



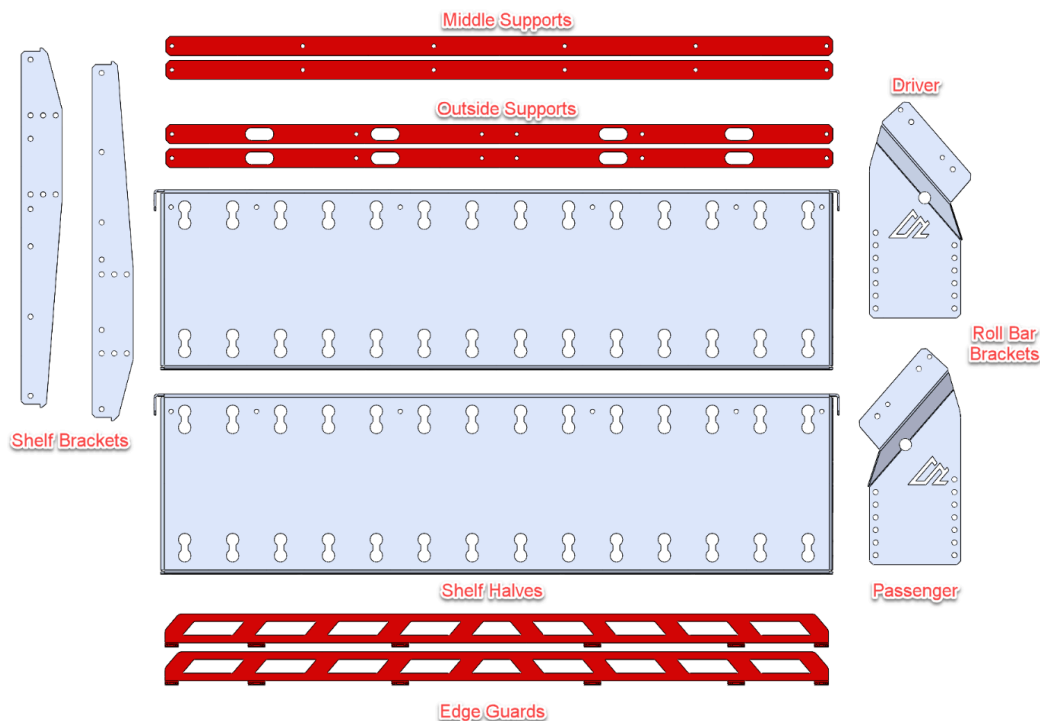
INSTRUCTIONS

JEEP JL M.A.S.S. CARGO SHELF - HARDTOP

Thank you for purchasing your Jeep JL - M.A.S.S. Cargo Shelf from AAL! We greatly appreciate your trust in our company. We take that purchase and your commitment to us very seriously. If you have any questions along the way, please don't hesitate to give us a call at 385.202.4188.

Step 1 - Lay Out All Components

To prepare the installation, it's beneficial to familiarize yourself with the individual components. Lay out the pieces like below.



Hardware Included:

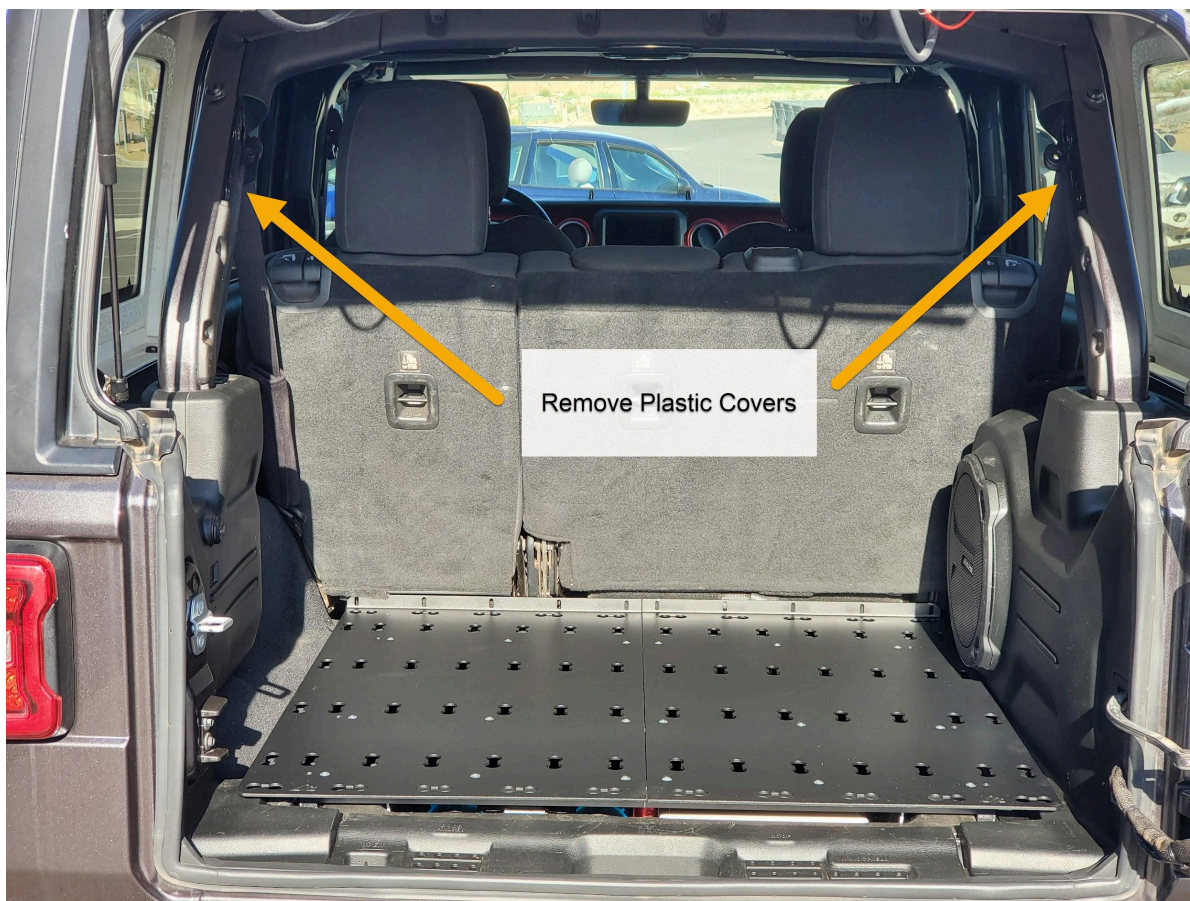
- M8x20 Button Head Bolts (x12)
- M8 Nyloc nuts (x8)
- M6x20 Button Head Flange Bolts (x10)
- M6 Nuts (x42)
- M6x14 Button Head Bolts (x34)

Notes:

- The two Shelf Brackets are mirrors of each other.
- The two Middle Supports are identical
- The two Outside Supports are identical
- The two Shelf Halves are identical
- The Roll Bar Brackets are mirrors of each other.

Step 2 - Remove Plastic Covers from Roll Bar

The plastic covers can be removed by hand. There is one located on each roll bar to cover up the mounting holes. In case you're wondering, these bungs are here to mount the OEM soft top.



After the covers are removed, your roll bars will look like this.



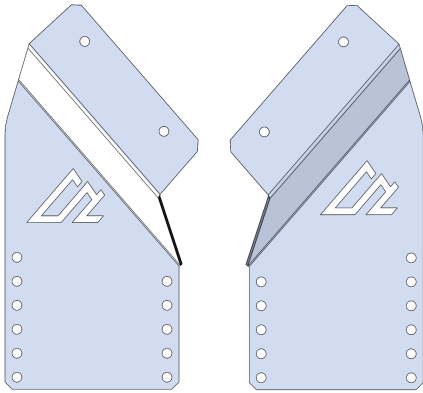
Step 3 - Install Roll Bar Brackets

You Will Need:



**(4) M8x20mm Button Head Bolts
5mm Allen Wrench**

Note: There are 12 of these bolts included in the hardware kit. All of the others are M6 button head bolts.

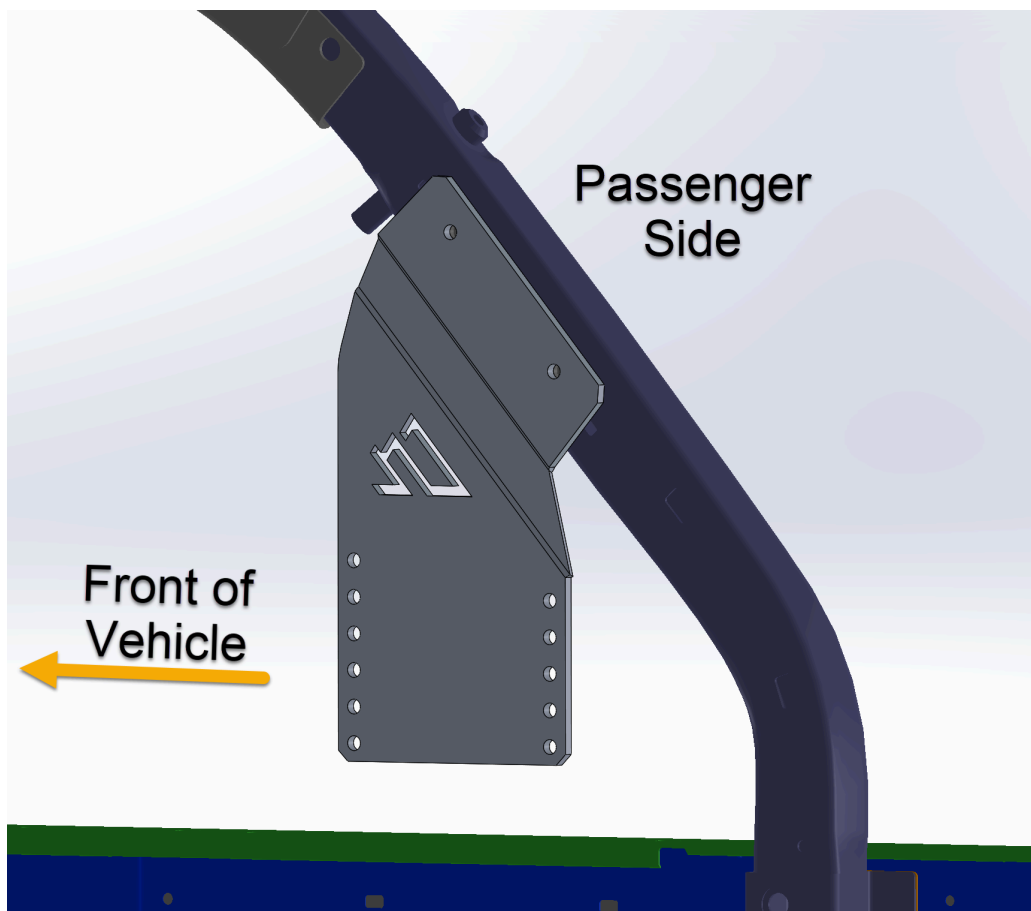


Both Roll Bar Brackets



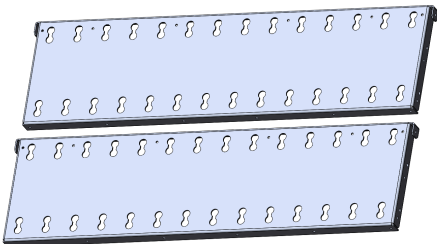

Notes:

- In the diagram to the left, the driver's side bracket is on the left and the passenger bracket is on the right.
- The AAL logos will look correct from outside of the vehicle, not the inside.

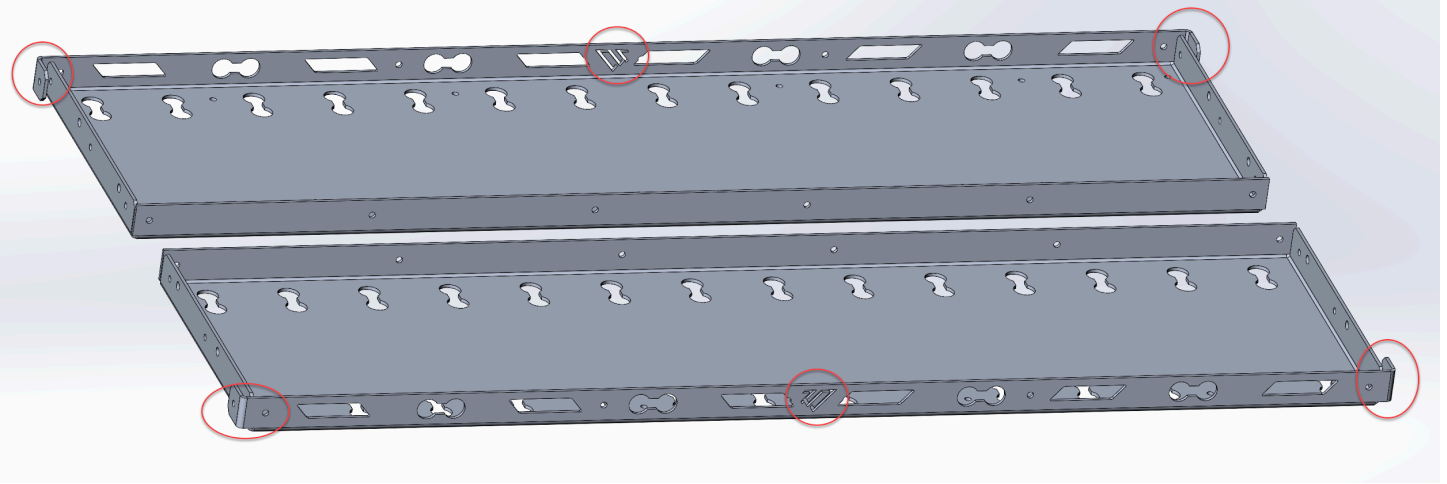
Using the supplied M8 button head bolts, attach the Roll Bar Brackets to the Roll Bar and keep them very loose so the brackets move freely. These need to remain loose so we can slide the shelf between the brackets easily in a future step.



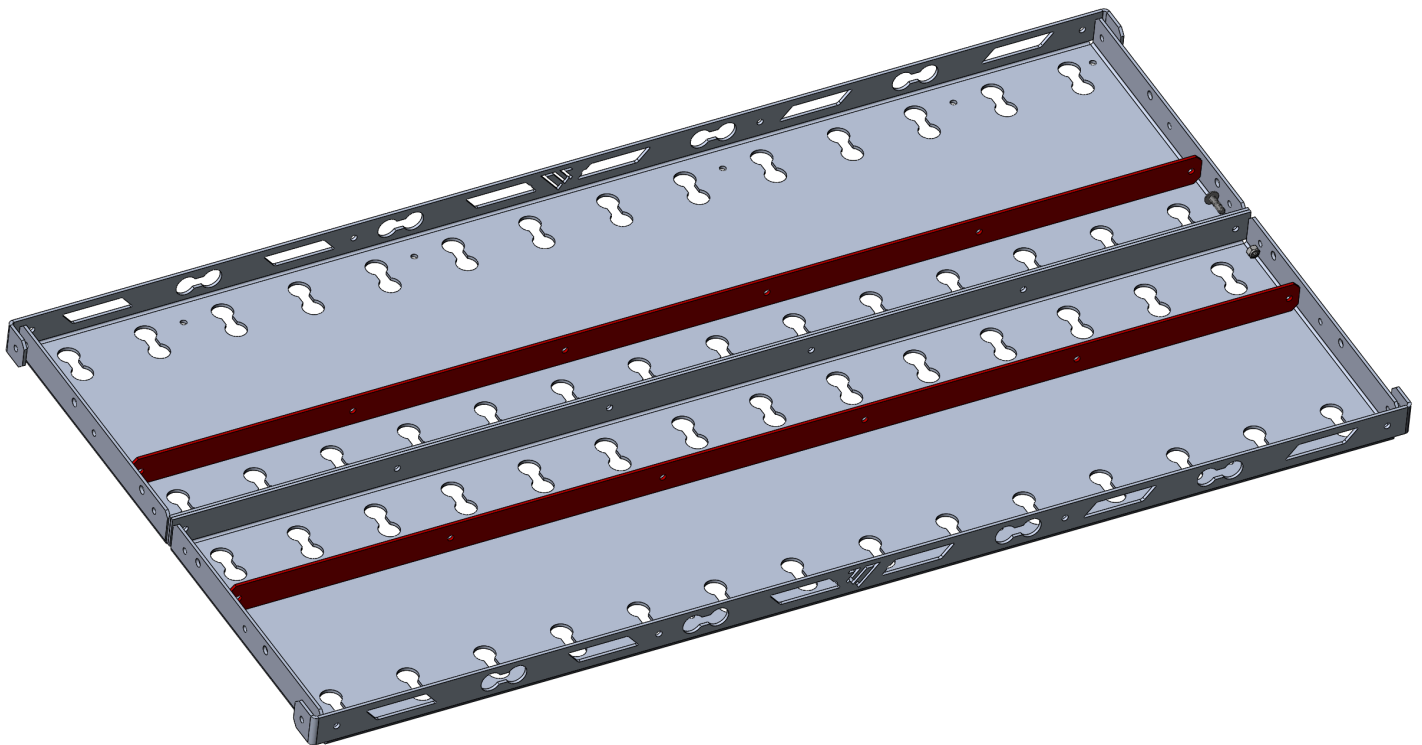
Step 4 - Connect the Shelf Halves

You Will Need:	
	(6) M6x20mm Button Head Flange Bolts 4mm Allen Wrench
	(6) M6 Nylon Lock Nuts 10mm Wrench
	Both Shelf Halves
	Both Middle Supports Note: These are the ones without the oval holes in them.

Lay the shelf halves on a flat surface, with the edge flanges pointed upward, like the photo below. Be sure to position them with the AAL logos on the outsides (circled in the center of each shelf half). You can also pay attention to the corner edge flanges to help you orient the shelf halves.



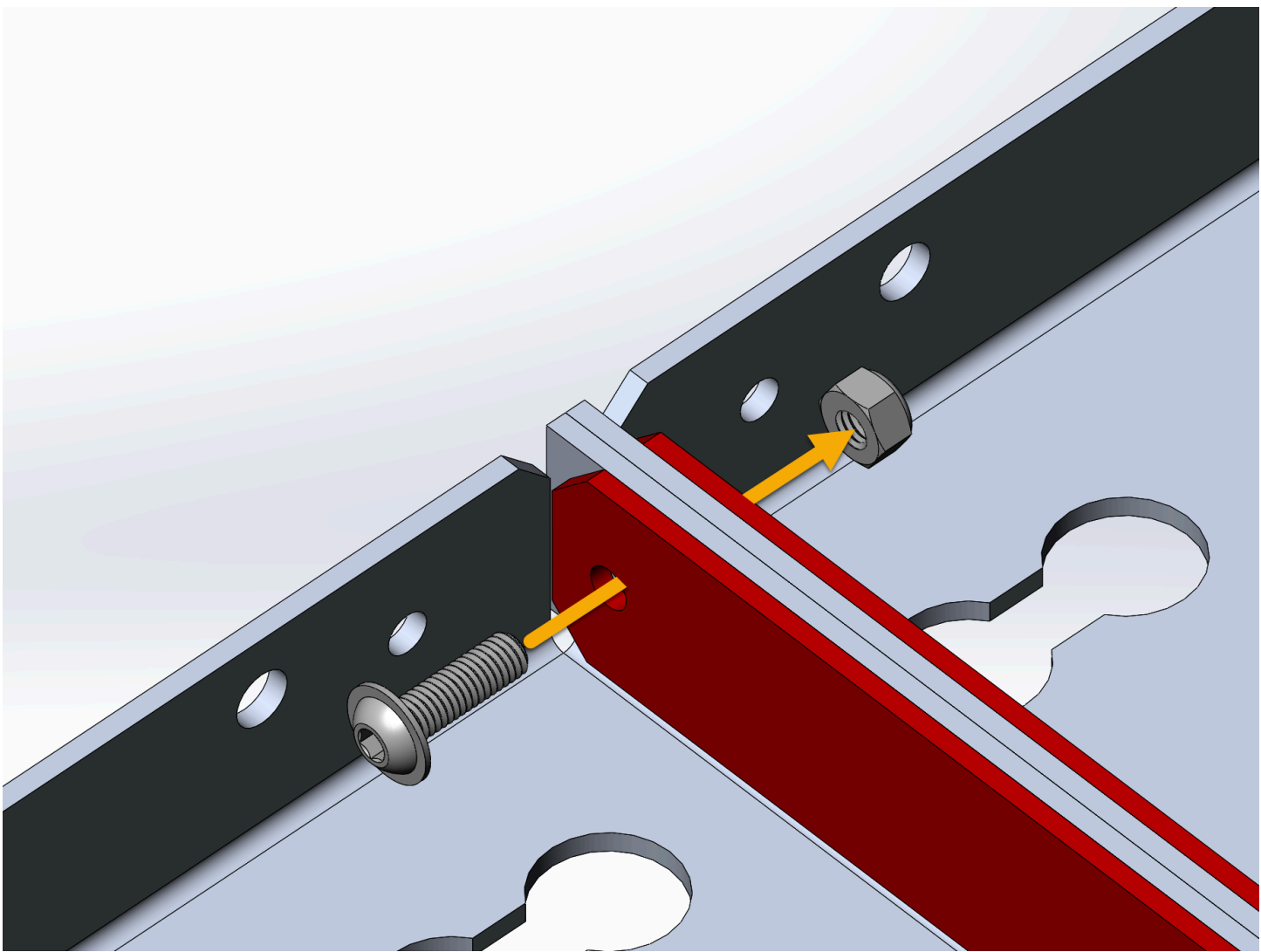
Next, add the Middle Supports (in red below) to the mix. The Middle Supports sandwich the middle shelf flanges when installed.





Then, use the M6 button head flange bolts and M6 nylon lock nuts to secure it all together.

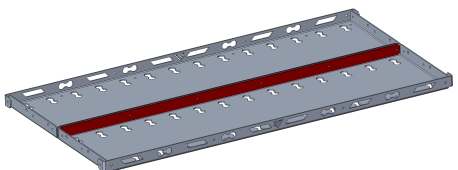

VERY IMPORTANT

Keep all of the hardware extremely loose at this point. Due to varying thicknesses of powder coat, there is an intentional gap between the two main panels. If you tighten the hardware at this point, the side brackets may not line up perfectly, depending on your powder coat choice.

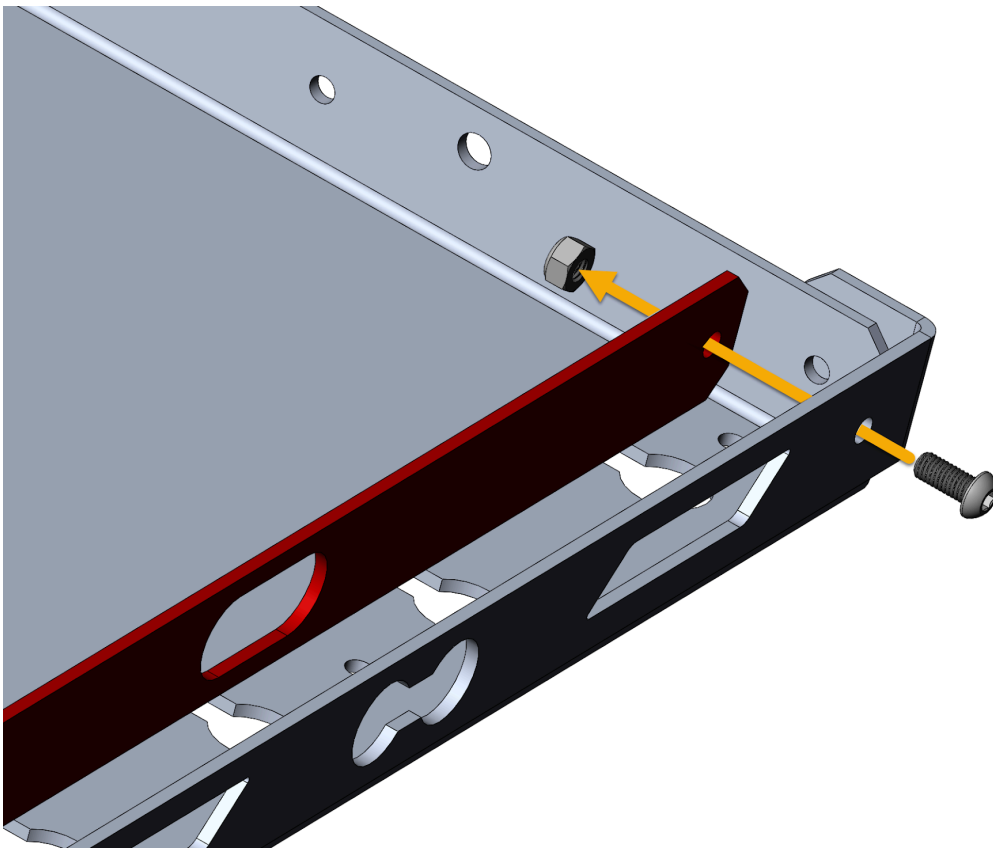


Step 5 - Add Outside Supports

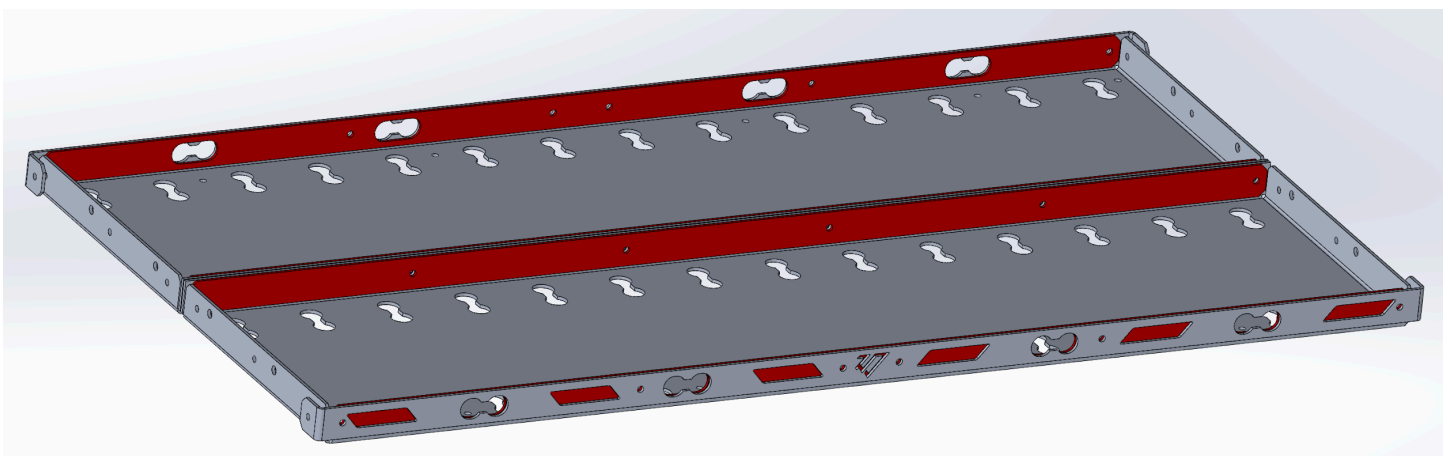
You Will Need:	
	(12) M6x14mm Button Head Bolts 4mm Allen Wrench
	(12) M6 Nylon Lock Nuts 10mm Wrench

	Assembled Shelf Halves
	Both Outside Supports Note: These are the ones with the oval holes in them.




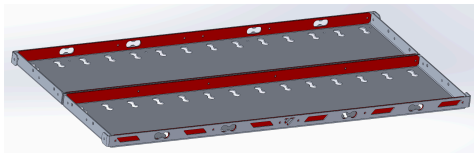
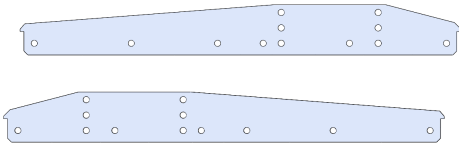
As in the previous step, we will attach the outside supports with the M6 button head bolts. The only difference is, these bolts are a little shorter and do not have a flange on them. We chose these bolts because they have a better appearance than the flange head bolts.



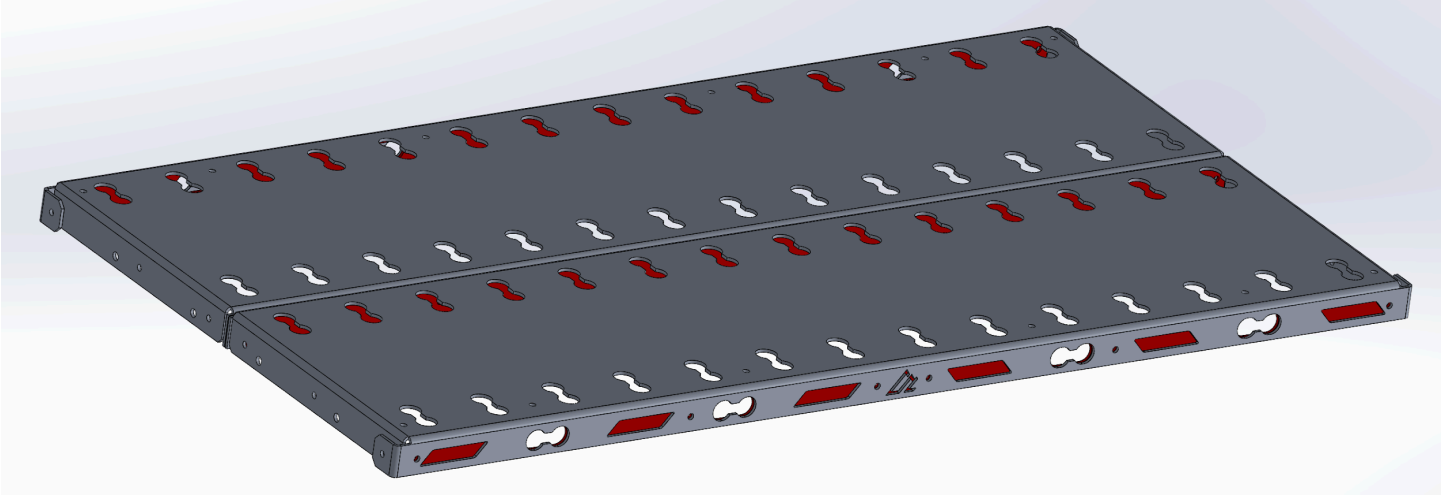
When this step is completed, all of the inner supports will be installed. It should look like the diagram below.



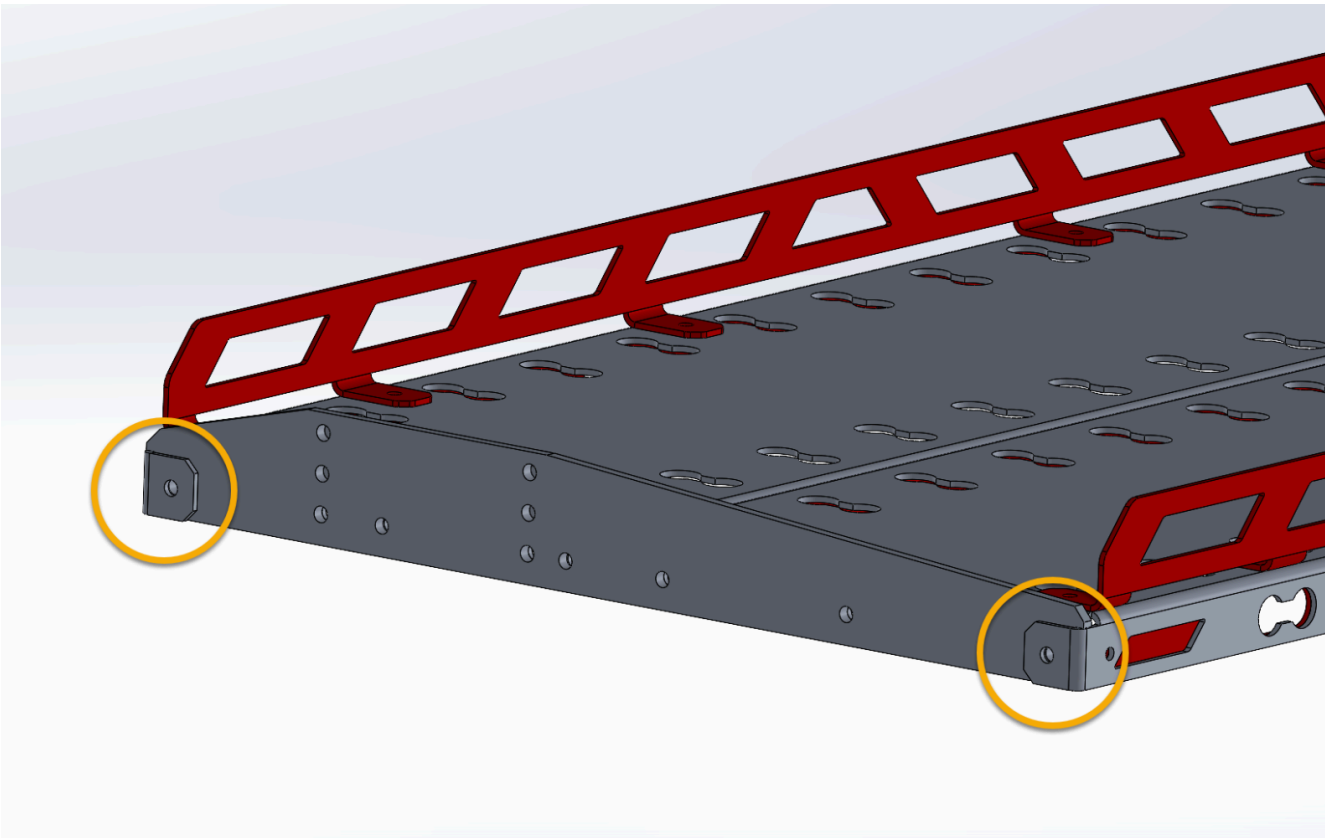
Step 6 - Install Shelf Brackets

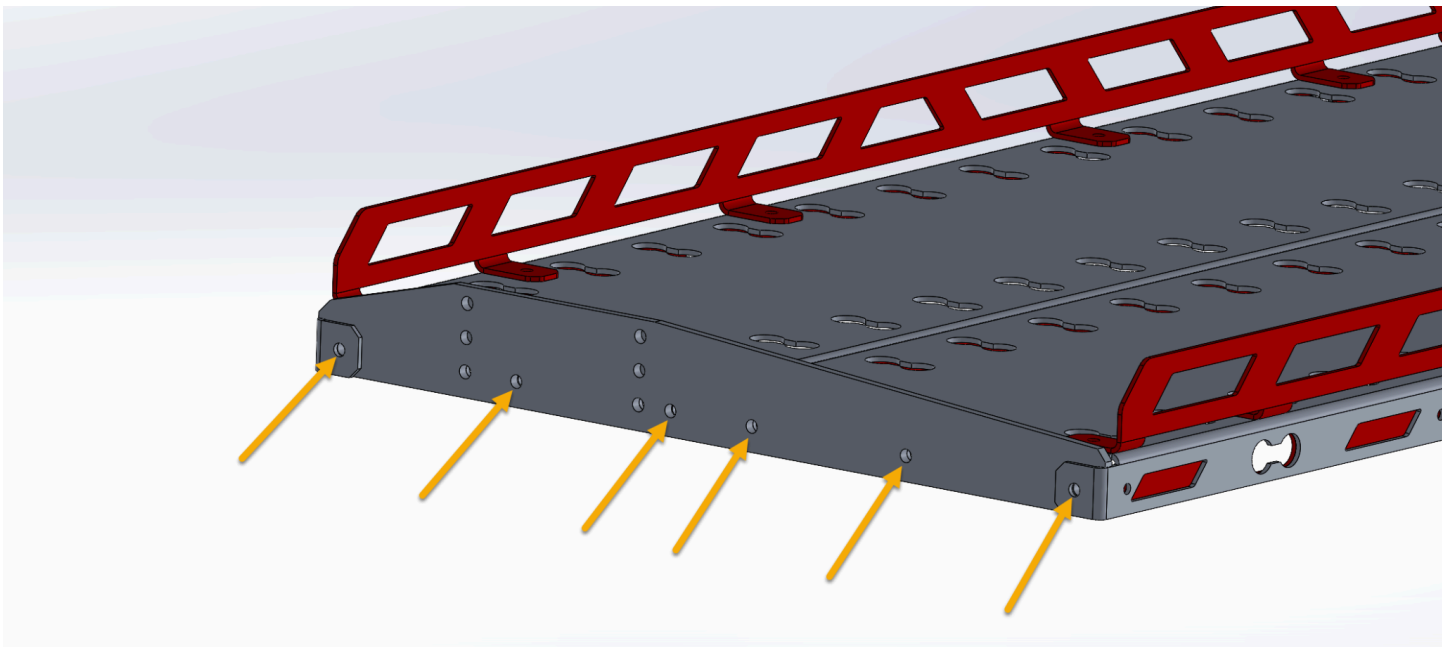
You Will Need:	
	(10) M6x14mm Button Head Bolts 4mm Allen Wrench
	(4) M6x20mm Button Head Flange Bolts 4mm Allen Wrench
	(10) M6 Nylon Lock Nuts 10mm Wrench
	Assembled Shelf
	Both Shelf Brackets

Rotate the assembled shelf assembly over so that it is oriented like the diagram below.





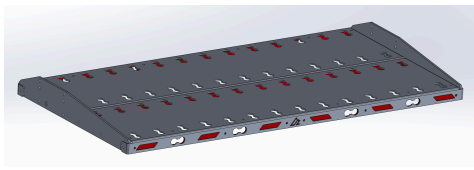

Then, insert the Shelf Brackets (identified in blue in the diagram below) into their slots on the outsides of the assembled shelf assembly. The shelf brackets slide to the INSIDE of the slots. These highlighted holes necessitate the 4 M6x20mm Flange Bolts



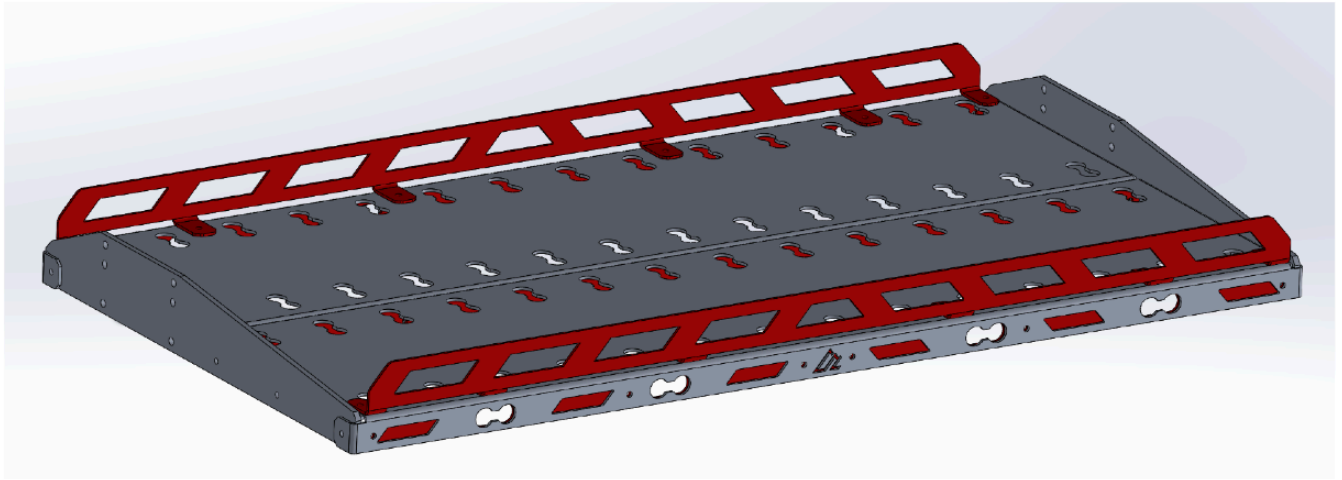


Now, do the same for the opposite side of the shelf, attaching the passenger side shelf bracket.

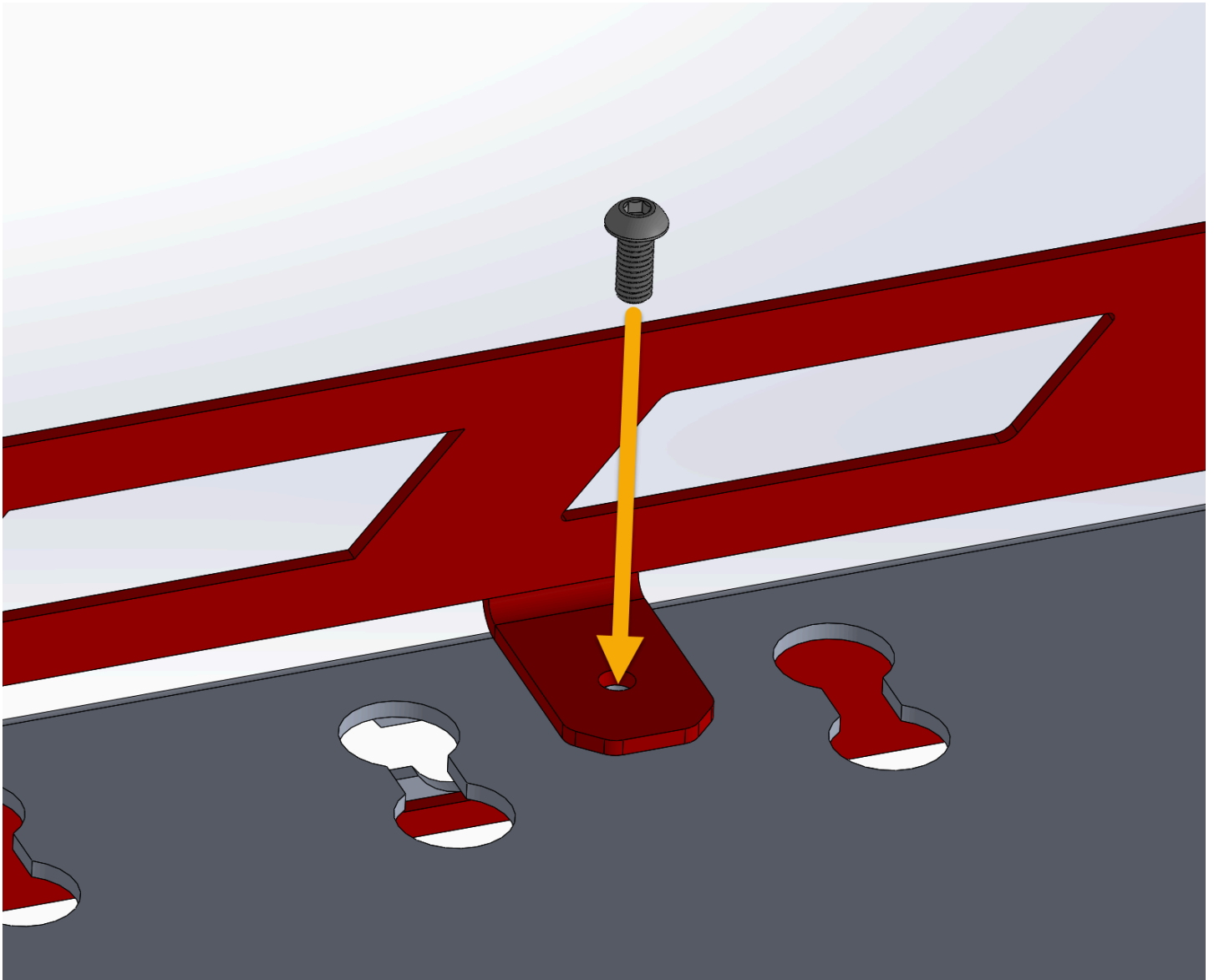
Step 7 - Add Edge Guards (Optional)

You Will Need:	
	(12) M6x14mm Button Head Bolts 4mm Allen Wrench
	(12) M6 Nylon Lock Nuts 10mm Wrench
	Assembled Shelf
	Both Edge Guards



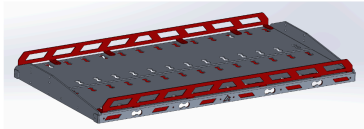

Next, you can install the optional Edge Guards.



Insert the M6 button head bolts into the 6 holes in each edge guard, attaching it to the assembled shelf platform. Then, attach with a M6 lock nut.

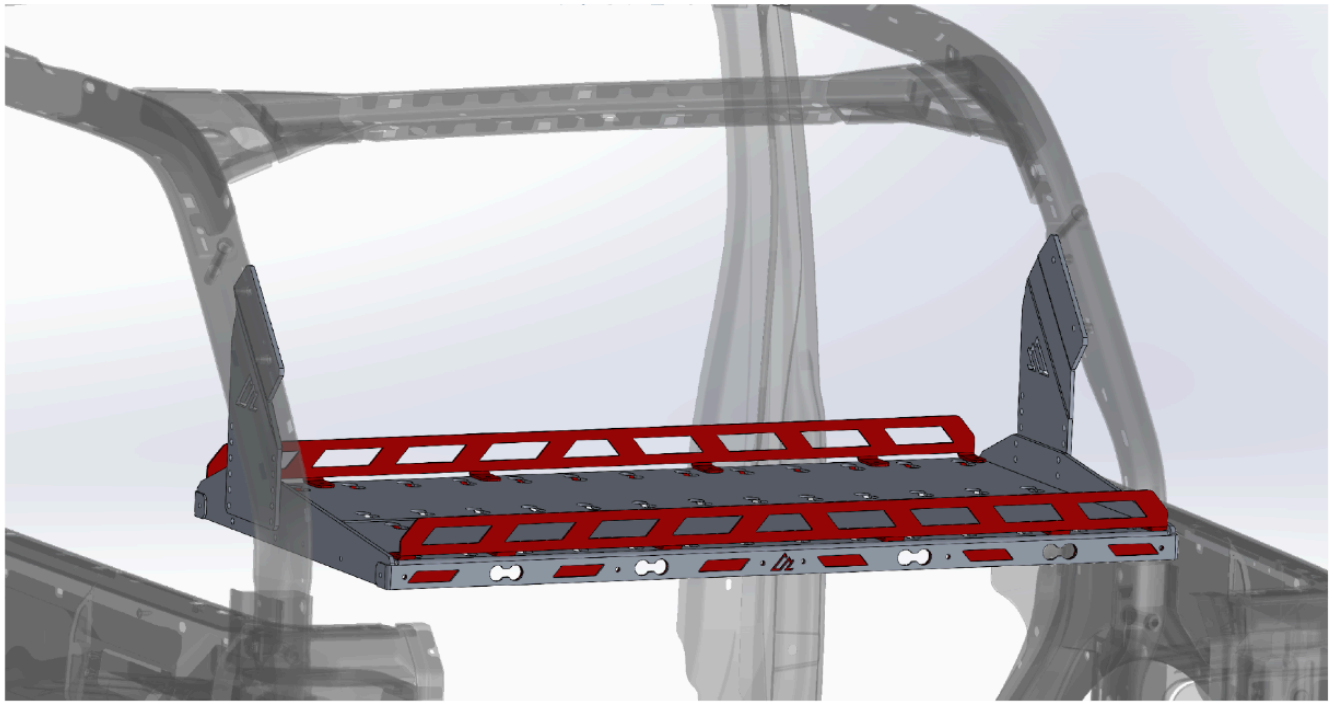


Step 8 - Install Assembled Shelf Assembly Into Jeep

You Will Need:	
	(8) M8x20mm Button Head Flange Bolts 5mm Allen Wrench
	(8) M8 Nylon Lock Nuts 13mm Wrench
	Assembled Shelf
	Really Cool Jeep

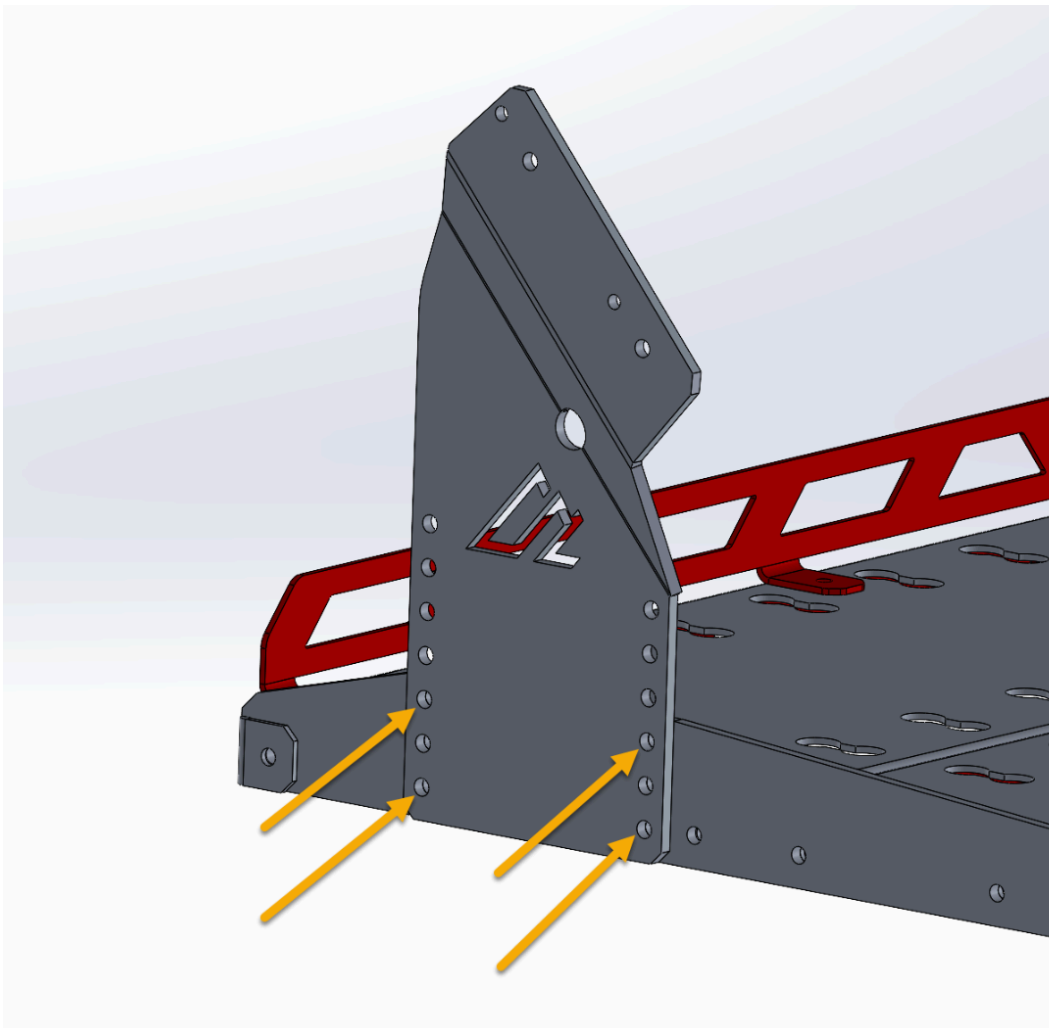
Note: It is very tight going in with the shelf, so be careful.

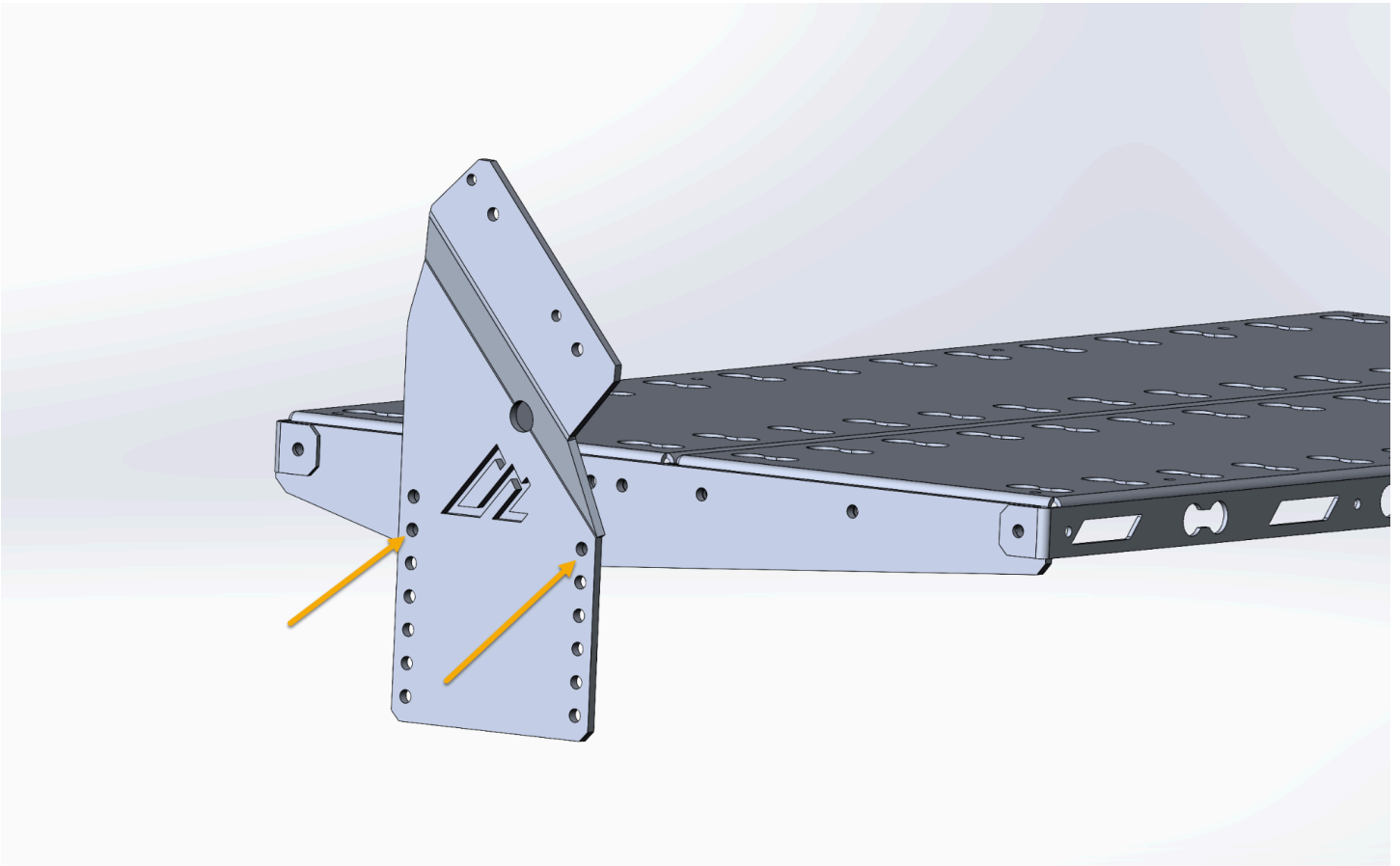
Slide the assembled shelf in from the rear of the vehicle.



Then, you will be able to set the height of the shelf to the desired position and insert the appropriate M8 bolts and secure them with nylon lock nuts.

NOTE: When installing the shelf brackets in the upright position you will skip the middle row of holes, if you'd like to flip the shelf brackets for additional height/clearance please refer to the picture on the following page.





To get maximum clearance you can use only one row of bolts (x2 bolts per side).

Next, tighten all of the M8 bolts to finish the installation.

Step 9 - Show Off Your Handy Work



Thank you again for purchasing your JL M.A.S.S. Cargo Shelf from AAL. We greatly appreciate your support.

Please let us know what you think about the product and installation process.

If you are so inclined, please share your installation photos with us online:

- Facebook - <https://www.facebook.com/AmericanAdventureLab>
- Instagram - <https://instagram.com/americanadventurelab>

