



Instructions

**4RS-1000 - 5TH GEN 4RUNNER
MASS PLATFORM**

Thank you for purchasing your 5th Gen 4Runner MASS Platform 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.

****Please read these instructions thoroughly before starting this project.****

Tools Required:

There is more than one tool for every job, but below is the list of tools we use for this installation.

- Impact or Ratchet
- 10mm Socket/Wrench
- M4 Allen Socket/Wrench
- Panel Pry Tool
- Medium Strength Threadlocker
- M6 Rivnut installation tool
- 25/64" Drill Bit
- Flat Head Screwdriver
- Hammer

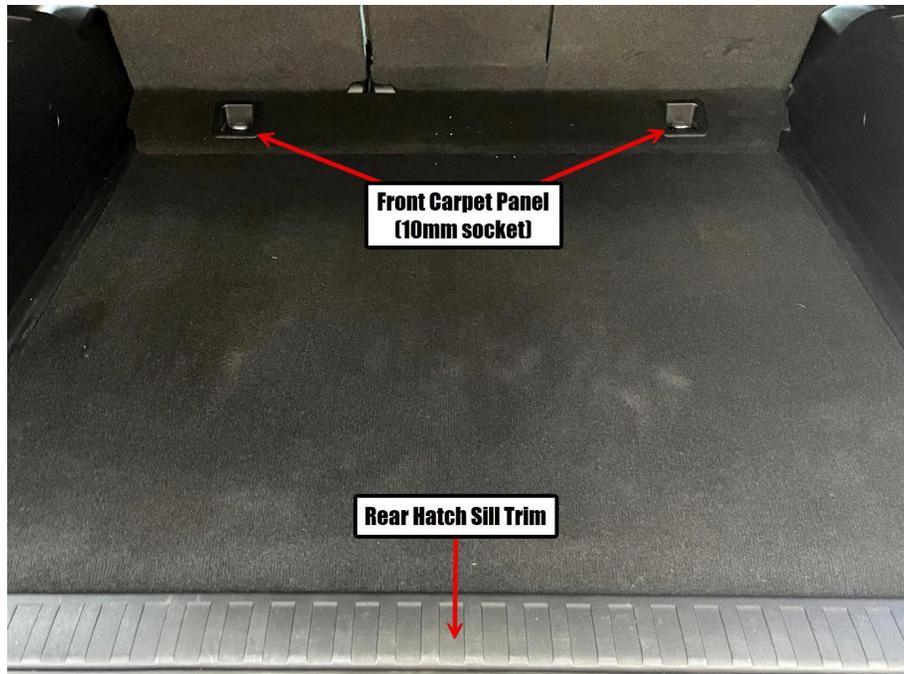
What's included:

- | | |
|----------------------------------|----|
| - M6x20 Button Head Flange Bolts | 14 |
| - M6x14 Button Head Bolts | 2 |
| - M6 Rivnuts | 10 |
| - M6x8 Flat Head Bolts | 64 |
| - M6 Nylock Nuts | 2 |

Step 1 - Teardown and Prep

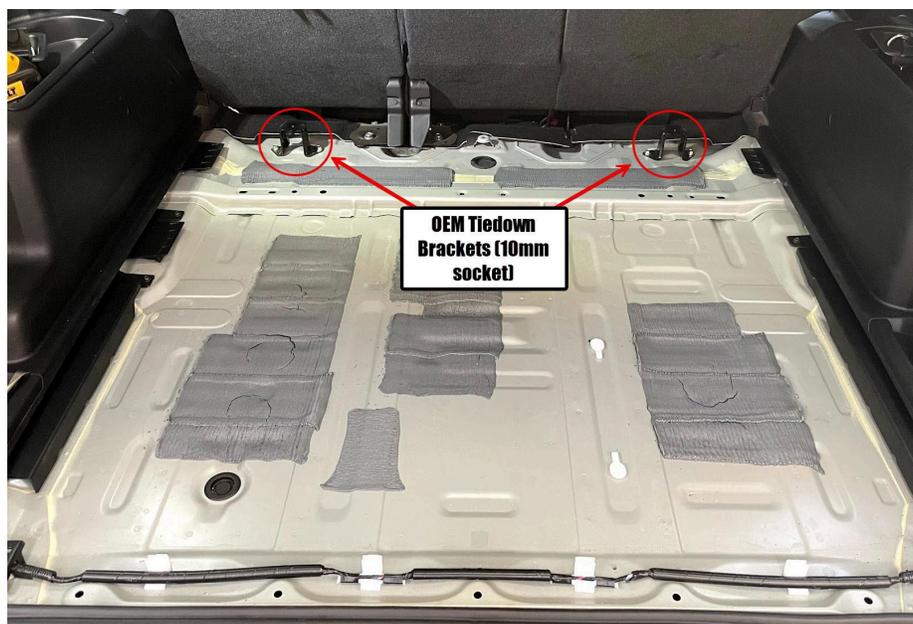
Before installing any of the platform support rails, the cargo area needs to be prepared. Start by removing the plastic trim from the rear hatch sill, the front carpet panel, and the main carpet/sound deadening. Use **Image 1** for reference.

Image 1



One last thing! Remove the (2) OEM Tie Down Brackets in the locations indicated in **Image 2**.

Image 2

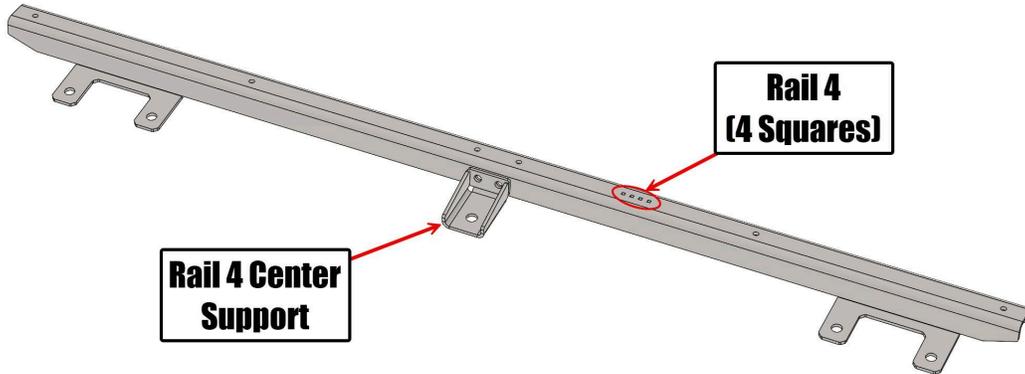


Next, it is time to do a little component pre-assembly.

Rail 4 Pre-assembly:

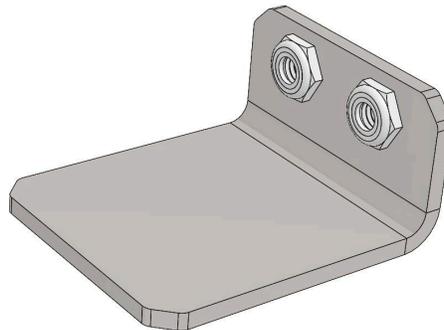
Using **Diagram 1** for reference, locate Rail 4 and Rail 4 Center Support and lay out as shown.

Diagram 1



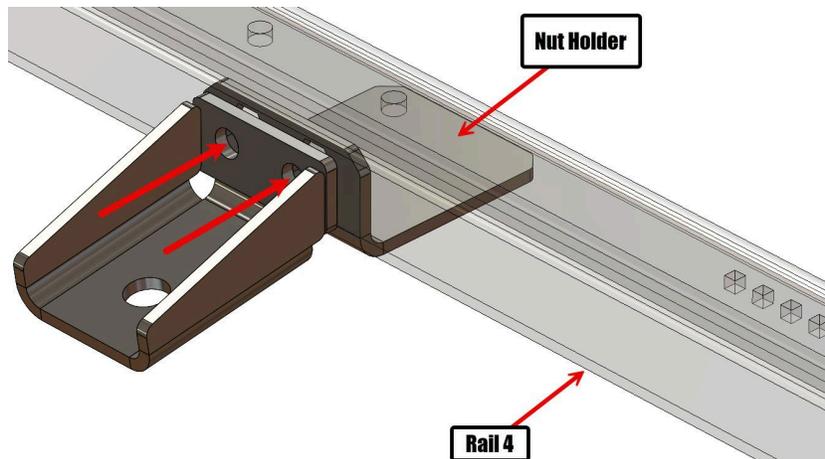
Locate Center Support Nut Holder bracket and (2) M6 nylock nuts. Assemble them as shown in **Diagram 2**. The nuts should fit snugly into the cutouts in the bracket. Tape can help retain them if needed. *This bracket will be used to help hold the nuts for the next step and can be removed and reused as needed.*

Diagram 2



Finally, join Rail 4 and its center support bracket as shown in **Diagram 3** with (2)M6x14 button head bolts. *Tighten these bolts just enough to take up slack while still allowing the center support to move.*

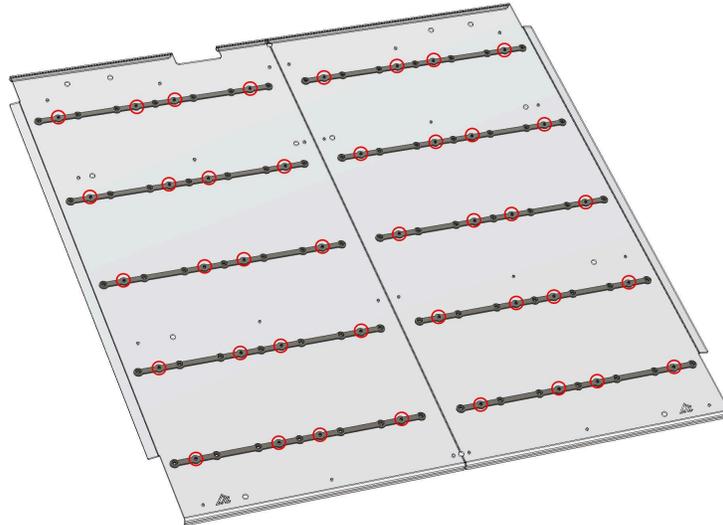
Diagram 3



Panel Pre-assembly:

Using **Diagram 4** for reference, locate both main panels, and the (10) included nut plates. Assemble as shown with (40) M6x8 Flat head bolts. *Panels are shown transparent.* Nut plates will install from the bottom side of the panel with the bolt going into the countersunk holes from the top. *We recommend using a medium strength threadlocker on any bolts without a nylock nut.*

Diagram 4

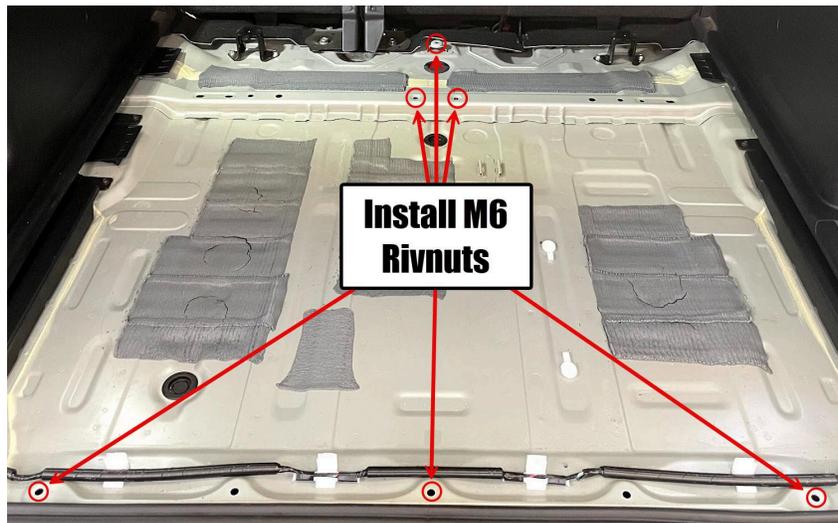


Step 2 - Rivnut and Support Rail Installation

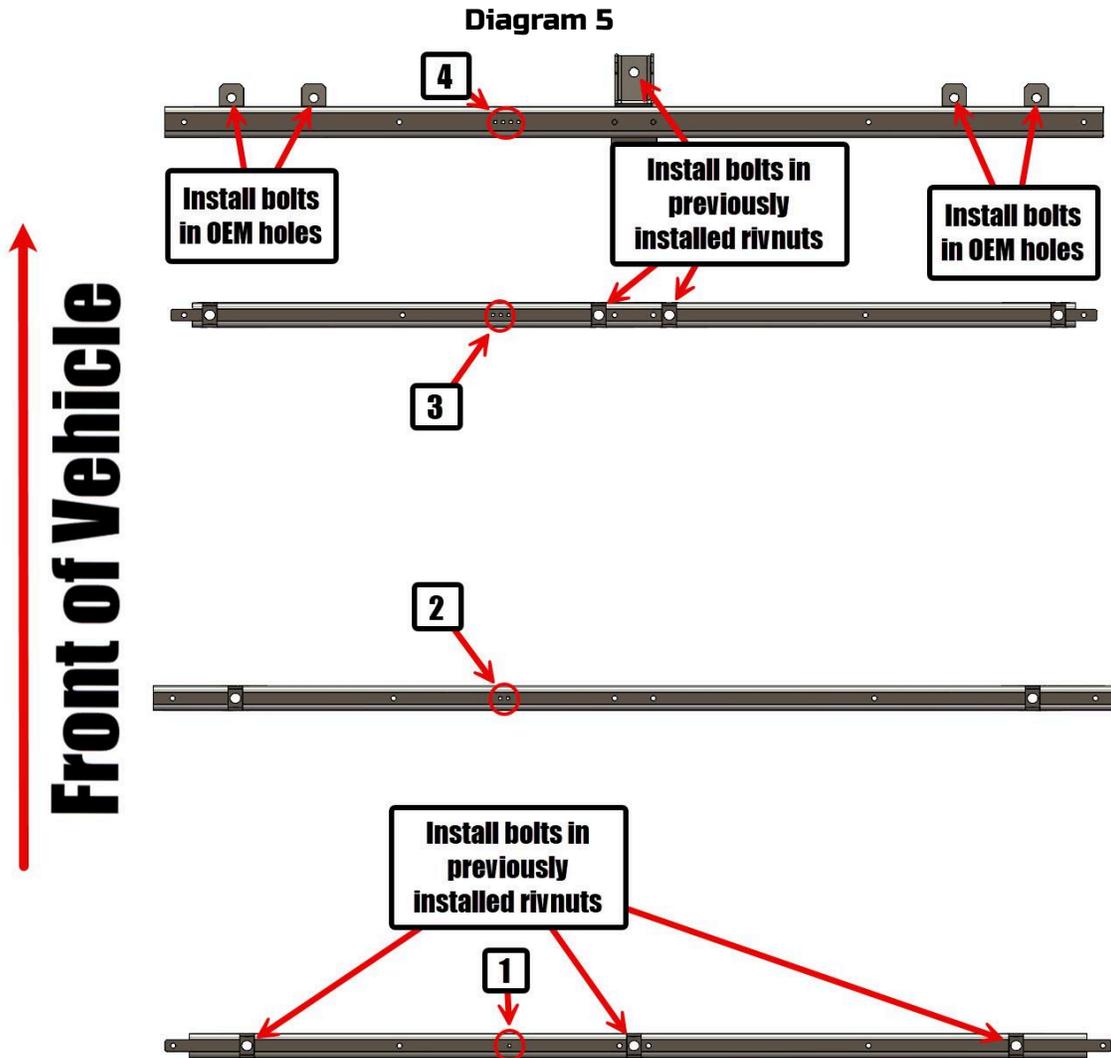
Now that everything has been removed and pre-assembly is done, it's time to install the platform support rails. There aren't many threaded holes from the factory, so before installing the rails, some rivnuts need to be installed into the body. Some will go into existing holes, some will need to be drilled.

First, install (6) M6 Rivnuts in the OEM holes shown in **Image 3**.

Image 3

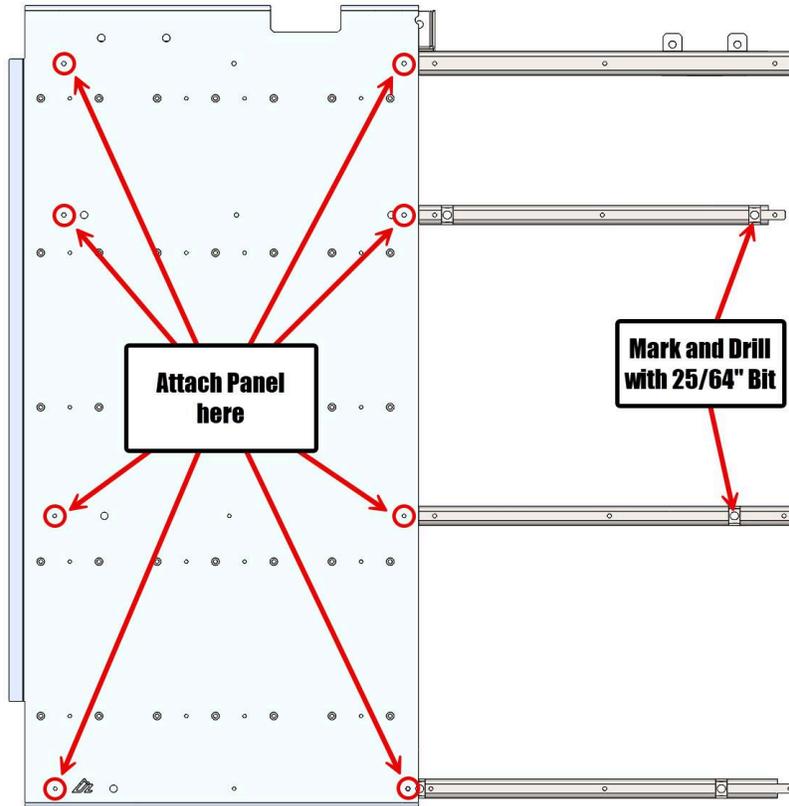


Next, lay out the (4) rails in the cargo area as shown in **Diagram 5**. Rails 1 & 4 can be installed using (8)M6x20 Button Head Flange bolts. Rail 4 will attach to the (4) holes from the OEM tiedown brackets and one of the previously installed rivnuts. Rail 1 will attach to the (3) rivnuts closest to the cargo hatch. Rail 3 can also be partially installed in previously installed rivnuts. *Tighten these bolts just enough to take up slack while still allowing the support rails to move around a little.* Finally, lay out Rail 2 roughly where shown.



Next, in order to locate Rail 2, one of the panels needs to be bolted to the rails using at least (2)M6x8 Flat head bolts per rail. See **Diagram 6** for reference (Driver's Side Shown). This will square the rails to one another and locate Rail 2. Once located, mark the indicated rivnut locations and drill with a 25/64" drill bit. **Note:** *If rails land on OEM seam sealer and won't rest flat, trace the areas where they land, remove rails and remove seam sealer from floor. We have had good luck chipping it away with a flat head screwdriver and hammer.*

Diagram 6



Remove the main panel and repeat this step for the other side of the support rails. *It will help keep the rails in place if the other panel is installed before removing the first one.*

Once all (4) holes are marked and drilled, remove Rails 2 & 3, debur the holes and install the last (4) rivnuts.

Reinstall Rails 2 & 3 with the last (4)M6x20 Button Head Flange bolts. *We recommend using a medium strength thread locker on all bolts without nylock nuts. If you haven't already, now is the time to apply threadlocker to the previously installed rail mounting bolts.*

Once all bolts are snug, but not too tight so the rails can shift around a little, you can fully tighten the (2) Rail 4 center support bracket bolts. *Make sure to remove the nut holder bracket once these bolts are tight, as it WILL fall off the nuts and slide around under the platform.*

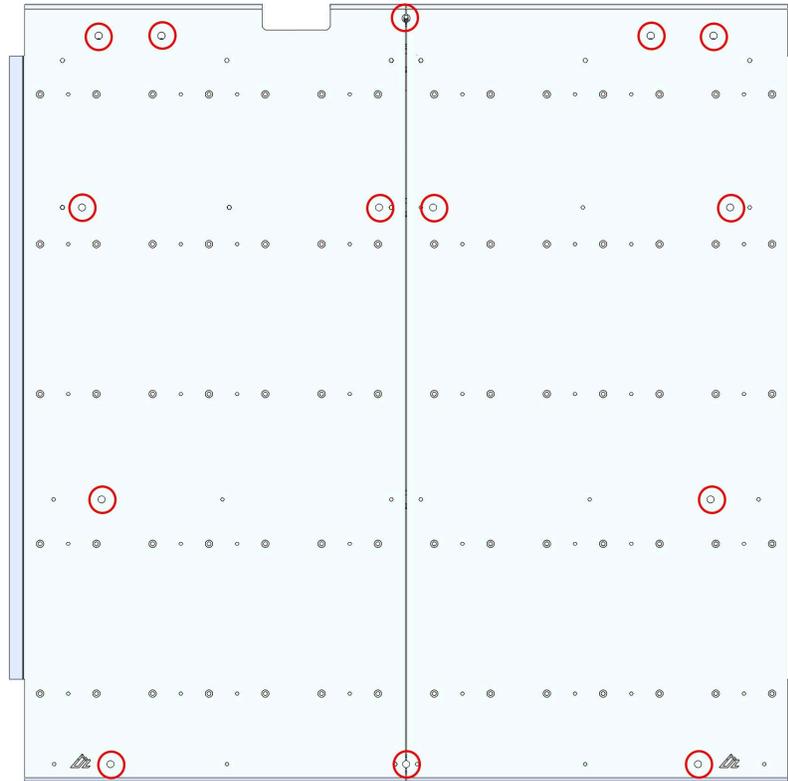
Step 3 - Platform Panel Installation

After all four rails are located and loosely bolted down, it's time to finally install the previously assembled main platform panels. Start with one side at a time by bringing in the panel and starting (12)M6x8 Flat head bolts. Once all are started, but not tight, repeat this step with the other panel. *We strongly recommend using a medium strength threadlocker on all panel bolts.*

Once all (24) main panel bolts are started, tighten with an M4 Allen wrench/socket.

Finally, using the access holes in the main panels indicated in **Diagram 7**, tighten the (14) Support Rail bolts.

Diagram 7



Step 4: Share Your Photos

We take great pride in building our products and we hope that pride extends to you after installing your 5th Gen 4Runner MASS Platform. If you are able to share your photos online (Facebook and Instagram), please tag **@AmericanAdventureLab**. We would love to see how it turned out and give you some reciprocal attention in return!

Congrats! You're all done!

Thank you!

At American Adventure Lab, we strive to improve anywhere we can. If you experience any issues with this product or have any suggestions, please let us know.

If you have any questions or concerns, please don't hesitate to reach out to us at 385.202.4188 or via email at Support@erp.adventurelab.com.

