Stretch RE1
Head Pan Gear Fix

Hello Robot 2020
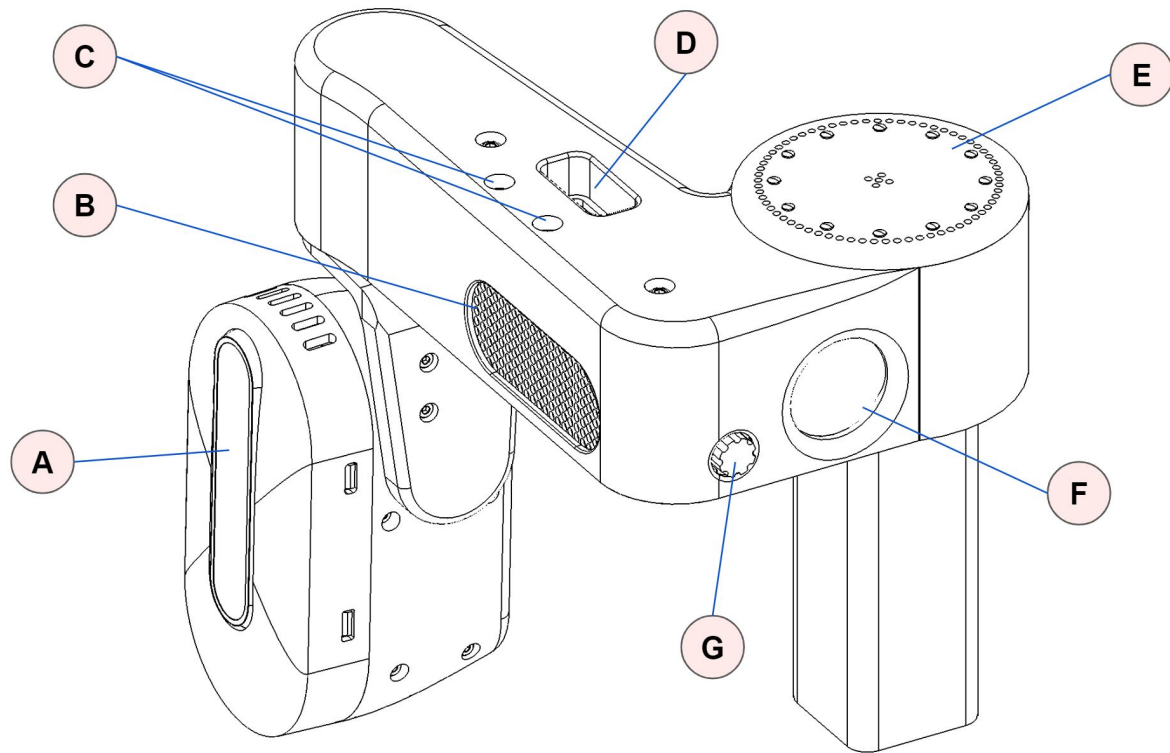
|	Item
A	Pan tilt depth camera
B	Speakers
C	Mounting holes
D	Developer Interface
E	Microphone array
F	Runstop
G	Audio volume control

|	Item	Notes
A	Pan tilt depth camera	Intel RealSense D435i Two Dynamixel XL430-W250-T servos
B	Speakers	
C	Mounting holes	2x M4 threaded, spacing 25mm
D	Developer Interface	USB2.0-A with 5V@500mA fused JST XHP-2, 12V@3A fused Pin 1: 12V Pin 2: GND
E	Microphone array	With programmable 12 RGB LED ring
F	Runstop	
G	Audio volume control	

What you need

- 2x M4x8mm Button Head Screw Cap
- 4x M2x5mm Socket Head Screw Cap
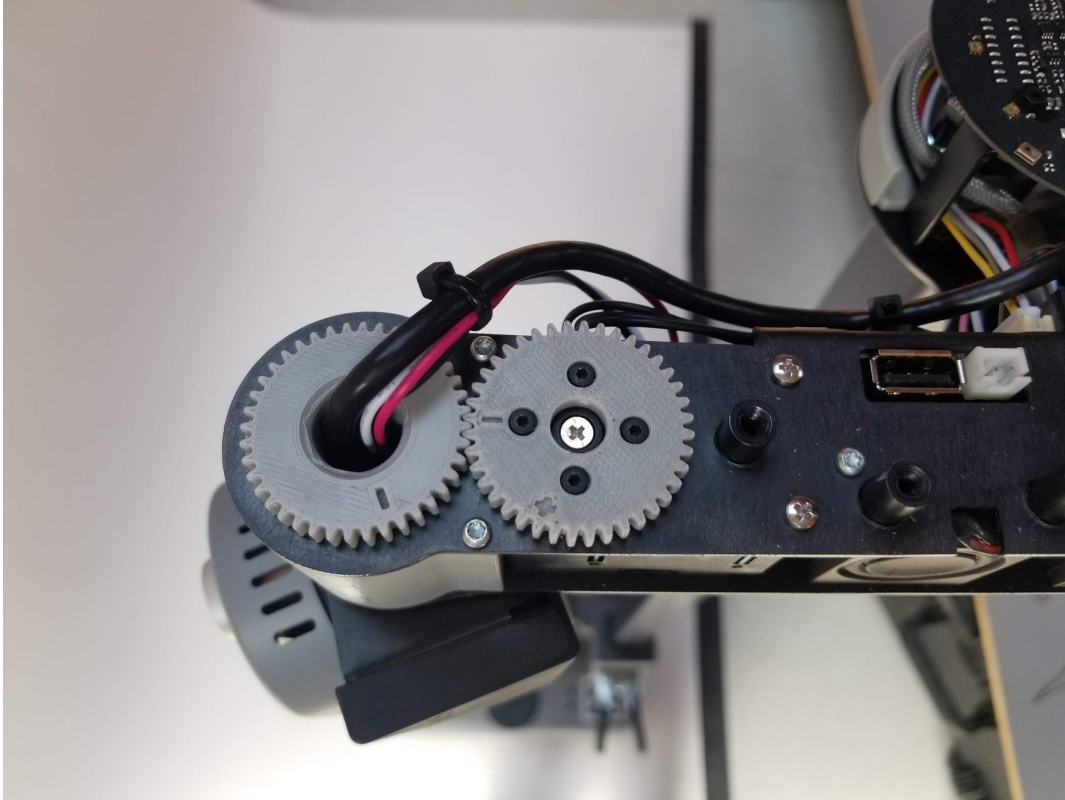- Flathead Screwdriver
- 2.5 mm Hex Key
- 1.5 mm Hex Key

What Your Robot Looks Like Before You Fix It
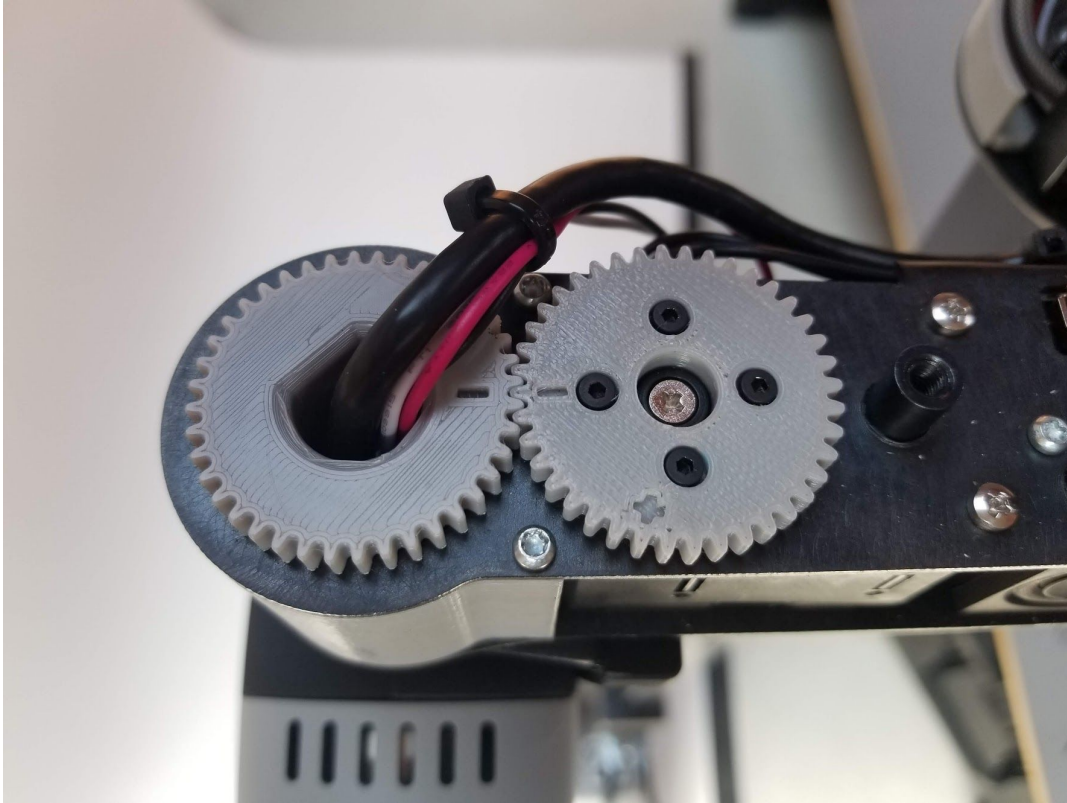
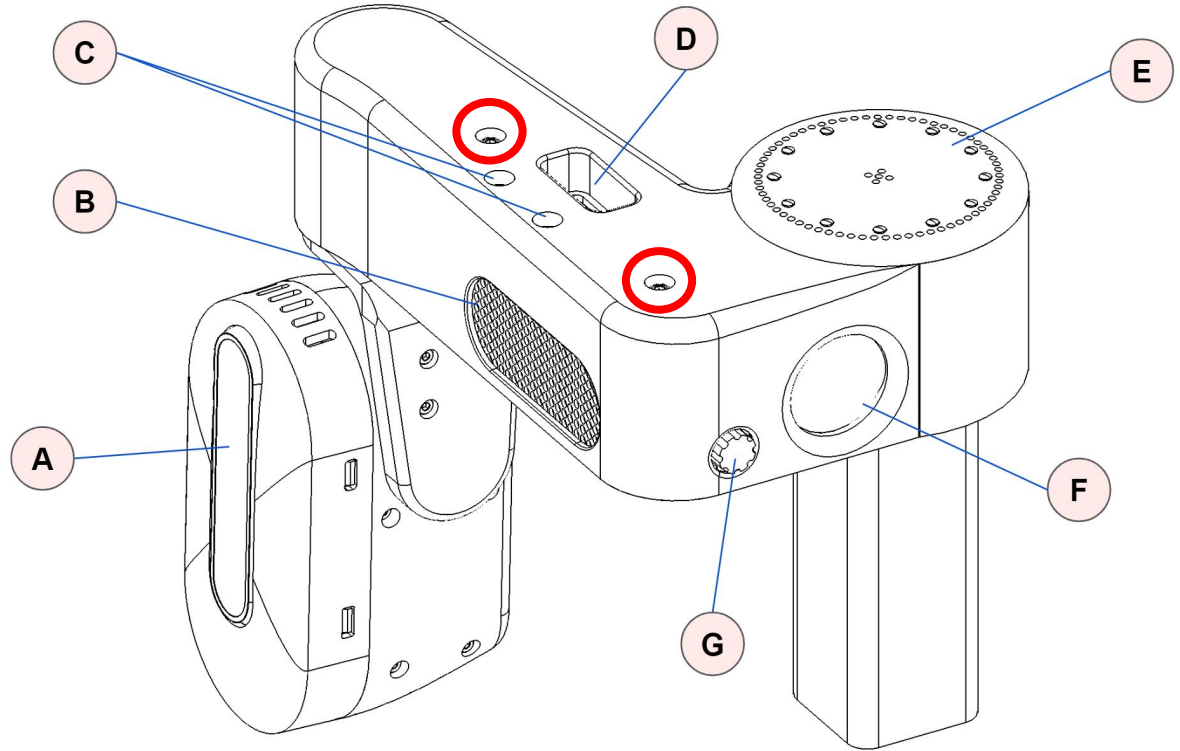# What Your Robot Should Look Like
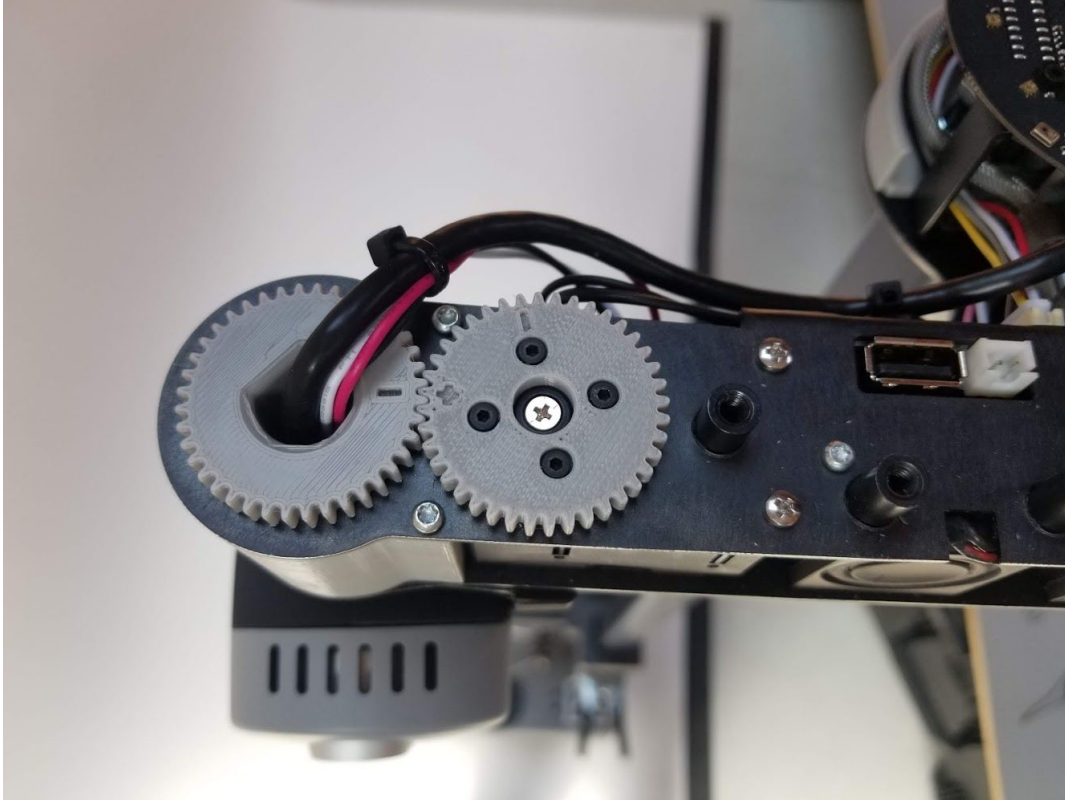
What Your Robot Should Look Like

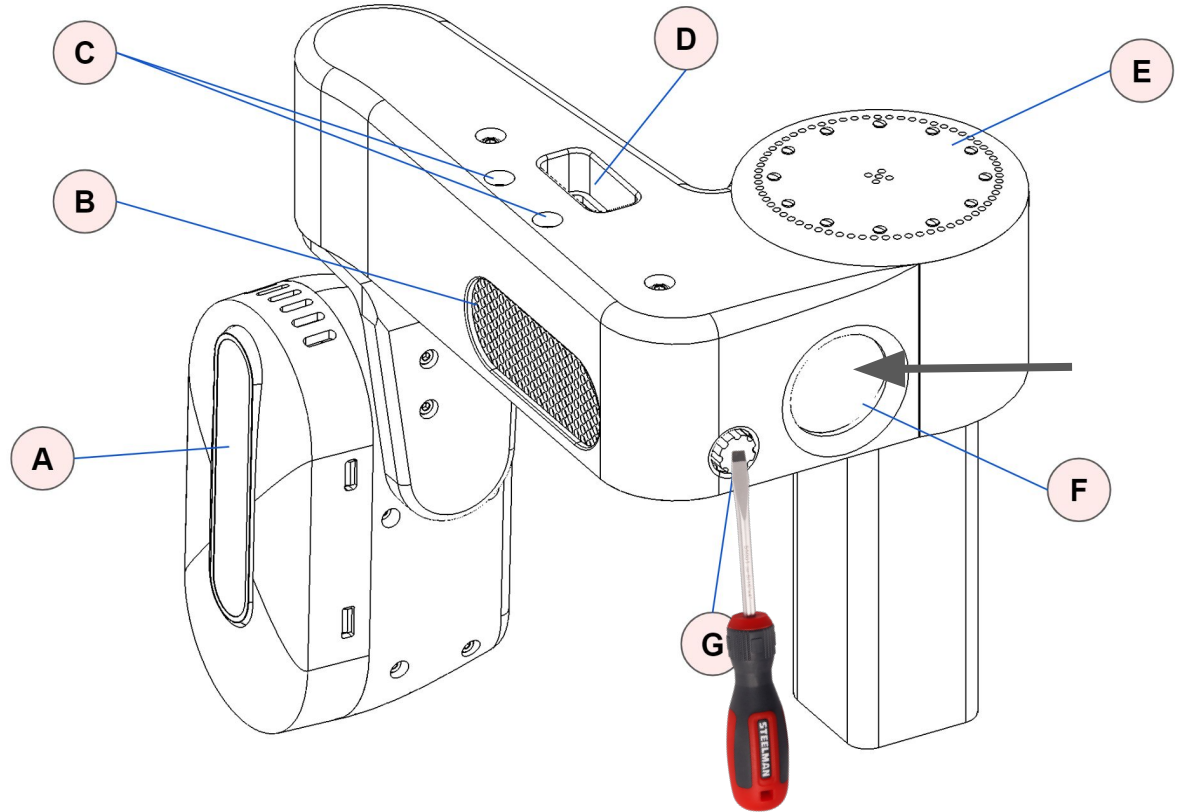# Step 1: Remove the Screws Holding the Shell
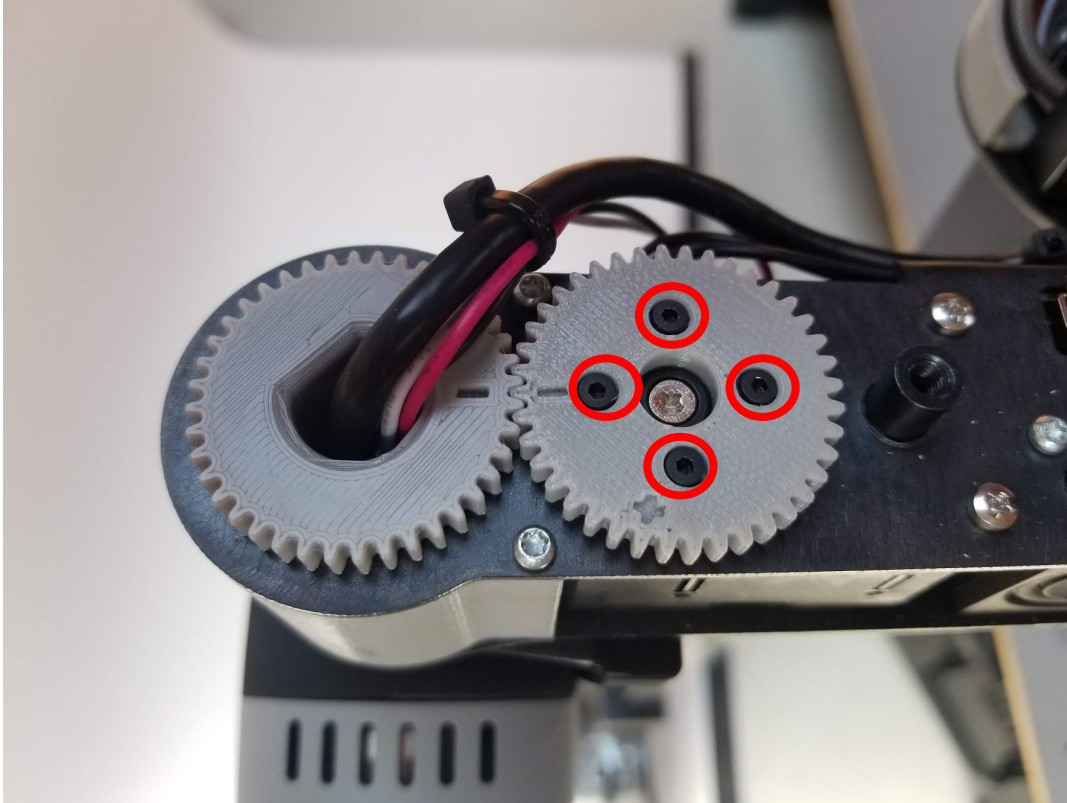
Use the 2.5 mm hex.

Step 2: Remove the Shell

Use the flathead screwdriver to flex the shell over the audio volume control knob.

Push the runstop in to lift the shell up.
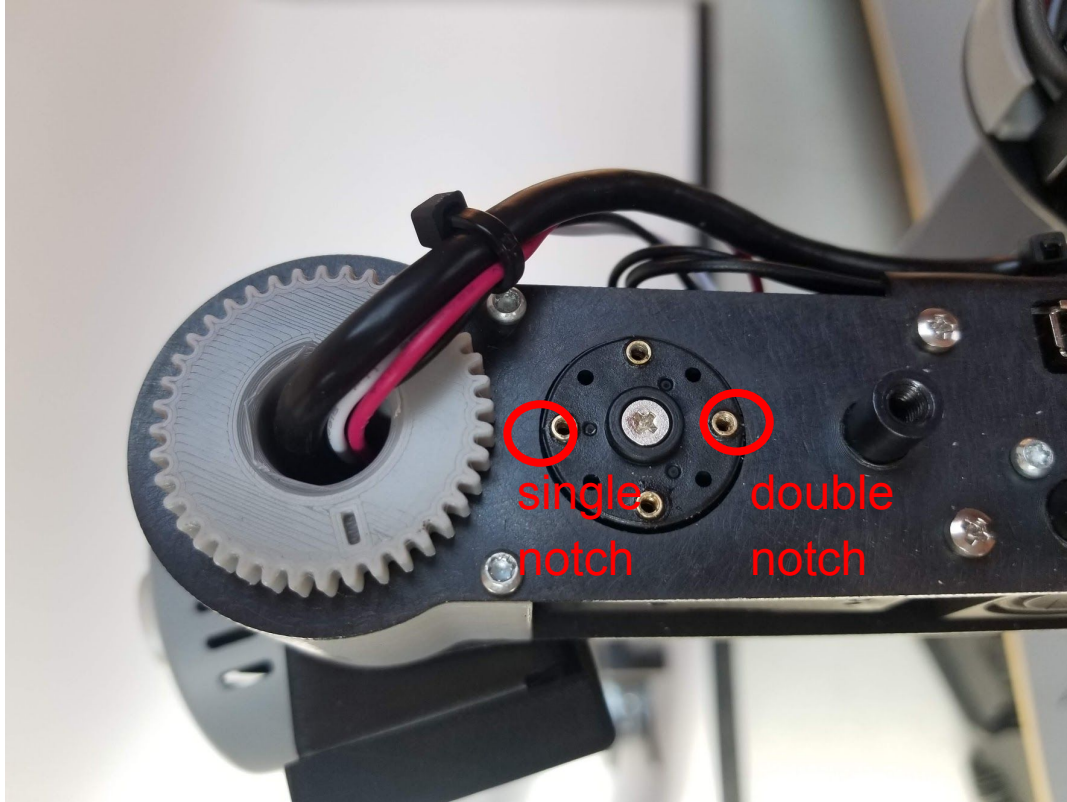
Step 3: Remove the Four Screws
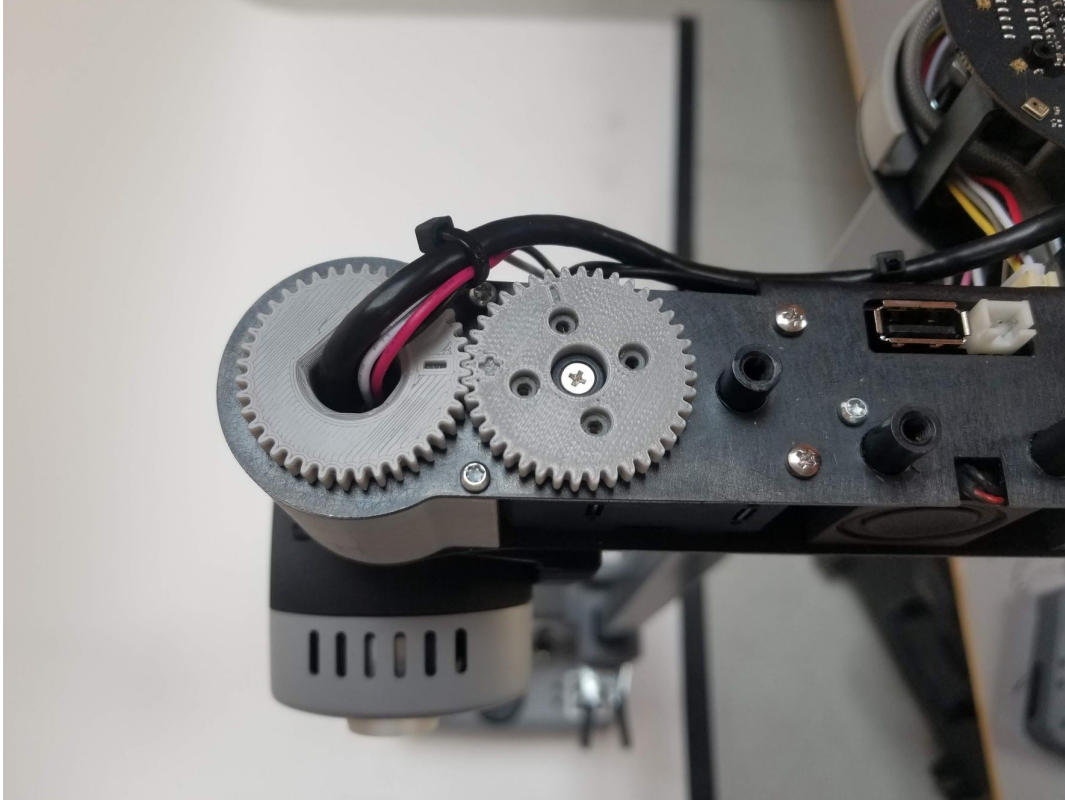

Use the 1.5 mm hex.

Step 4: Remove the Gear

Use the flathead screwdriver to lift it up.

Step 5: Line Up the Single Notch of the Servo

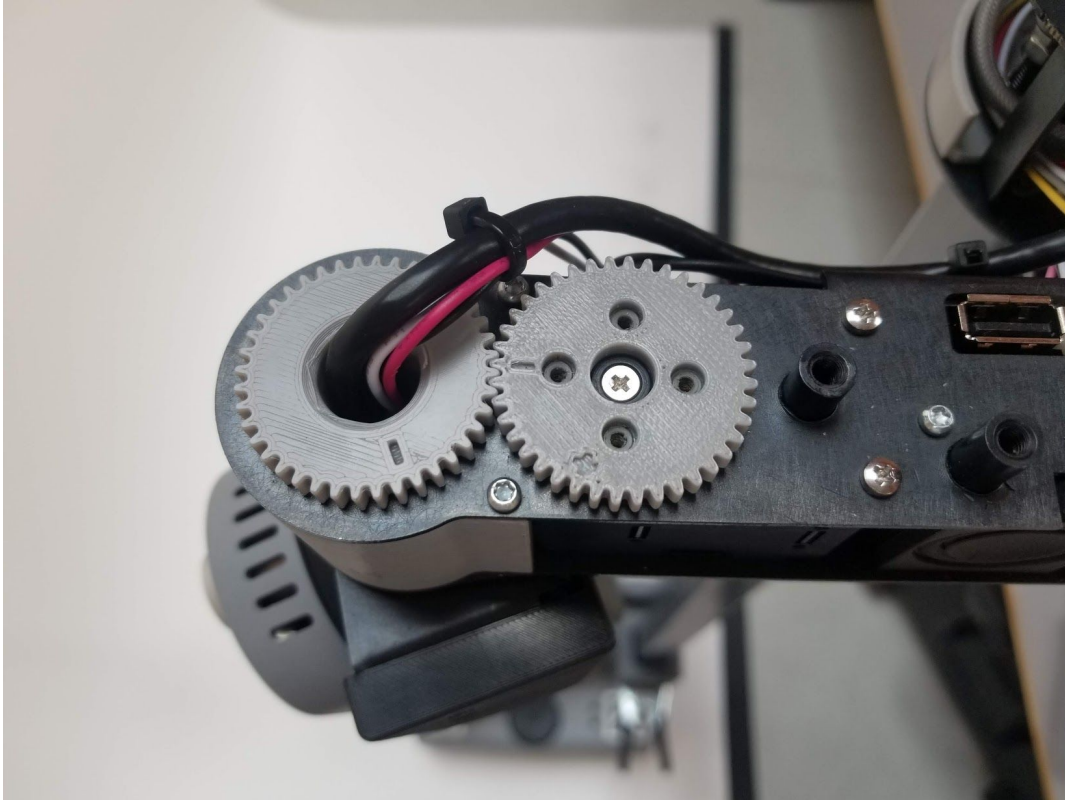single notch

double notch

Make sure the single notch of the servo motor is facing the other gear. The single notch will line up with the minus sign of the removed gear.
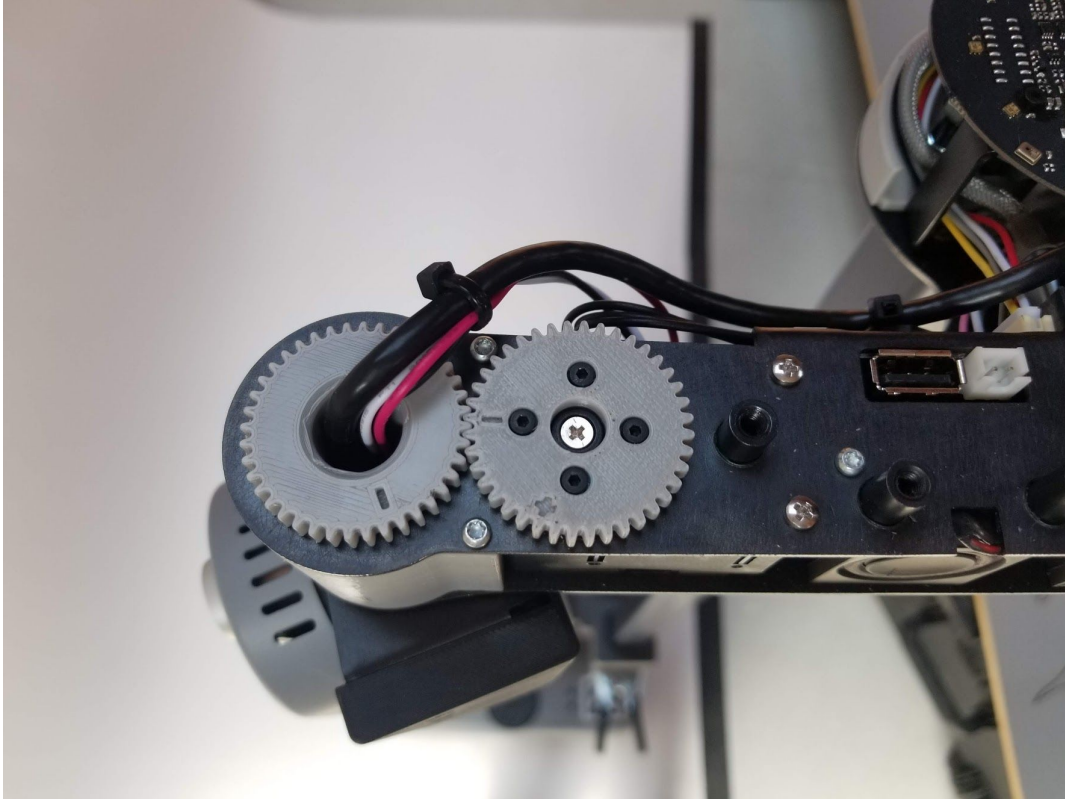
Step 6: Place the Gear

Line up the plus sign on the removed gear with the minus sign on the other gear.

Step 7: Rotate the Gear

Rotate the two gears together so that the minus sign of the removed gear lines up with the single notch on the servo motor.

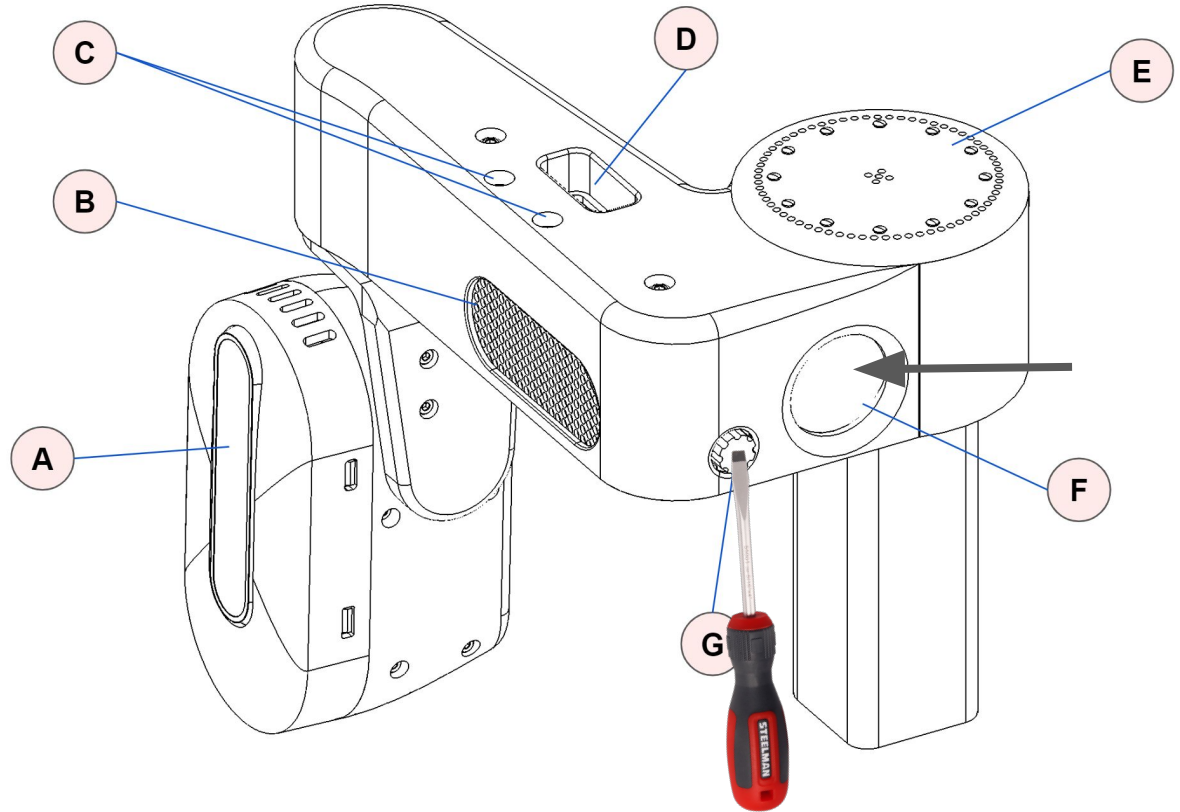# Step 8: Screw in the new M2x5mm Screws

Use the 1.5 mm hex.

Use loctite.

Step 9: Place the Shell Back onto the Robot

Push the runstop in to slide the shell down.

Use the flathead screwdriver to flex the shell over the audio volume control knob.

Step 10: Screw in the new M4x8mm Screws

Use the 2.5 mm hex.

Use loctite.

C

D

E

B

A

F

G