

EV Sportline R1S Aero Cover Installation Guide

Part Number: R1E2021

Compatible with:

- Rivian R1S Gen 1 (2022-2024)
- Rivian R1S Gen 2 (2025-Present)

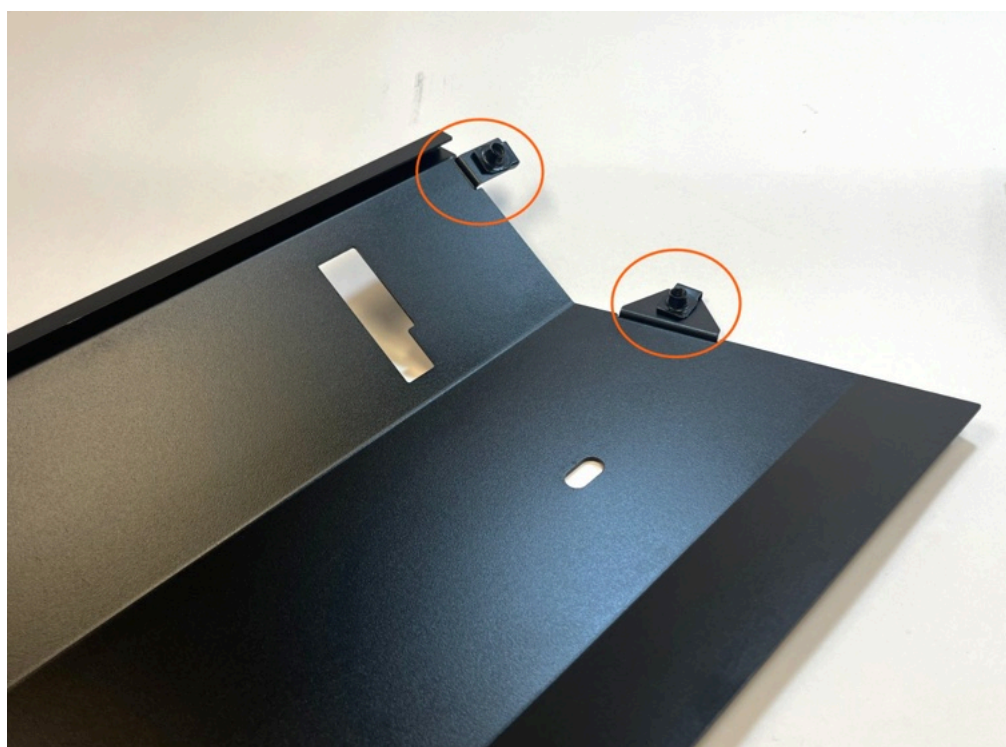
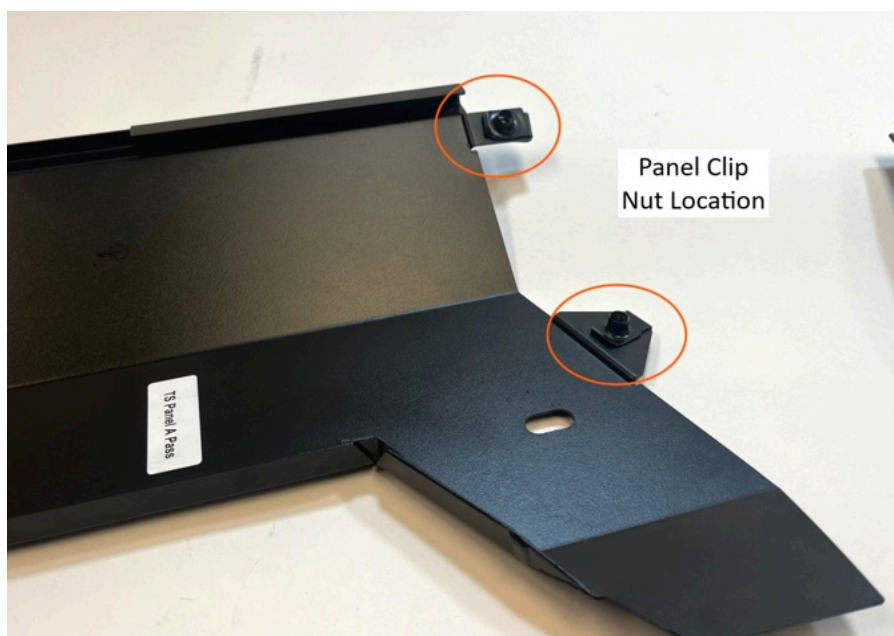
The EV Sportline Aero Covers are designed to install alongside the RMAXX Running Boards using the factory trim rail and a select number of tray bolts. These covers create a smooth underbody surface without requiring cutting or modifications to OEM panels.

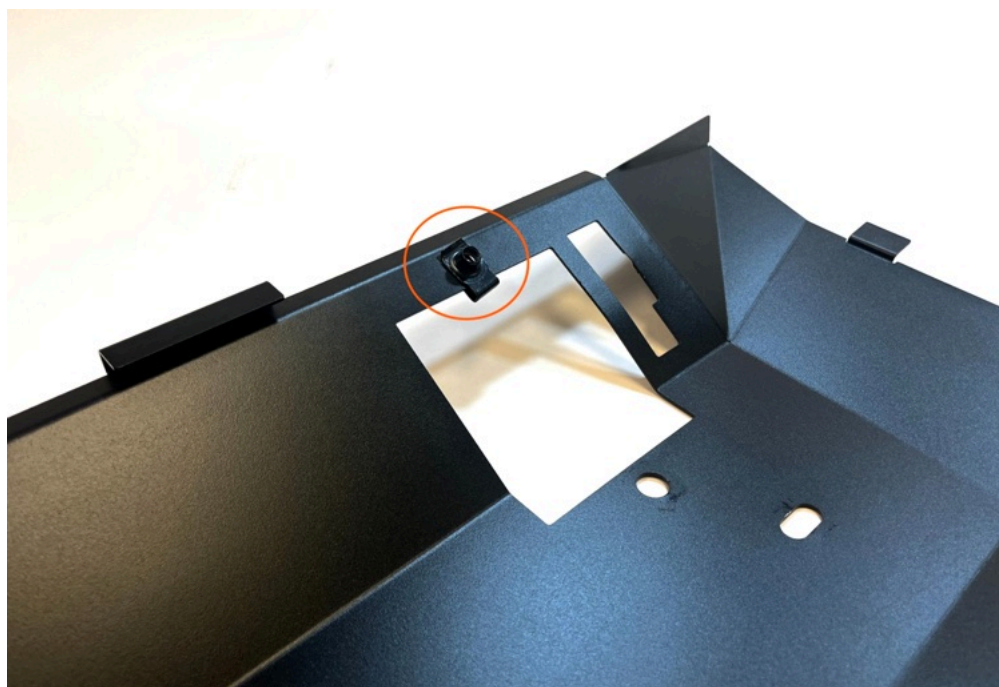
I. Tools Required

- A. 1/4" socket for supplied T20 Bit
- B. 10mm Socket
- C. 7/16" (or 11mm) socket for supplied TP55 Bit
- D. 9/16" Wrench and Socket
- E. 17mm Socket
- F. 4mm and 5mm Allen Key or Bit Driver
- G. T27 Bit or Key
- H. Ratchet / Breaker Bar / Torque Wrench
- I. Tape Measure (Optional)
- J. Jack Puck (Optional)
- K. Medium strength threadlocker (recommended for reinstalled OEM bolts)

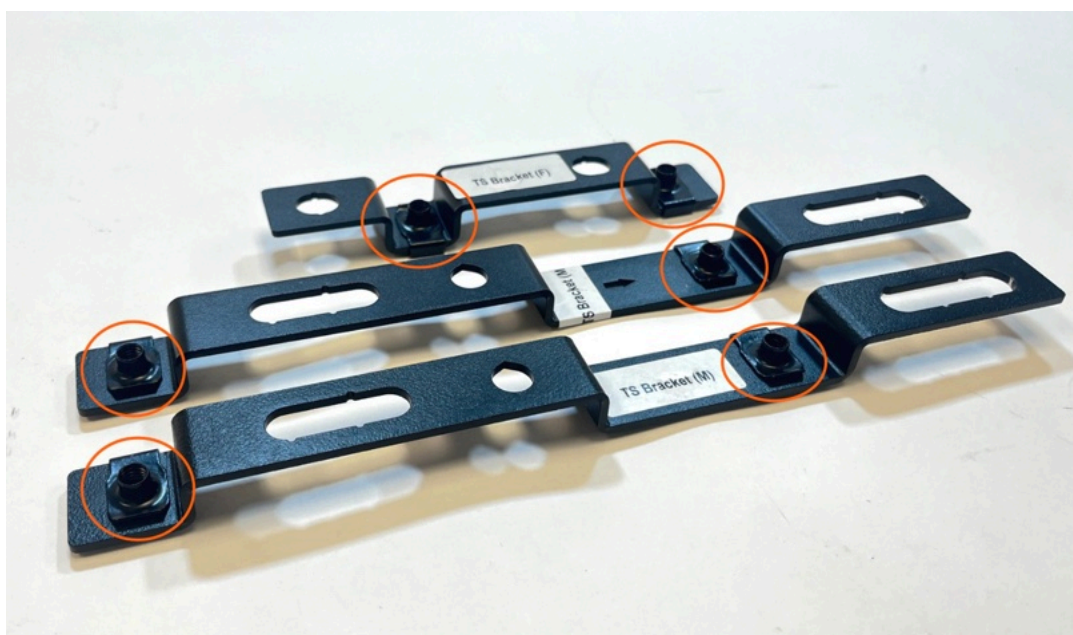
II. Preparation

- A. Gather all Passenger side panels
 1. TS Panel A
 2. TS Panel B
 3. S Panel C
- B. Install the 5 clip nuts on the rectangular and hexagonal edge tabs for Panels A/B and on the top hole of Panel C. Threads should point towards the concave side.





- C. Install the clip nuts on the TS Front Bracket, 2x TS Middle Bracket, and S Panel C Jack Puck Plate as shown below in the diagram. Confirm correct orientation.





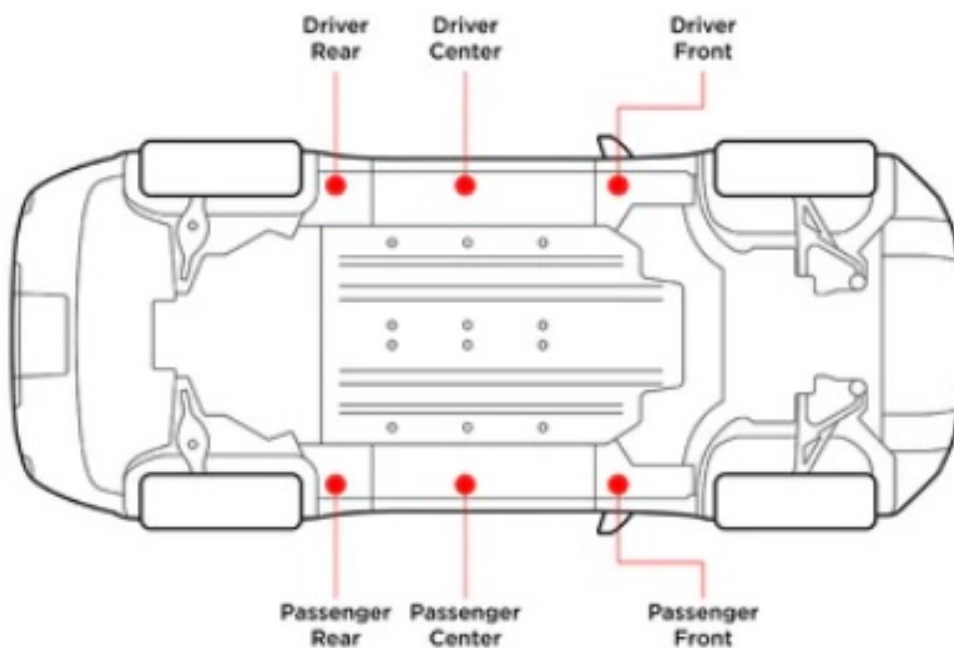
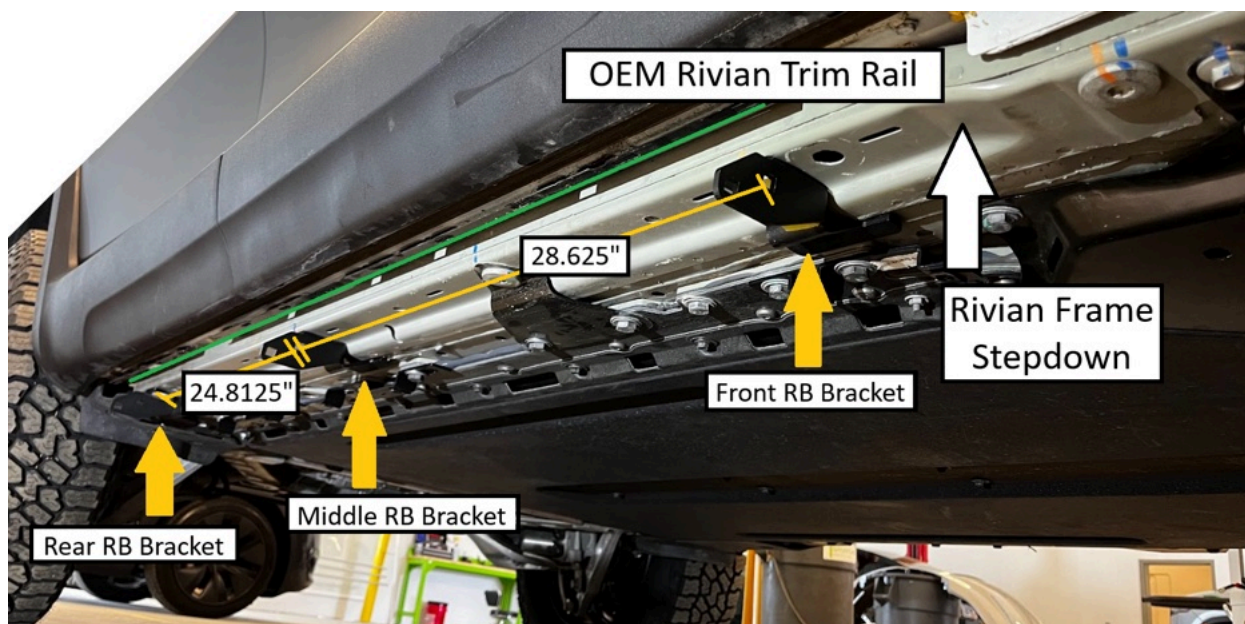
- D. Put the vehicle into "Offroad Mode" to provide clearance while working under the vehicle.

- E. Remove the three factory underbody panels on the passenger side using the T27 bit (Some Gen 2) or 10mm socket (Gen 1 and some Gen 2) and T20 bit. Additionally, remove the outermost T20 near the back of the front tire. Store the hardware in a safe location as the three T20 screws will be reinstalled with the Aero Covers.



III. Running Board Bracket Installation

- A. While under the vehicle, install the 3 Running Board Brackets using the TP55 bit. The TP55 bolts being used are the 1st TP55 bolt *after the frame stepdown* (3rd from the front of the vehicle), Next TP55 28 $\frac{5}{8}$ " away, and next TP55 24 $\frac{13}{16}$ " away. Leave the brackets loose



Note that your running board kit will include three different types of brackets. The 4x “Front and Middle” brackets (as shown below) will be used on the forward and central middle TP55 bolt as described above. The passenger side rear bracket is unique and will only be used in the passenger side rear location. Similarly, the driver side rear bracket is unique to its location.



- B. Temporarily install the running board frame with at least 1x carriage bolt hardware in each RB bracket. The frame is used to prevent bracket rotation during TP55 tightening. With the brackets firmly fastened to the running board frame with the carriage bolts, torque the TP55 bolts to **80 ft-lbs**. This is done to center the running board brackets on the Rivian.



- C. Undo the hardware fastening the brackets to the running board frame and remove the running board frame for the Aero Panel installation.
- D. Once off, the Running Board Tread Plate can be installed onto the Running Board Frame using the supplied buttonhead bolts, washers, and nuts torqued to **8 ft-lbs.**

IV. Aero Cover Installation

A. The TS Front Bracket

1. **Gen 1:** Mount under the front two 17mm tray bolts near the front RMAXX bracket
2. **Gen 2:** Mount under the leading tray bolt and threaded hole in Rivian underbody. The threaded section will need to use the supplied bolt, washer, and aluminum spacer.
- 3.

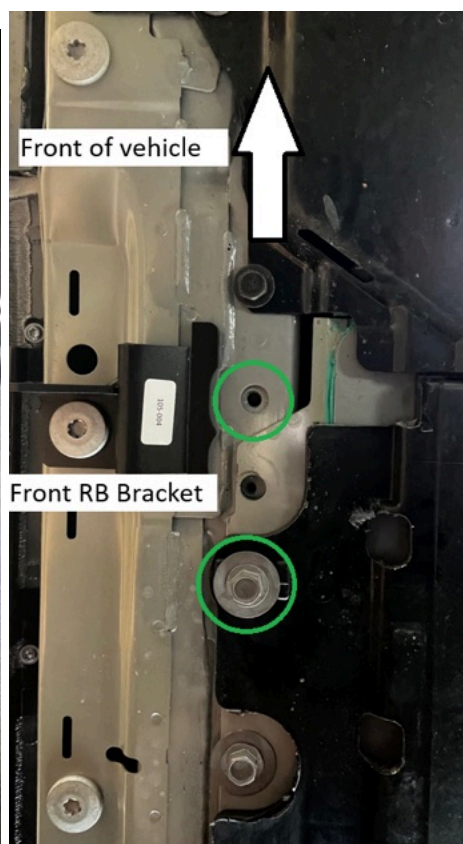
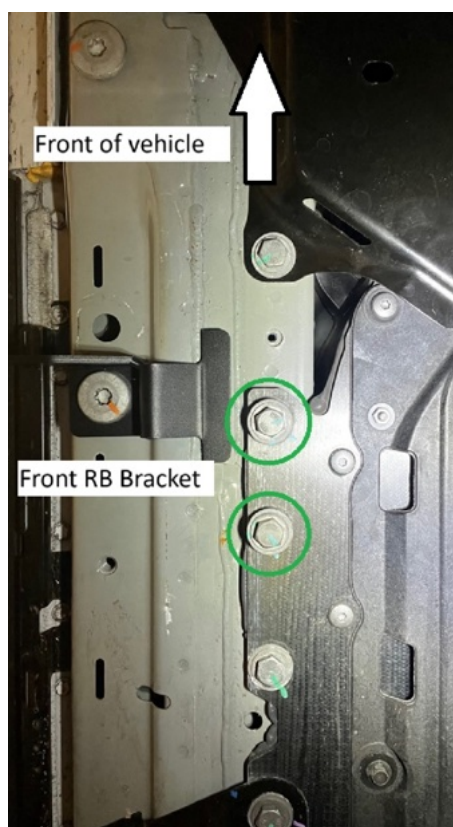
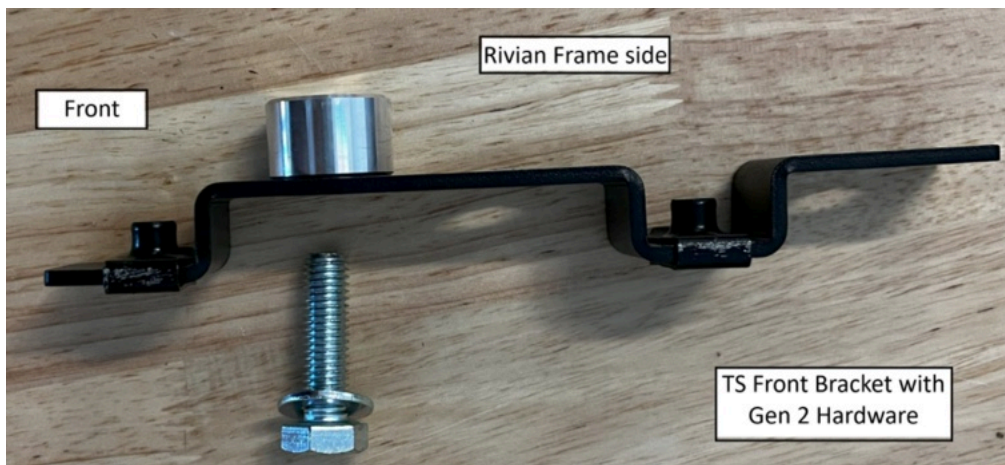
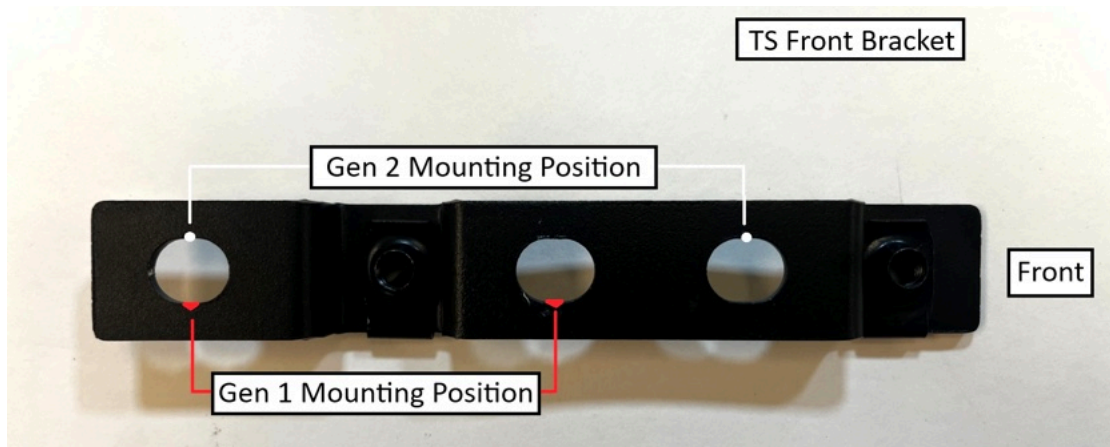
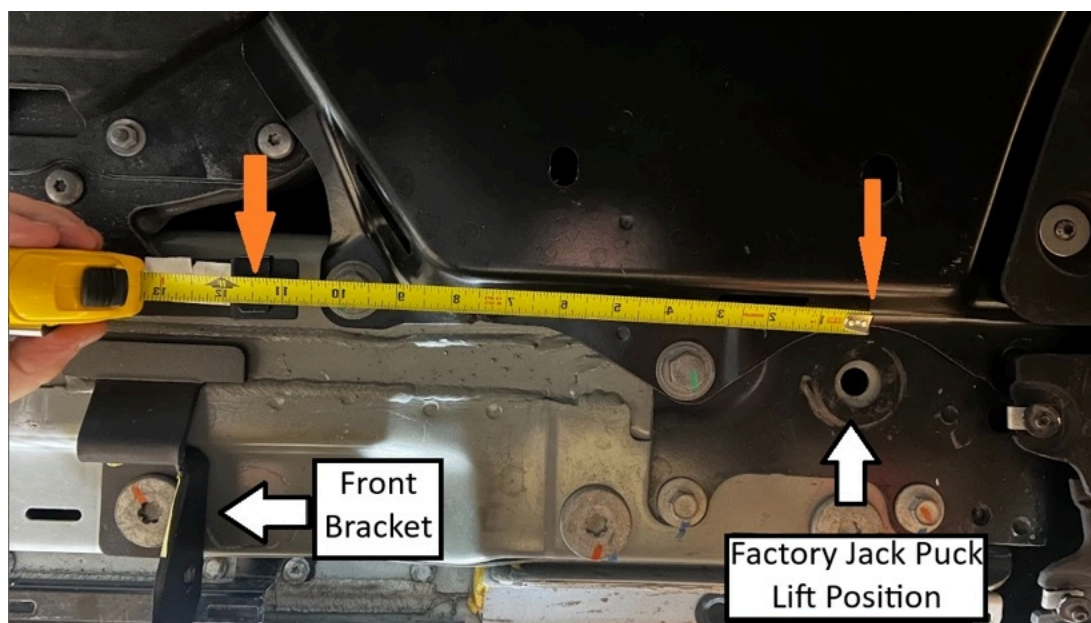


Photo: Mounting Locations for Gen 1 (Left) and Gen 2 (Right)

Note: There are different holes for different Generation Rivians as there are underbody differences.



1. Confirm the center of the leading hole with the clip nut is approximately 11.5" from the center of the Jack Puck lift position in the bottom of the frame. Torque the bolts to **45 ft-lbs**.



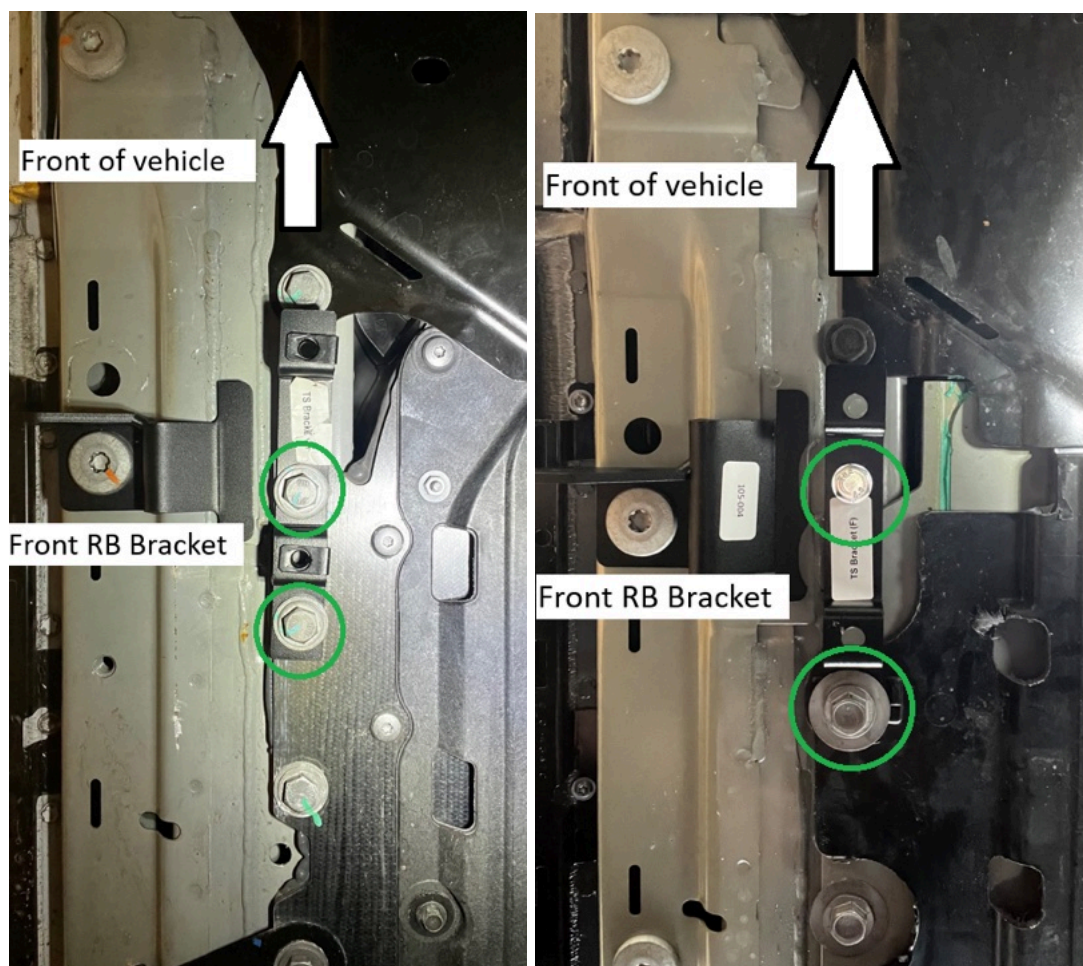


Photo: Front Aero Panel Bracket (TS Front) mounted on Gen 1 (Left) and Gen 2 (Right)

B. TS Middle Bracket #1

1. Install the TS Middle Bracket under two of the 17 mm head headed bolts holding the battery tray to the frame near the *middle* RMAXX Running Board bracket (Bracket #2) with the arrow pointed forward. Note: If this position is hindered by the factory Rivian triangular plate, the plate can be removed and bolts torqued to specification.

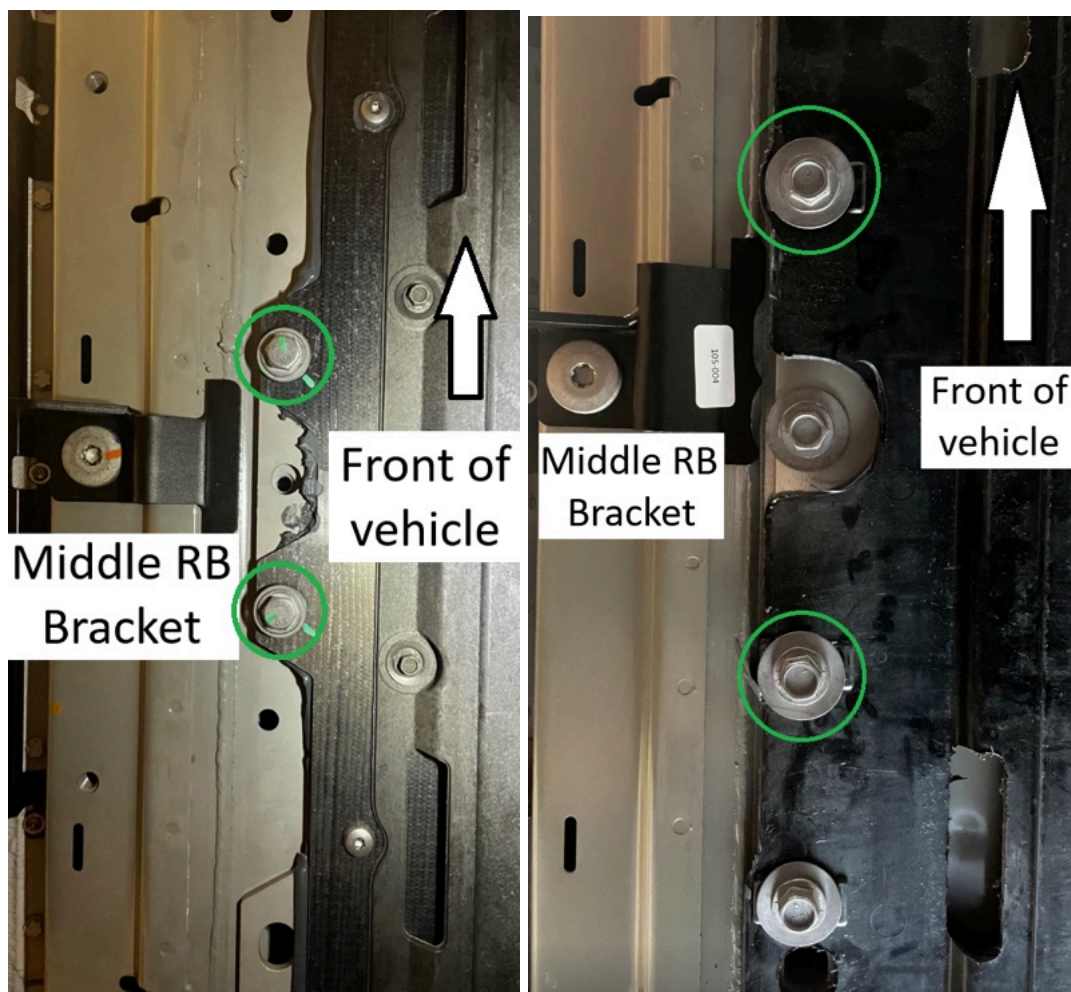
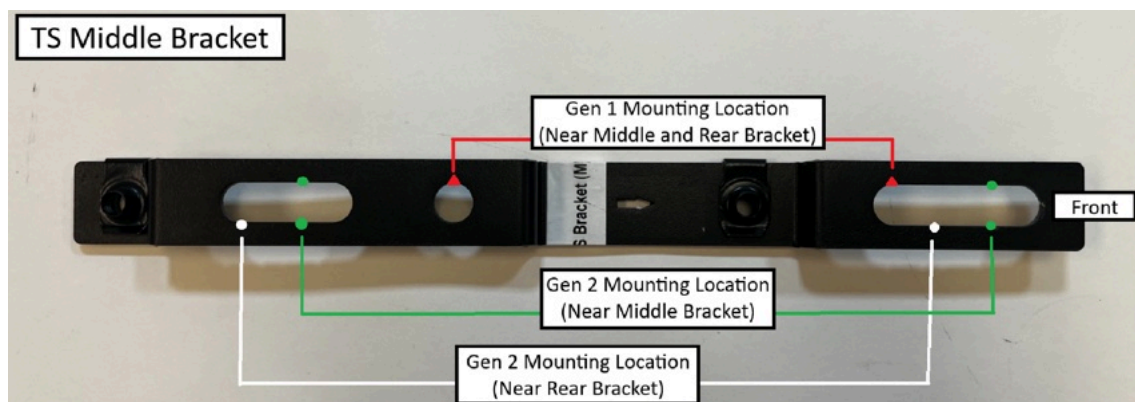


Photo: Mounting Locations for Gen 1 (Left) and Gen 2 (Right)

Note: There are different holes for different Generation Rivians as there are underbody differences. This is reflected in the bracket.



1. Confirm the center of the leading hole with the clip nut on the TS Middle bracket should be approximately 30.375" from the center of the leading hole with the clip nut on the TS Front bracket. Torque the bolts to **45 ft-lbs.**

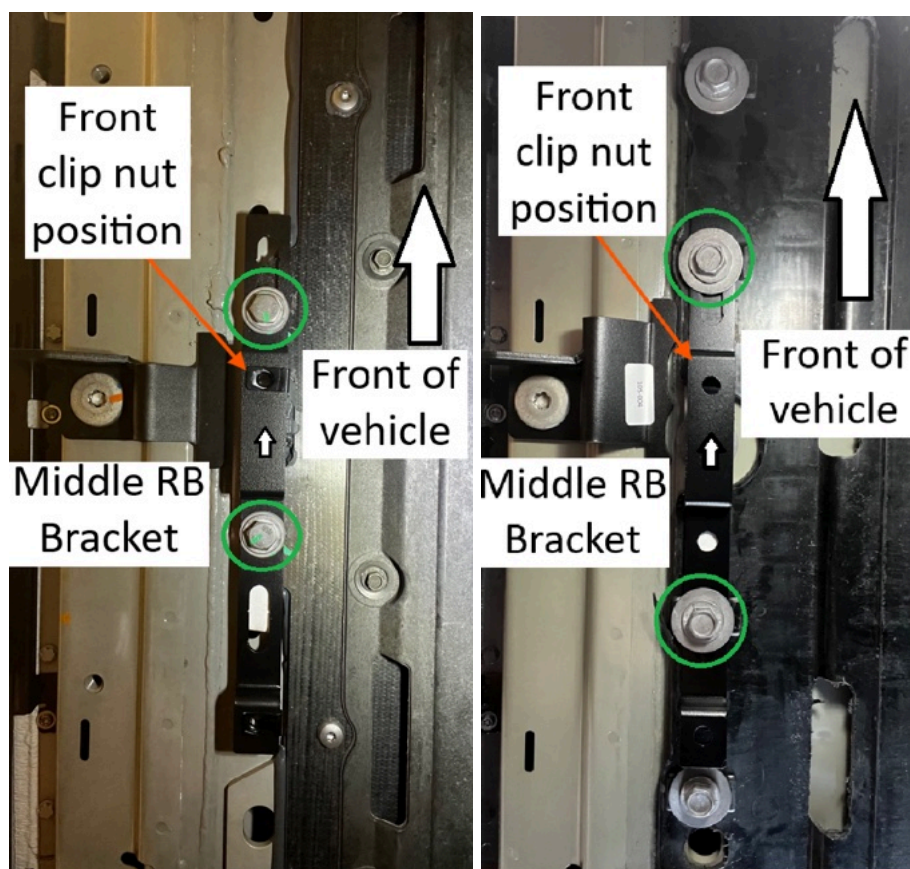


Photo: Middle Aero Panel Bracket (TS Middle #1) mounted on Gen 1 (Left) and Gen 2 (Right).

C. TS Middle Bracket #2

1. Install the TS Middle Bracket under two of the 17 mm head headed bolts holding the battery tray to the frame near the *Rear RMAXX Running Board bracket (Bracket #3)* with the arrow pointed forward. Note: If this position is hindered by the factory Rivian triangular plate, the plate can be removed and bolts torqued to specification.

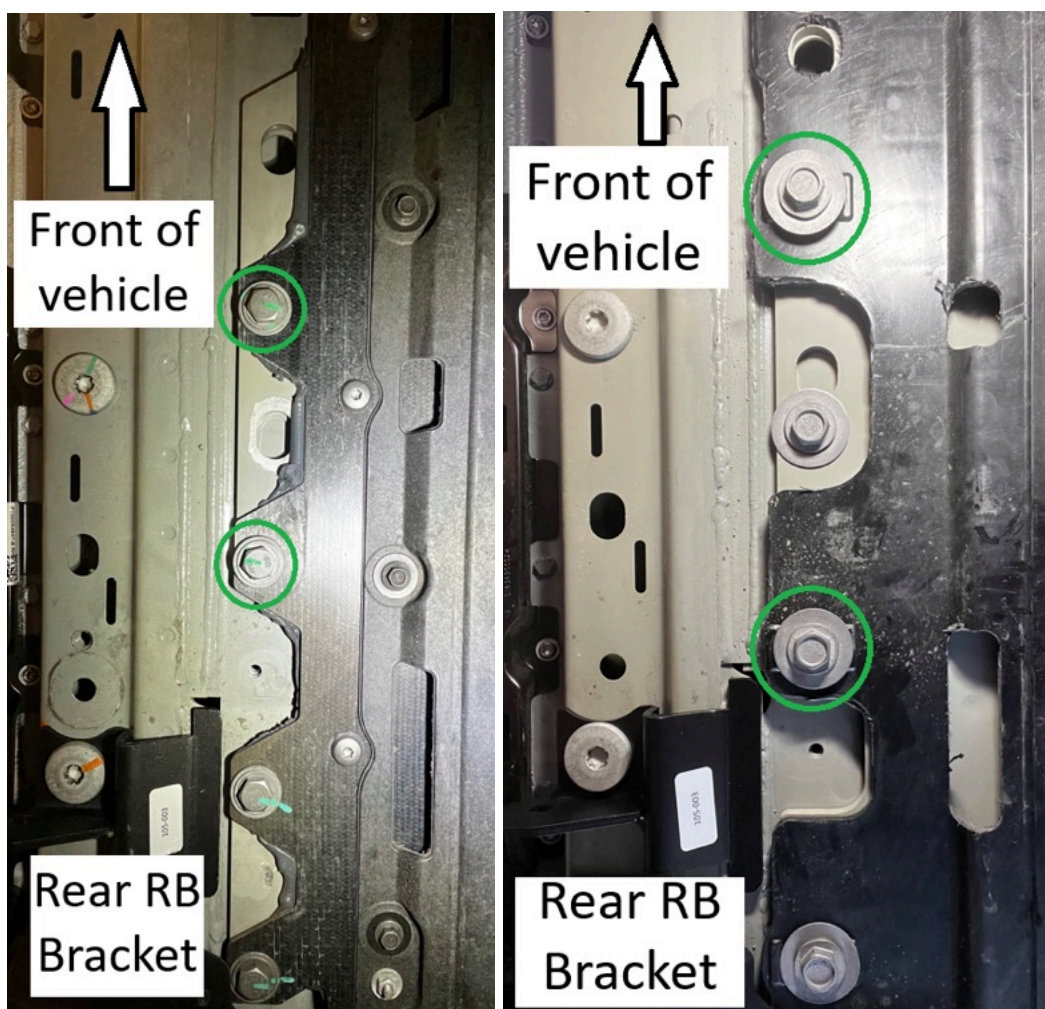


Photo: Mounting Locations for Gen 1 (Left) and Gen 2 (Right)

2. Confirm the center of the leading hole with the clip nut on the second TS Middle bracket should be approximately 16.5" from the center of the leading hole with the clip nut on the first TS Middle bracket. Torque the bolts to **45 ft-lbs**

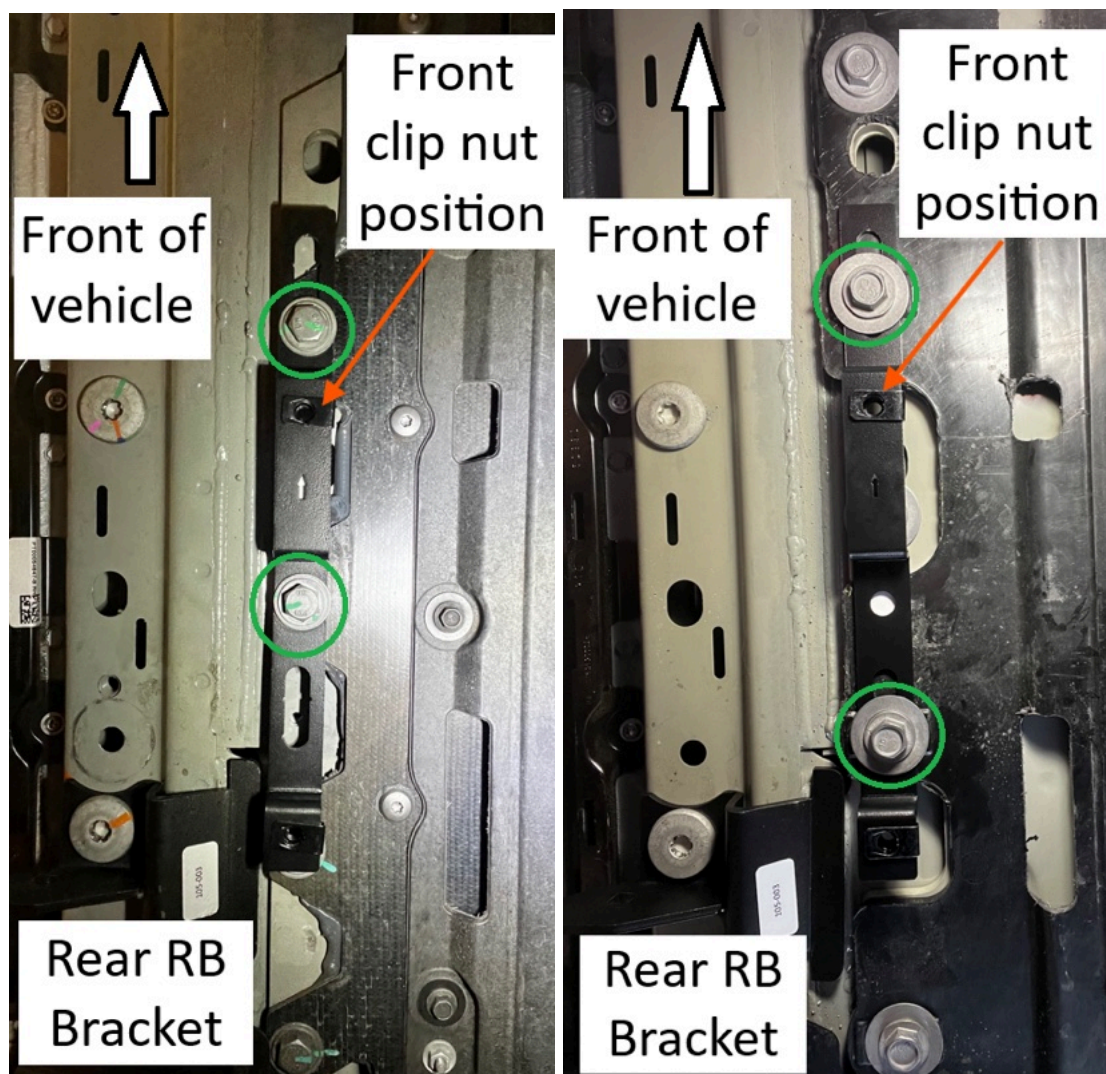
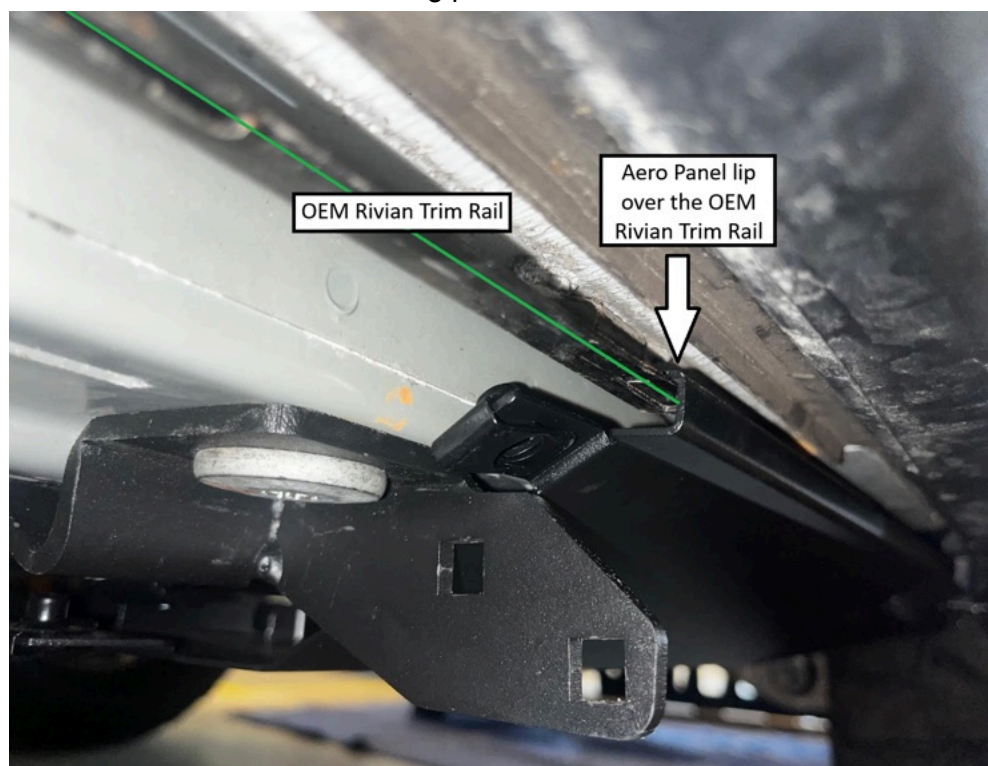


Photo: Middle Aero Panel Bracket (TS Middle #2) mounted on Gen 1 (Left) and Gen 2 (Right).

V. Aero Panel Installation

- A. Install the TS Front Panel ensuring the channel on the Aero Panel catches the OEM Rivian Trim rail and the lung plate closer to the center of the vehicle.

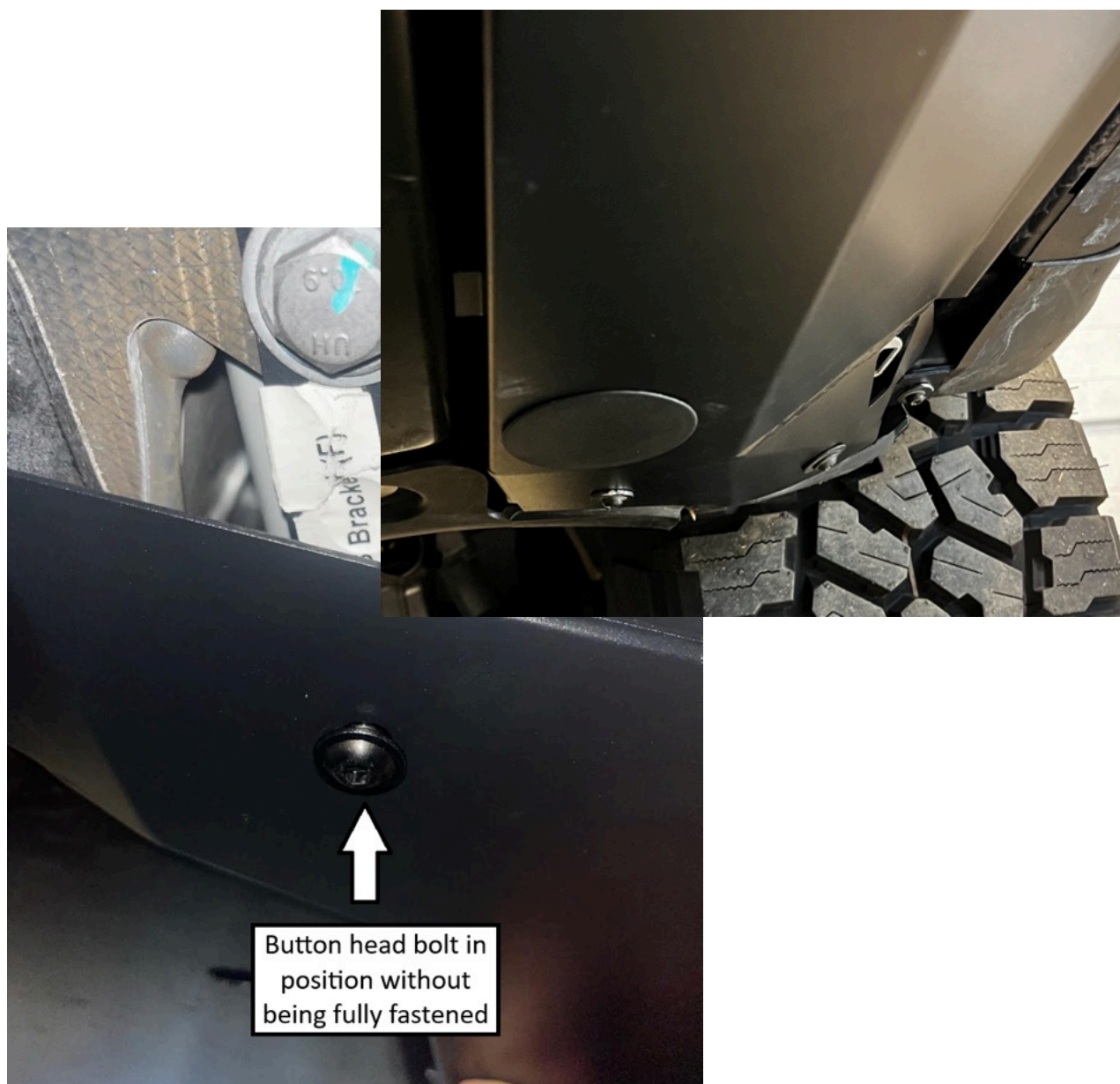


- B. Line up the Jack Puck hole with the OEM lift point on the Rivian. It is helpful to use a jack puck or equivalent to ensure that the panel is in the proper position for future jack puck use/alignment.

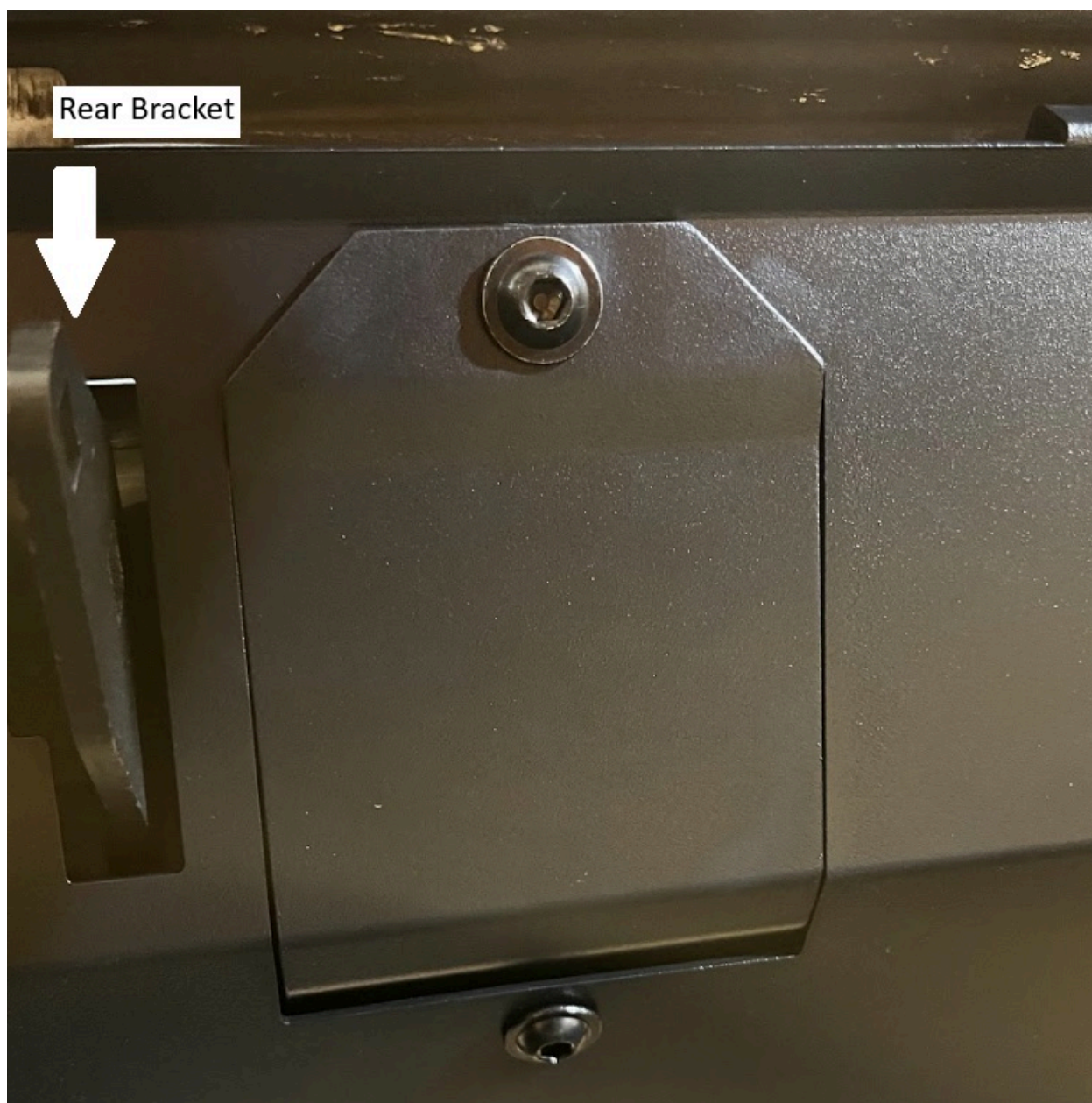


- C. Tighten the T20 hardware til it is securely fastened, the buttonhead hardware can be kept loose as it will be fastened after the Running Board frame is installed. The plastic Jack Puck hole cover can be added at this point.

Note: If you are having difficulties starting the T20 screws, reach inside via the Jack Puck hole to pull the plastic tab towards the Aero Cover.



- D. Install TS Panel B *loosely* using the supplied button head hardware. Ensure that you have attached the lip of the Aero Cover over the OEM Rivian Trim rail. Keep the hardware loose.
- E. Install S Panel C *loosely* using the supplied button head hardware. It is easiest to install this panel with a rotating motion to get the rear tabs into the OEM Trim tab locations in front of the rear wheels. Ensure that you have attached the lip of the Aero Cover over the OEM Rivian Trim rail.
- F. Install the S Panel C Jack Puck Plate as shown. Tighten the 2x button head hardware til it is securely fastened.



VI. Running Board Reinstall

- A. Install the RMAXX Running Board Frame onto the Running Board Brackets using the supplied carriage bolts and nuts. Manipulate the Aero Panels as needed to get the hardware to tighten to the specification of **35 ft-lbs**. A 9/16" open ended wrench is helpful for tightening the nuts closest to the Aero Panels.



- B. With the Running Board torqued to spec, match the gap between panels and tighten the remaining button head bolts that fasten the Aero Panels to the Aero Panel Brackets and the Aero Panels to each other.



VII. Repeat Steps II-VI on the Other Side

VIII. Accessing the Rear Lift Point

- A. To access the Rear Lift point, simply remove the 2 buttonhead bolts to drop out the Jack Puck Plate. Replace hardware upon reinstalling.

