IMPORTANT – The acrylic base of the robot you are building today is different than the one shown in the instructions given. DO NOT SCREW THE 20MM SCREWS UPWARDS THROUGH THE BOTTOM OF THE BASE (SHOWN BELOW).

A white card with a red circle and black text on it

Description automatically generatedTHIS COULD SHATTER THE ACRYLIC PLATE AND CUT OPEN YOUR HANDS. Even if it does not break the plate, the robot will not stay attached to the plate and will fall off.

A blue and green box on top of a clear surface

Description automatically generated

Instead, screw the base to the acrylic plate like shown. NOTE – This means that you must install the base servo before attaching the base to the plate.

For the servos: red is voltage (5V), brown/black is ground, and yellow is data (the wire you connect directly to the pins on the board)



A table with various tools

Description automatically generatedA table with plastic parts

Description automatically generated with medium confidence



PRO TIP – Before you start, lay out all of the parts and count them to make sure that the number of parts and screws matches with the guide. It’s good to count them out first so that you can ask your professor or the Part Cart to replace the parts on their first loop around so you arent waiting for them when you actually need the part.

Some fitments might be tight due to printer errors like elephants’ foot or warping. You can use the pliers to scrape the part to make it fit better. If the part still refuses to fit, ask either your professor or the Part Cart to supply you with a replacement.

Links to the instructions:

https://www.instructables.com/Pocket-Sized-Robot-Arm-meArm-V04/

Link to a GitHub Repository with sample code in case the professor did not provide it:

https://github.com/CarsonHam1/Hackathon-Robot-Arm/tree/main

If you don’t know how to use GitHub, open the sample code folder, and then download the Sample\_Code\_V2 file.