

SES Wrist Rotate Assembly Guide.

Updated 10/15/2007.

Safety first! Wear eye protection and never touch a powered robot!

Note: Loctite or thread locks can be used on the construction of the aluminum components. However, don't use them with Lexan, as they are not necessary and may cause damage.



Image of complete arm.

Step 1.

Remove the gripper assembly from the "C" bracket to the Little Grip. Remove the Little Grip from the Little Grip Adapter, and remove the Little Grip Adapter from the "C" bracket.

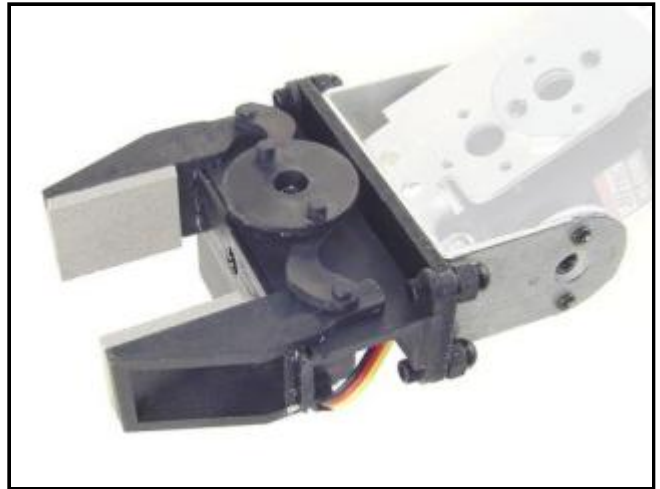


Figure 1.

Step 2.

Refer to the Ball Bearing Hub and Low Profile Axis [assembly guide](#) to build the assembly. Use the "C" bracket you just removed from the arm and the HS-475 servo included. In order to install the gripper, you must remove the full gear.



Figure 2.

Step 3.

To space the gripper away from the gears, you must use the four washers, two stacked on each side of the final gear. Align the bearing, gear, and washers as shown to prepare to install the little grip attachment plate.

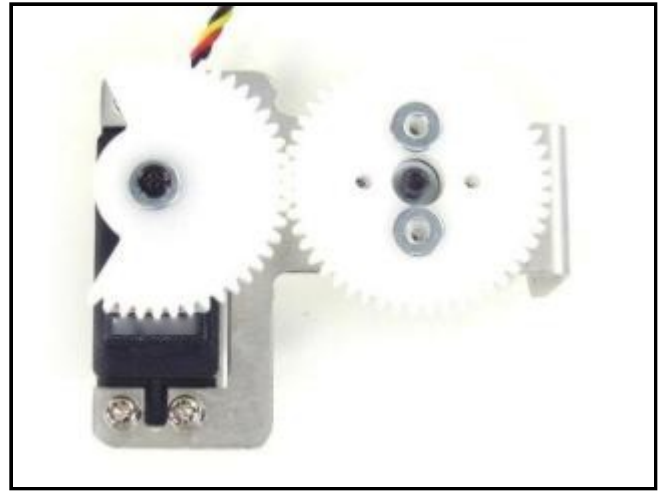


Figure 3.

Step 4.

Install the little grip attachment plate as shown, using the 2-56 x .375" screws.

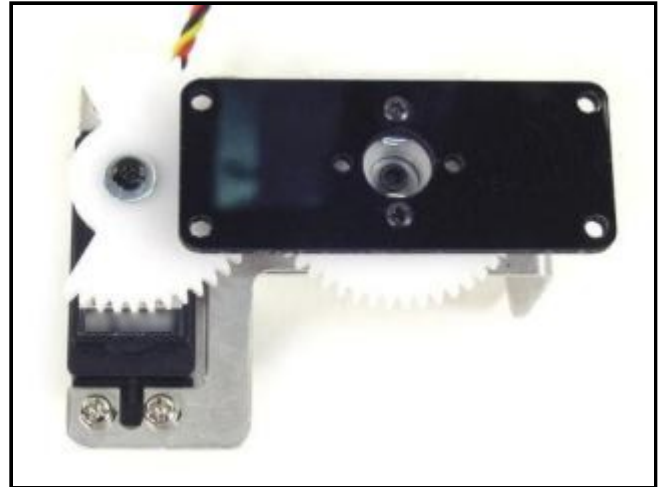


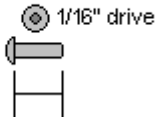
Figure 4.

Step 5.

Attach the Little Grip to the lexan as shown, using three 4-40 x .375" screws and acorn locking nuts. Only three screws are used (shown in the image) as the body of the gripper servo is in the way for the fourth.

3 x

4-40 x .375" (3/8") **Steel**
Hex Button Head Screw



1/16" drive

0.375"

3 x

4-40 x .250" **Nylon**
Acorn Locking Nut

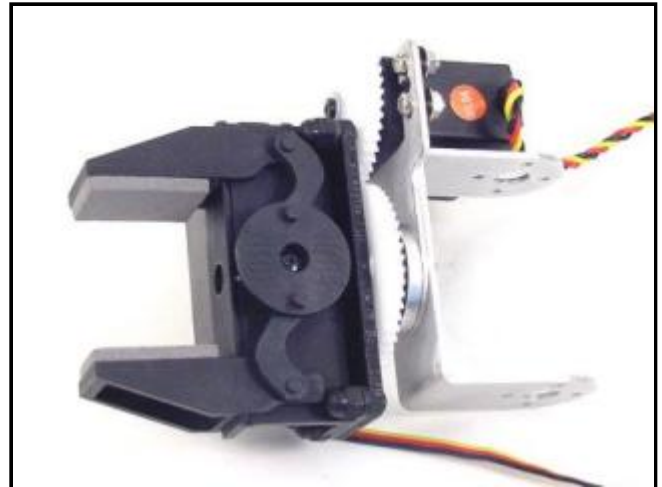


Figure 5.

Step 6.

Slip the gripper assembly back onto the arm assembly, and attach with two #2 x .250" tapping screws. Add a 12" extender cable to the wrist rotate servo, and plug into channel 5 on the SSC-32. Use wire ties to neaten the wires.

2 x

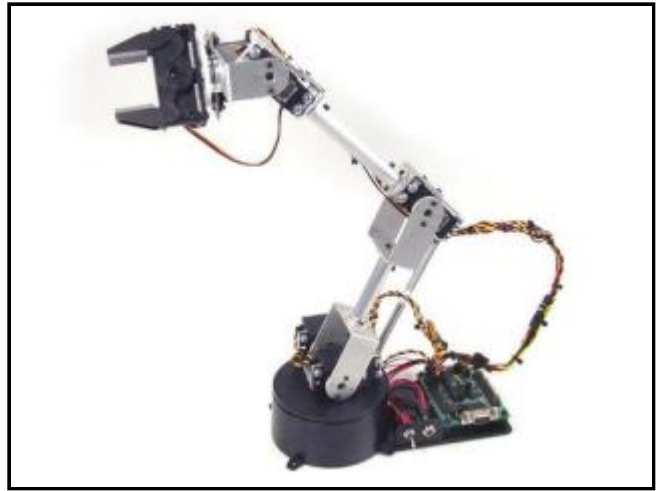


Figure 6.