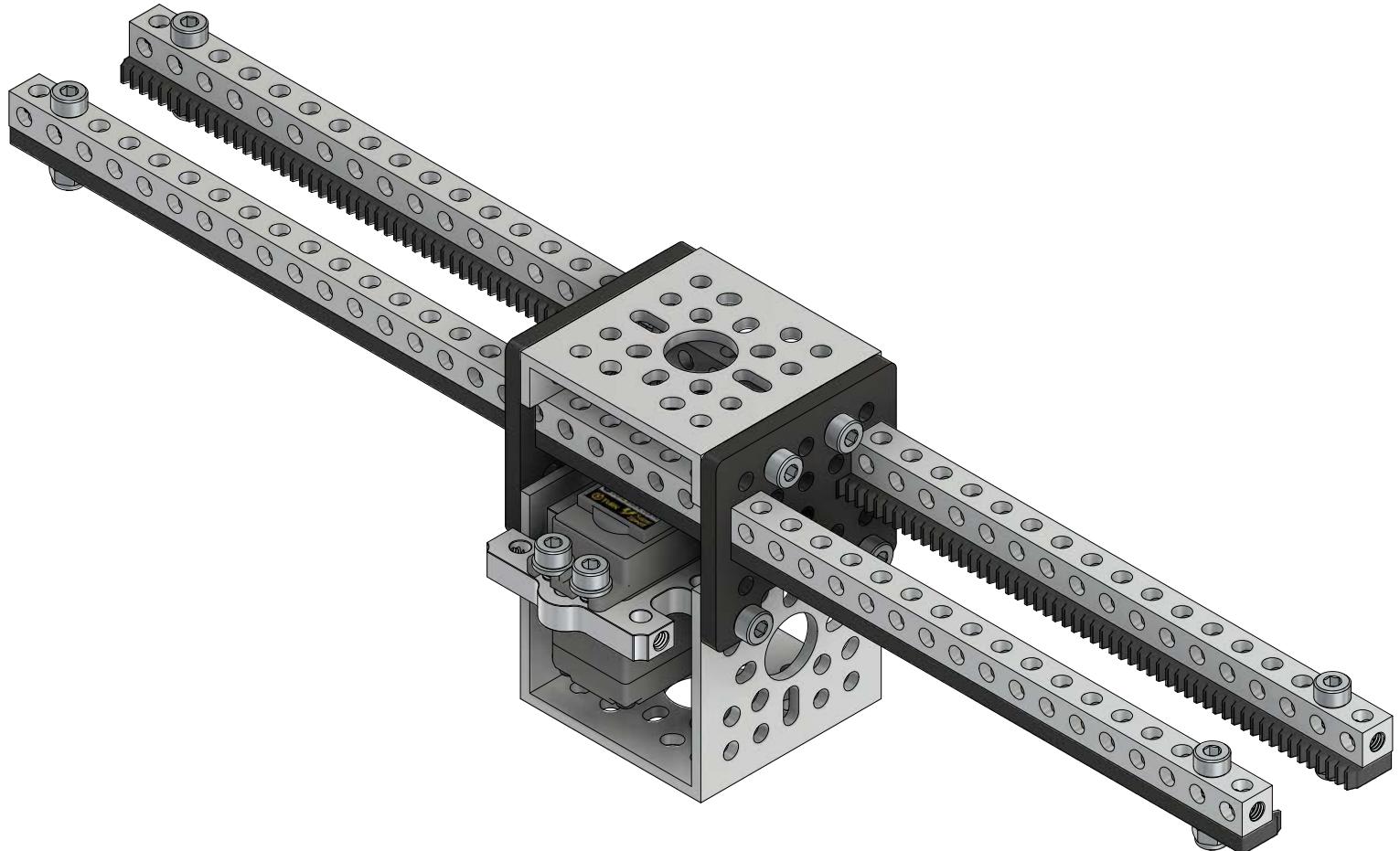
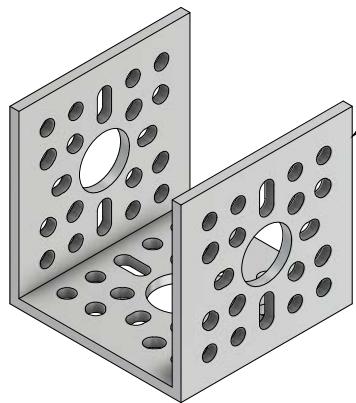




Assembly Instructions for  
**Servo-Driven Gear Rack Kit**  
**(Dual Gear Rack)**  
SKU: 3207-0003-0002



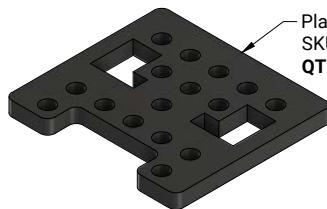
# Kit Contents



1-Hole U-Channel  
SKU: 1120-0001-0048  
QTY: 1

## Tools Required

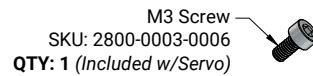
- 2.5mm Hex Key
- 3mm Hex Key
- 7mm Nut Driver



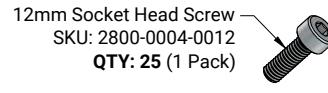
Plastic Grid Bracket  
SKU: 1133-0001-0001  
QTY: 2



41-Hole Square Beam  
SKU: 1106-0041-0328  
QTY: 2



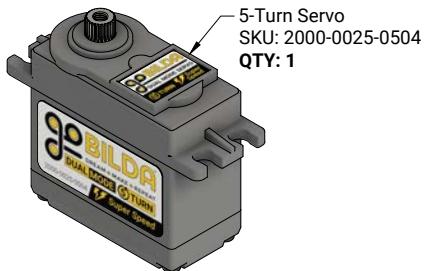
M3 Screw  
SKU: 2800-0003-0006  
QTY: 1 (Included w/Servo)



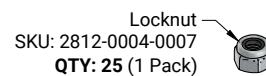
12mm Socket Head Screw  
SKU: 2800-0004-0012  
QTY: 25 (1 Pack)



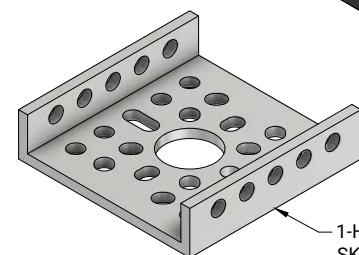
18mm Socket Head Screw  
SKU: 2800-0004-0018  
QTY: 25 (1 pack)



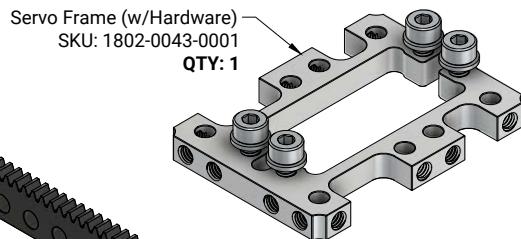
5-Turn Servo  
SKU: 2000-0025-0504  
QTY: 1



Locknut  
SKU: 2812-0004-0007  
QTY: 25 (1 Pack)



1-Hole Low-Side U-Channel  
SKU: 1121-0001-0048  
QTY: 1



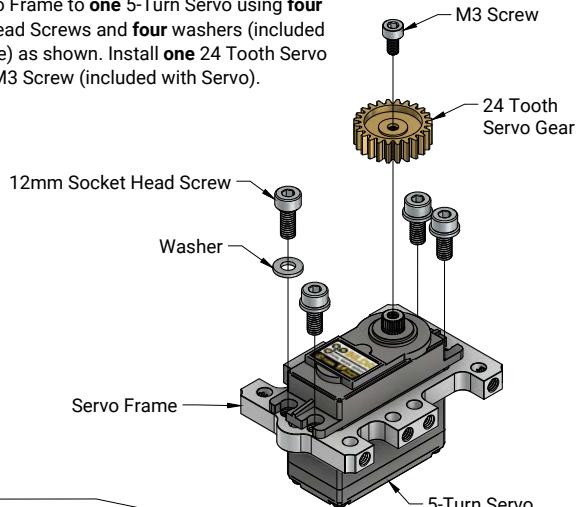
Servo Frame (w/Hardware)  
SKU: 1802-0043-0001  
QTY: 1



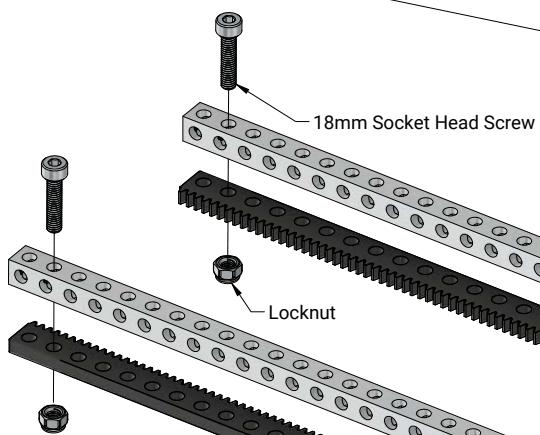
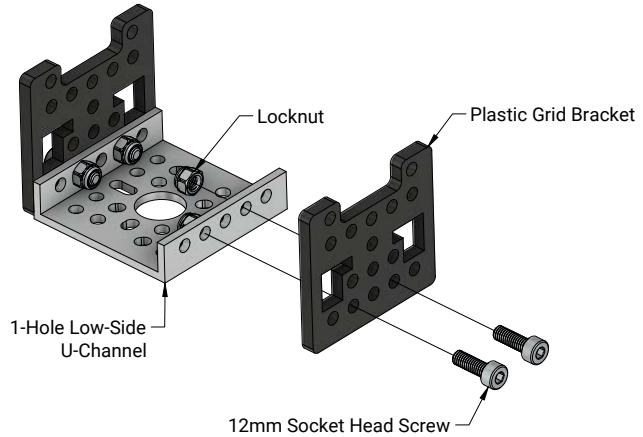
24 Tooth Servo Gear  
SKU: 2305-0025-0024  
QTY: 1

**STEP 1:**

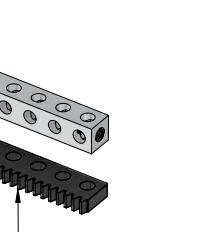
Attach **one** Servo Frame to **one** 5-Turn Servo using **four** 12mm Socket Head Screws and **four** washers (included with Servo Frame) as shown. Install **one** 24 Tooth Servo Gear using **one** M3 Screw (included with Servo).

**STEP 2:**

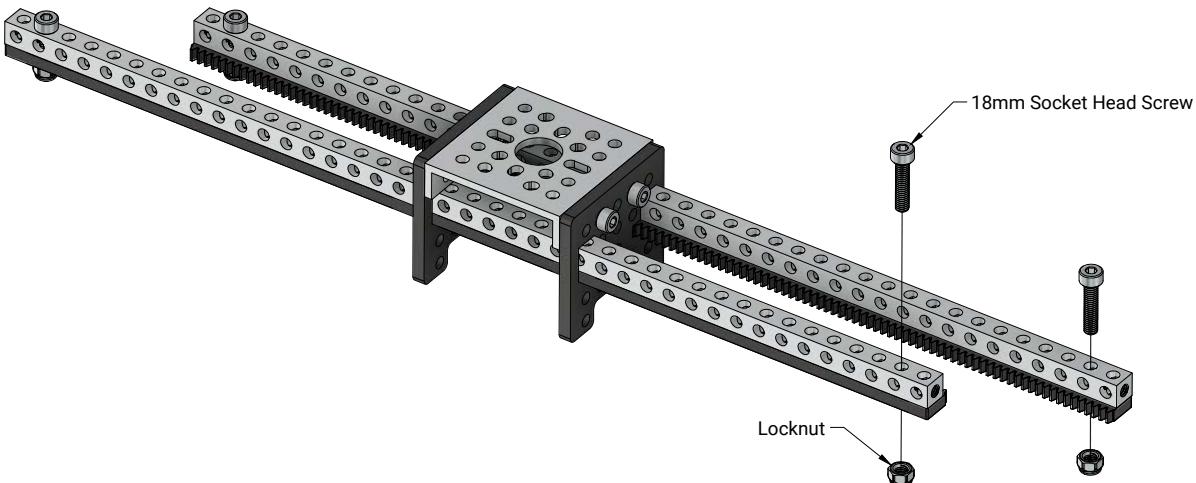
Using **four** 12mm Socket Head Screws and **four** Locknuts, attach **two** Plastic Grid Brackets to **one** 1-Hole Low-Side U-Channel as shown.

**STEP 3: – Gear Rack Subassemblies**

Attach **two** 131 Tooth Gear Racks to **two** 41-Hole Square Beams using **two** 18mm Socket Head Screws and **two** Locknuts as shown.

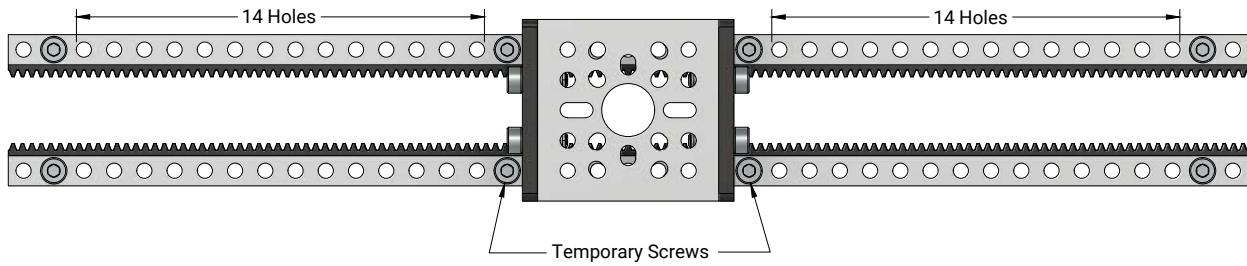
**STEP 4:**

Slide the Gear Rack Subassemblies through the passageways of the Plastic Grid Brackets as shown. Use **two** 18mm Screws and **two** Locknuts to fasten the opposite side of 131 Tooth Gear Racks to the 41-Hole Square Beams.



**STEP 5:**

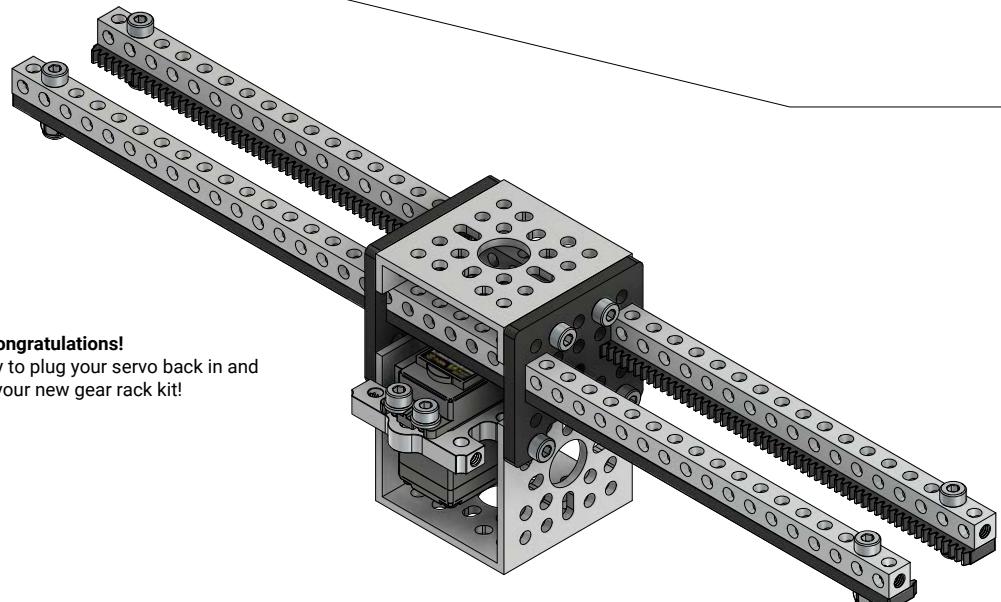
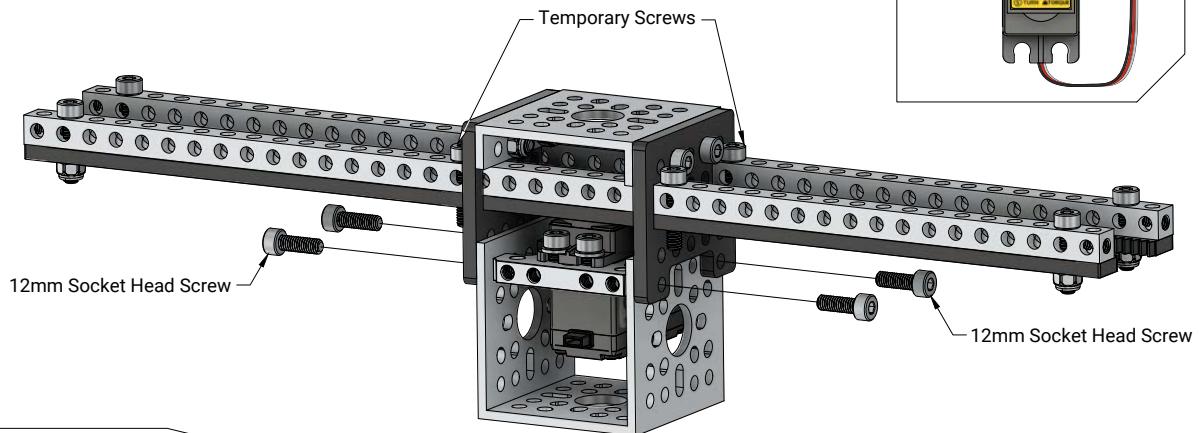
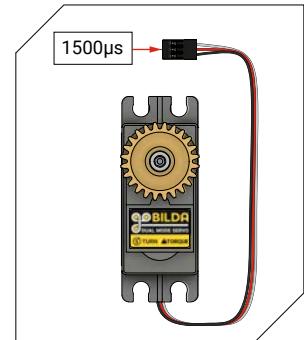
Center both Gear Racks so that four temporary screws can be inserted into the Square Beams as shown to keep it centered while completing **STEP 6**.

**STEP 6:**

Plug the servo into your servo controller and center the servo by sending a 1500 $\mu$ s PWM signal (**Figure 6-A**), then unplug the servo.

Attach the Servo Sub-Assembly using **four** 12mm Socket Head Screws as shown.

Remove the Temporary Screws.

**Figure 6-A****Congratulations!**

You are now ready to plug your servo back in and test out your new gear rack kit!