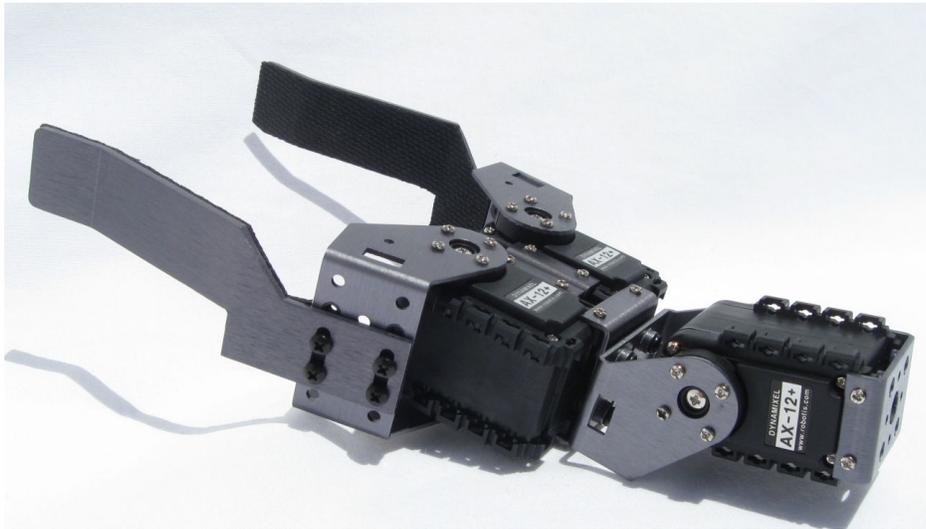


# AX Dual Gripper Kit Assembly Manual



## AX-12/18 Dual Gripper Kit Contents

### Hardware Kit

- (3) AX-12 Side brackets
- (1) AX-12 Rear bracket
- (3) AX 45 brackets
- (2) Grippers
- (20) ¼" #4 screws
- (4) #4 nuts
- (2) Self adhesive gripper pads

### Full Kit

- (3) AX-12 Side brackets
- (1) AX-12 Rear bracket
- (3) AX-12 45 degree brackets
- (2) Grippers
- (20) ¼" #4 screws
- (4) #4 nuts
- (2) Self adhesive gripper pads
- (3) AX-12A or AX-18A Servos

**Tip** – Use “Lock Tite” thread locker or equivalent when installing the 2mm screws for best results.

**Note** – The 2mm screws, nuts, plastic spacers and set screws referred to throughout the construction manual are supplied within the AX-12/18 servo’s box.

1. Using (4) #4 1/4" screws, assemble (2) AX-12 side brackets as shown in figure #1. Tighten the #4 screws at the same time so the brackets fit together as evenly as possible.



Figure 1

2. Using (8) 2mm nuts, install the nuts in the 1<sup>st</sup> and 3<sup>rd</sup> slots from the servo horn on the top and bottom of the AX-12/18 servo.
3. Using (8) 2mm screws install the AX-12 side bracket assembly from step 1 onto each of the AX-12/18 servos as shown in figure 2.



Figure 2

- Using (4) #4 1/4" screws and (2) #4 nuts , install the gripper to each of the AX 45 brackets as shown in figure 3 and 4. Note that (2) of the #4 screws are secured by the integrated pem nuts and (2) are secured by installing (2) #4 nuts.

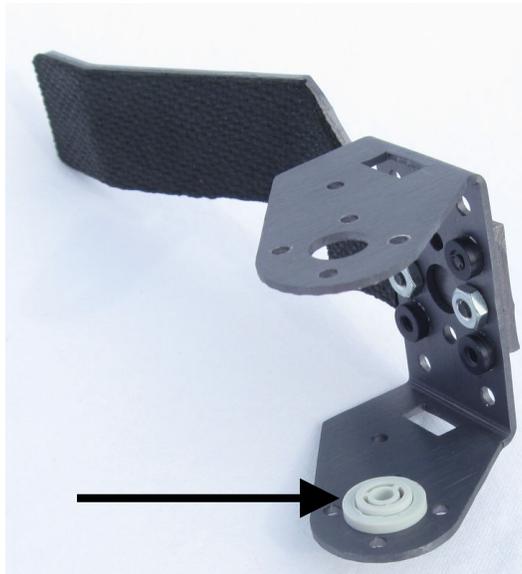


**Figure 3**



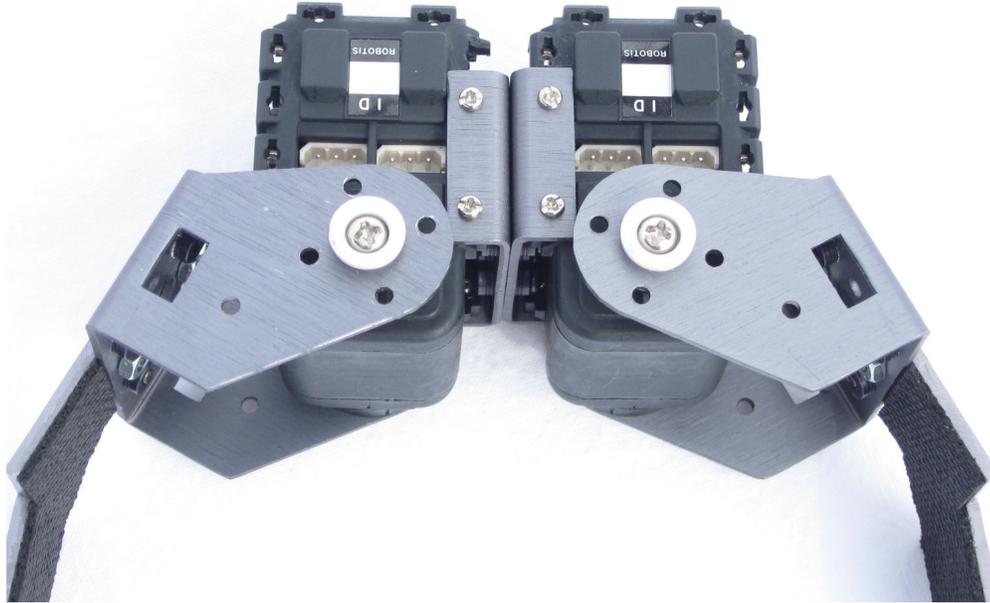
**Figure 4**

5. Install the gripper padding to each of the grippers. Trim off the excess gripper padding evenly and cleanly using the edge of the gripper as a guide.
6. Install the plastic standoff and washer to each of the AX-45 brackets as shown in figure 5. Note that the washer is installed on the inside of the AX-45 bracket.

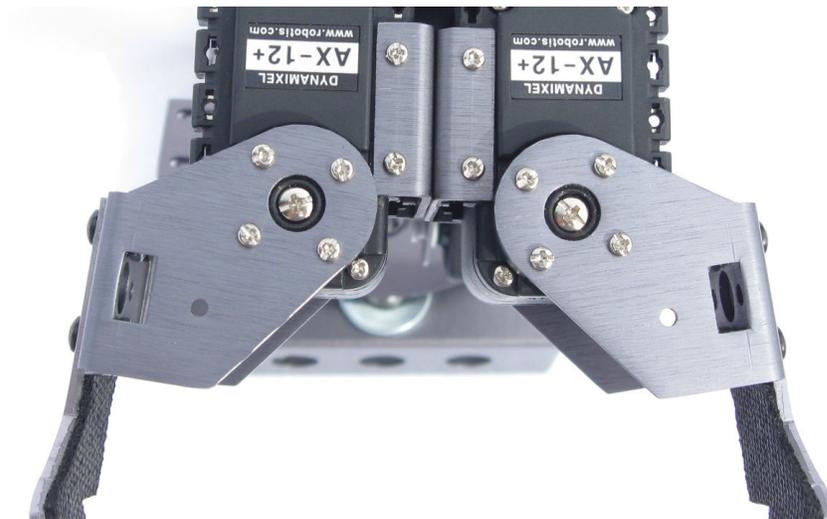


**Figure 5**

- Using (4) 2mm screws and (1) AX-12/18 set screw (1 set for each side of the gripper), install the gripper assembly to the AX-12/18 servo as shown in figure 6 and 7. Be sure that the servo horn is centered before installing the gripper assembly by aligning the center marks of the servo horn.



**Figure 6 – Bottom view**



**Figure 7 – Top view**

8. Install (4) 2mm nuts into the bottom, inside of each of the AX-12/18's servos as shown in figure 8.



Figure 8

9. Using (4) 2mm screws, install the AX-12 Rear bracket to the (2) gripper servos as shown in figure 9.

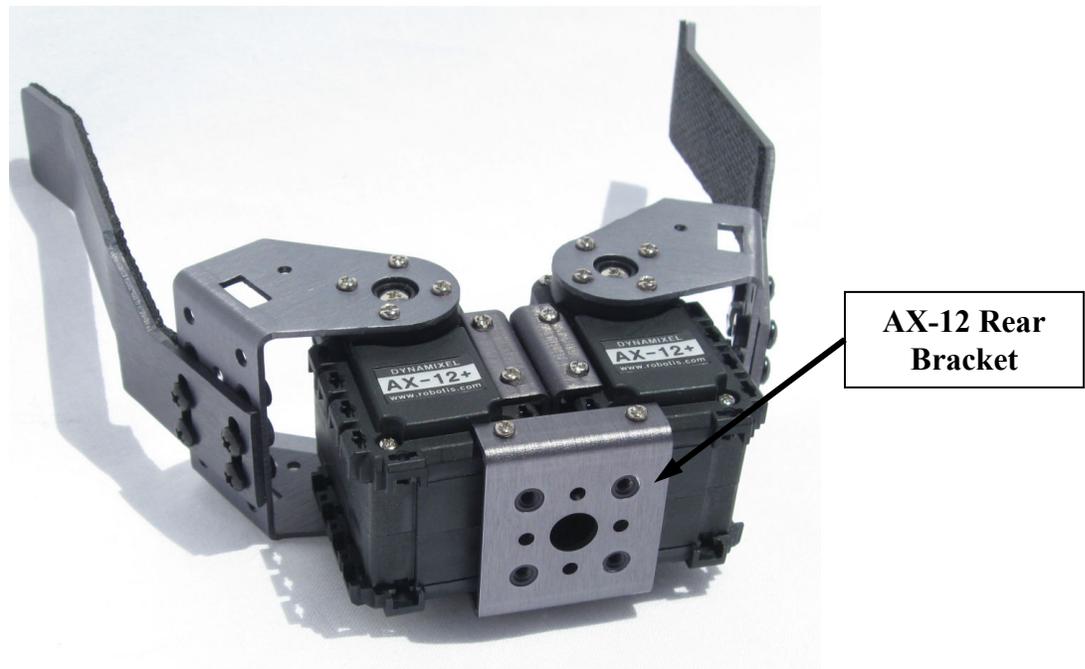


Figure 9

10. Install (4) 2mm nuts into the bottom, inside of the AX-12/18 servo as shown in figure 10.



Figure 10

11. Using (4) 2mm screws, install the AX-12 side bracket to the AX-12/18 servo as shown in figure 11.

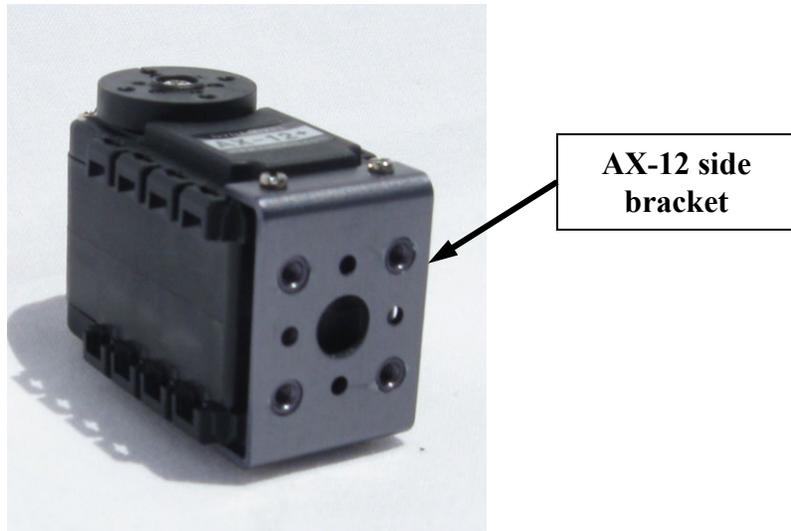
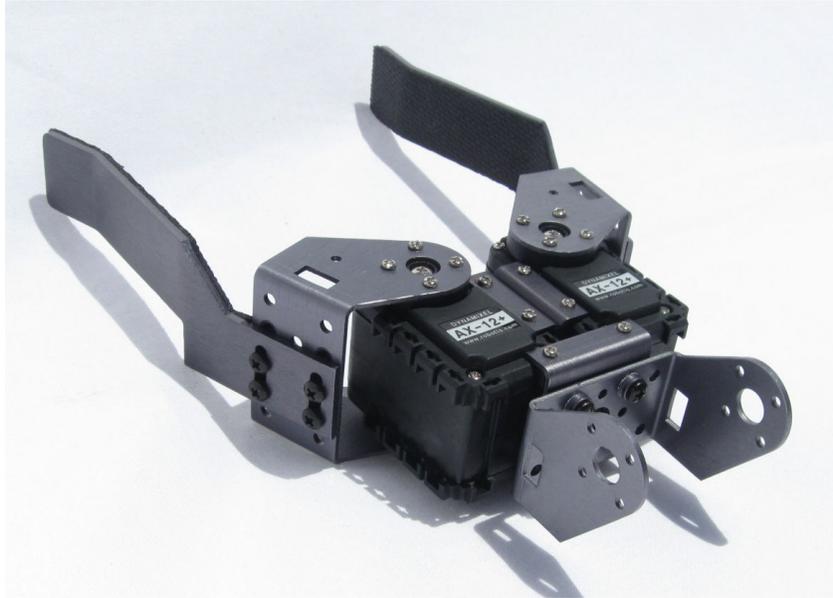


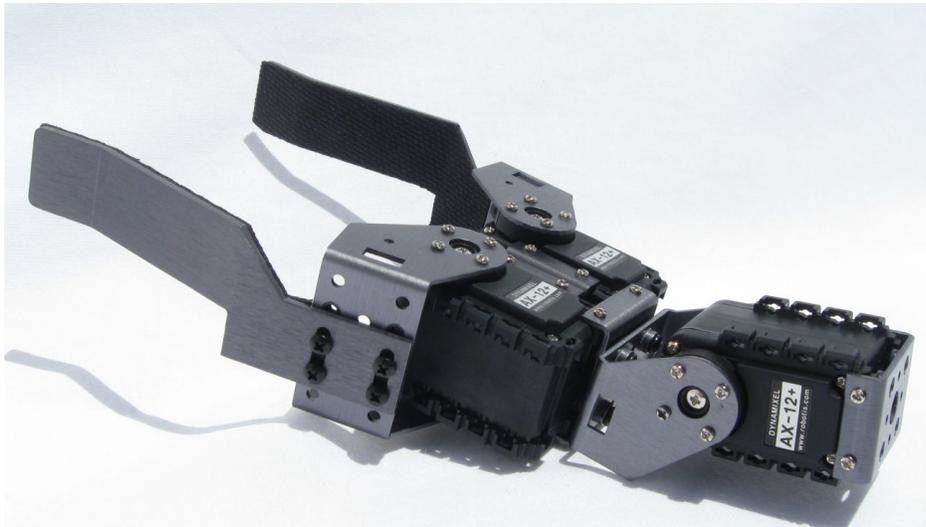
Figure 11

12. Using (4) ¼” screws, install the AX- 45 bracket to the AX-12 rear bracket as shown in figure 12.



**Figure 12**

13. Using (4) 2mm screws, (1) set screw, (1) plastic standoff and (1) spacer install the AX-45 bracket to the AX-12/18 servo as shown in figure 13.



**Figure 13**

- Using (4) #4 1/4" screws, install the gripper assembly to the front of the AX12-18 Smart Hexapods faceplate.

