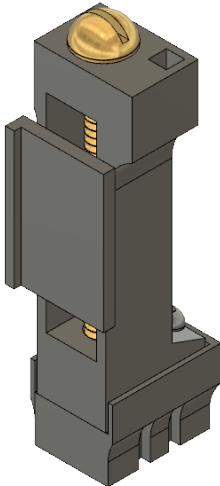# Recoverable, metal microdrive

Design name: metal_v10

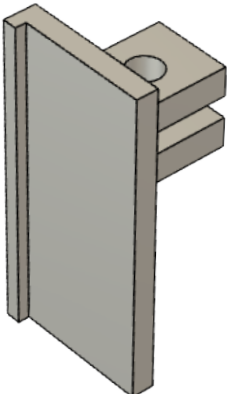Travel distance: 5.7 mm
Shell base: 3.6 x 4.7 mm (WxL)

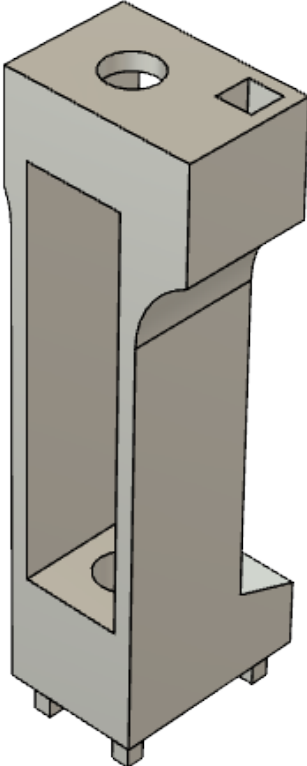More information is needed:
        - contact me (Misi Voroslakos) directly at voroslakos@gmail.com
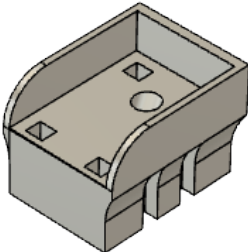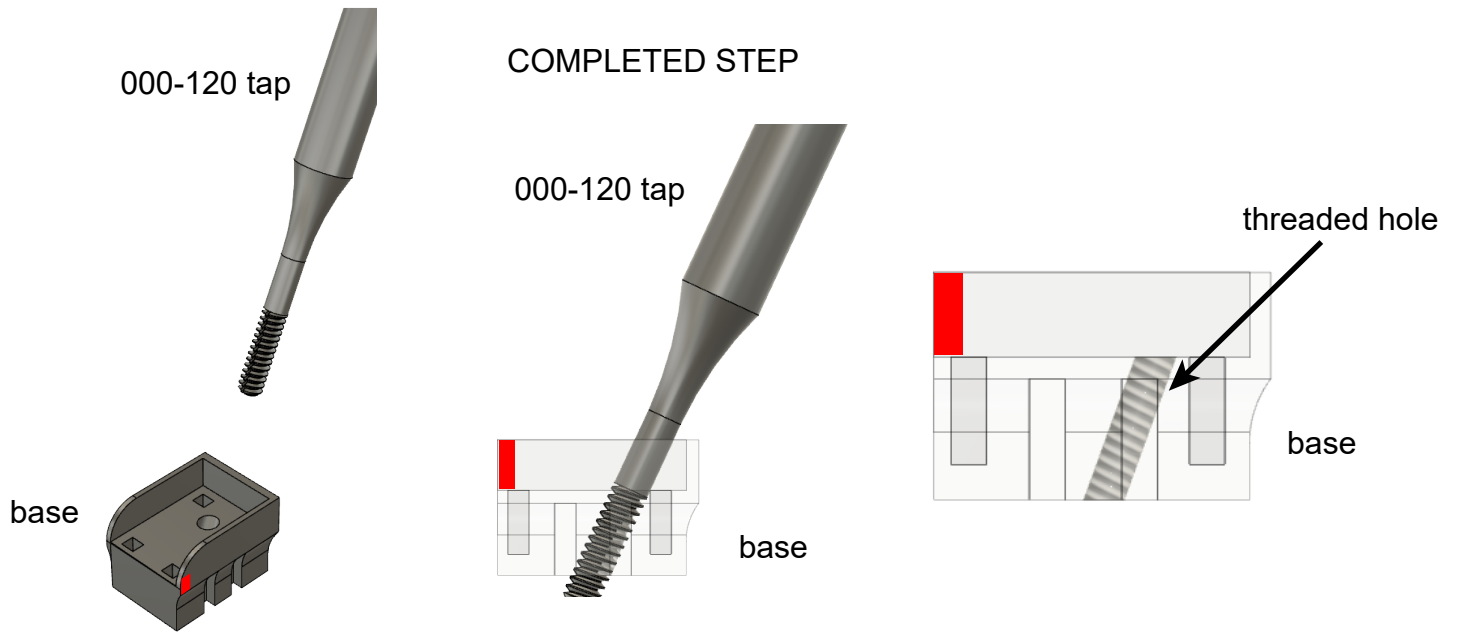

arm/shuttle

drive body

base

00-90 screw
1/2"

000-120 screw
1/8"

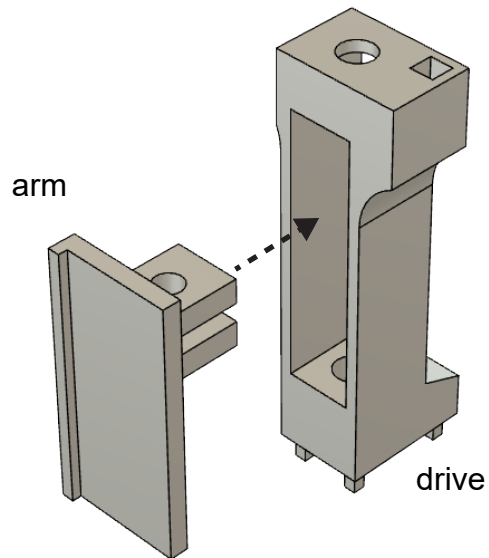metal bar

1. Tap base (000-120 tap).

000-120 tap
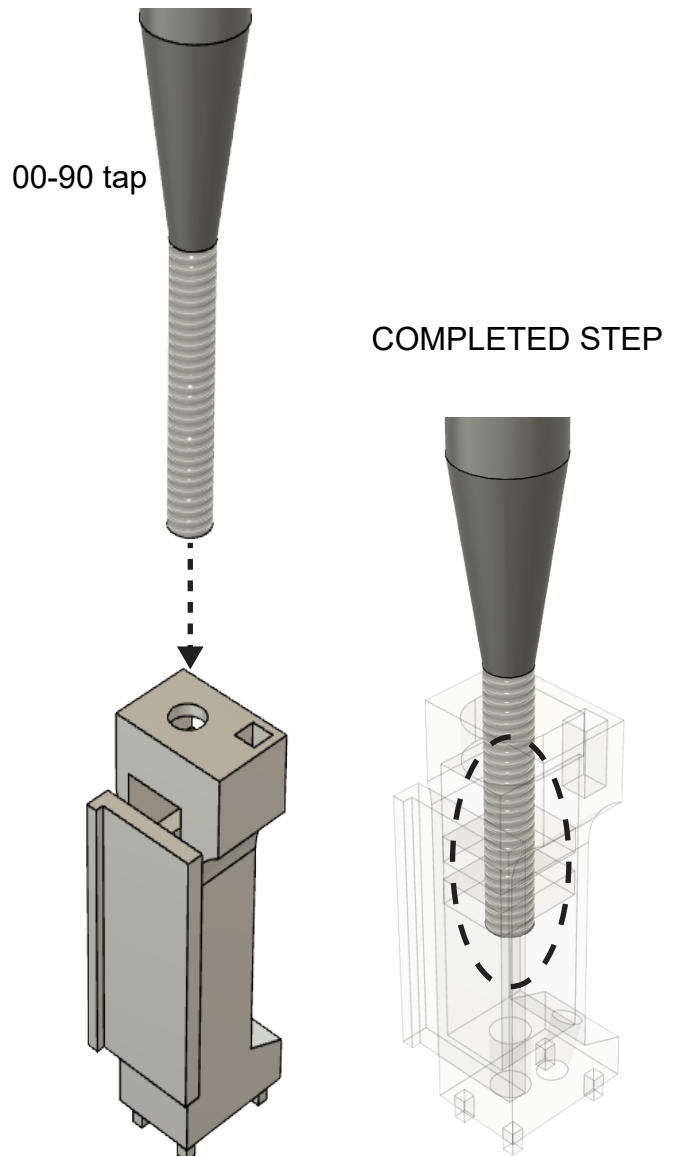
base

COMPLETED STEP

000-120 tap

base

threaded hole

base

2. Insert arm into drive.

arm

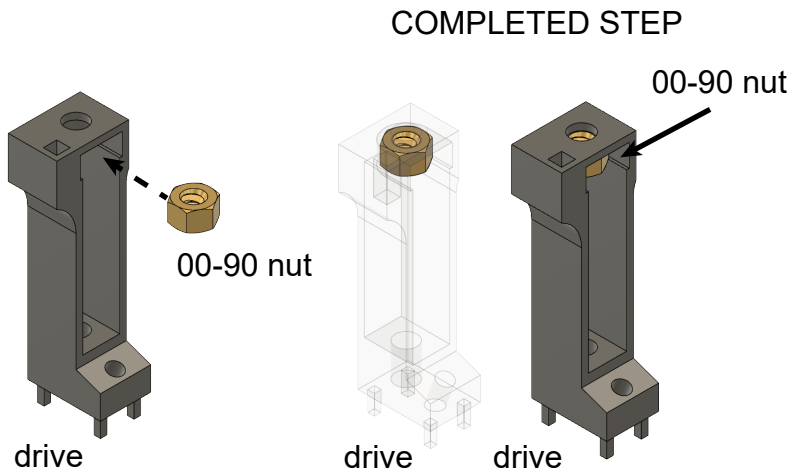drive

COMPLETED STEP

3. Tap the arm.

00-90 tap

COMPLETED STEP

4. Solder 00-90 hex nut to 00-90 screw.

4a - Insert nut into drive.

COMPLETED STEP

00-90 nut

00-90 nut

drive

drive   drive

4b - Insert arm into drive.

COMPLETED STEP

arm

drive

Keep gap here!

arm
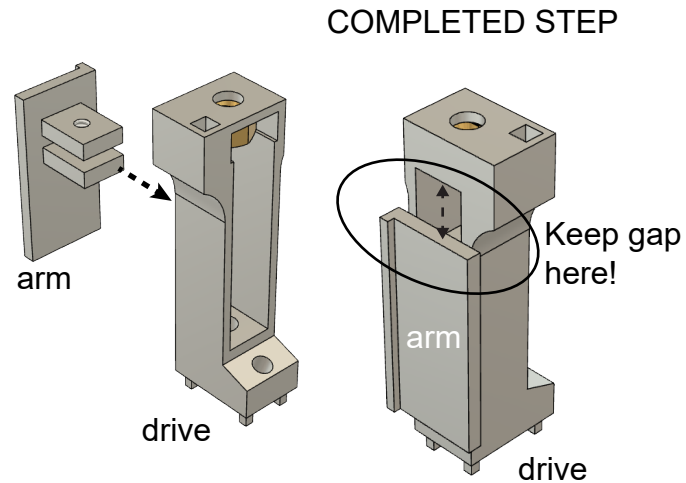
drive

4c - Insert 00-90 screw into drive and tighten nut.

00-90 screw

arm

drive

COMPLETED STEP
(back view)

arm

drive

Keep a tiny gap here!
Too tight -> screw won't move
Too loose -> arm will waggle
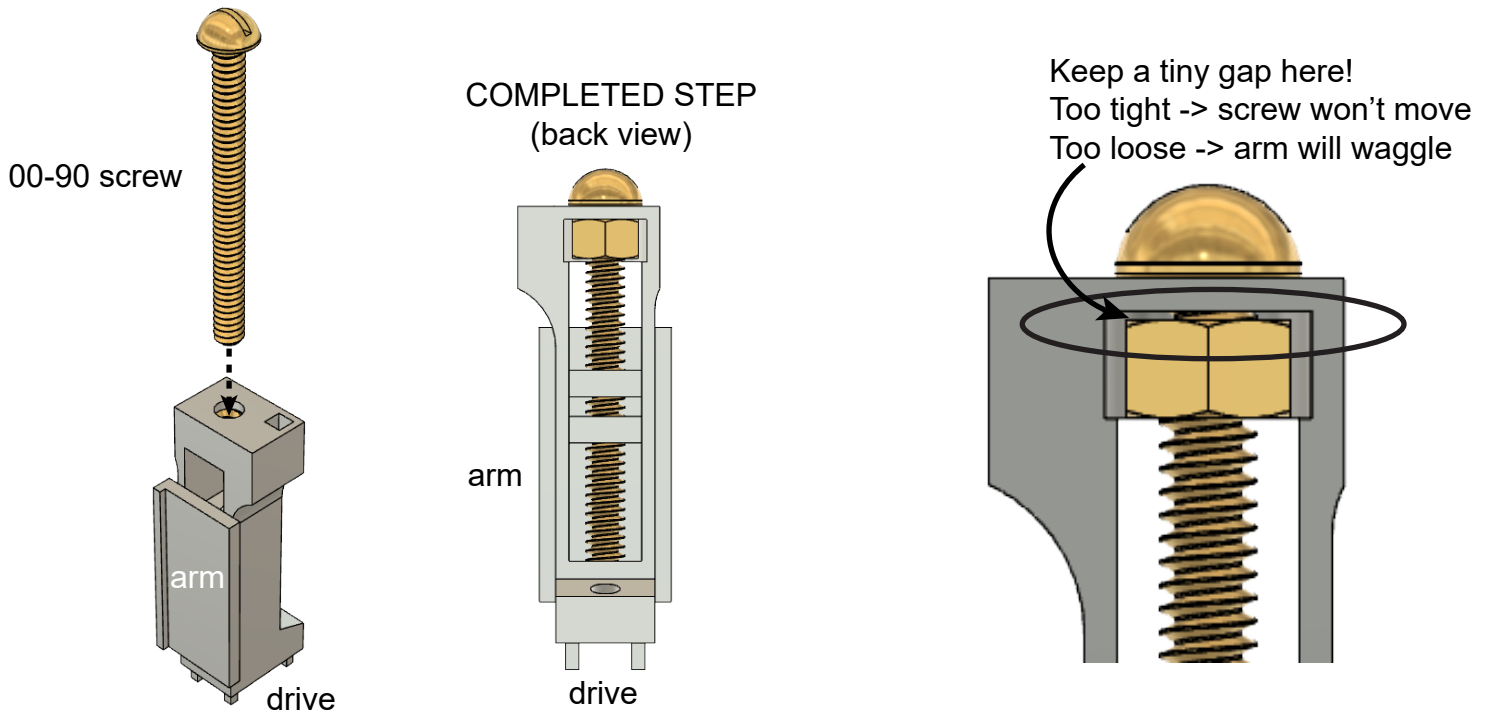
4d - Solder 00-90 nut to 00-90 screw.

00-90 screw

drive

00-90 nut

arm

solder here

COMPLETED STEP

drive

arm

solder

6. Attach base to drive.

COMPLETED STEP

drive

arm

base

drive

arm

base

COMPLETED STEP

drive

arm

base

000-120
screw (T1)

drive

arm
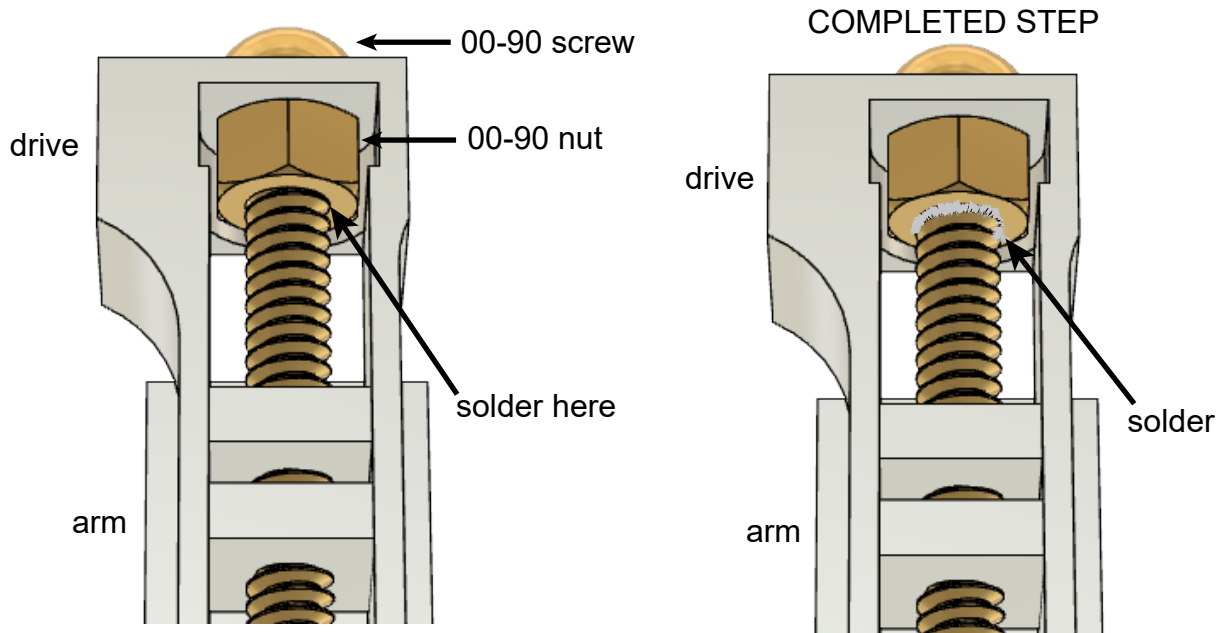
base
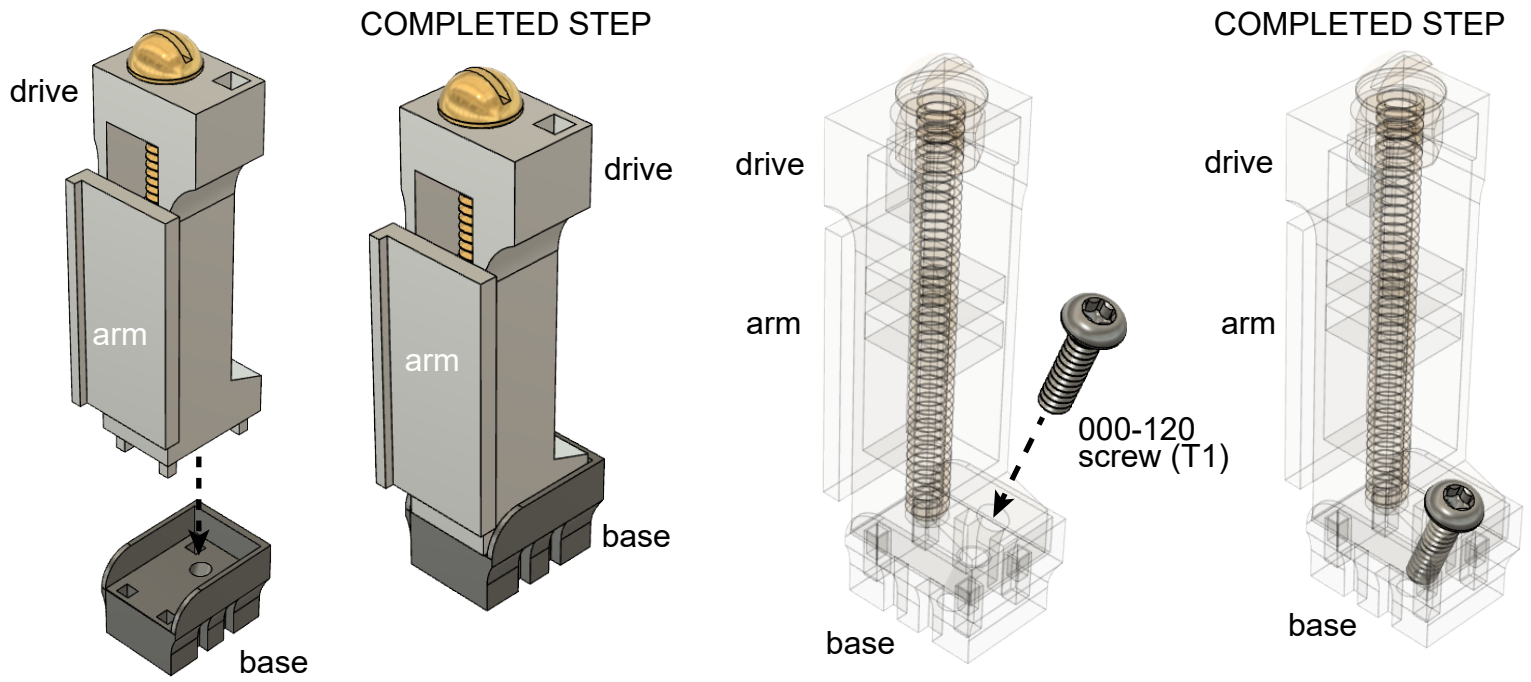
7. Insert metal bar into drive (if used during surgery). Use dental cement to secure it!

metal bar

drive

arm

base

COMPLETED STEP

drive

arm

base

metal bar