



Instructions

B6 - SINGLE ARB COMPRESSOR TAILGATE MOUNT

Thank you for purchasing your Single ARB Compressor Tailgate Mount 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/Components Required:

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

Tools listed are for assembly only, as disassembly tools will vary.

- 4mm Hex Key Allen Wrench
(for M6 hex key bolts)
- Wire Cutters
- 10mm Socket wrench

What's Included

Single ARB Compressor Tailgate Mount Parts:

Main Bracket	1
Compressor Nut Plate	2
Connection Bracket	1
Large Nut Plate	1
Small Nut Plate	1
Spacer	1
1/4" x 6" braided Steel Hose	1

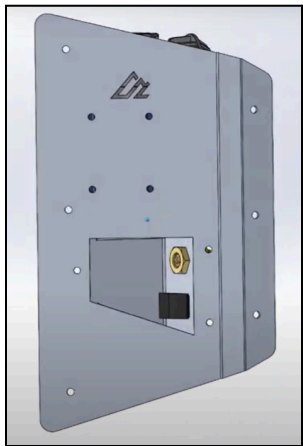
Single ARB Compressor Tailgate Mount Hardware:

M6x14mm Button Head Bolt	7
M6x20mm Button Head Flange Bolt	6
1/4" Fitting Tee	1
Steel female fitting adapter	1
M6 Nylon Lock Nut	7
ARB quick coupler	1

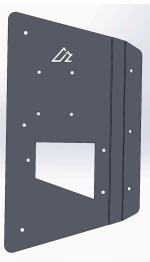
Part Overview and Prep

First lets review images of all the necessary parts and hardware to ensure we have everything we need for the installation process

Dual ARB Compressor Mount Parts:



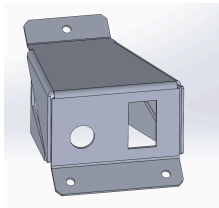
Main Bracket (1):



Compressor Nut Plate (2):



Connection Bracket (1):



Large Nut Plate (1):



Small Nut Plate (1):



Spacer (1):



1/4 x 6 braided Steel Hose (1):



Single ARB Compressor Tailgate Mount Hardware:

M6x14mm Button Head Bolt

9



M6x20mm Button Head Flange Bolt

9



1/4 Fitting Tee

1



Steel Female Fitting Adapter

1



M6 Nylon Lock Nut

9



ARB Quick Coupler

1



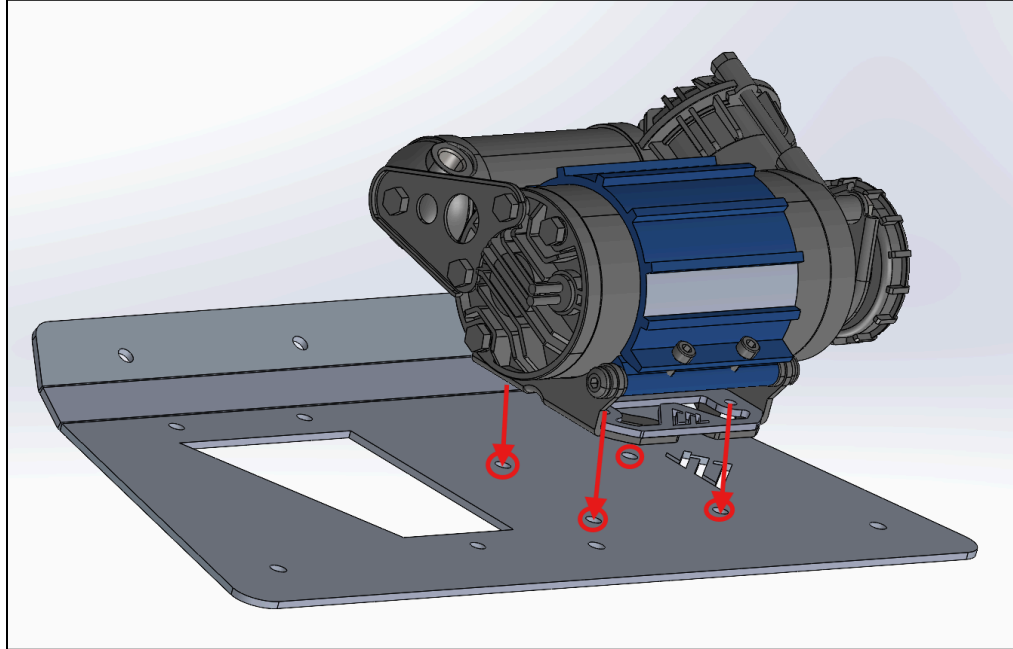
Prep

Starting with the interior, you'll need to remove the following interior panels,

- Driver side kick panel
- Driver side sill plate
- Lower B pillar panel
- Driver side rear passenger sill plate
- Driver and passenger side rear cargo panel and sill plate.
- Rear gate wiring cover. (release clips from bottom and pull out and down)
- Rear gate cavity cover

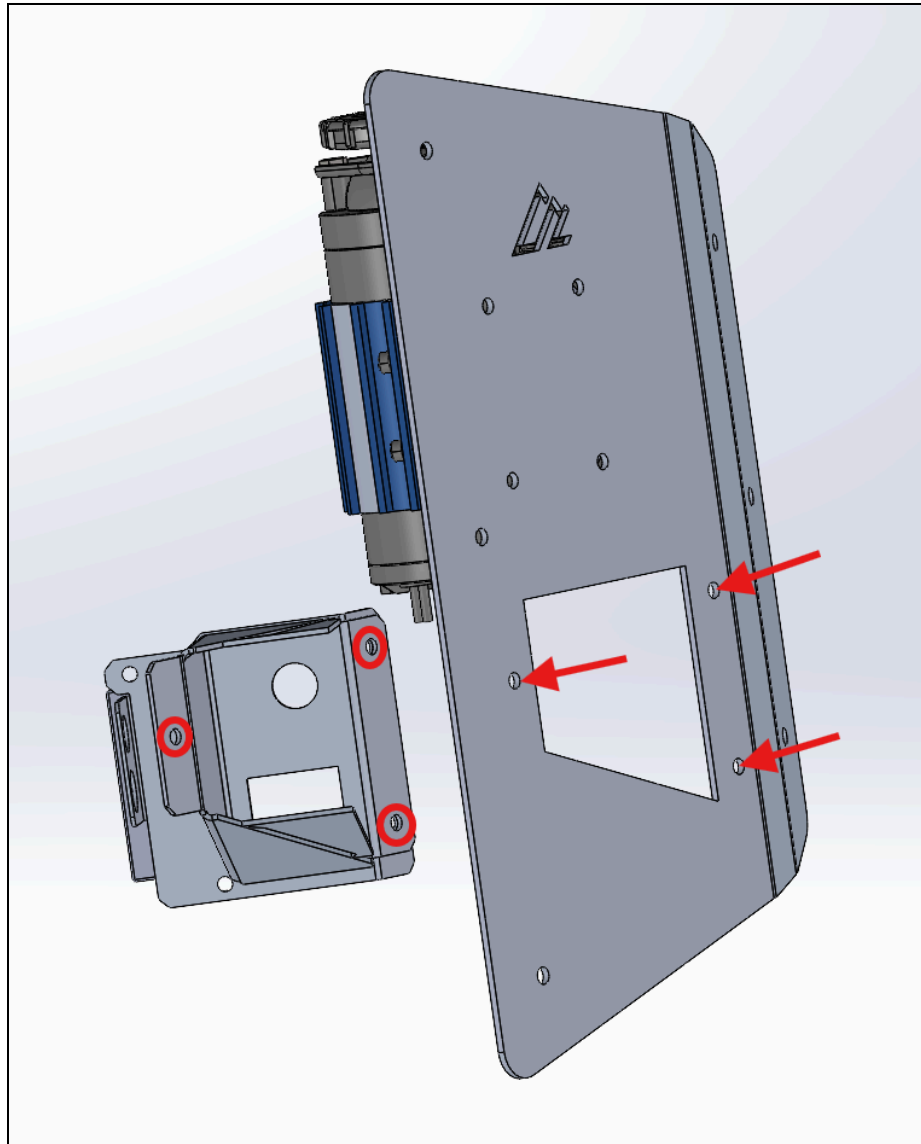
Step 1 - Fasten the Compressor to the Bracket

Using the two Compressor Nut Plates, fasten the compressor to the Main Bracket through the front face of the bracket using (4) M6x14 mm Button Head Bolts and (4) M6 Nylon Locknuts with the orientation shown below.

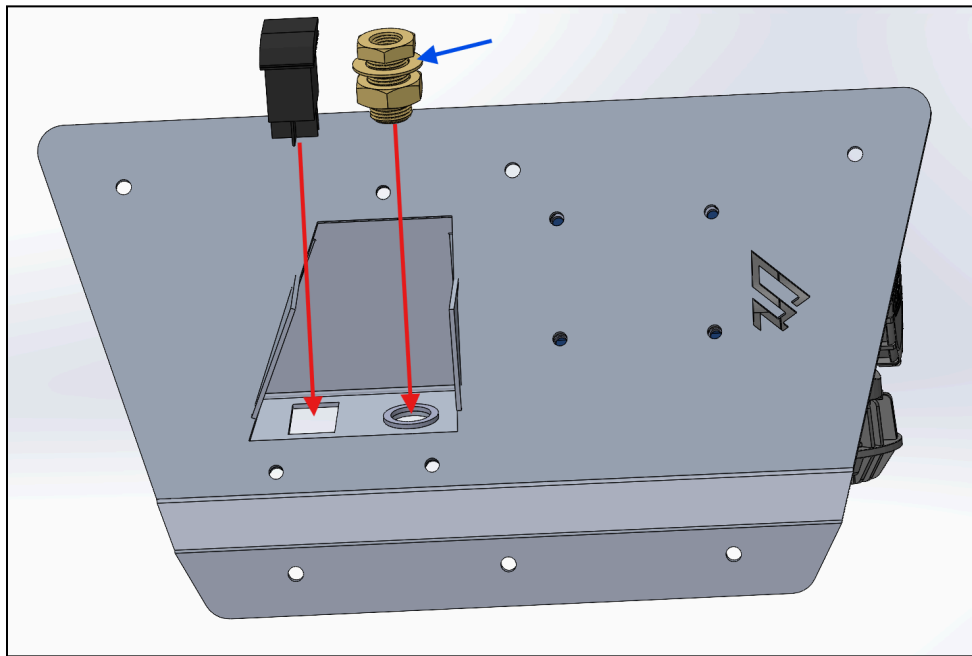


Step 2 - Connection Bracket & Wiring

First we need to fasten the connection bracket to the main bracket using (3) M6x14mm Button Head Flange Bolts



Next Insert the threaded pipe fitting and contoured switch into their outlined positions in the connection bracket as shown below. Be sure to insert the spacer between the Hex head and washer of the pipe fitting (blue arrow)



Now we need to wire the Switch and Pipe Fitting. First, lay the mounting plate assembly face down on a non-marring surface. It is now time to orient the compressor and tank to properly install the air line, fittings and pressure switch.

Diagram 1

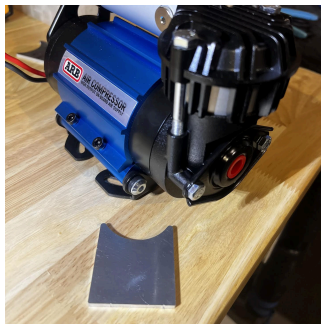


Diagram 2

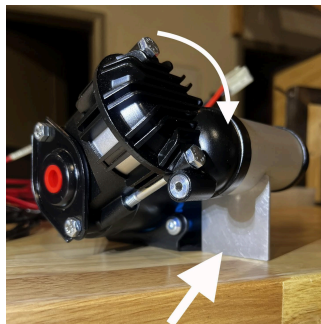


Diagram 3

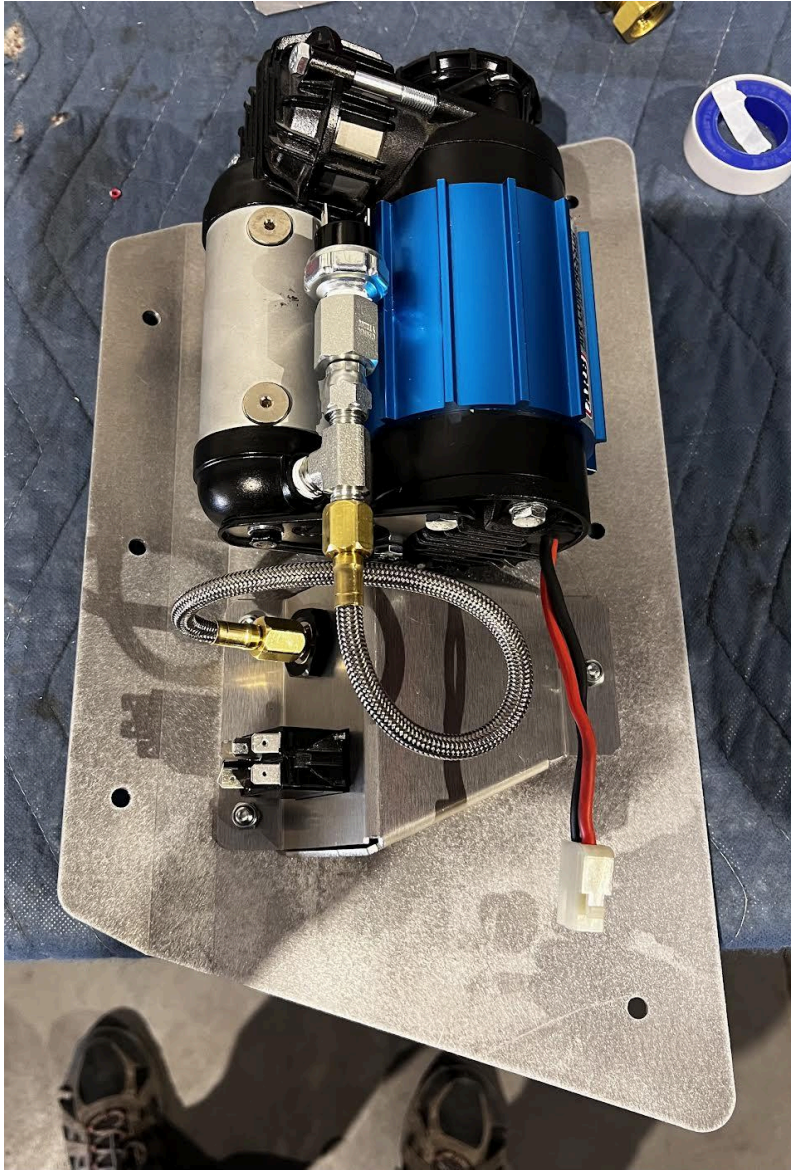


Diagram 4



Loosen but do not remove the two black socket head bolts on the compressor mount assembly (anodized blue piece). This will allow the compressor to rotate within the mount. Using the “Height Adjustment Tool” (Seen in diagrams 1&2) properly set the orientation of the compressor assembly for final assembly. Rotate the compressor so that the tank (silver cylinder with black caps) rests in the cradle of the Height Adjustment Tool and tighten the clamp bolts. **REMOVE** the tool. *Seen in diagram 2.*

Diagram 5



Moving on to the tank rotation. For the purpose of installing the airline fittings, loosen the bolt at the bottom of the cylinder but **DO NOT** remove it. Rotate the black end cap of the tank so that the outlet is pointed up and snug the bolt. Once the fittings are installed we will relocate the tank and tighten. *Shown in diagram 3.*

Caution: Be careful not to overtighten, the tank caps are aluminium and will crack!

Apply Teflon Tape to the threads of the “T” fitting, and install it into the outlet of the compressor tank. This should be parallel to the tank when tight. Then, apply teflon tape to the ARB pressure switch and attach it to the JIC adapter fitting. Then attach it to the “T” previously installed into the tank. Tighten all.

At the opposite end of the “T”, install the 17” braided hose and tighten. To connect the other end to the ARB coupler, bring the line straight down, loop over itself and into the back of the coupler. **DO NOT KINK THE LINE.** *Shown diagram 5.*

Loosen the tank bolt and rotate it so the fittings nest between the tank and compressor and tighten. *Careful not to overtighten.*

Install the ARB supplied intake filter to the top of the compressor as per ARB’s instructions.
Set the assembly aside, it is now time to start the wiring process.

If you did not purchase the optional Bronco ARB Dual Wiring Harness, an experienced wiring technician is recommended. The installer should be advised to wire this product in the same fashion as described below.

DISCONNECT THE NEGATIVE TERMINAL FROM THE BATTERY BEFORE PROCEEDING

If you did purchase the optional harness, continue as follows. Uncoil and lay flat on a workbench or suitable work surface and familiarize yourself with the layout.

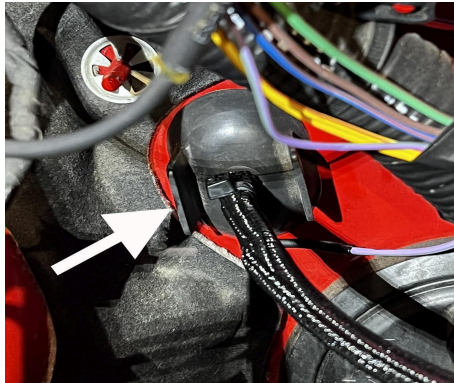


Some connectors have been intentionally left unfinished as these will pass through a wire loom in later steps.

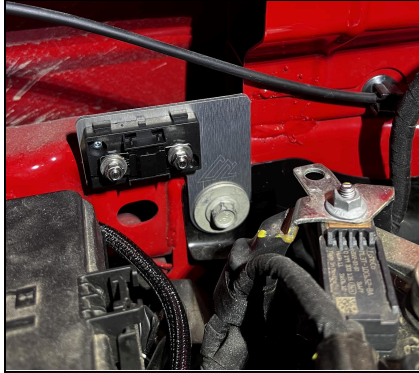
Starting in the passenger rear corner, locate the threaded hole in the metal body panel below the window. *This would have been under the cargo plastic.* With the supplied M8x8 screw attach the relay and socket to the rearward hole and tighten. *Seen left.* DO NOT OVERTIGHTEN. Behind the panel is a factory ground lug attached to the body. Loosen and remove the bolt and add the ground lug and tighten. DO NOT FORGET TO REINSTALL THE FACTORY GROUND LUG.



Next, take the long, red, 8 ga wire and begin to run it from the rear, along the lower rear cargo area, and along the drivers side behind the previously removed panels and ultimately through the firewall. Locate the oval shaped grommet on the driver side firewall. Make a suitable hole in this grommet to accommodate the red 8 ga wire and from the inside of the vehicle, pass through the firewall. The hole should be snug against the wire when inserted. This will prevent air, fumes and moisture from getting into the cabin.



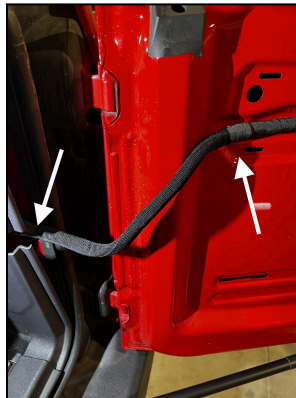
Mount the Fuse and mounting plate to the bolt located on the drivers side fender next to the battery. *Shown left.* Simply loosen the bolt enough to slide the mounting bracket behind the washer and tighten. Remove the fuse cover and install the short 8 ga wire to the forward stud on the fuse and the longer 8 ga wire from the firewall to the rear stud on the fuse and tighten. Replace the cover. **Do not connect the battery yet**



The OE harness going from the rear of the vehicle to the tailgate has a cloth wire loom. It has a cloth style TESA tape at both ends. Remove enough of this at both ends to allow access to the loom. Shown right.

Installer notes if you didn't purchase our harness:

Place the ARB switch harness inside the cavity where the compressor will be installed. Route 12v source and illumination wires, along with main



power and ground wires through the factory loom between the tailgate and body.

****IF YOU PLAN TO USE THE FACTORY AUX SWITCH FOR “KEY ON” REFER TO THE FORD WIRING DIAGRAM FOR THE PROPER LOCATION, CONNECTION AND INSTALLATION****

Note - The factory power port to which your key on connection was made can stay active for up to 45 minutes after the vehicle has been shut off according to Ford.

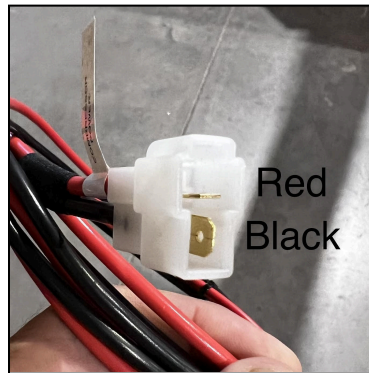
Note - Some connectors have been intentionally left off for this next step.

Installer notes if you didn't purchase our harness:

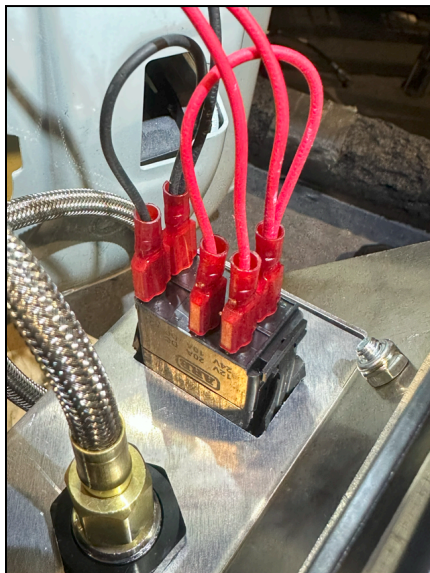
Helpful hint - putting a small amount of electrical tape on the wire pins will prevent snags going through the loom.

Now take the “Compressor Power”, “Pressure switch” and the power switch wires (red & black with the short jumpers) and feed these through the loom following the factory harness and into the gate. These connections will be made later. This will be a snug fit, but all of the wires will fit. A long zip tie or welding filler rod works well, if threaded through the loom and taped to the wires, to help pull the wires through.

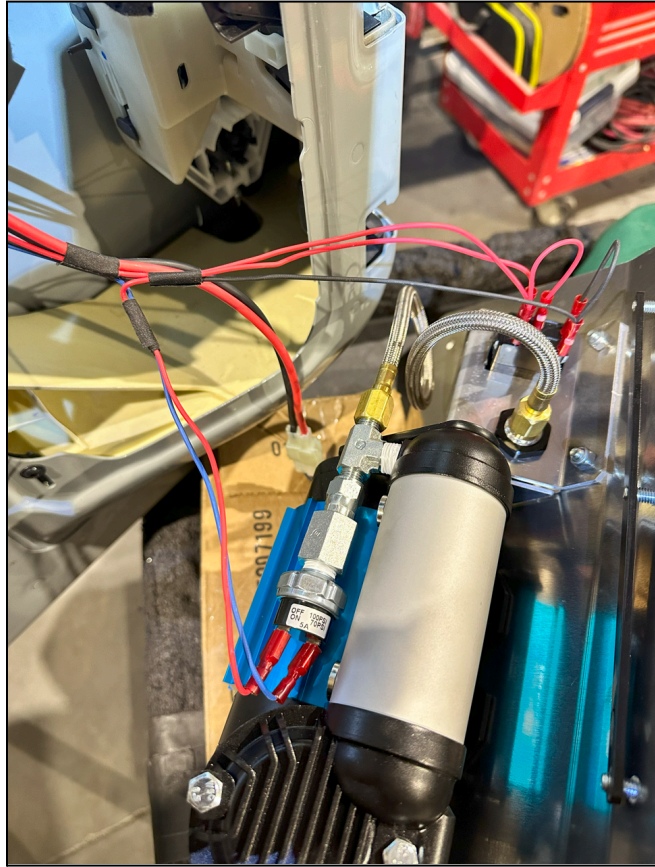
Once these are through, position them where the compressor will be installed and leave enough slack to make your final connections. Take the two wire compressor power harness and insert the pins as follows



We'll then wire the compressor switch. Take the branch from the bundle of power cables which includes two red wires and one black wire (one red jumper cable, one black jumper cable, one conventional red cable). Orient the cables as shown below.

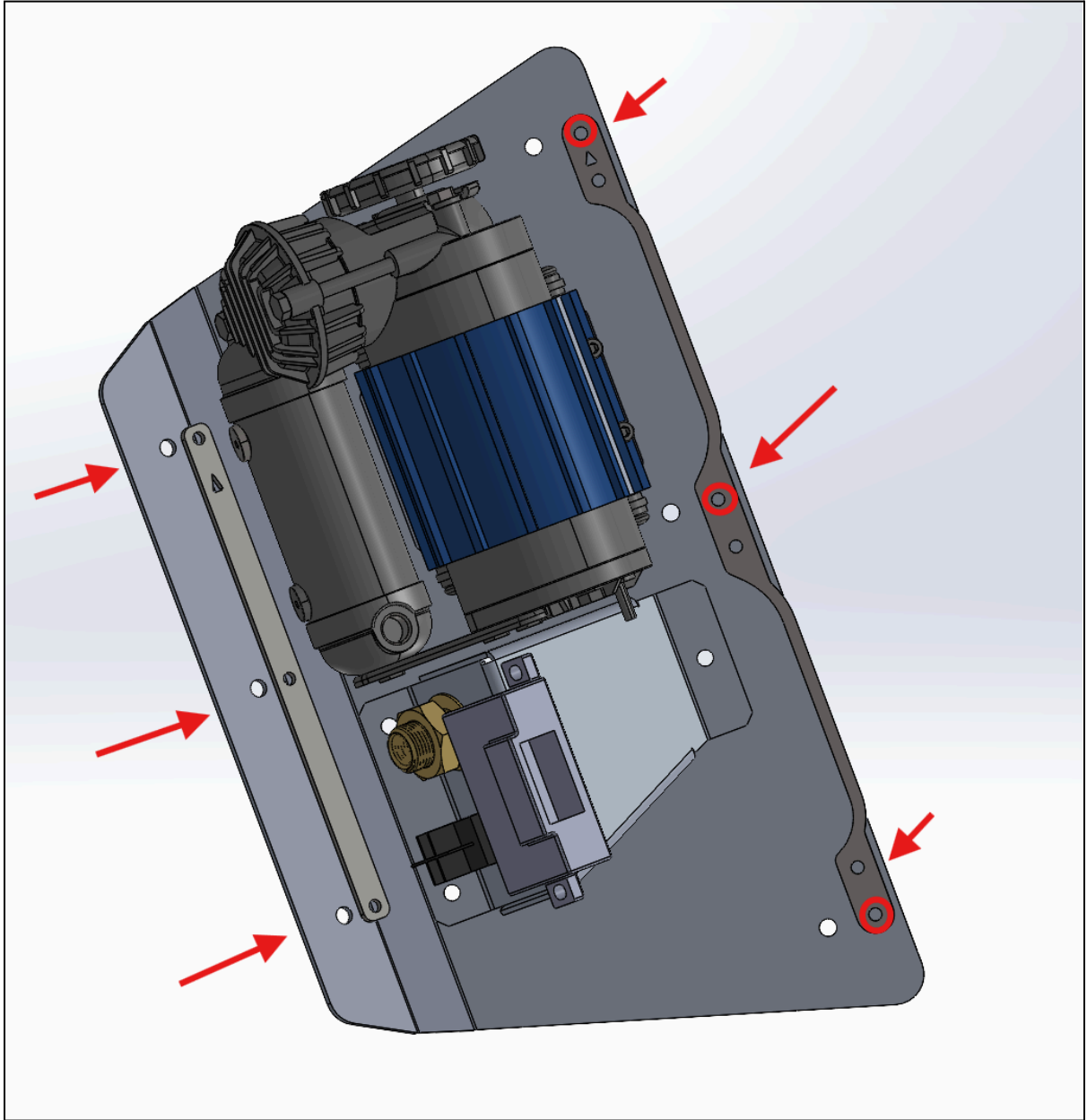


Next take the red and blue wires from the harness and wire it to the end of the Steel Female Adapter. At this point the compressor should appear as it does below

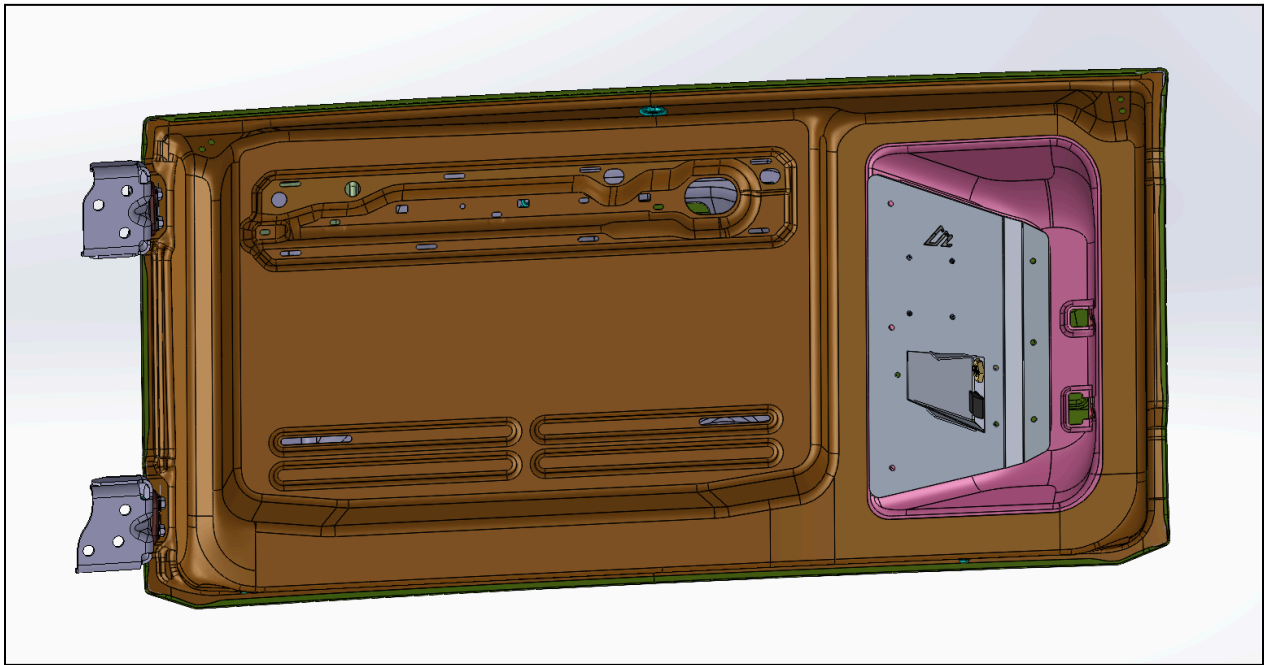
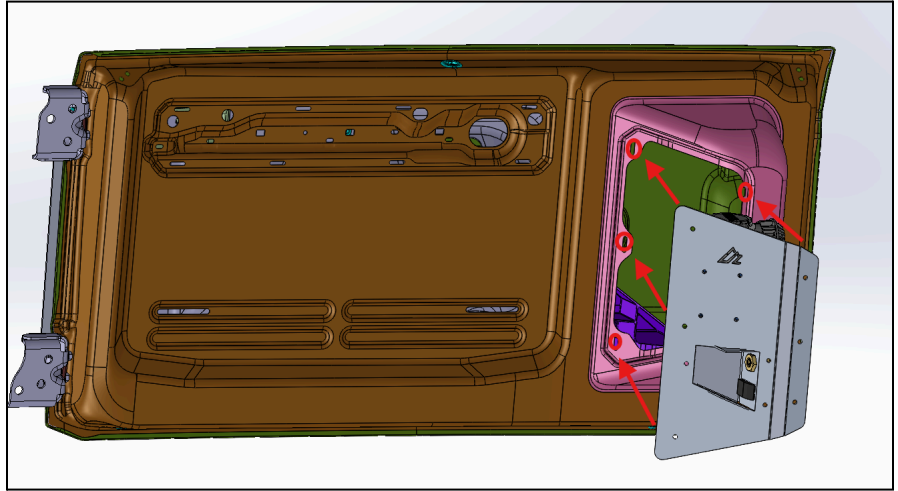


Step 3 - Fasten the Fixture to the Tailgate

The first step in fastening the fixture is to align the Long and short nut plates in the respective slots on the back side of the bracket. These nut plates actually sit behind the frame of the vehicle. We will show pictures in the next step to make this clear but what's important now is understanding which holes need to be bolted.



Once they are aligned, slide (3) M6x20mm Button head flange bolts through the face of the bracket On each side (6 total), through the nut plates, and into their respective slots in the tailgate of the vehicle



Share Your Photos!

We take great pride in building our products and we hope that pride extends to you after installing your [Insert Name of Product]. 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.

