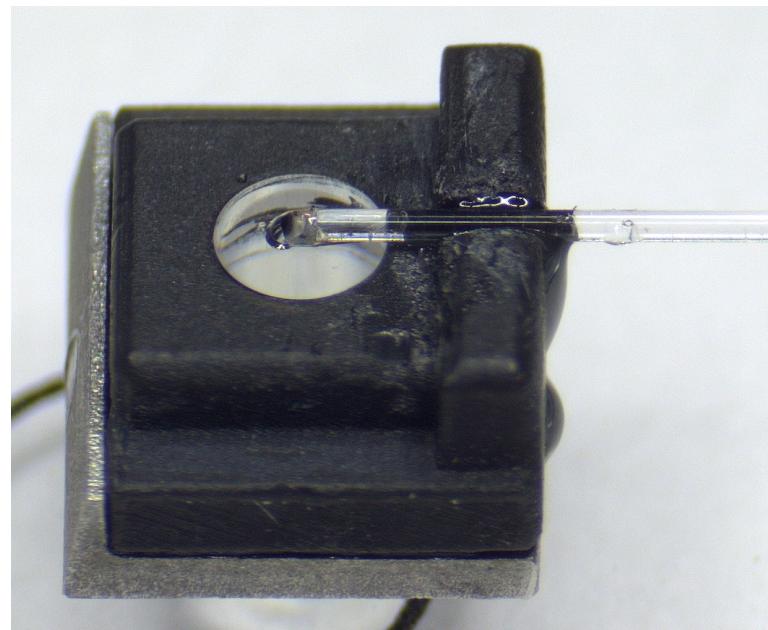
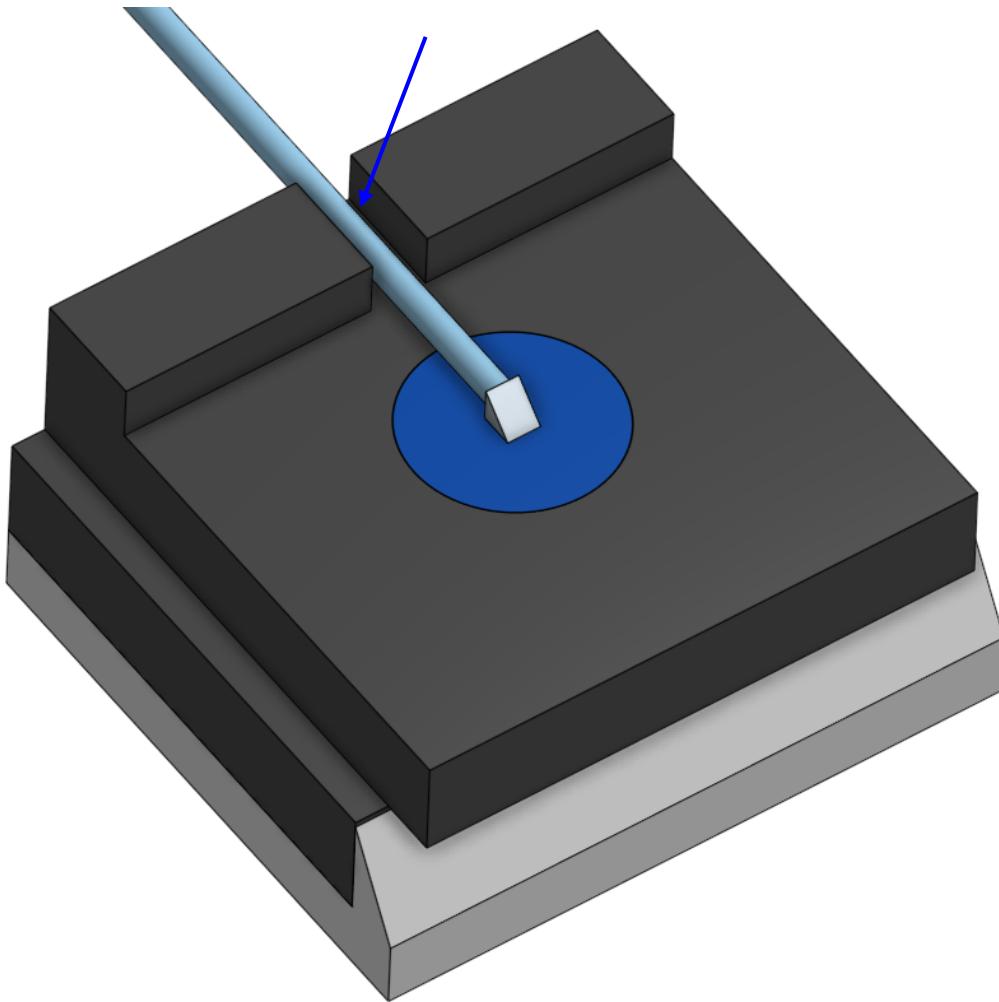
Attach prism with small amount of 61 cement. Push down on prism to ensure flat contact with lens.

Slice off optical cement meniscus on input face of prism

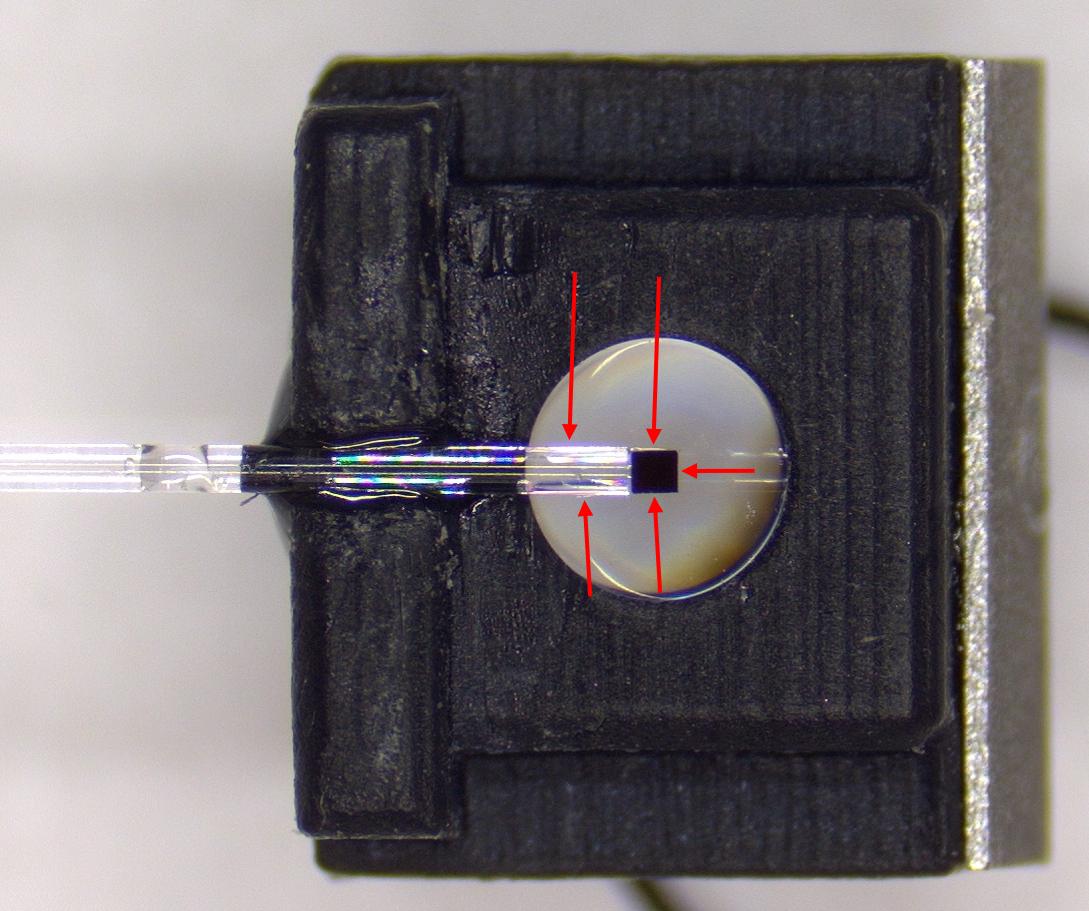




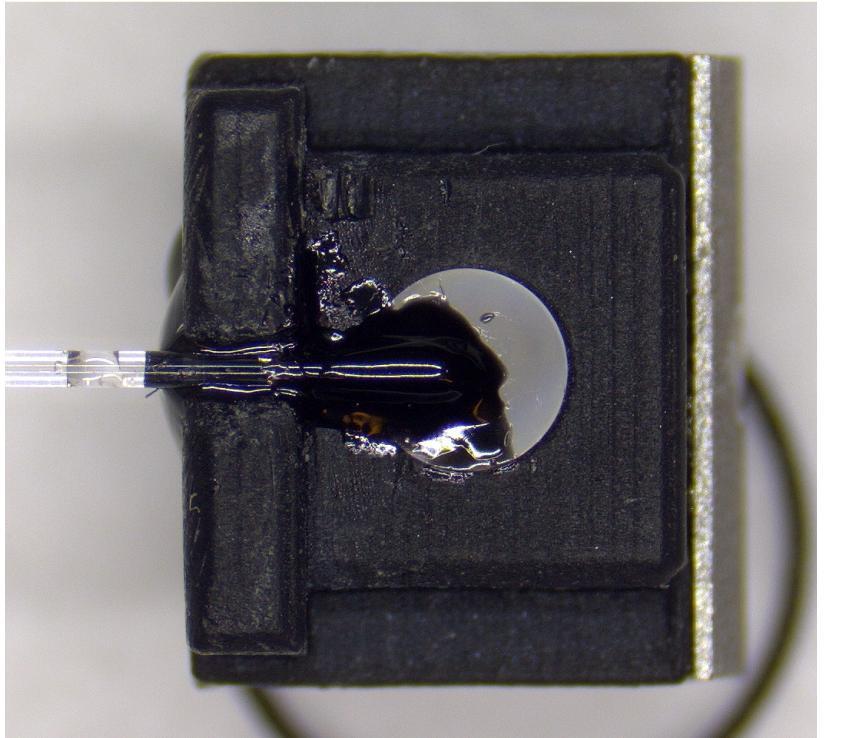
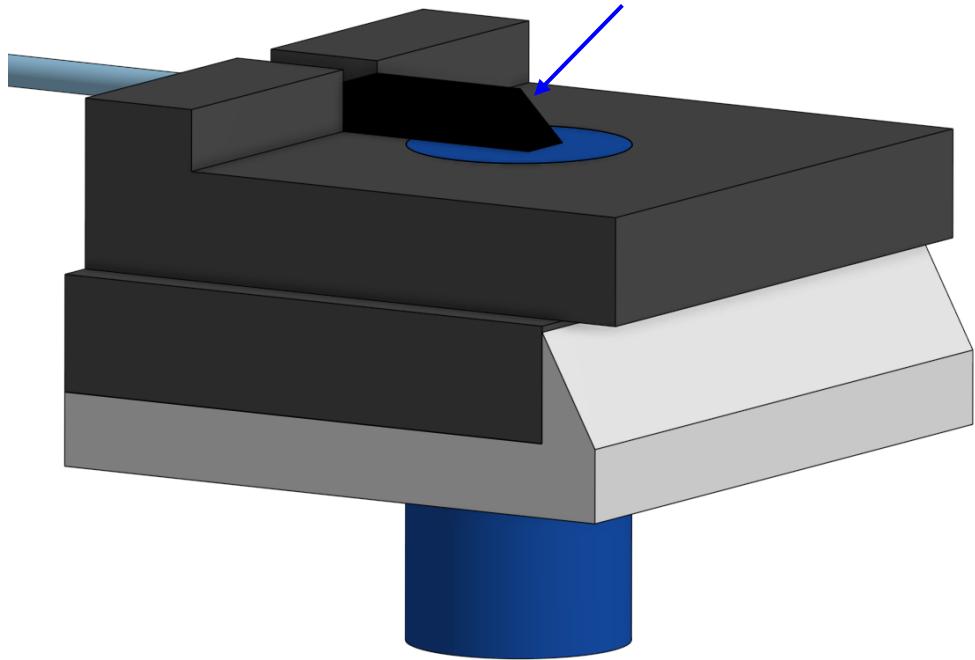
Insert fiber and attach fiber face to
prism with small amount of 61
cement



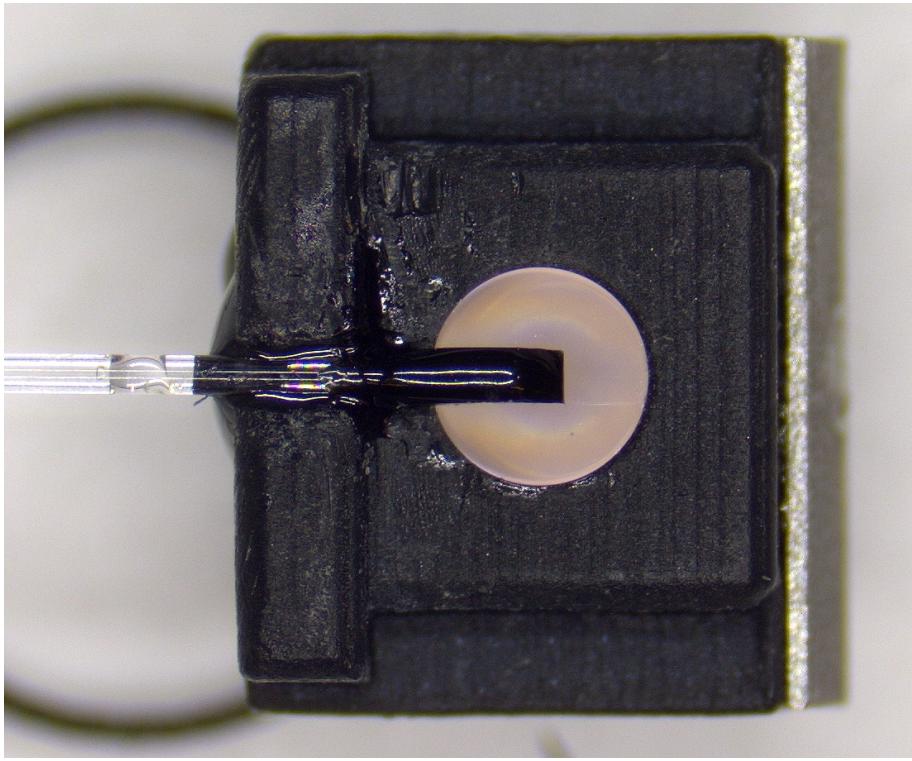
Secure fiber to body using 63
cement applied to notch



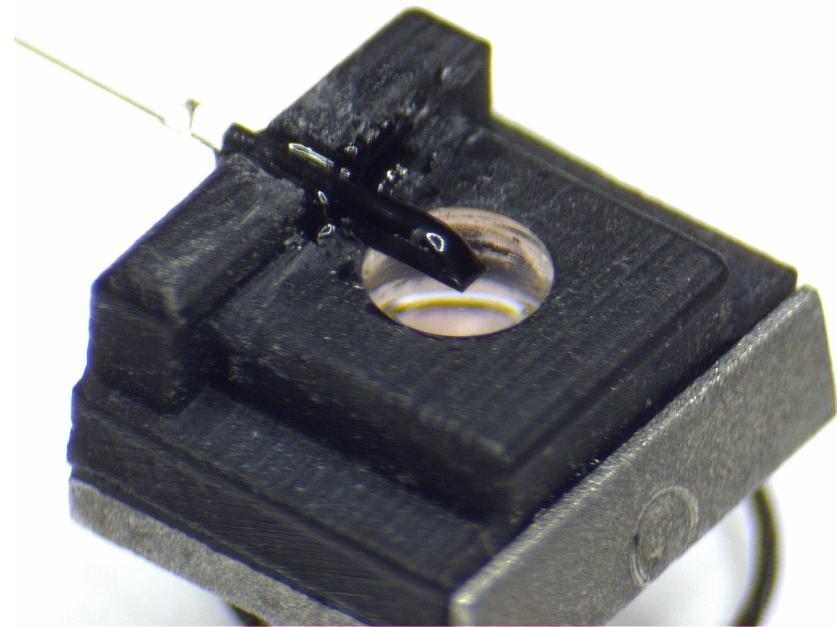
Slice off optical cement
meniscus on outer edges
of prism and along fiber,
taking care not to nick fiber

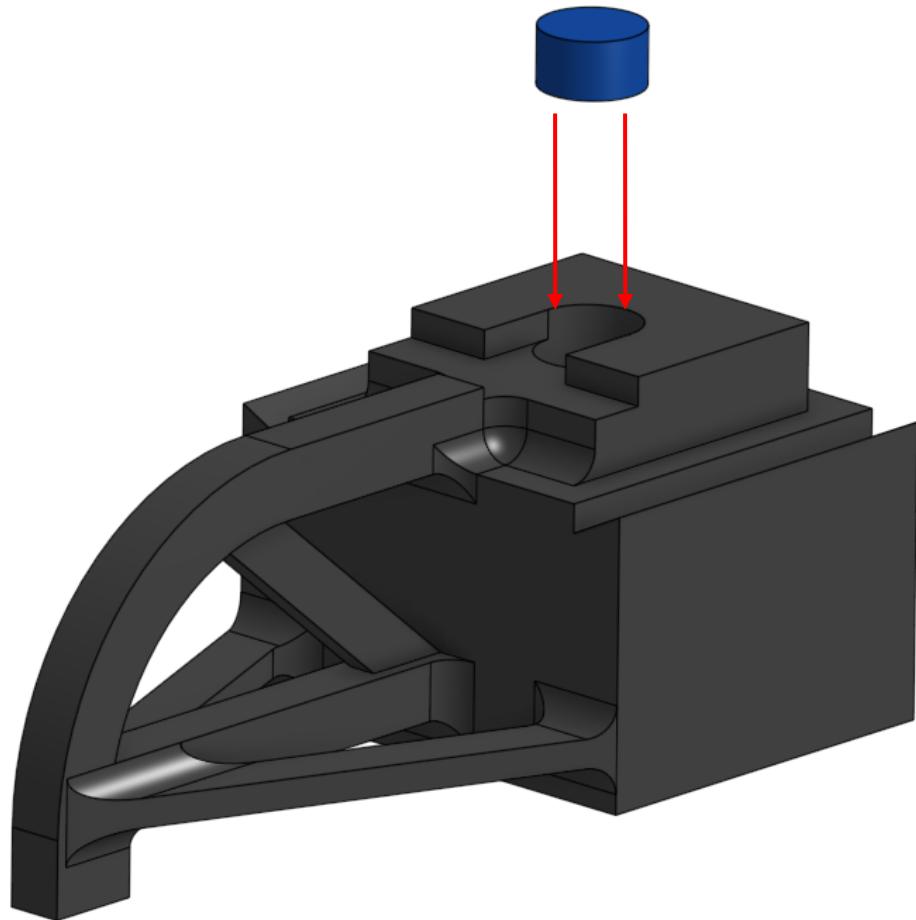


Cover prism-fiber assembly using nail polish

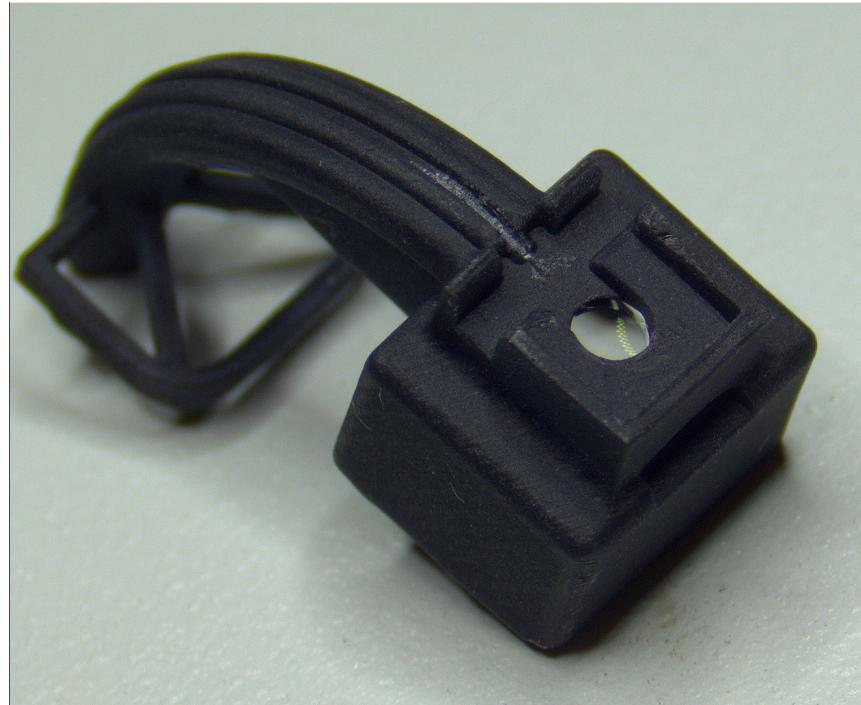
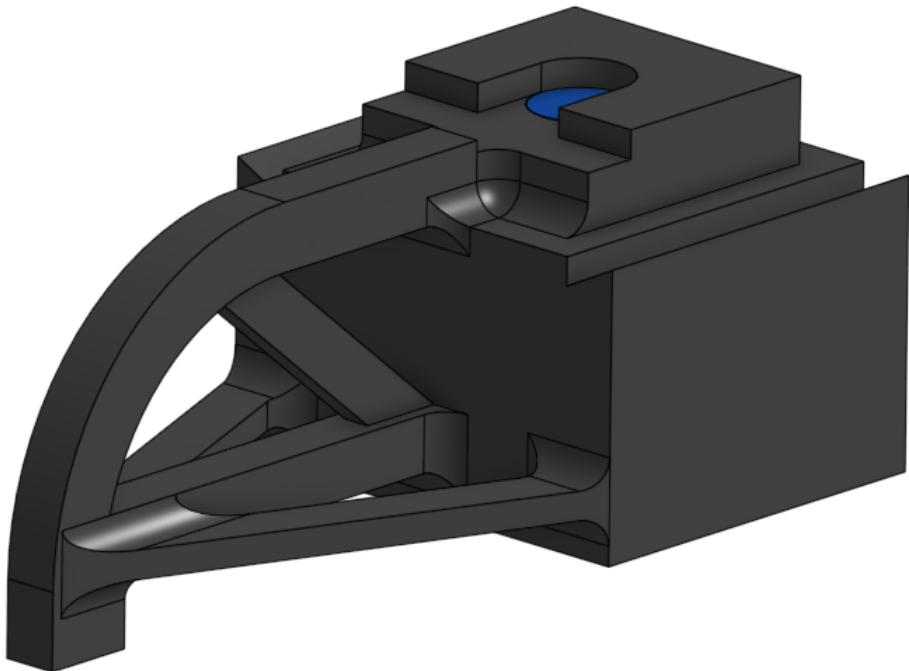


Trim away nail polish
using scalpel, leaving
500 microns of width

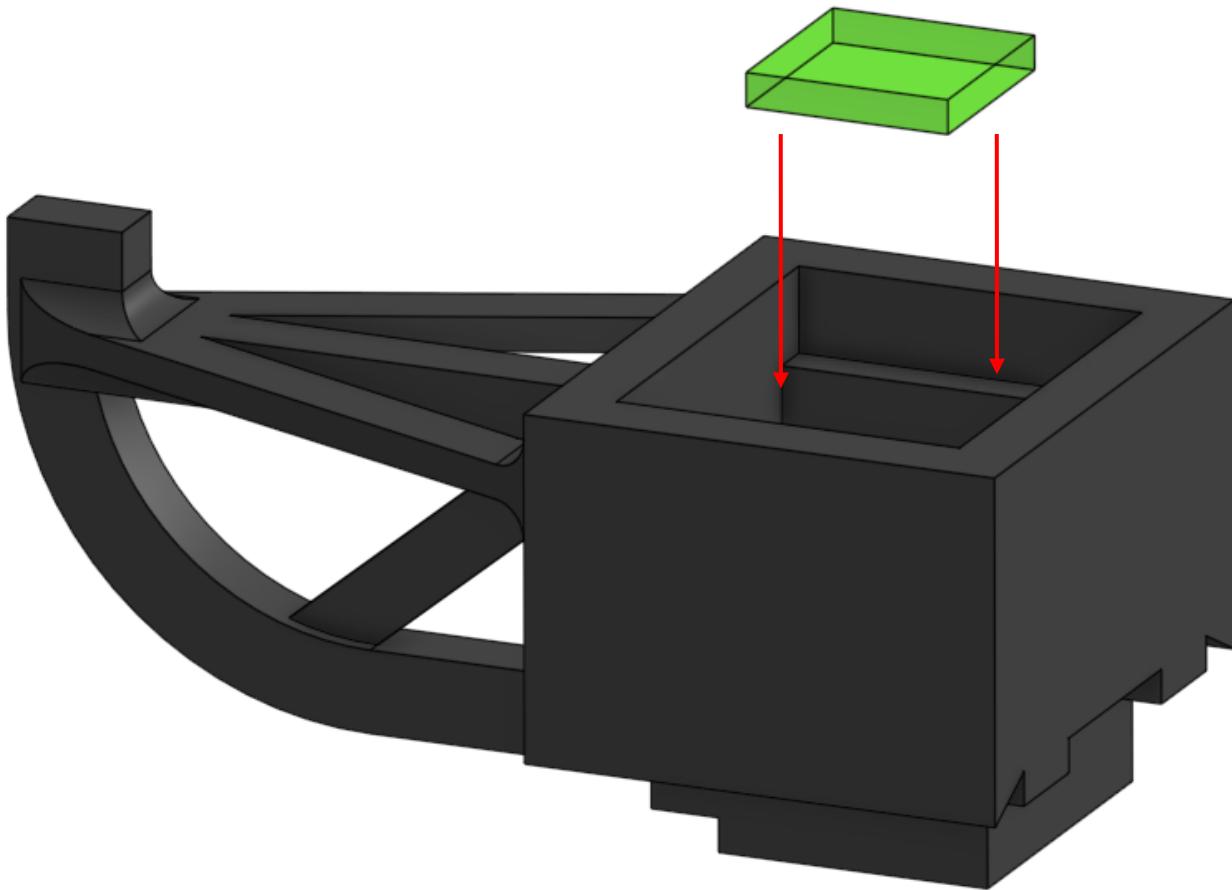




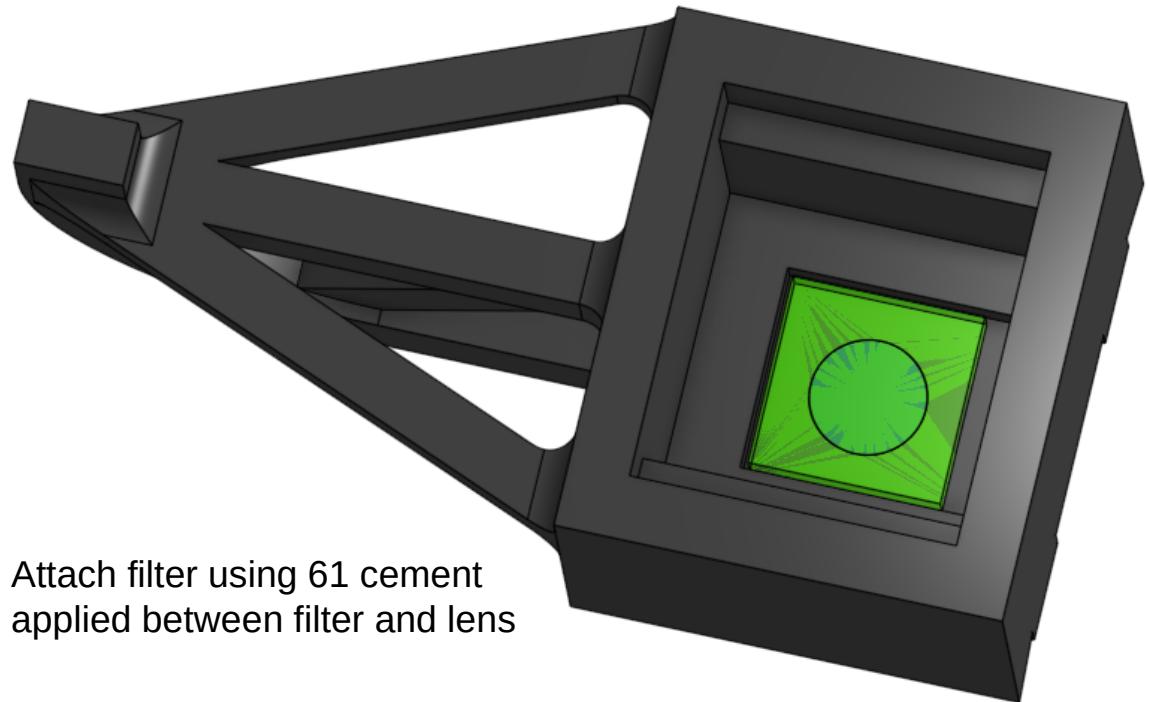
Insert tube lens into body



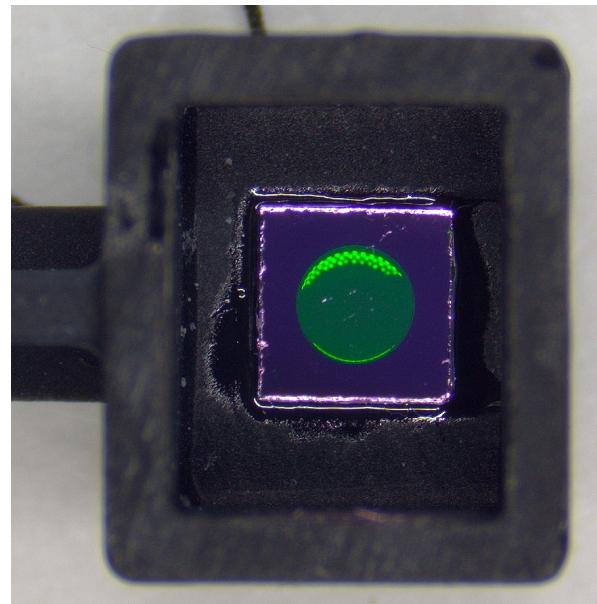
Push tube lens until faces of lens and body are flush

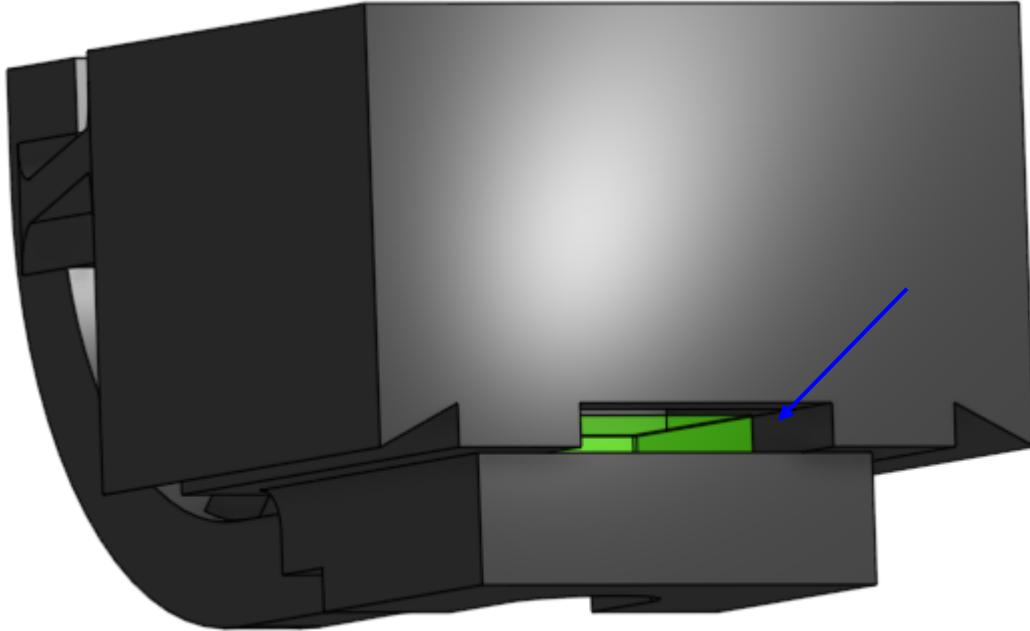


Insert dielectric filter

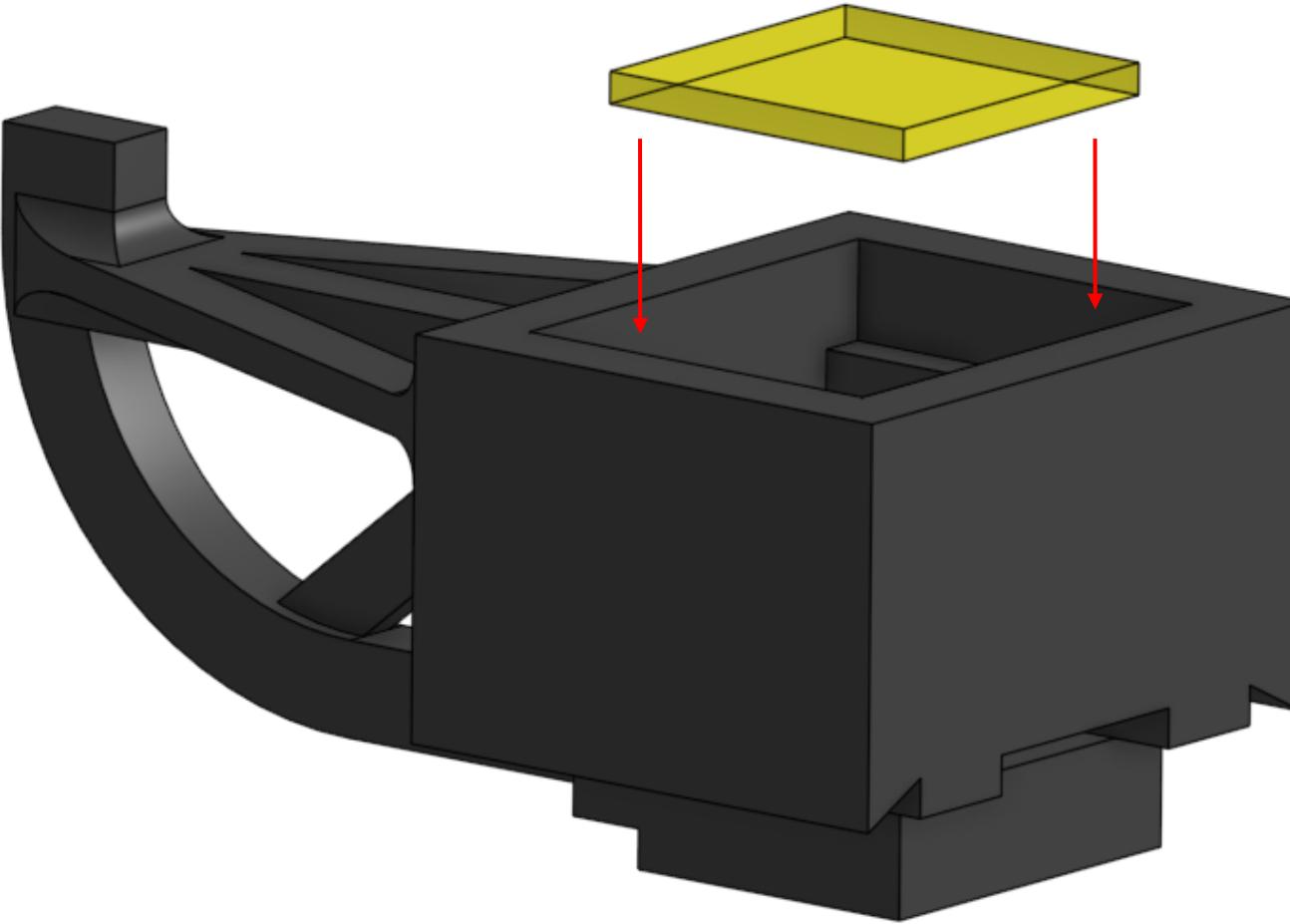


Attach filter using 61 cement
applied between filter and lens

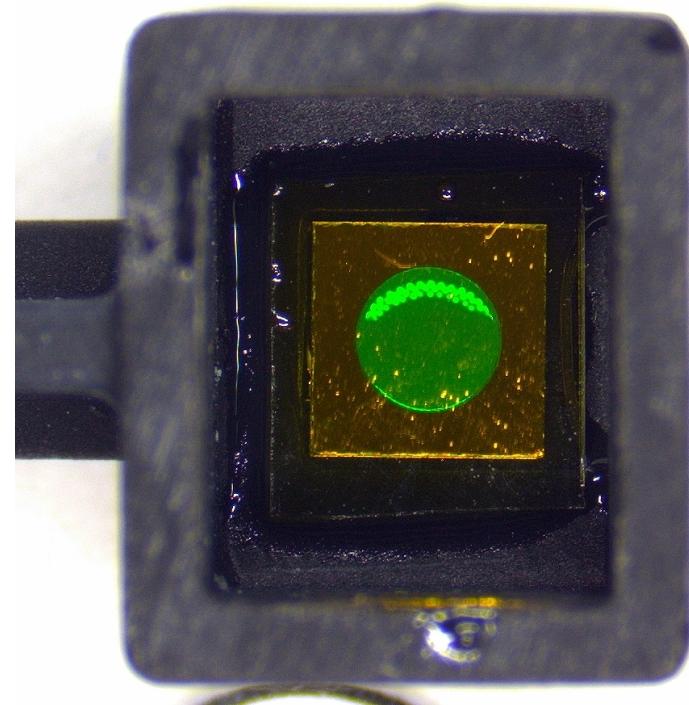
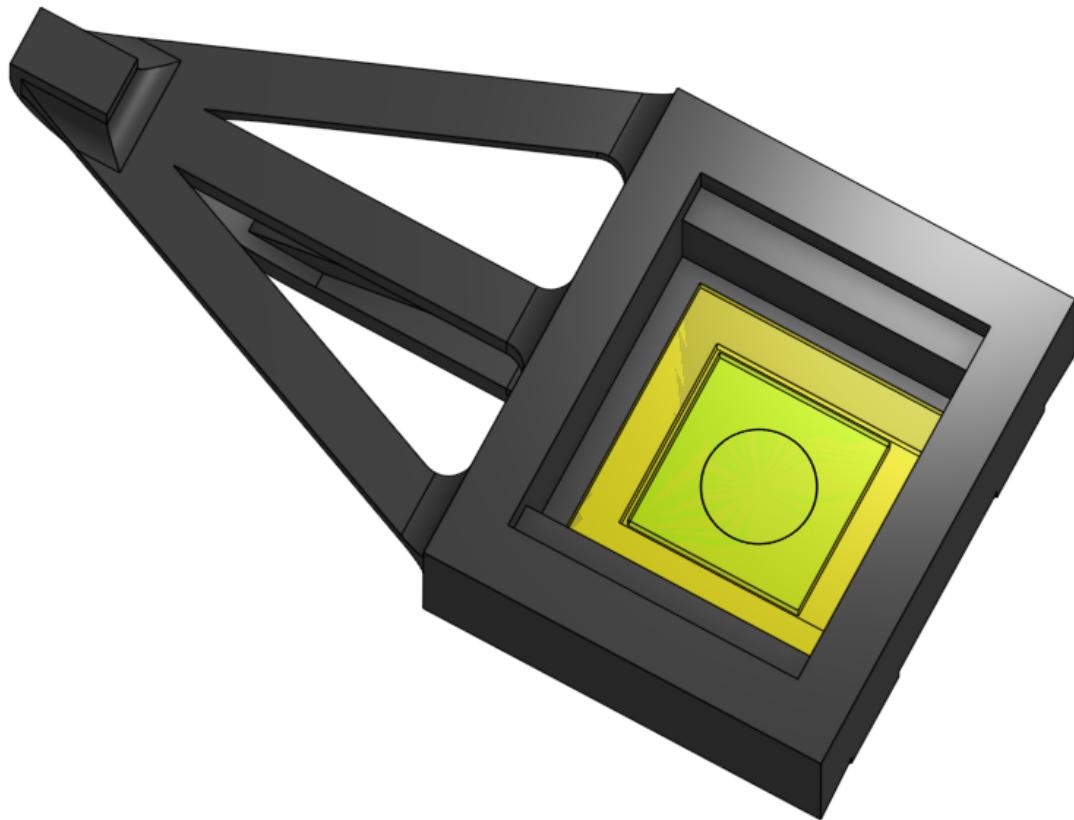




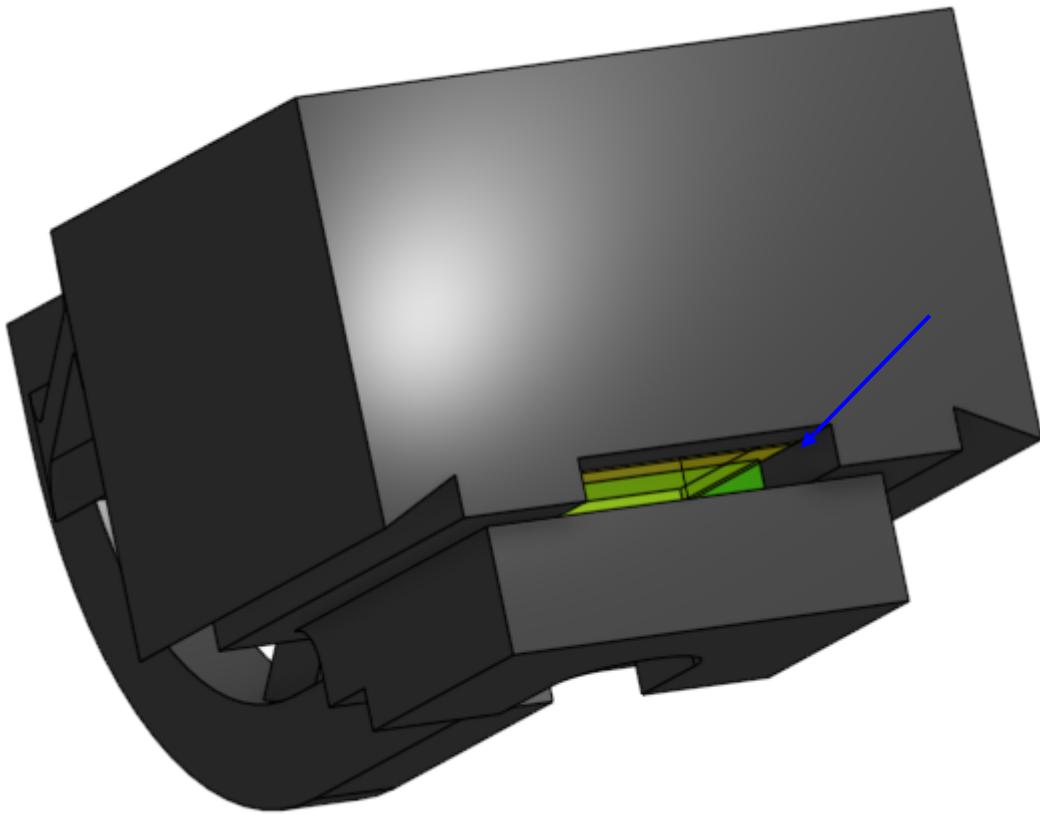
Cure cement using window on side
of body



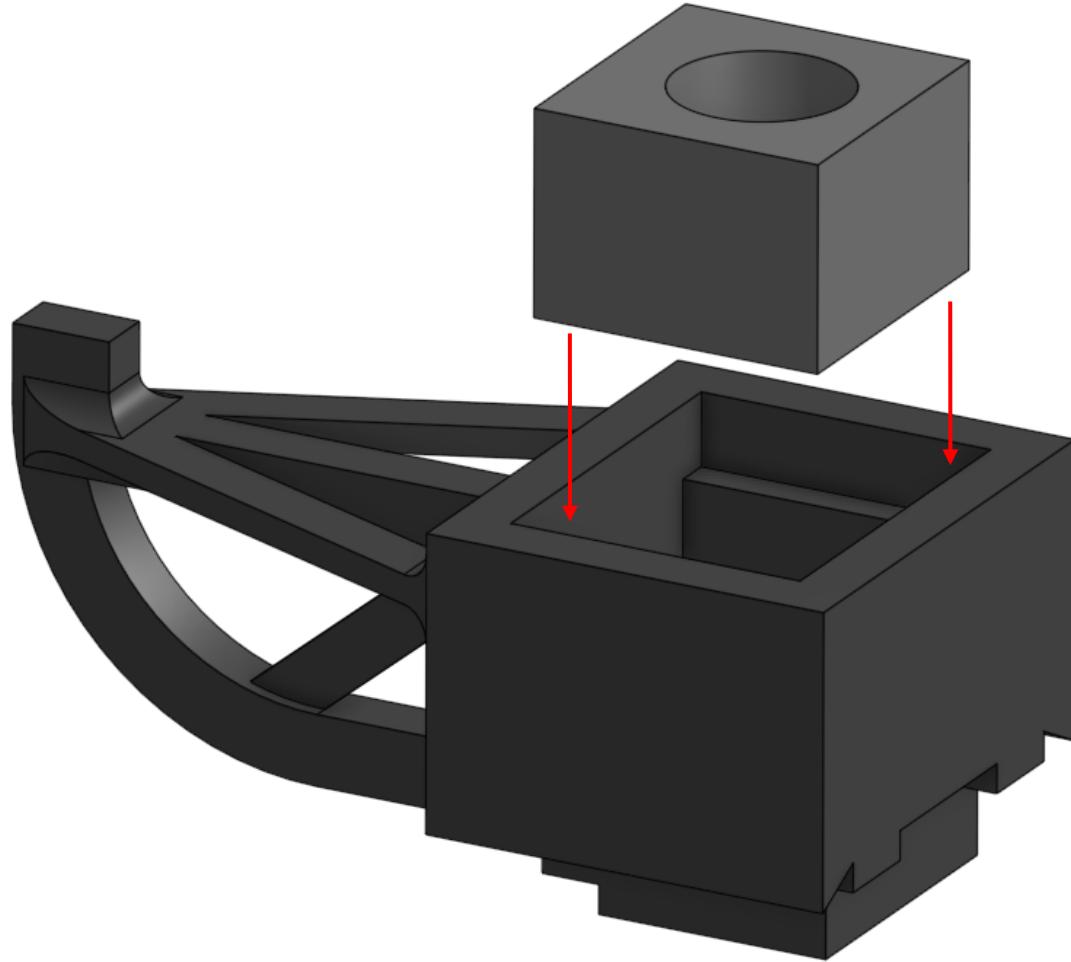
Insert wratten filter



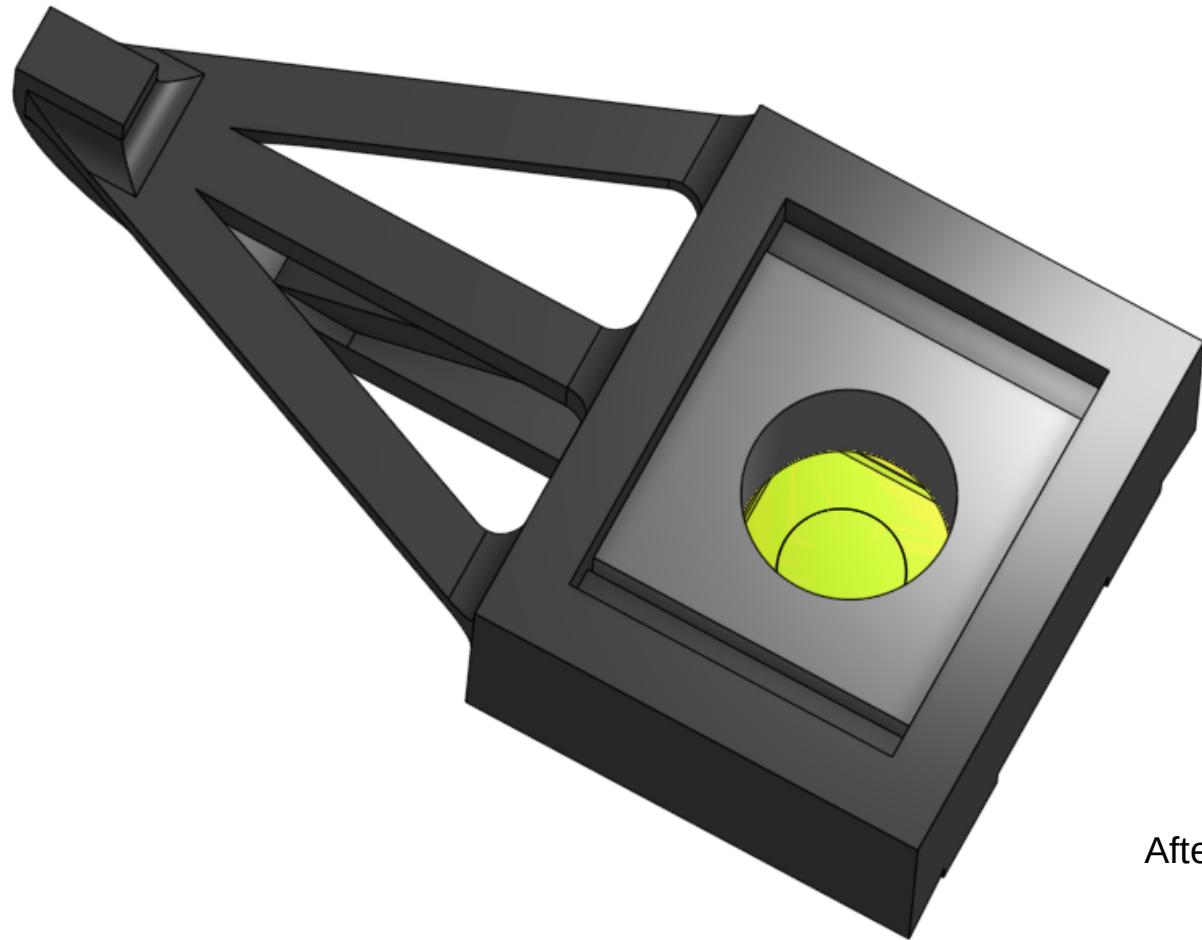
Attach using 61 cement between filters and cure using window



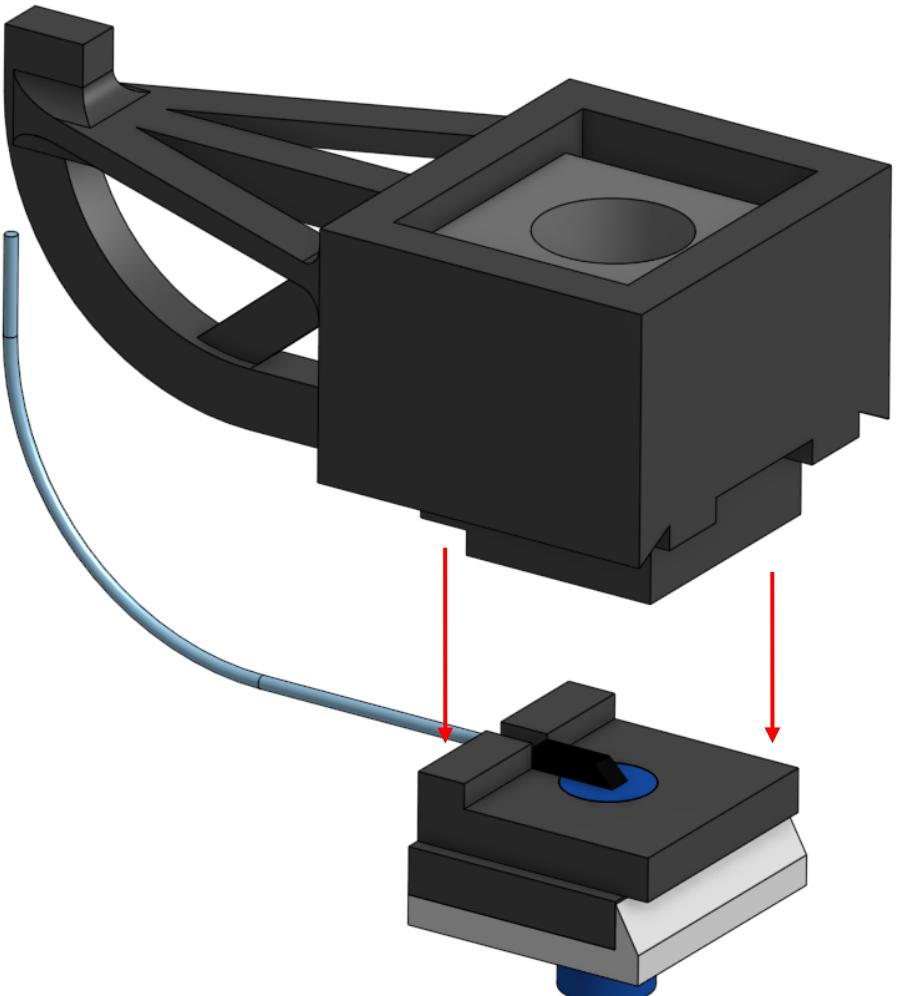
Seal window using nail polish



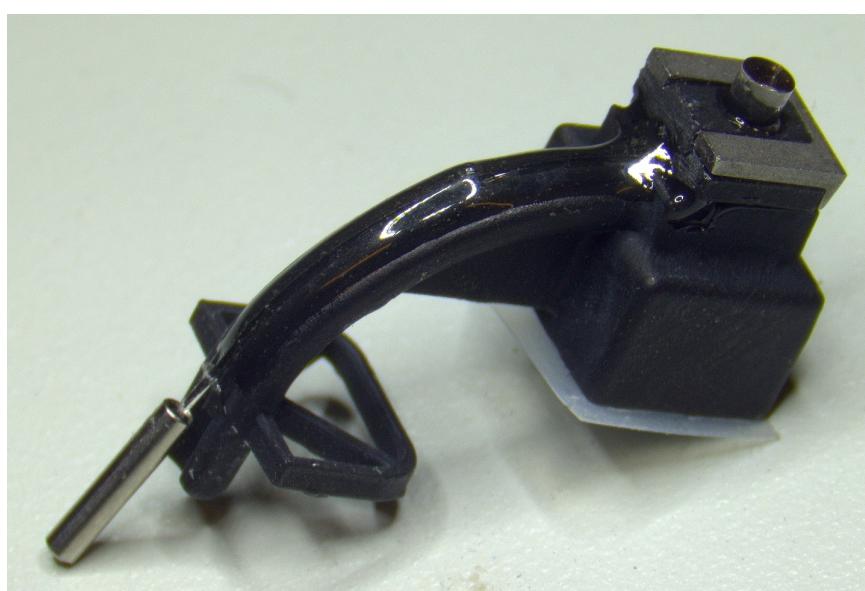
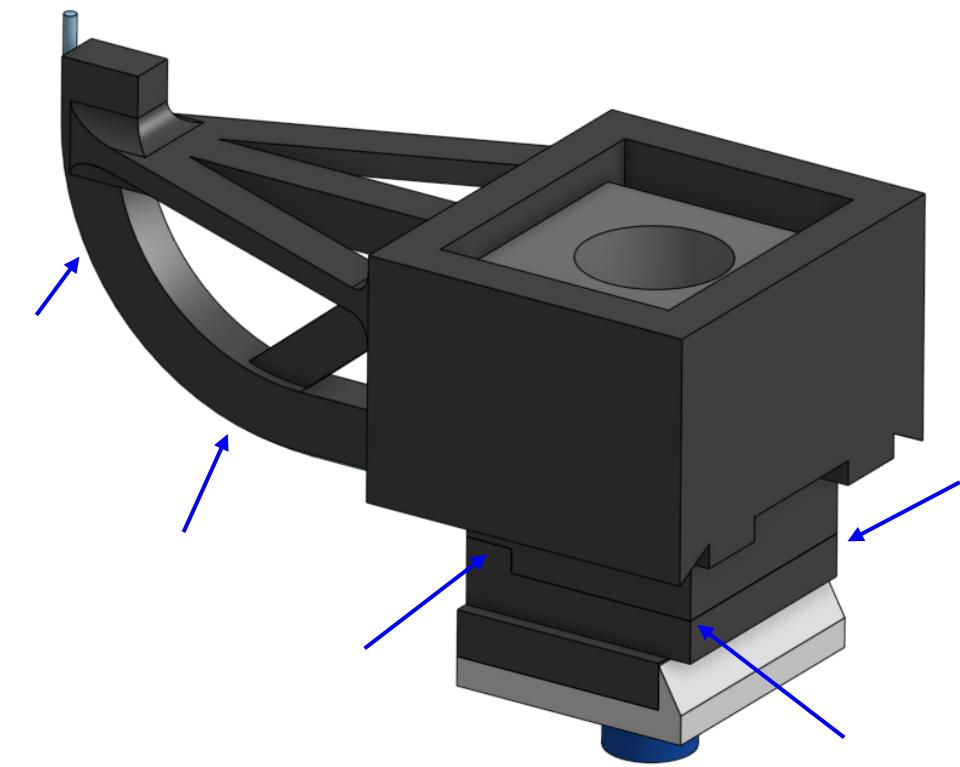
Insert focus spring into body



After insertion

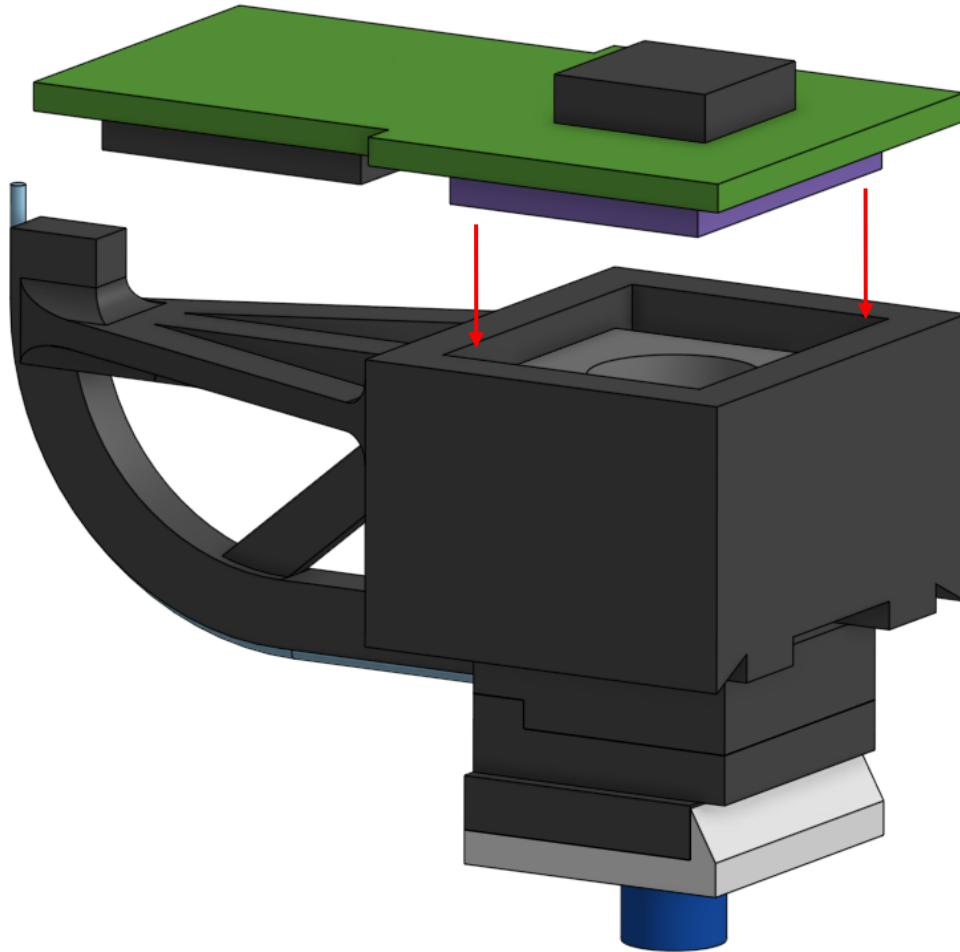


Align subassemblies

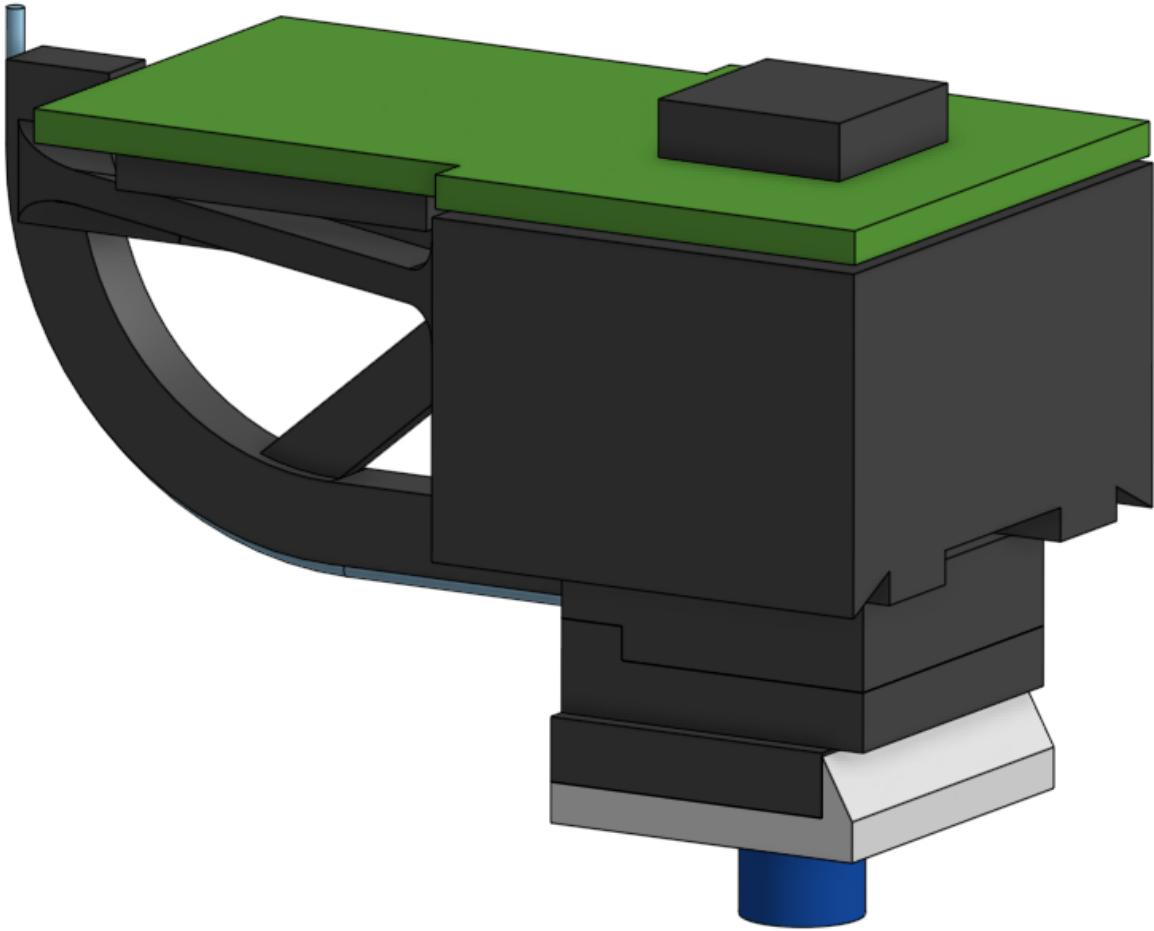


Attach subassemblies using 63 cement applied to interface

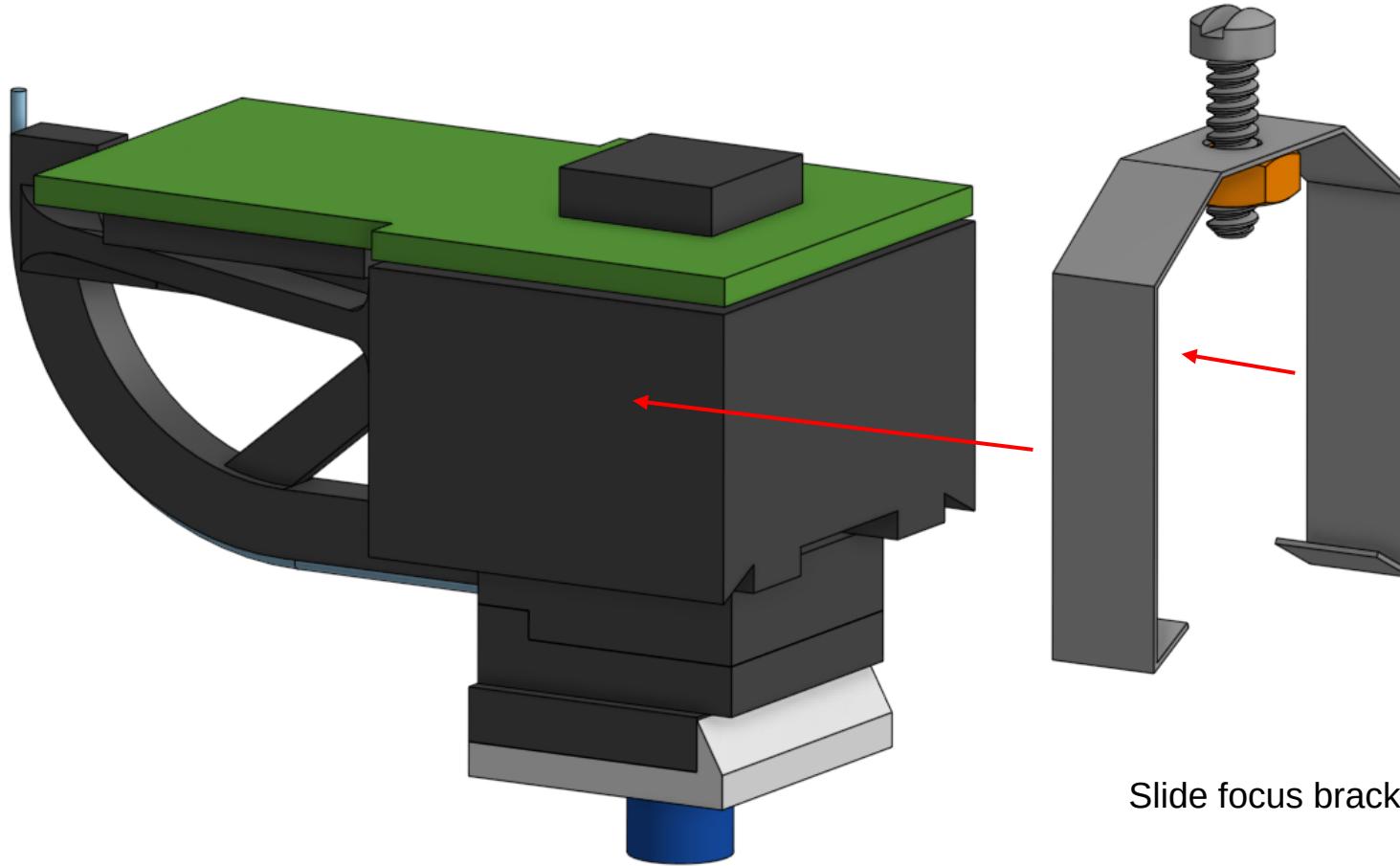
Attach fiber to relief arm using 5 minute epoxy



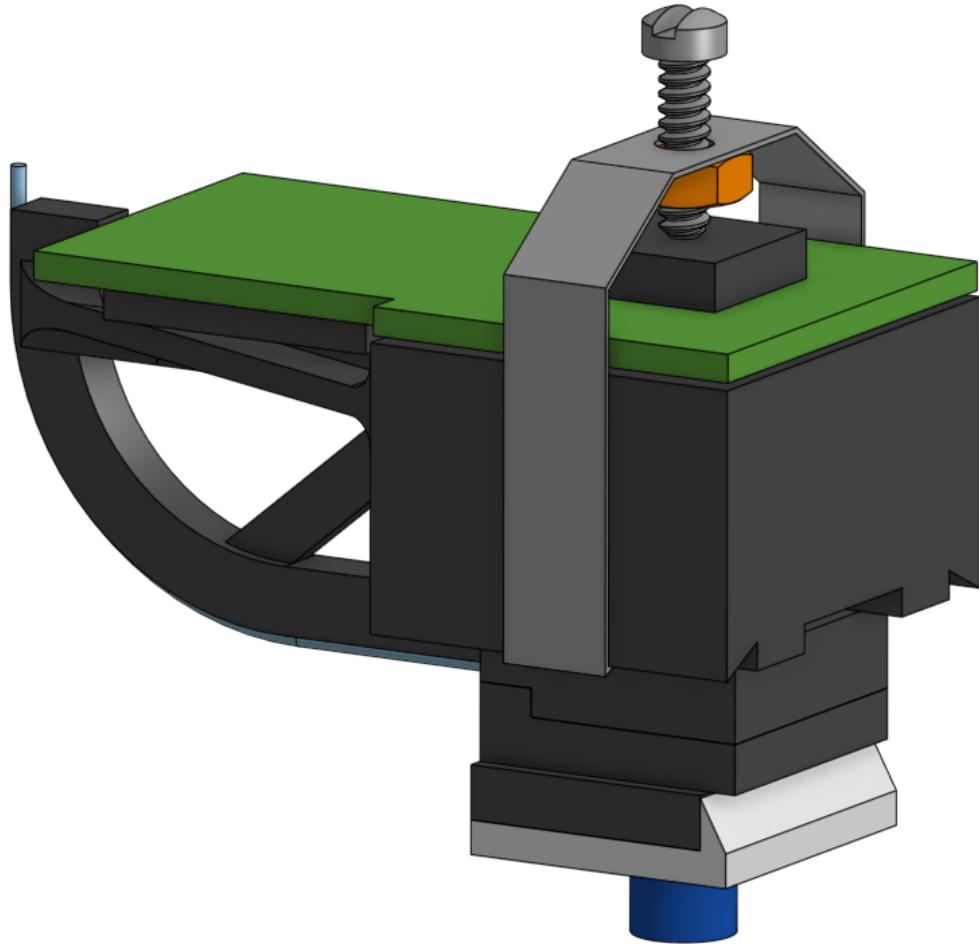
Insert PCB into body



After installation



Slide focus bracket onto body



Assembly complete