



## 6 SIGMA 6S-80 Assembly Documentation Instructions

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### 6 SIGMA 6S-80 Assembly Documentation



### Product Specifications

- Model: 6S-80
- Dimensions: Various sizes ranging from 40mm to 1200mm in length
- Material: Aluminum extrusions
- Includes: Various brackets, angles, nuts, screws, and T-nuts

## **Product Usage Instructions:**

### **Assembly**

1. Ensure you have all the necessary parts as listed in the manual.
2. Follow the step-by-step assembly instructions provided in the manual.
3. Pay attention to safety guidelines such as wearing goggles when handling sharp edges.
4. Protect the product from scratches by using a towel or blanket when assembling on hard surfaces.

### **Step-by-Step Assembly**

1. **Step 1:** Install 4-40×40 angle with M8 T-Nuts and screws.
2. **Step 2:** Attach 6-80×80 bracket and 3-40x80x500 angle as instructed.
3. **Step 3:** Use 2-40x80x1200 extrusions with 6-foot pad and M8 T-Nuts.
4. **Step 4:** Follow the instructions for the specific component provided (320 [122] in this case).
5. **Step 5:** Install 2-40x80x400 extrusions according to the manual.
6. **Step 6:** Secure parts using M8 nuts, T-Nuts, and screws as specified.
7. **Step 7-12:** Follow the remaining steps in the assembly process.

### **Frequently Asked Questions (FAQ):**

#### **Q: What should I do if I encounter difficulties during assembly?**

A: If you face any challenges during assembly, refer to the detailed instructions provided in the manual or contact our customer support for assistance.

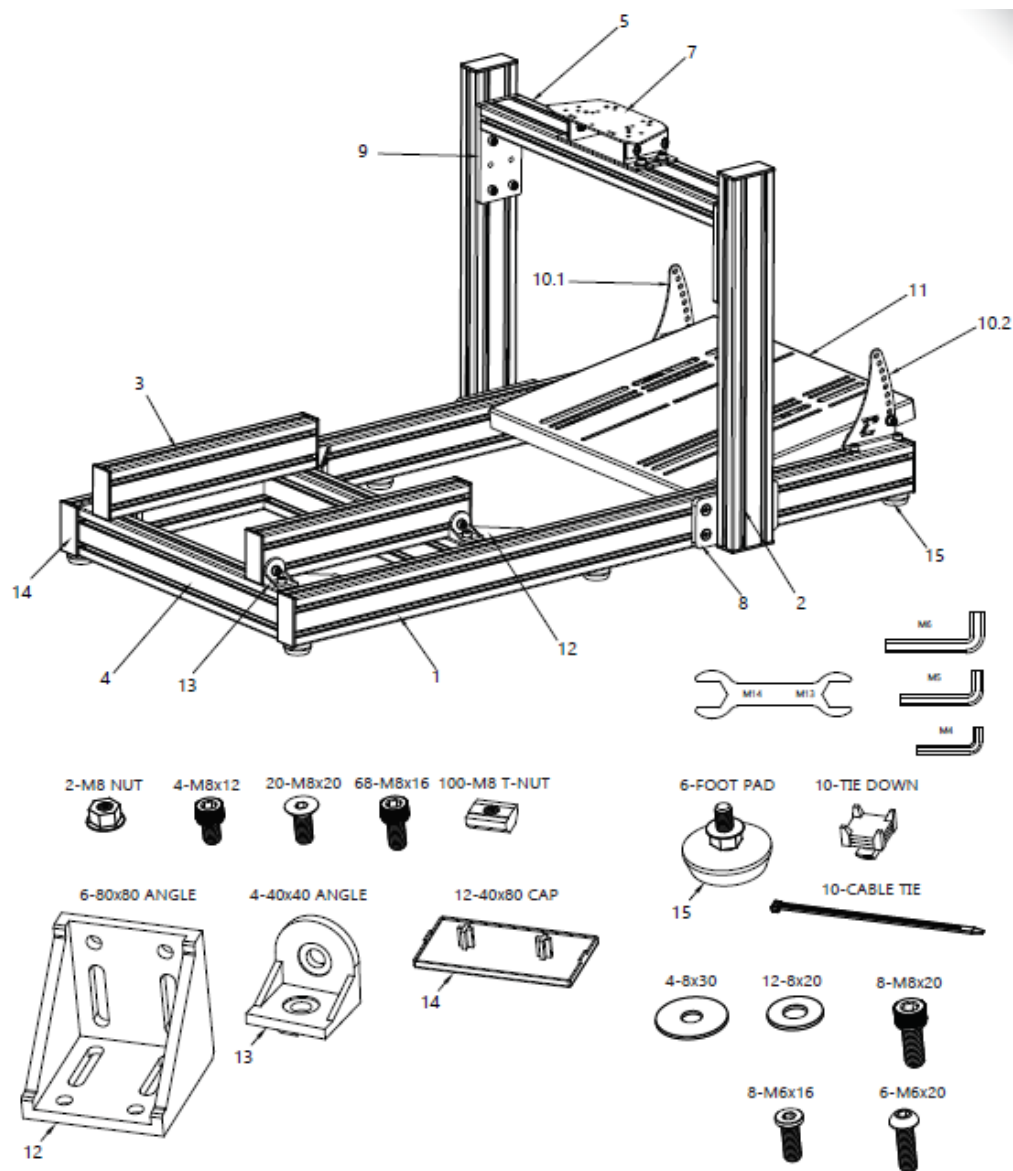
### **Assembly Documentation**

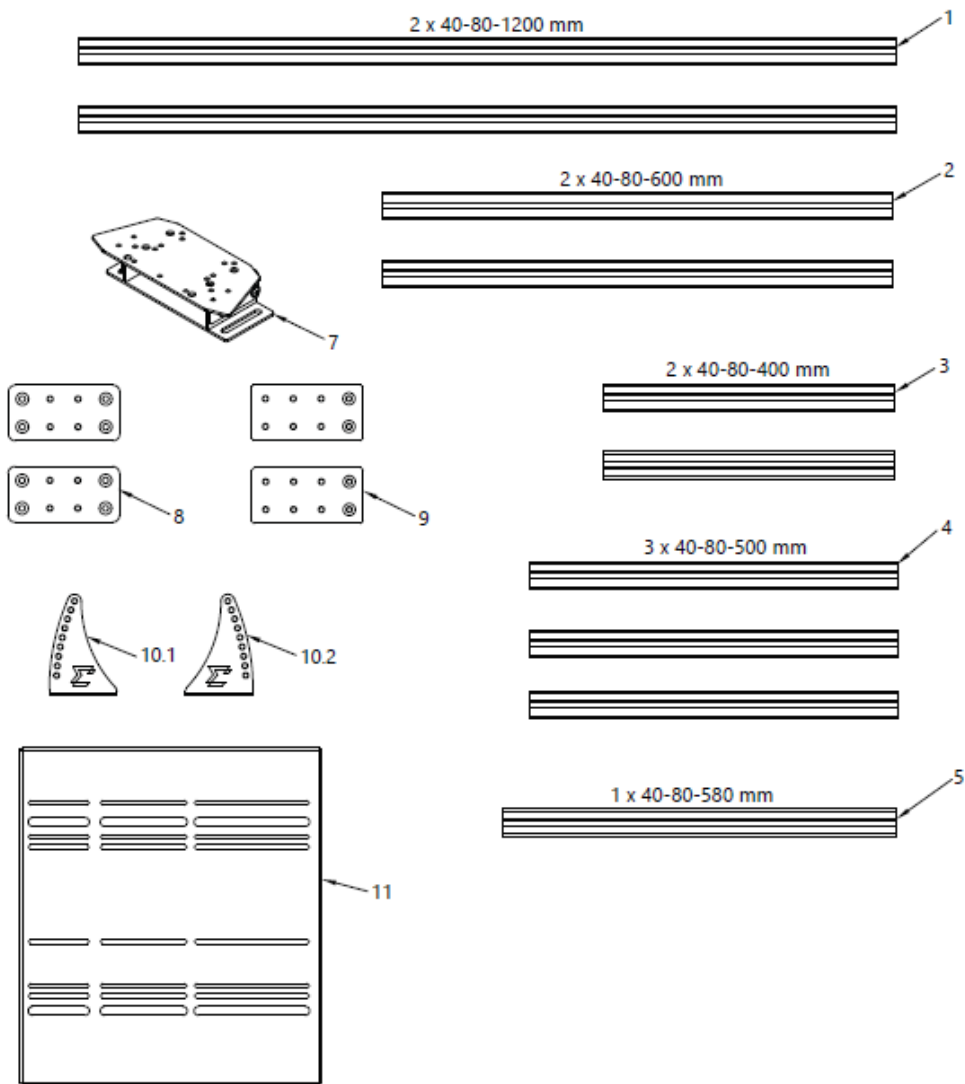
(Shown with optional 6 SIGMA label plate.)

(Shown with optional shifter mount and mouse pad kit.)

Need help? Email: [info@6sigmasimracing.com](mailto:info@6sigmasimracing.com) Toll-free: 1-[888-608-6161](tel:888-608-6161)

### **PARTS**





## NOTES

### Safety First

Be mindful of any sharp edges. Use safety goggles whenever removing tabs from angle brackets.



### Protect From Scratches

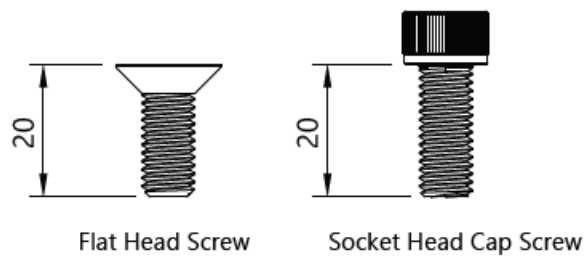
Hard surfaces can damage the surfaces of the aluminum extrusions.  
Use a towel or blanket when assembling on hard surfaces to protect the finishes.

### How to measure screws

Flat head screws are measured based on their overall length.  
Socket head cap screws are measured based on the length under the head of the screw.

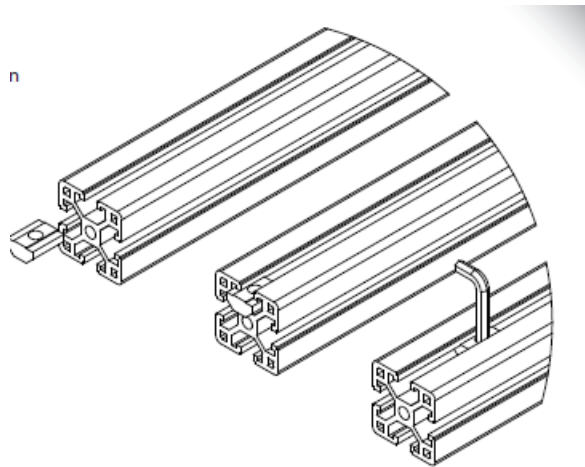
## Metric Conversions

- 25.4 mm = 1"
- 16 mm = 5/8"
- 20 mm = 25/32"
- 320 mm = 12 9/16"
- 400 mm = 15 3/4"
- 500 mm = 19 11/16"
- 580 mm = 22 13/16"
- 700 mm = 27 9/16"
- 1200 mm = 47 1/4"



## T-Nut Installation

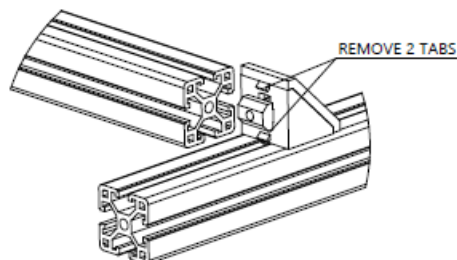
Be mindful of the order of installation and plan out the insertion of T-nuts.

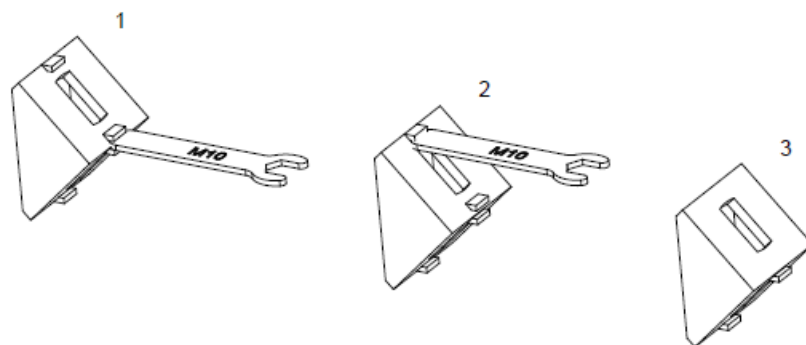


## Alignment Tab Removal

Tabs on brackets may need to be removed if they interfere with the installation of an extrusion as shown to the right.

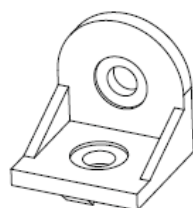
2 – tabs need to be removed from 4 brackets





# STEP 1

4-40x40 ANGLE



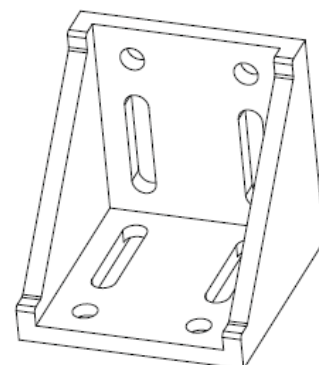
56-M8 T-NUT



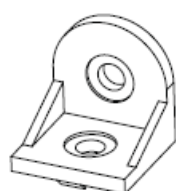
56-M8x16



6-80x80 ANGLE



4-40x40 ANGLE



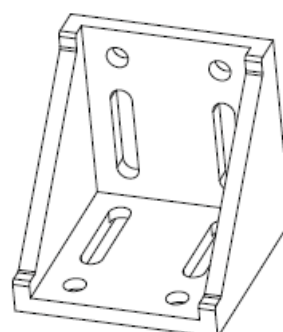
56-M8 T-NUT



56-M8x16

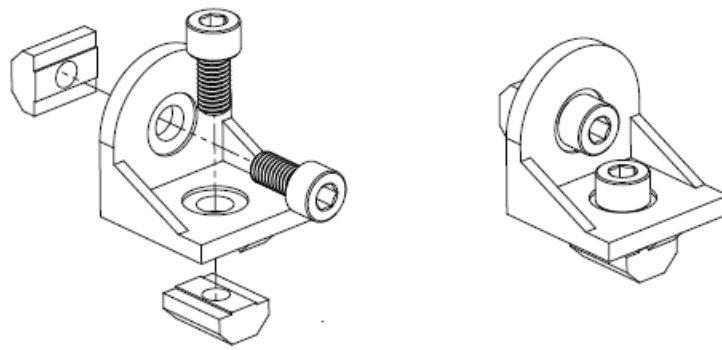


6-80x80 ANGLE



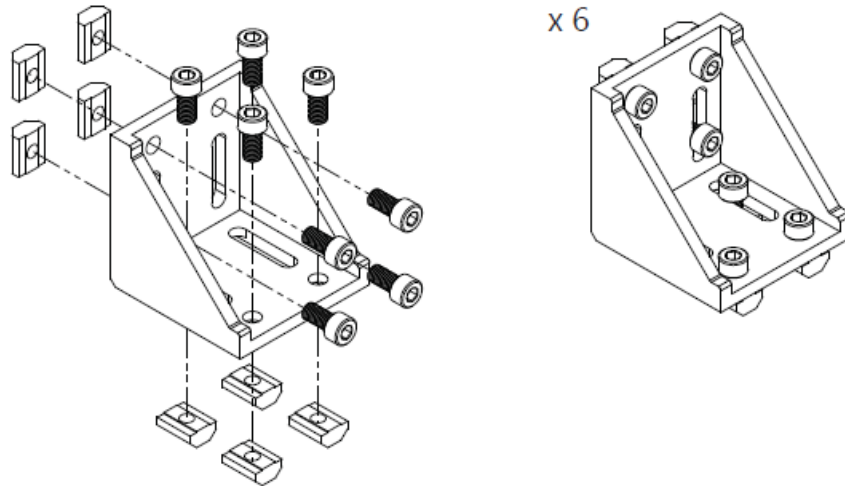
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x 4



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x 6

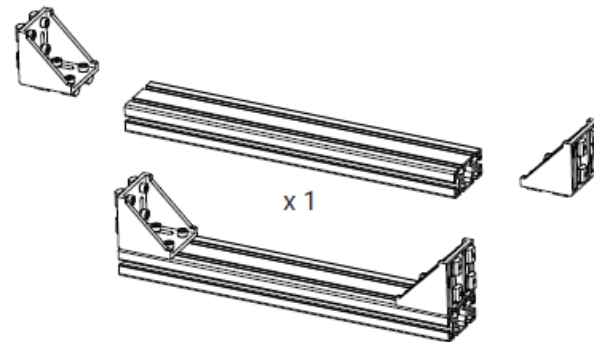
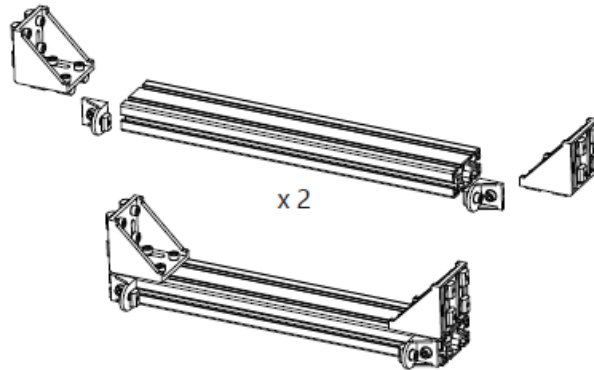
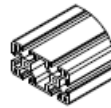
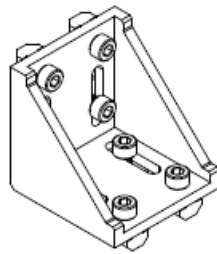


## STEP 2

6-80x80 BRACKET

3-40x80x500

4-40x40 ANGLE

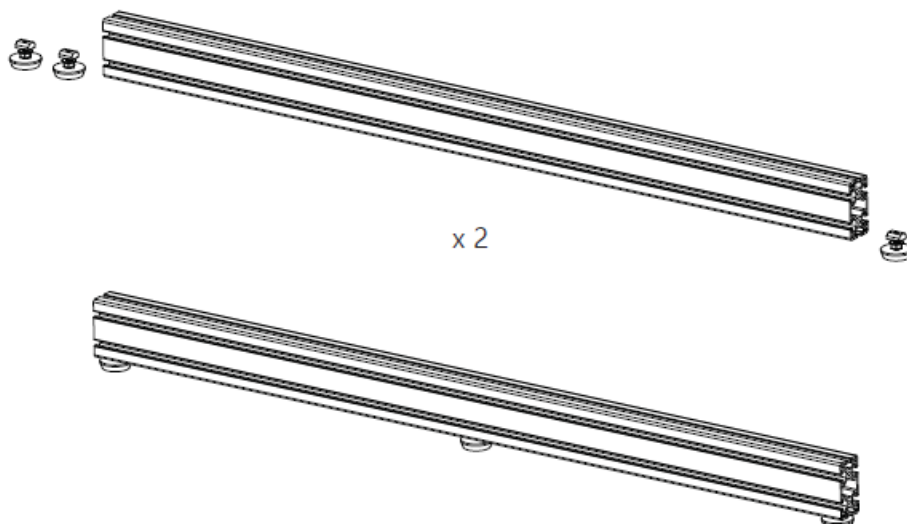
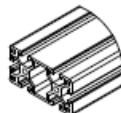
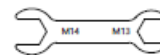


## STEP 3

2-40x80x1200

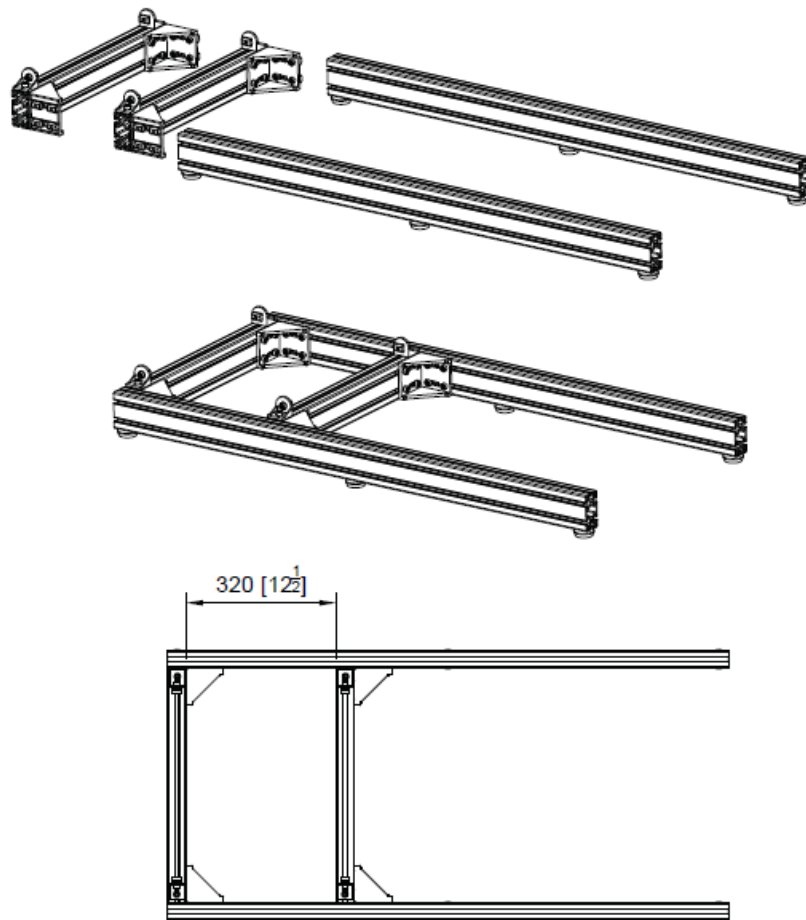
6-FOOT PAD

6-M8 T-NUT



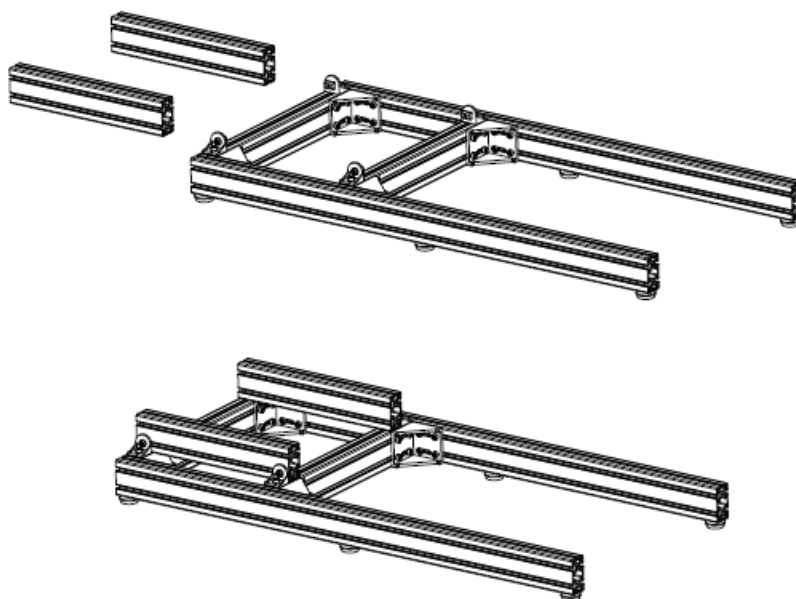
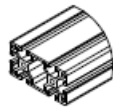


## STEP 4



## STEP 5

2-40x80x400



## STEP 6

2-M8 NUT



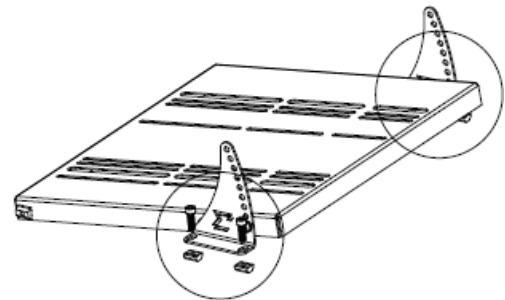
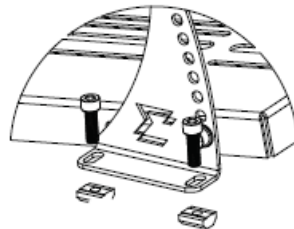
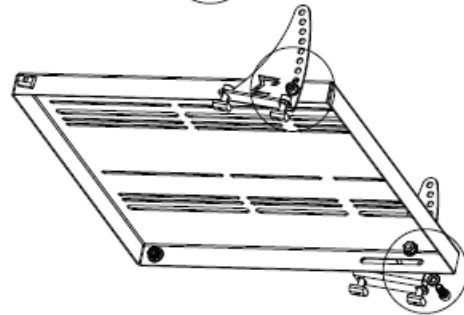
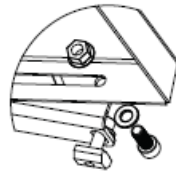
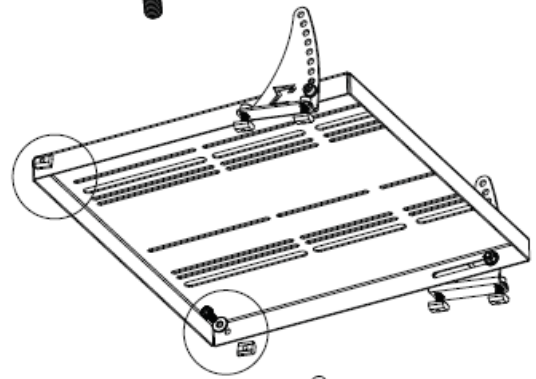
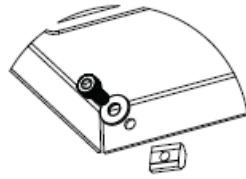
8-M8 T-NUT



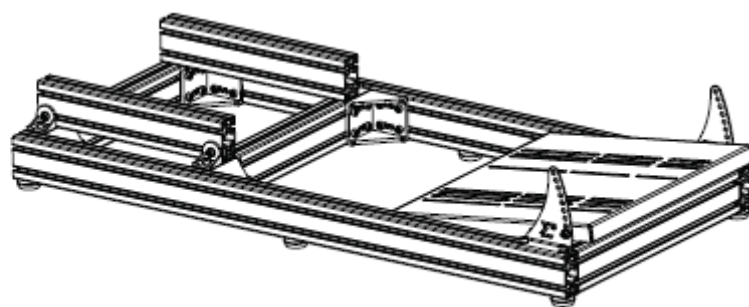
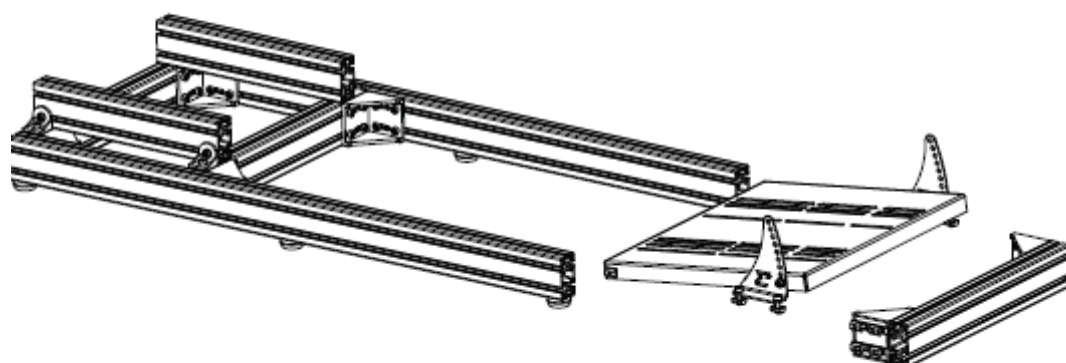
8-M8x16



4-8x20



## STEP 7



# STEP 8

2-40x80x600



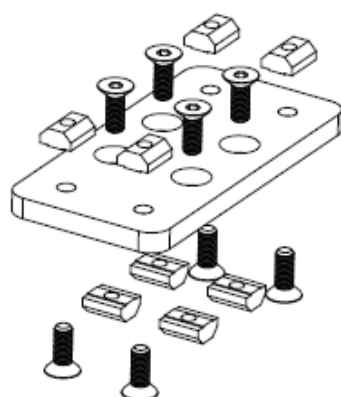
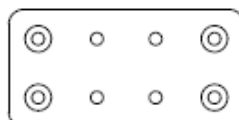
16-M8 T-NUT



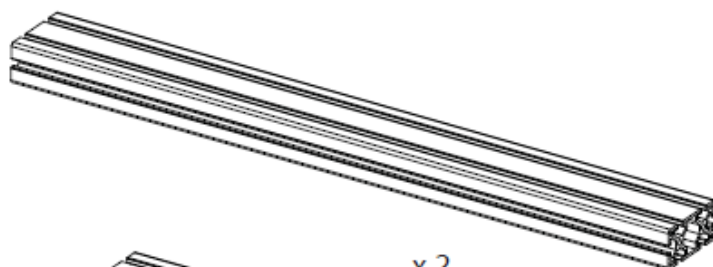
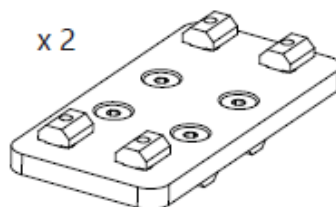
16-M8x20



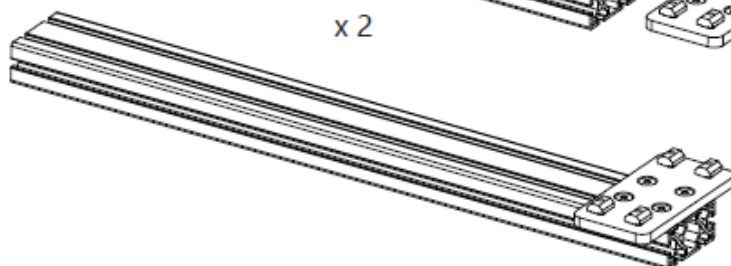
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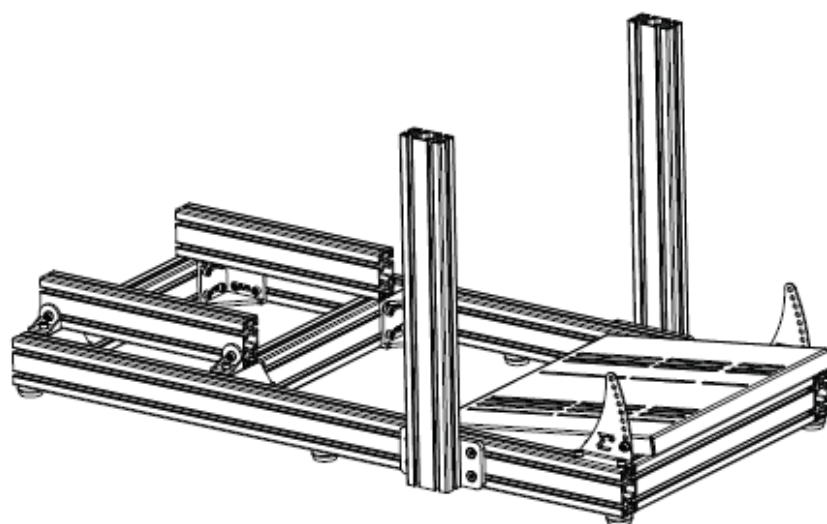
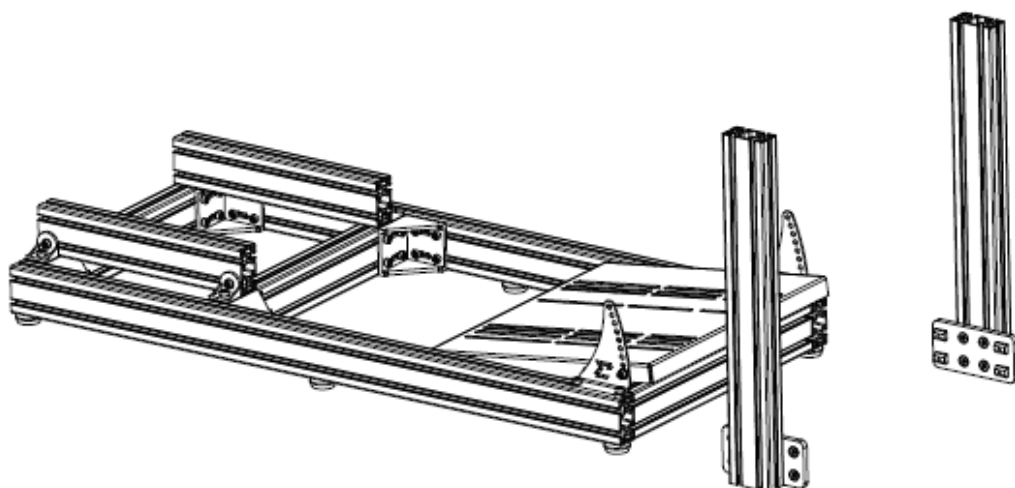
x 2



x 2

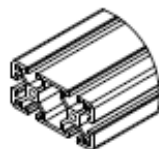


## STEP 9



# STEP 10

1-40x80x580



12-M8 T-NUT



4-M8x20



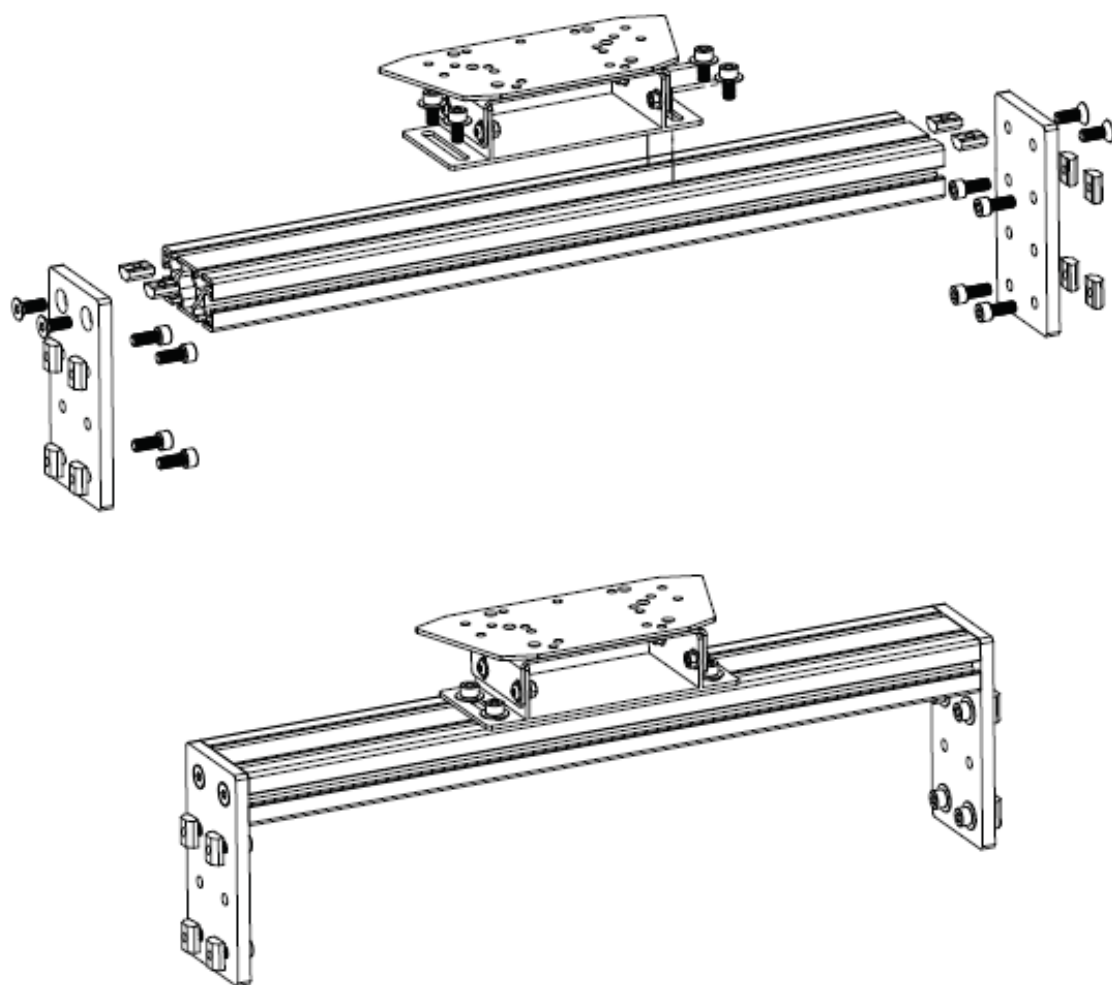
12-8x20



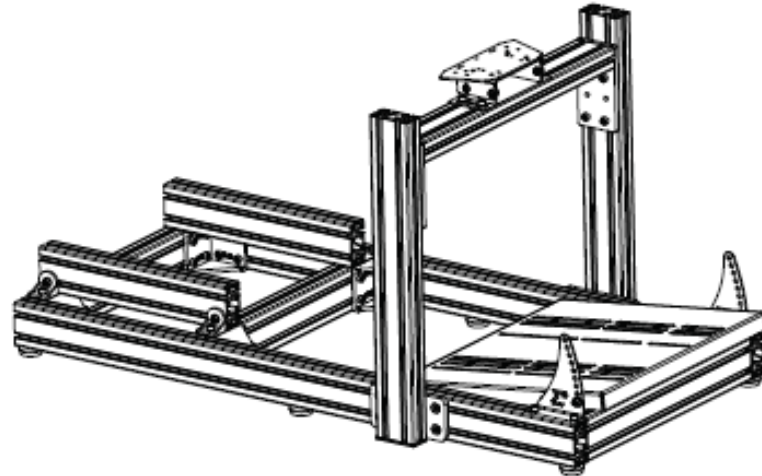
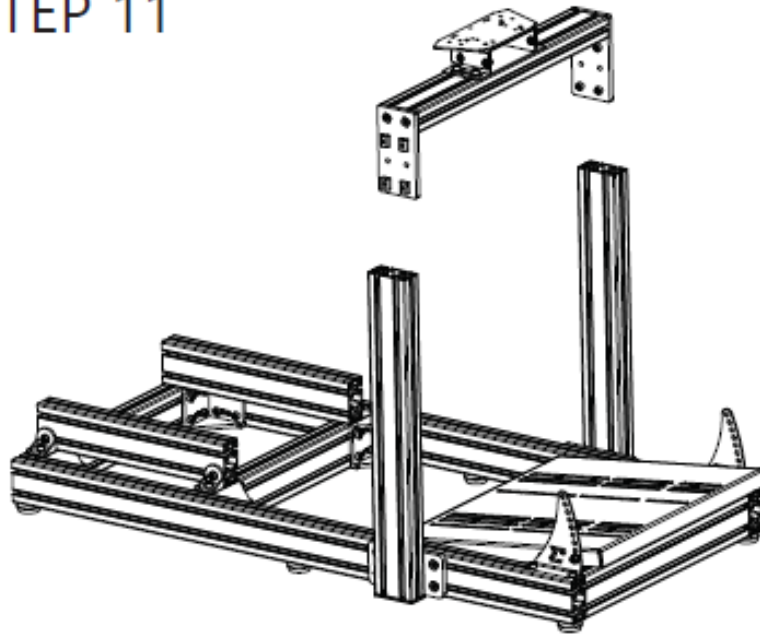
4-M8x12



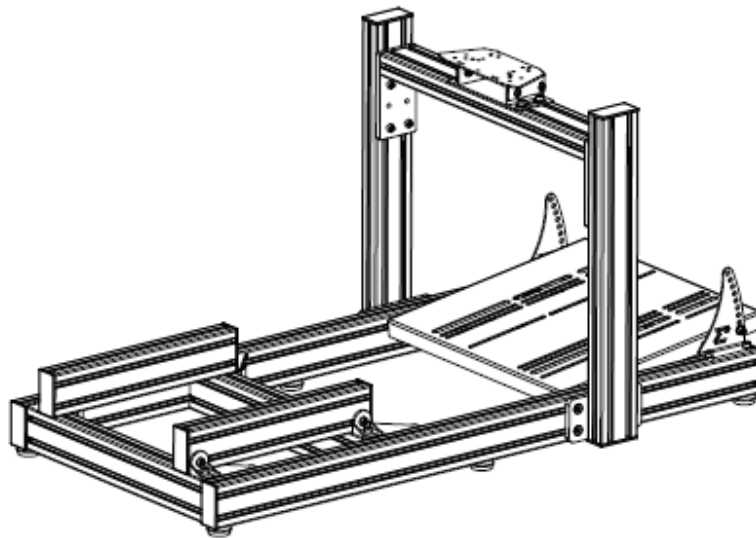
8-M8x20



## STEP 11



## STEP 12



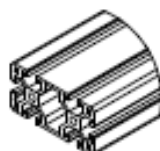
**SHIFTER MOUNT AND MOUSE PAD KIT (OPTIONAL)**



1-40x40x320



1-40x80x580



9-M8 T-NUT



6-M6 NUT



3-M8x20



6-M6x20



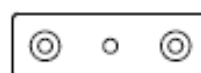
2-M8x16



x 2



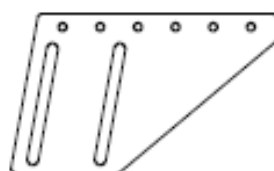
1-MOUNTING PLATE



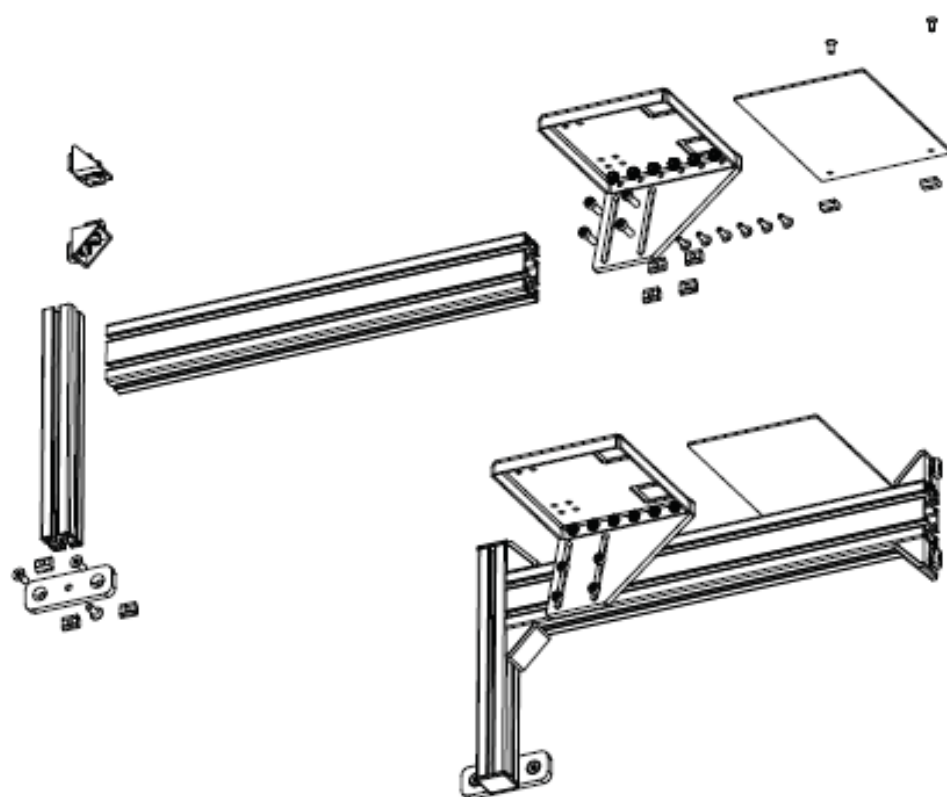
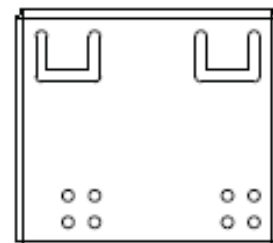
MOUSE PAD

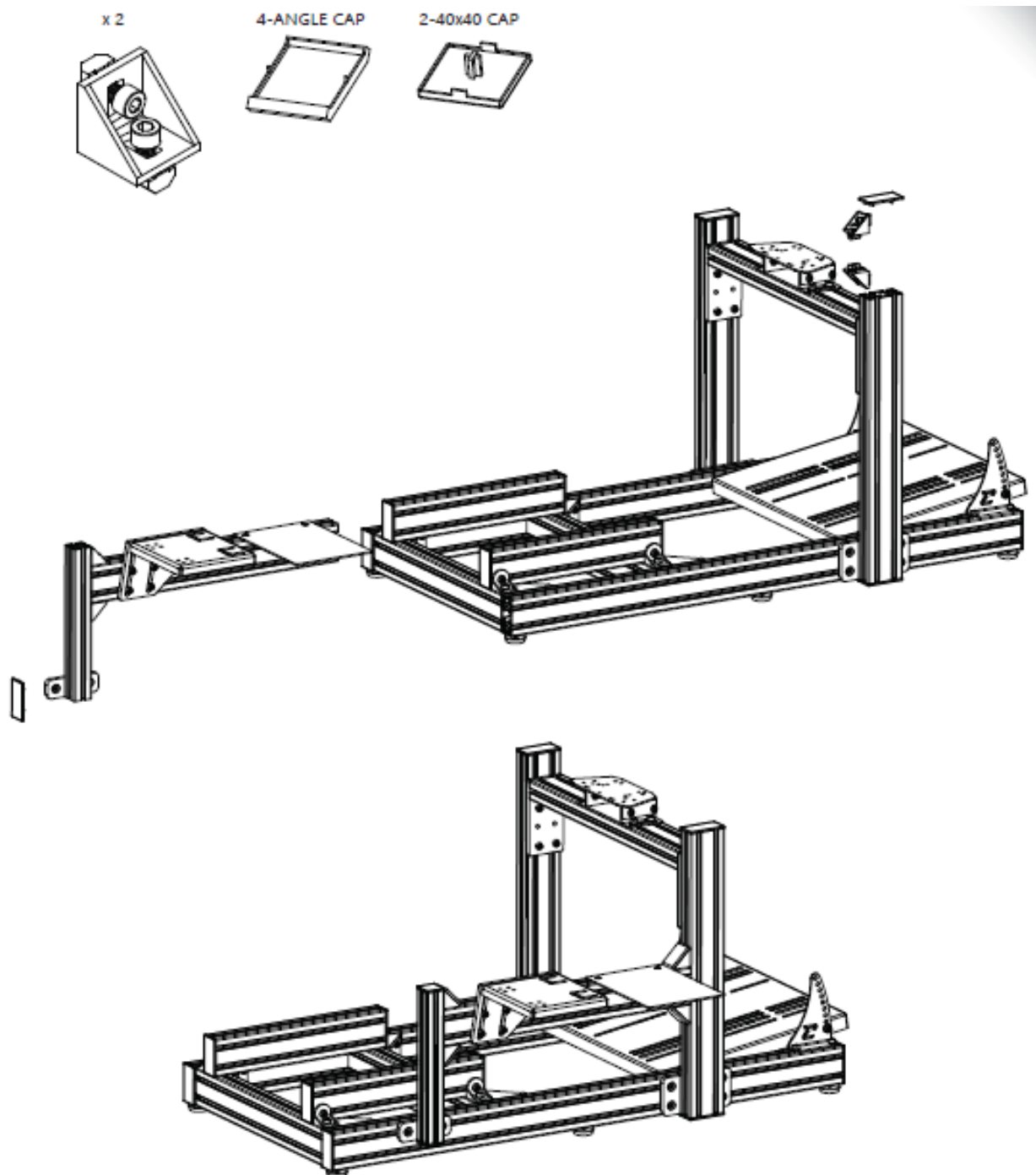


SHIFTER MOUNT BRACKET



SHIFTER MOUNT





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## Documents / Resources



[6 SIGMA 6S-80 Assembly Documentation](#) [pdf] Instructions  
6S-80 Assembly Documentation, 6S-80, Assembly Documentation, Documentation

## References

- [User Manual](#)

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