

ROUGH COUNTRY

ERBOX11518

GMC Sierra (07-18) Chevy Silverado 1500 (07-18) Power Board Box Kit

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go. If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product. Check all fasteners for proper torque. Check to ensure for adequate clearance between all components. Periodically check all hardware for tightness..



Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16"	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8"	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16"	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2"	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16"	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8"	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4"	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs



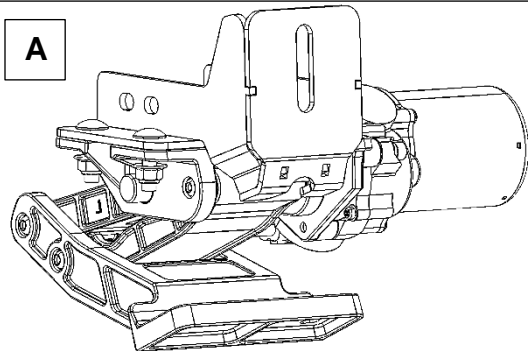
INSTALLATION INSTRUCTIONS

Mechanical PARTS LIST:

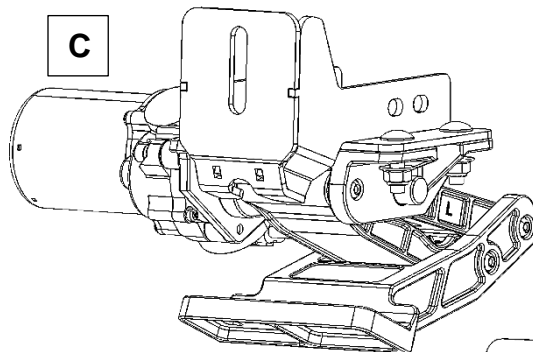
Qty	Item Description	Qty	Item Description
2	Running Boards	16	8-1.25x30mm Carriage Bolts
1	Driver Front Motor Linkage Assembly	20	8mm Flange Nylon Lock Nuts
1	Passenger Front Motor Linkage Assembly	8	8-1.25x25mm Hex Bolts
2	Rear Linkage Assemblies	4	8-1.25x30mm Hex Bolts
4	Steel Mounting Brackets	4	8-1.25x45mm Hex Bolts
1	DF Support Bracket	4	8-1.25x35mm (28x13-10-5) Bolt Plates
1	PF Support Bracket	4	8-1.25x30mm (70x15-15-5) Bolt Plates
1	DR-B Support Bracket (For 14-18 Crew Cab)	8	8mm Hex Nuts
1	PR-B Support Bracket (For 07-18 Crew Cab)	4	8mm Double Nut Plates (48x16x4)
1	DR-A Support Bracket (For 07-13 Crew Cab)	16	8mm Lock Washers
1	DR-C Support Bracket (For 07-18 Double Cab)	4	8mm Nut Clips
1	PR-C Support Bracket (For 07-18 Double Cab)	8	8x24x2mm Large Flat Washers
1	8-1.25x40mm Bolt Plate (78x15-26-5)	8	8x16x1.6mm Flat Washers
4	Washer Plates	8	Plastic Retainers $\phi 8(\delta 0.7 \times 40 \times 40)$
16	6mm Nylon Lock Nuts	4	8mm Fish Wires
16	6-1.0x20mm Carriage Bolts	1	Adhesive Foams (100*30)
16	6mm x 16mm x 1.6mm Flat Washers	3	Rubber Sleeves

Electronic Materials Package PARTS LIST:

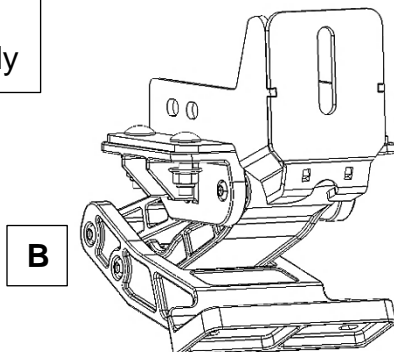
Qty	Item Description	Qty	Item Description
1	Main Harness	1	ECU
4	Magnetic Switches	4	LED Lights
1	LED Y-Harness (280mm)	1	LED Y-Harness (1200mm)
4	Magnets and Adhesive Prep Kit	4	Zip Ties



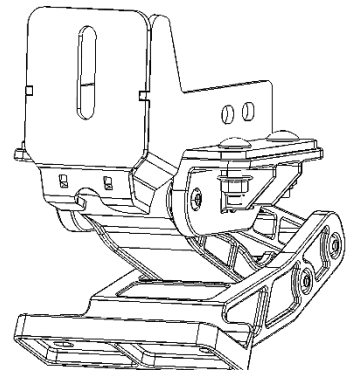
**Driver Front
Bracket Assembly**



**Passenger Front
Bracket Assembly**



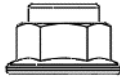
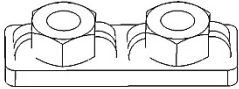


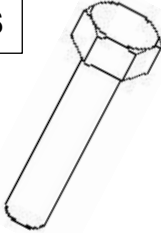


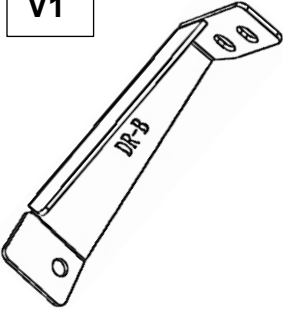
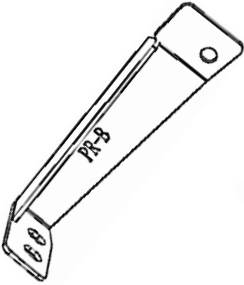
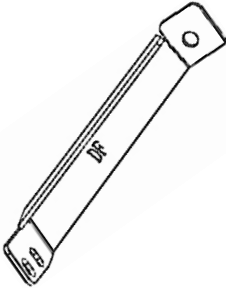
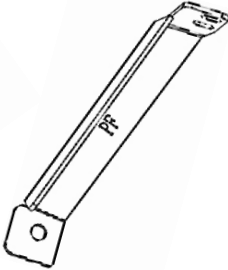
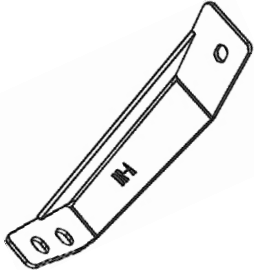
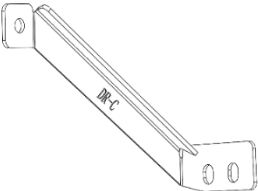
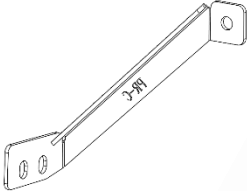
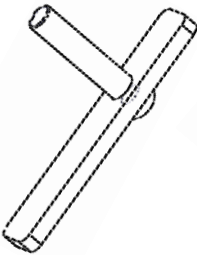
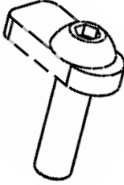



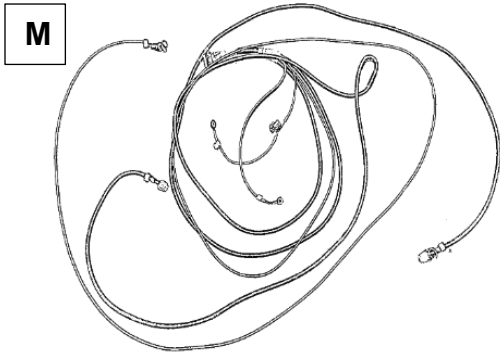
**Driver Rear
Bracket Assembly**



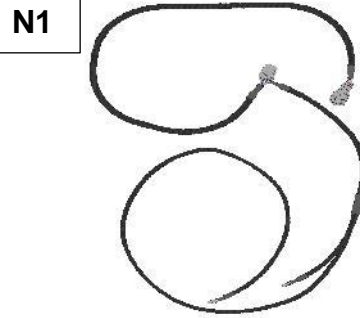
**Passenger Rear
Bracket Assembly**

*Note: Driver
Side and
Passenger Side
Rear Bracket
Assemblies are
the same.*

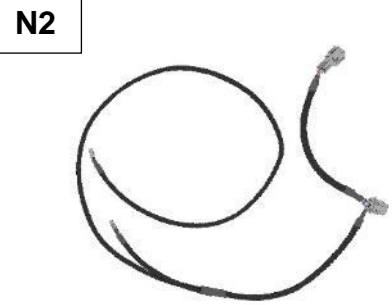
E	F	G	H	I	O
					
M6 Carriage Bolt	Plastic Retainer	M6 Nylon Lock Nut	Small Flat Washer (16mm OD)	M8 Nylon Lock Nut	M8 Double Nut Plate
P	Q	R	S	T	U
					
Large Flat Washer (24mm OD)	M8 x 25mm Hex Bolt	M8 x 30mm Hex Bolt	M8 x 45mm Hex Bolt	8mm Hex Nut	8mm Lock Washer
V1	W1	X1	X2	V2	
					
DR-B Support Bracket	PR-B Support Bracket	DF Support Bracket	PF Support Bracket	DR-A Support Bracket	
V3	W2	Y1	Y2	Z1	Z2
					
DR-C Support Bracket	PR-C Support Bracket	Bolt Plate (78x15-26-5)	Small Bolt Plate	8mm Washer Plate	8mm U-clip Nut



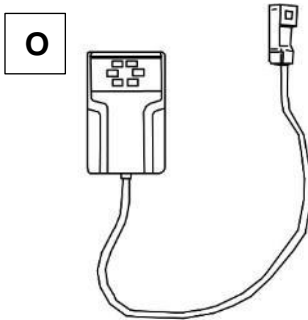
Main Harness



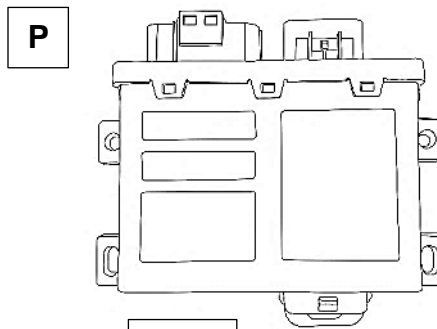
LED Y-Harness (1200mm)



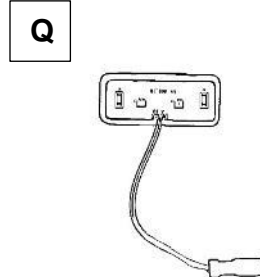
LED Y-Harness (280mm)



Magnetic Switches

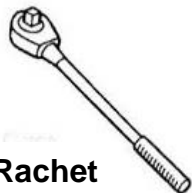


ECU



LED Lights

TOOLS REQUIRED



Ratchet



Socket

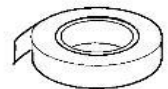
8mm
10mm
13mm



Extensions



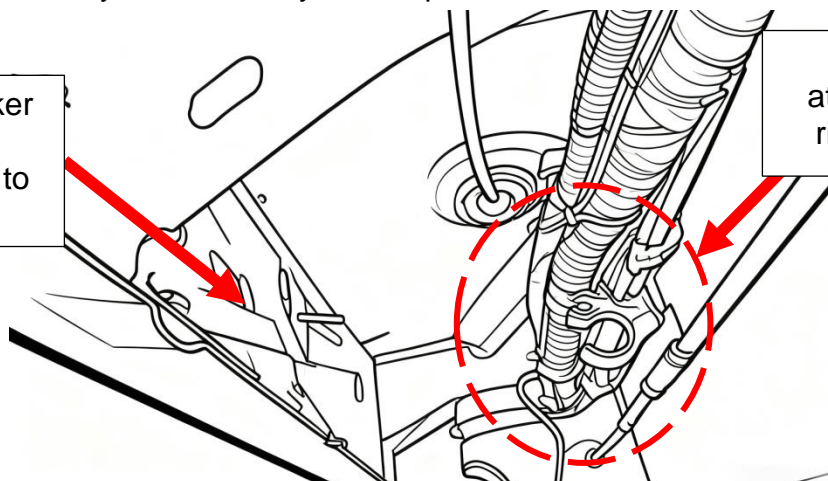
Wrench



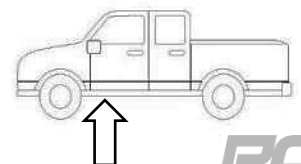
Electrical Tape

- 1 Check over the condition of underbody rocker panels and make sure it is strong enough and safe to attach things to. Also, Confirm whether there are OE Harnesses near the frame. Some vehicles may have different looking harnesses depending on the year, model, and trim. During the installation, it may be necessary to unclip and move the harnesses.

Make sure the rocker panel is not too corroded and safe to mount to.

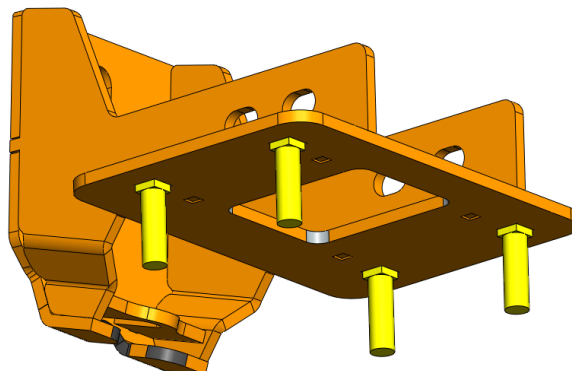
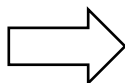
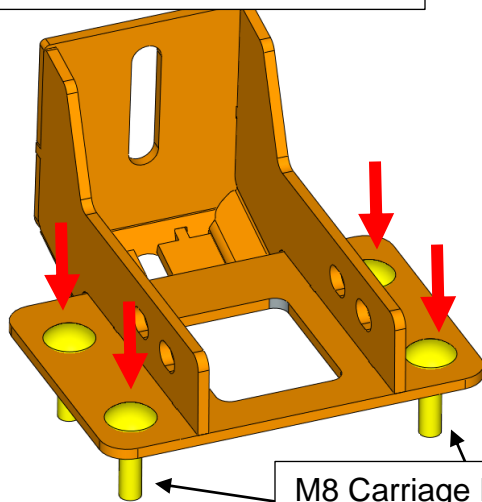


OE Harness is attached via plastic rivets to the frame



Take the mounting brackets and attach them to the linkage arms. First, insert the M8 Carriage Bolts into the square slots on the brackets so that the threads are pointing downwards.

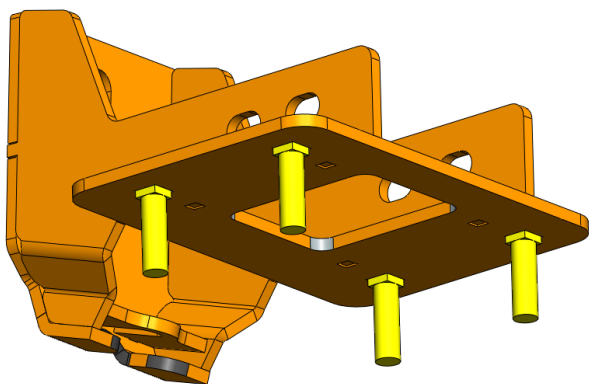
Insert M8 Carriage Bolts downwards.



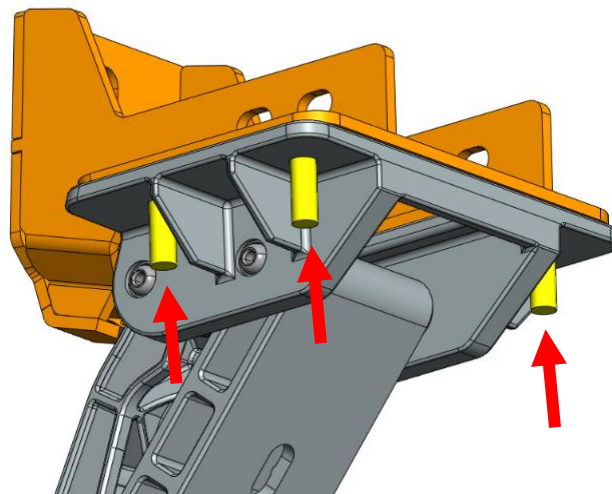
Note: Brackets pictured on this page are for illustration purposes only. Your brackets may not look like these.

Next, use the M8 Flanged Nylon Lock Nuts to fasten the aluminum linkage arms to the brackets. There are 4 fastening points on each bracket.

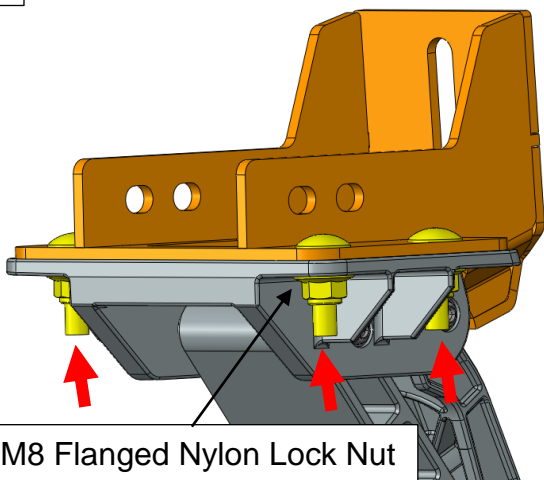
1



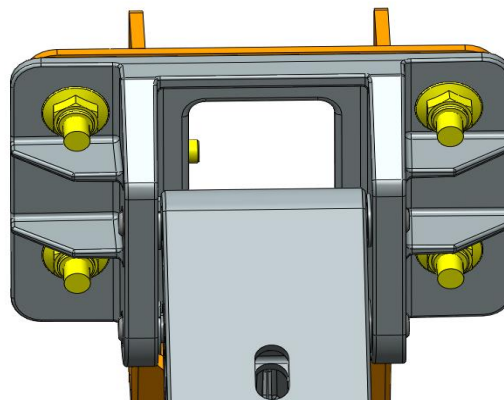
2



3



4

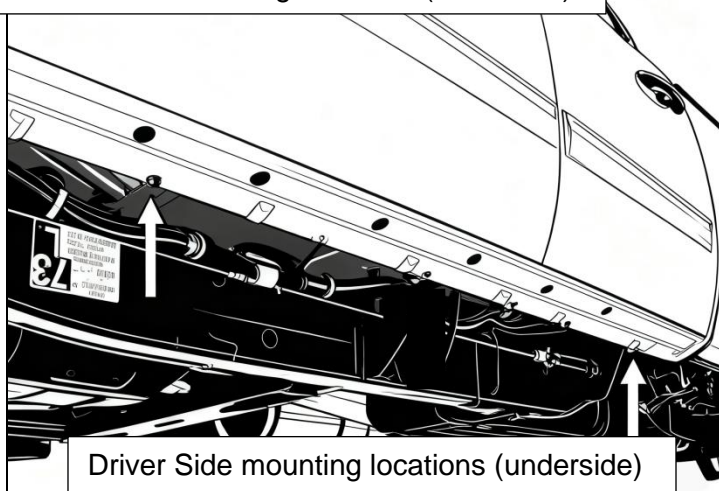


Tighten the M8 Flanged Nylon Lock Nuts all the way until tight.

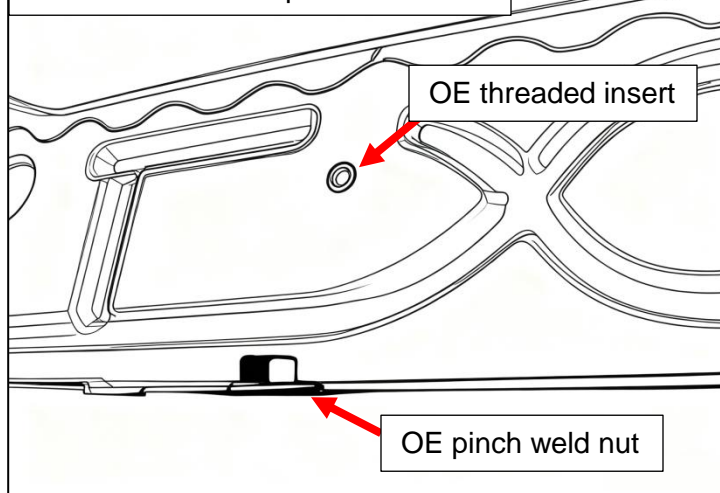
Next, locate the front mounting area. Determine what style of mounting hole is on the vehicle rocker panel and pinch weld. Follow the guide below:

Vehicles may have a combination of the below mounting methods. Use the guide below in combination with what types are appropriate for your vehicle.

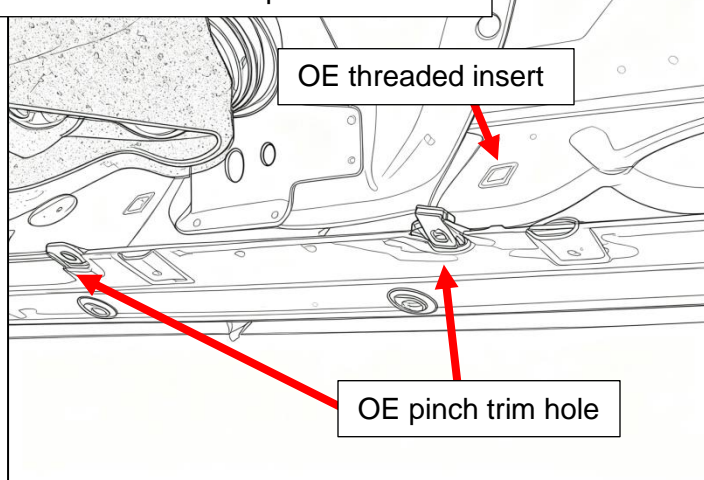
Driver Side mounting locations (underside)



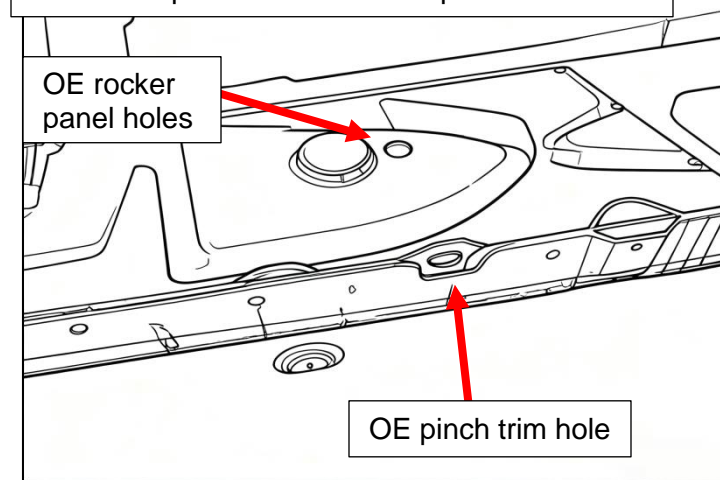
OE inserts with OE pinch weld nut



OE inserts with OE pinch trim holes



OE rocker panel holes with OE pinch trim holes



For the situation of “**OE threaded insert with OE pinch weld nut**”, follow **step 3A**.

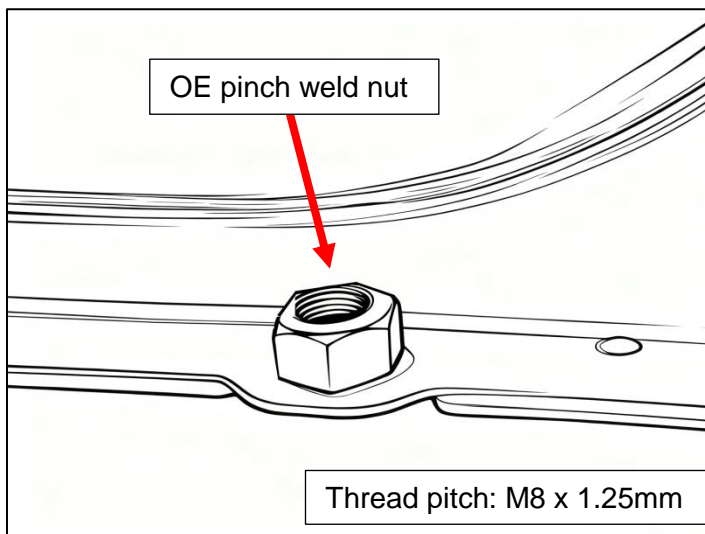
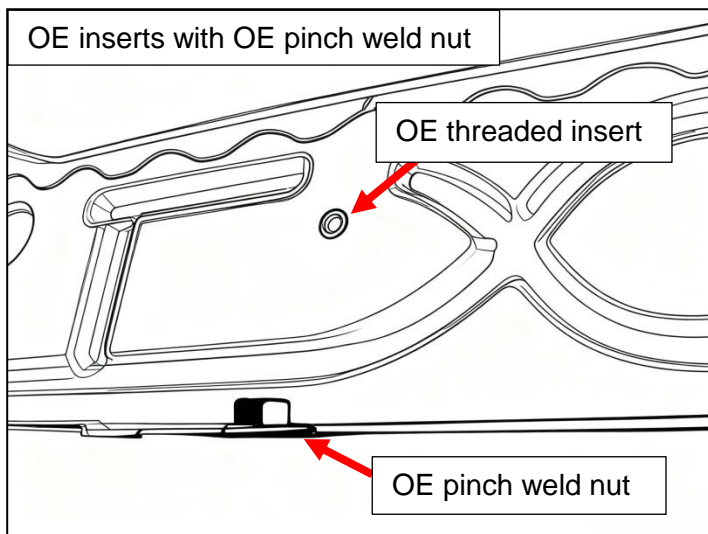
For the situation of “**OE threaded insert with OE pinch trim hole**”, follow **step 3B**.

For the situation of “**OE rocker panel holes with OE pinch trim hole**”, follow **step 3C**.

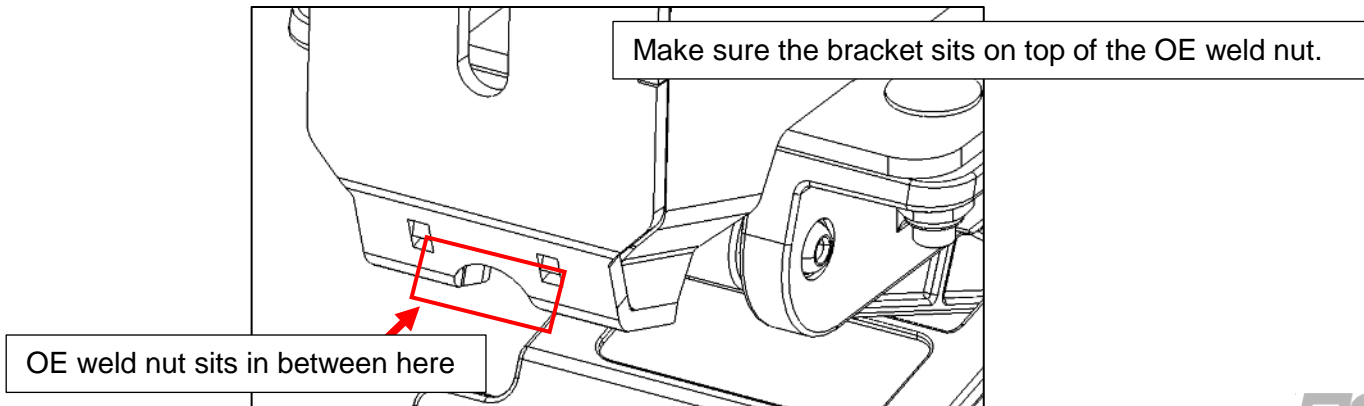
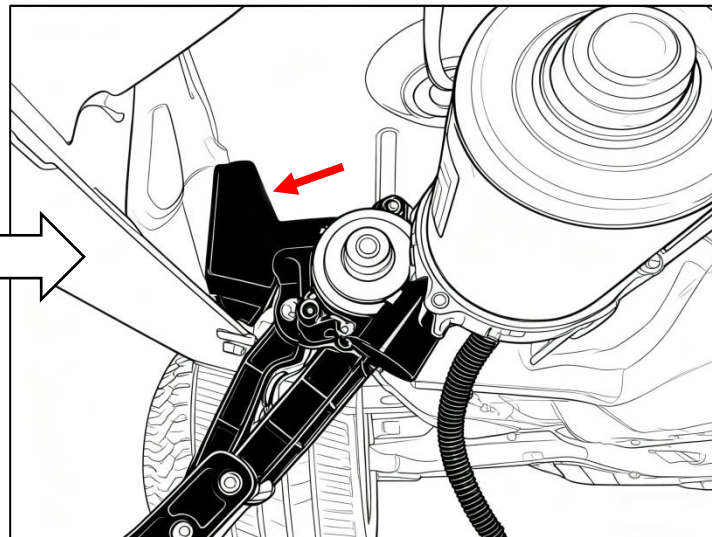
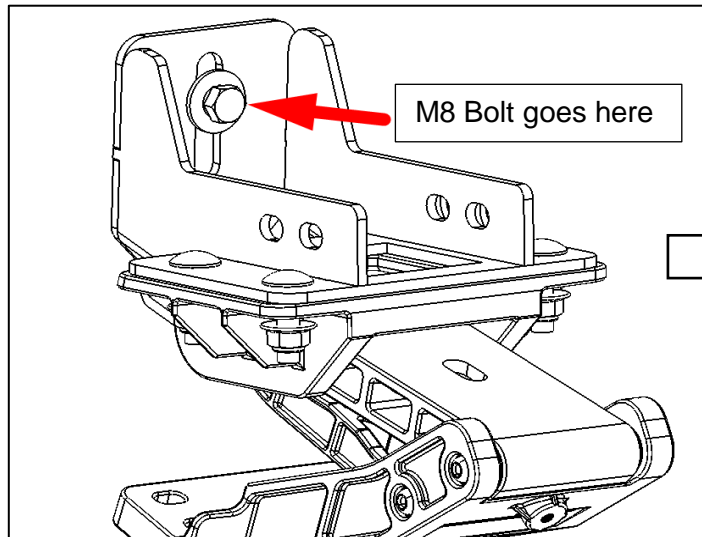
If Step 3C does not work, follow **step 3D**.

Vehicles may sometimes have a combination of these situations going on at the same time. For these cases refer the appropriate step and proceed with the installation.

Locate the front mounting points. If the vehicle's vertical rocker panel has threaded inserts, first remove any OE or old hardware already threaded in place. It is recommended to also use a thread tap to clean out the OE threaded insert before attempting to install the bracket assemblies. The same is recommended for the OE pinch weld nut.

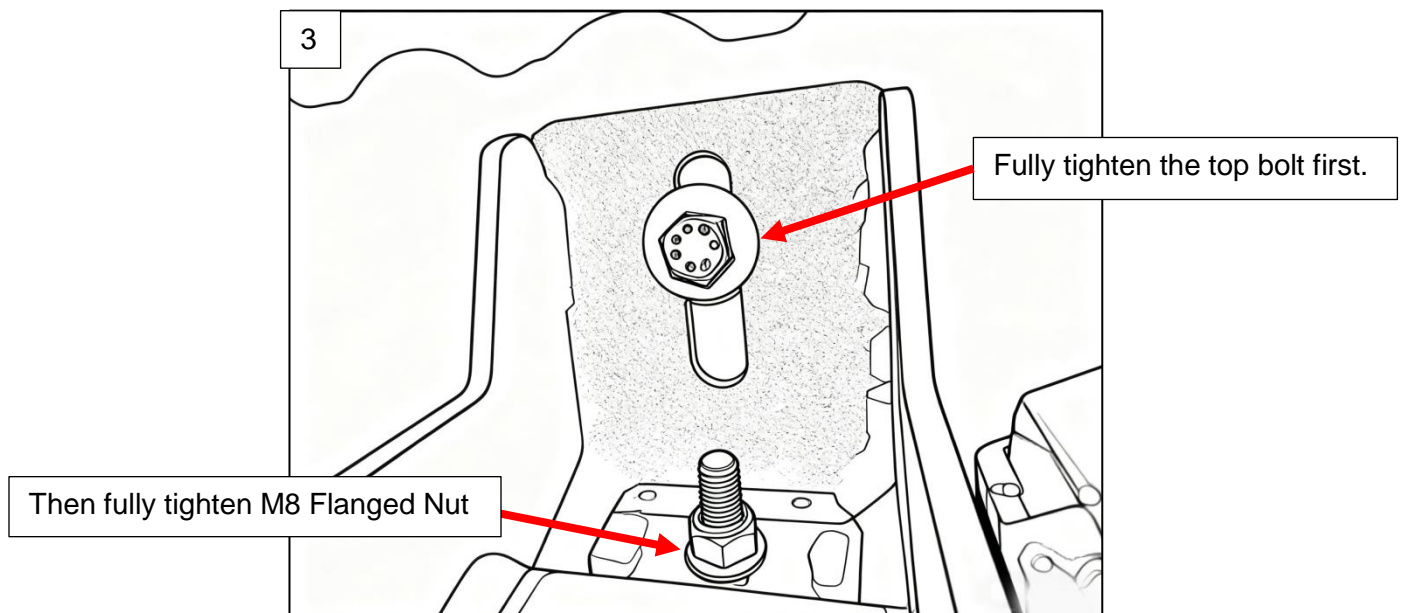
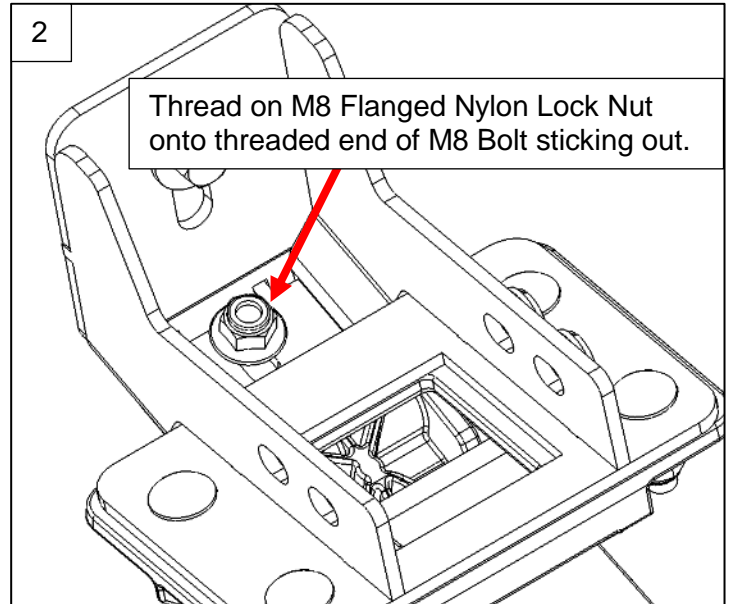
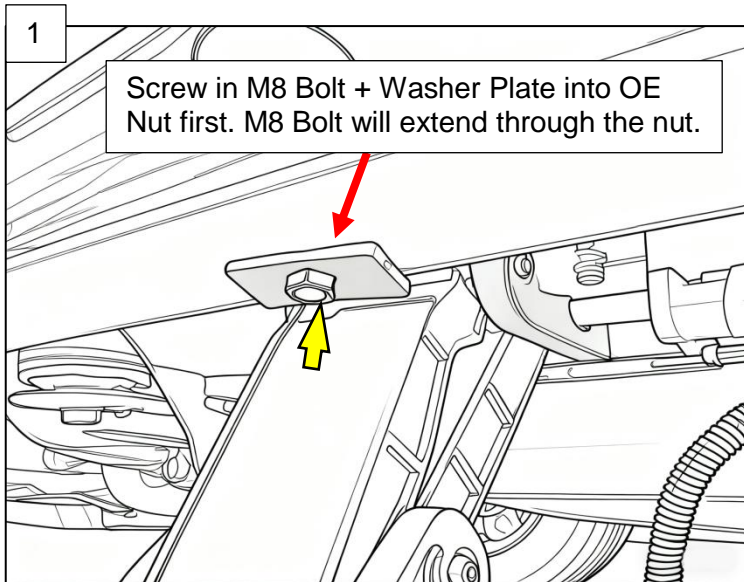


Next, line up the front mounting bracket slots to the rocker panel mounting points and place Driver Side/Left Front Bracket Assembly (A) onto rocker panel. Thread the M8 Hex Bolt (30mm length) + M8 Lock Washer + M8 Flat Washer (24mm diameter) (P) into the top threaded insert. Hand tighten the mounting hardware until snug adjust the bracket as needed for the next step.



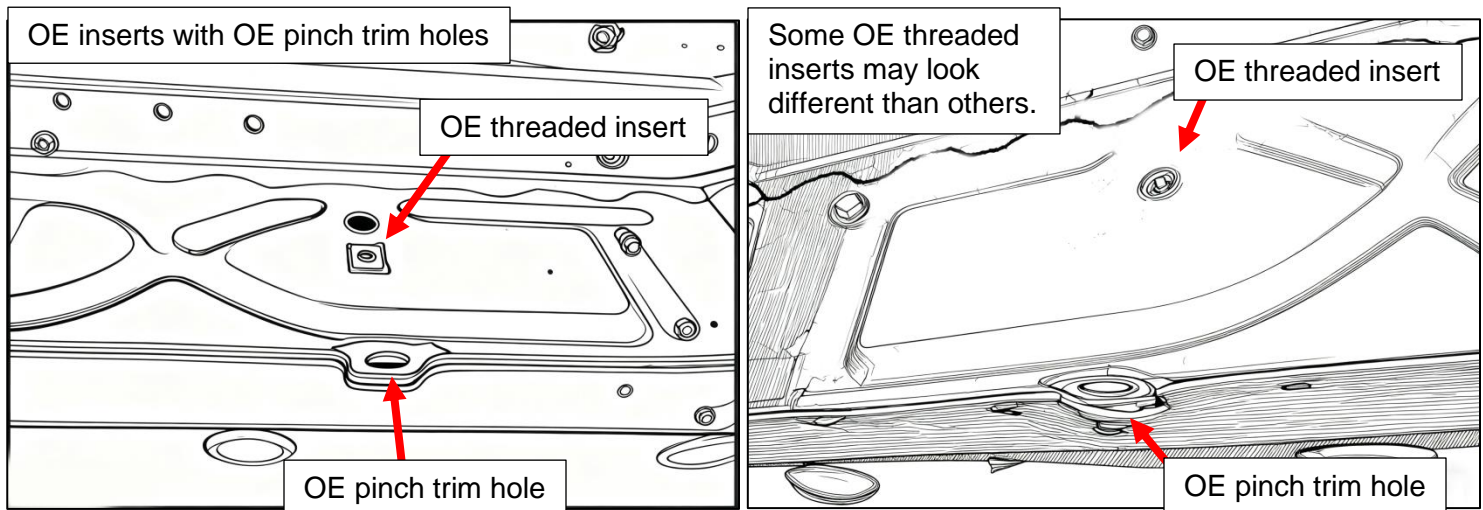
Next, thread an M8 Hex Bolt (45mm length) + Washer Plate (Z1) into the OE pinch weld nut from the bottom. Thread the hex bolt all the way through until max.

Then take an M8 Flanged Nylon Lock Nut (I) and fasten it onto the threaded end of the hex bolt from the top of the bracket assembly. Make sure the OE pinch weld nut sits neatly in-between the bracket's two lower posts.

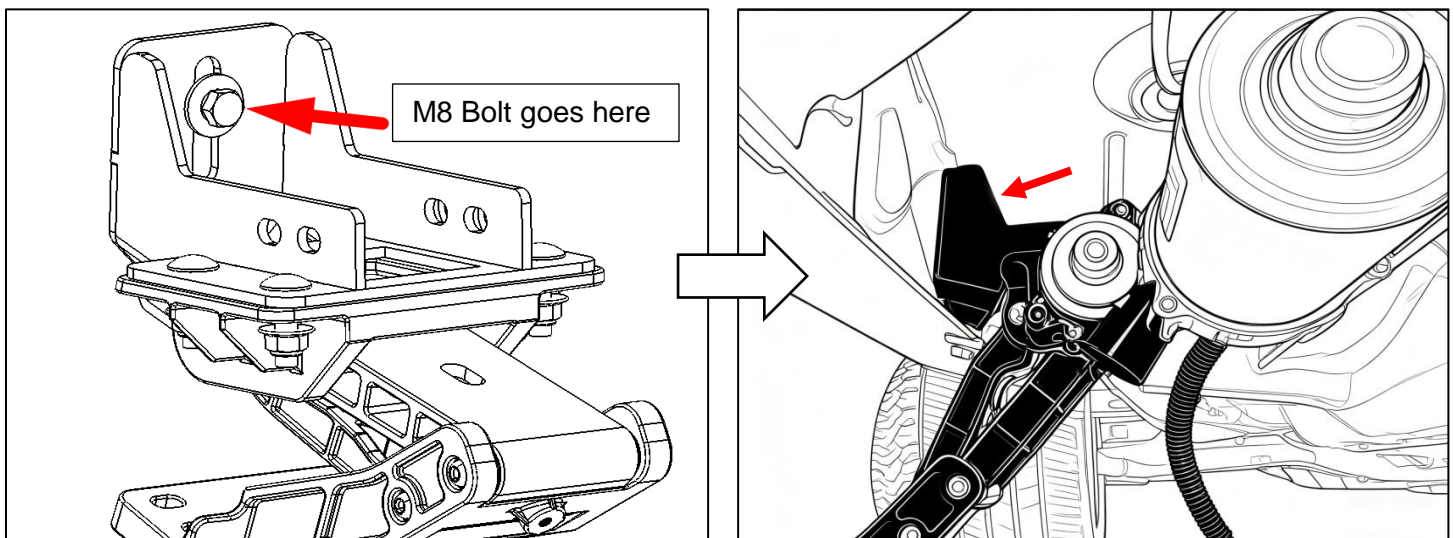


Once the Driver-side Front Bracket Assembly (A) is mounted and secure, move on to step 4.

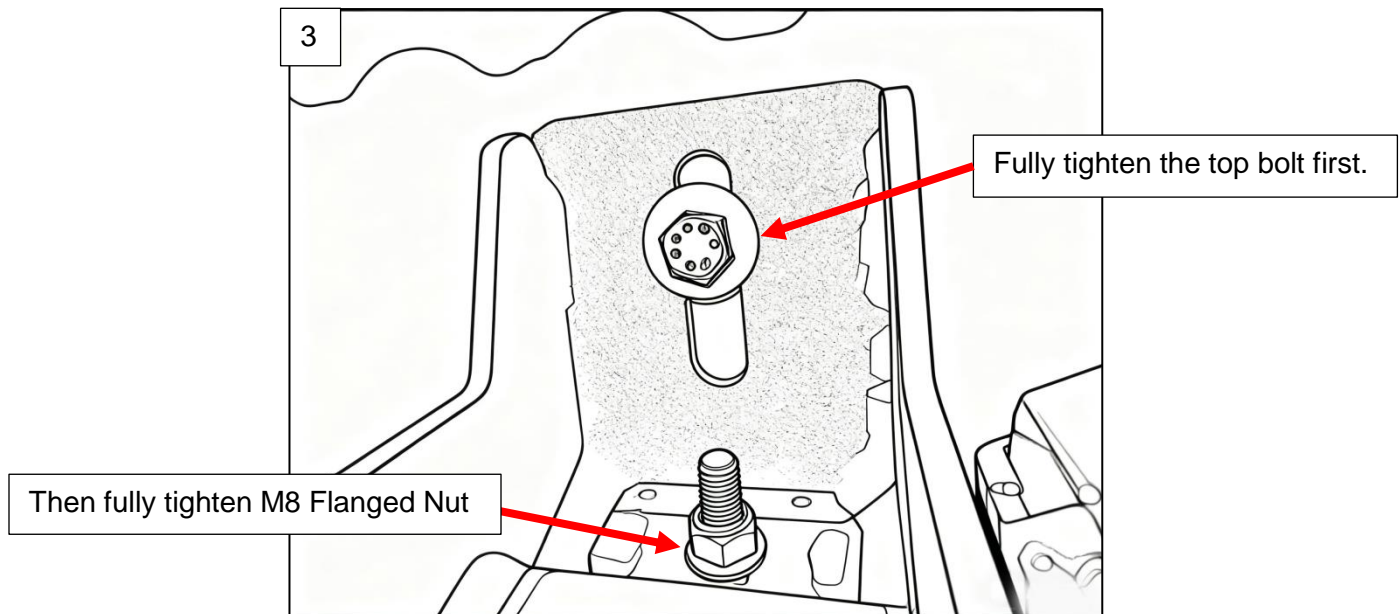
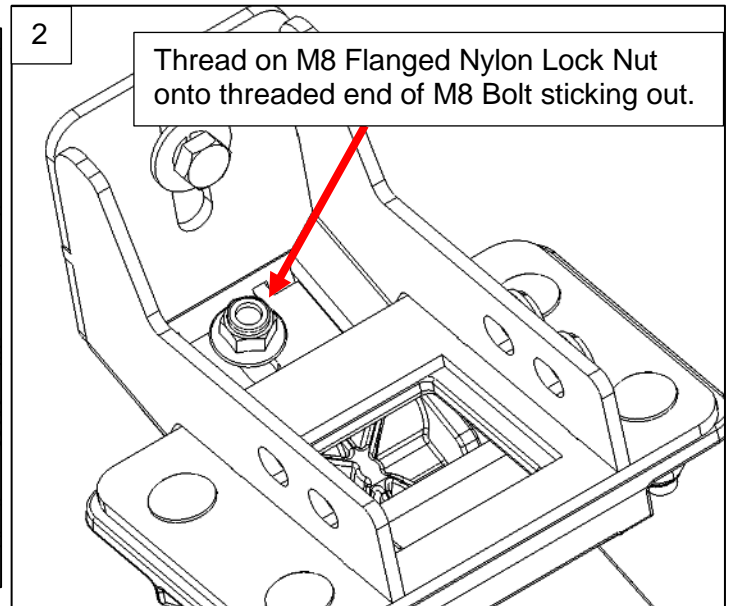
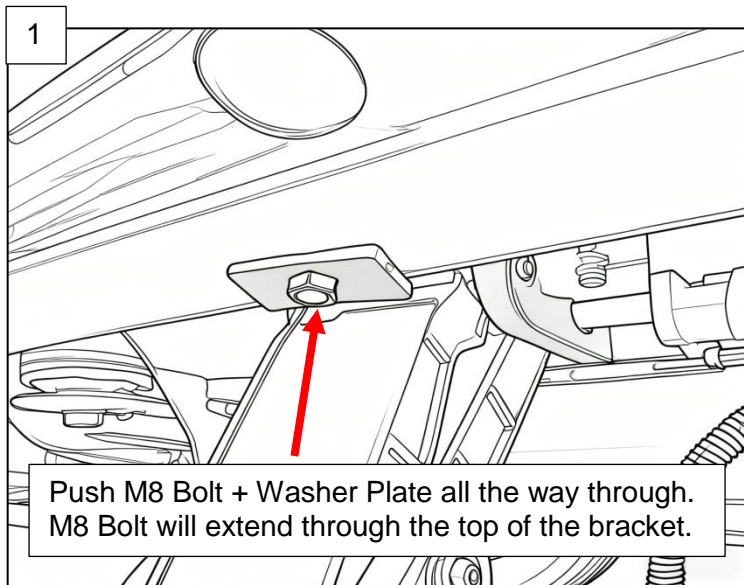
Locate the front mounting points. If the vehicle's vertical rocker panel has threaded inserts, first remove any old hardware already in place. It is recommended to also use a thread tap to clean out the OE threaded insert before attempting to install the bracket assemblies.



Next, line up the front mounting bracket slots to the rocker panel mounting points and place Driver Side/Left Front Bracket Assembly (A) onto rocker panel. Thread the M8 Hex Bolt (30mm length) + M8 Lock Washer + M8 Flat Washer (24mm diameter) (P) into the top threaded insert. Do not tighten all the way yet. Hand tighten the mounting hardware until snug.

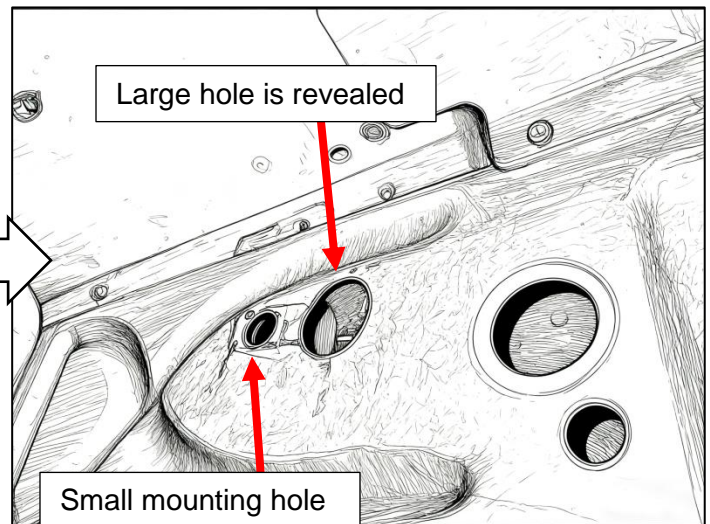
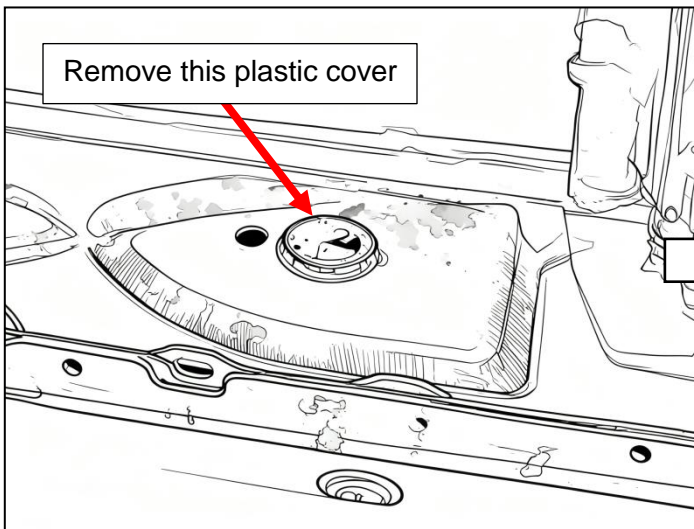


Push the hex bolt all the way through the hole in the pinch weld (on vehicle) and through the spacer block and bracket. Then take an M8 Flanged Nylon Lock Nut (I) and fasten it onto the threaded end of the hex bolt from the top of the bracket assembly. Tighten until snug and adjust the bracket assembly as needed.

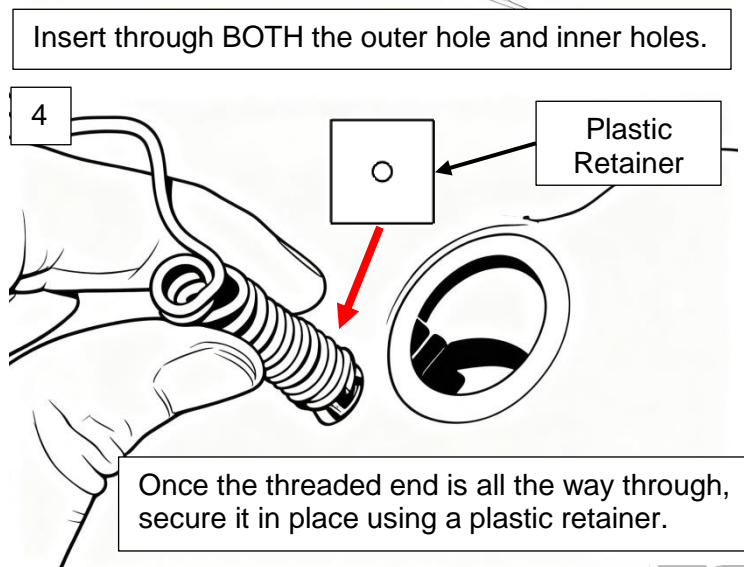
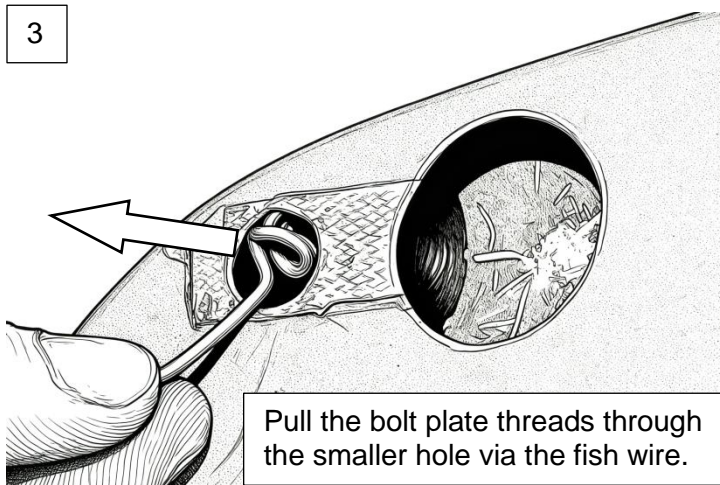
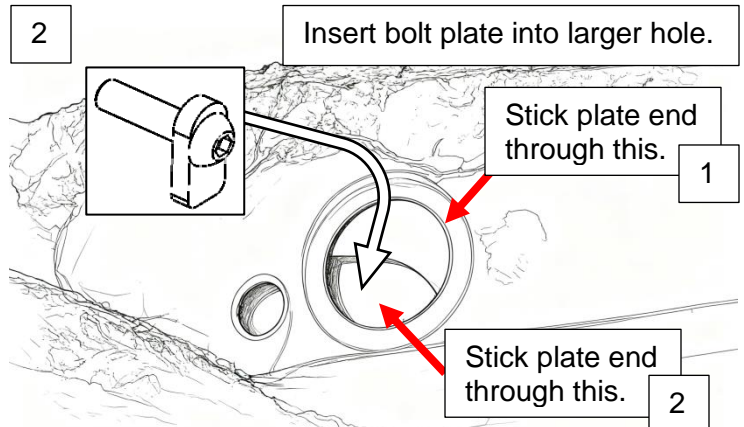
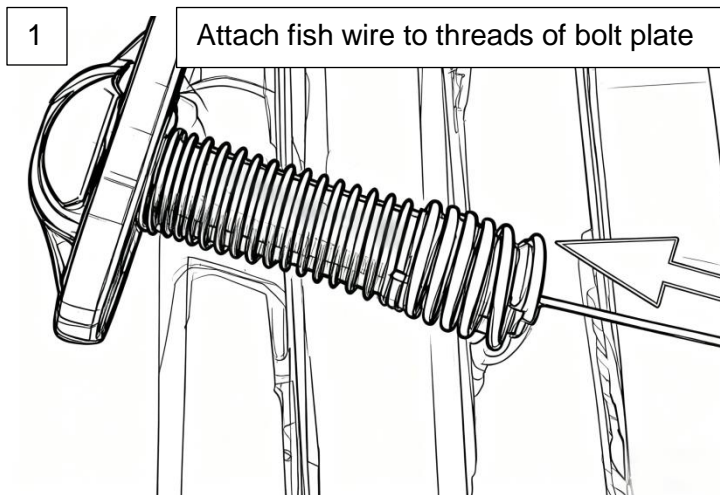


Once the Driver-side Front Bracket Assembly (A) is mounted and secure, move on to step 4.

Locate the front mounting points. Remove the circular plastic cover next to the upper rocker panel hole using a thin pry tool. A larger hole will be revealed after removing the cover.



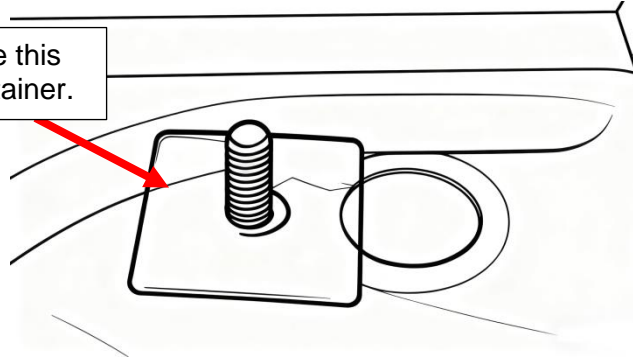
Take an 8-1.25mm x 35mm Small Bolt Plate (Y2) and thread on the curled end of the fish wire onto the threaded portion of the bolt plate. Then, using the fish wire, insert the bolt plate into the larger hole on the rocker panel and fish the bolt plate into place at the small mounting hole.



Once the threaded end is all the way through, secure it in place using a plastic retainer.

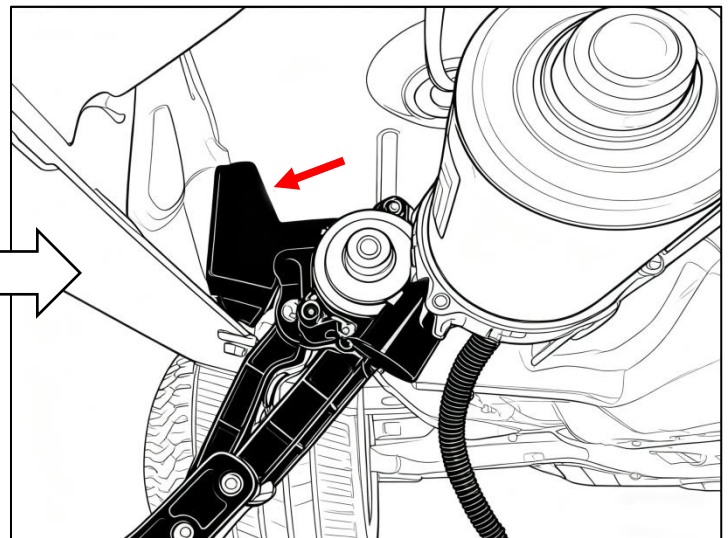
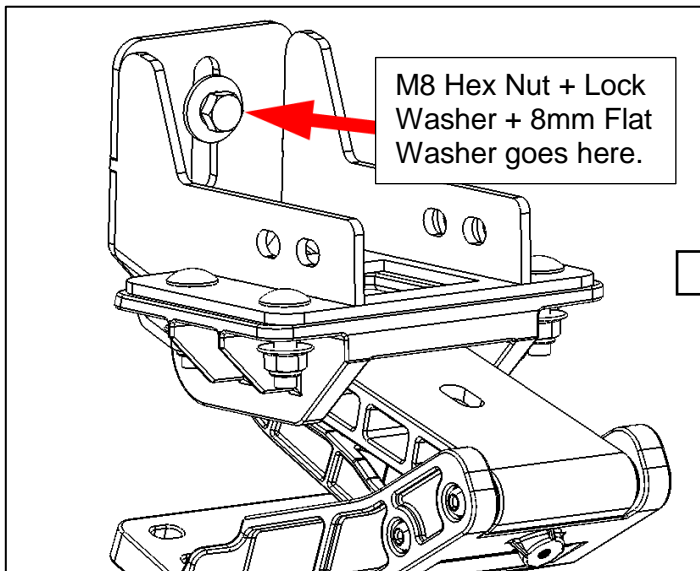
Once the bolt plate is through the small mounting hole, secure it using a plastic retainer (F). On some vehicles, depending on the cab configuration, the inner hole may be slightly more difficult to reach, and in these cases, it is recommended to use a flathead screwdriver as an assisting guide tool. If the bolt plate accidentally comes loose off the fish wire and falls into the inner rocker panel cavity, it is recommended to use a flexible magnet to retrieve the bolt plate.

The bolt plate should look like this when secured by a plastic retainer.

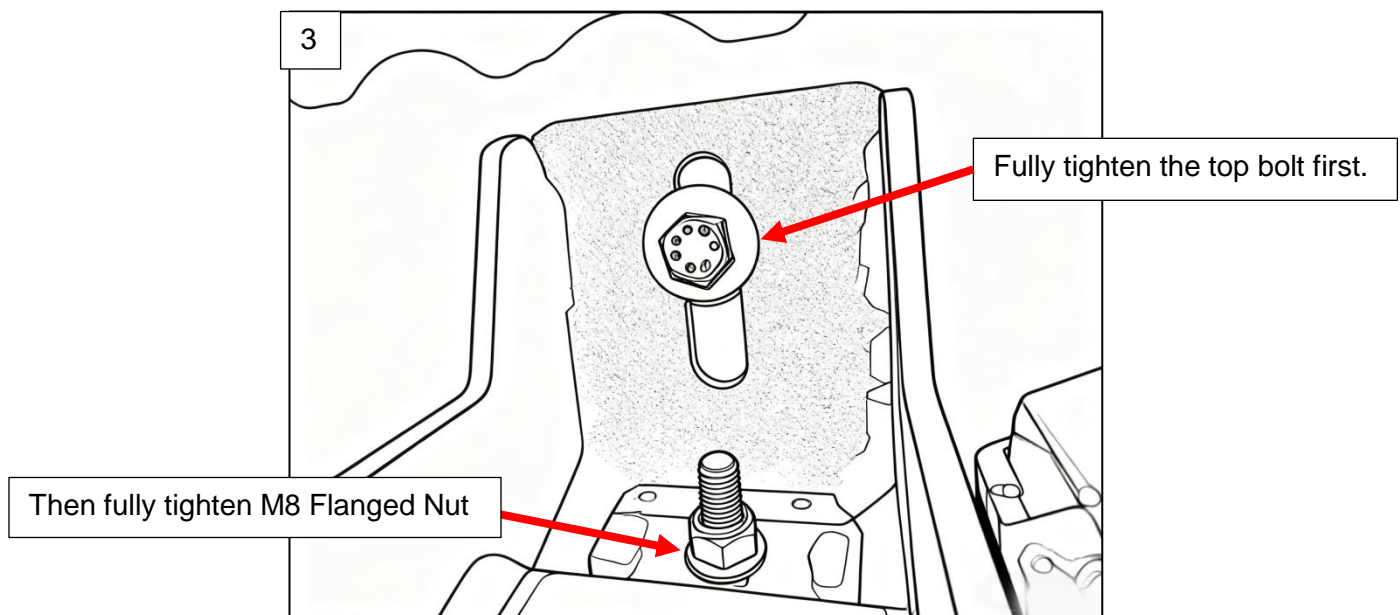
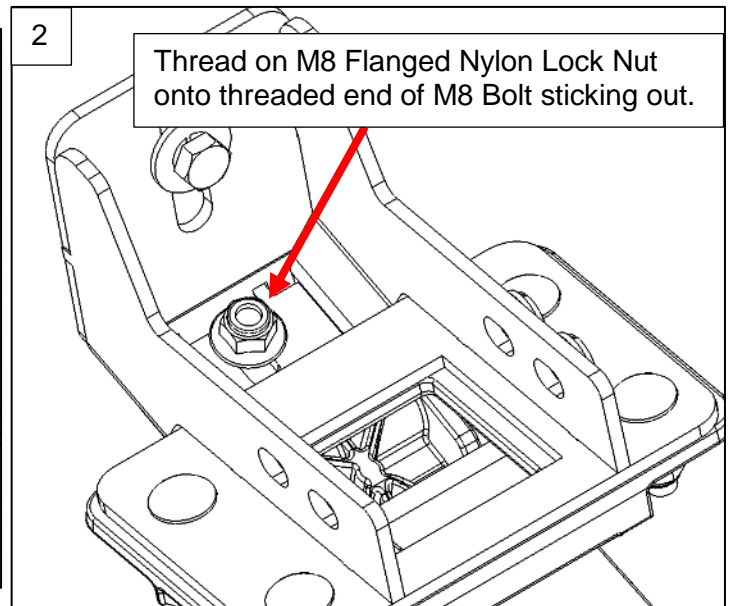
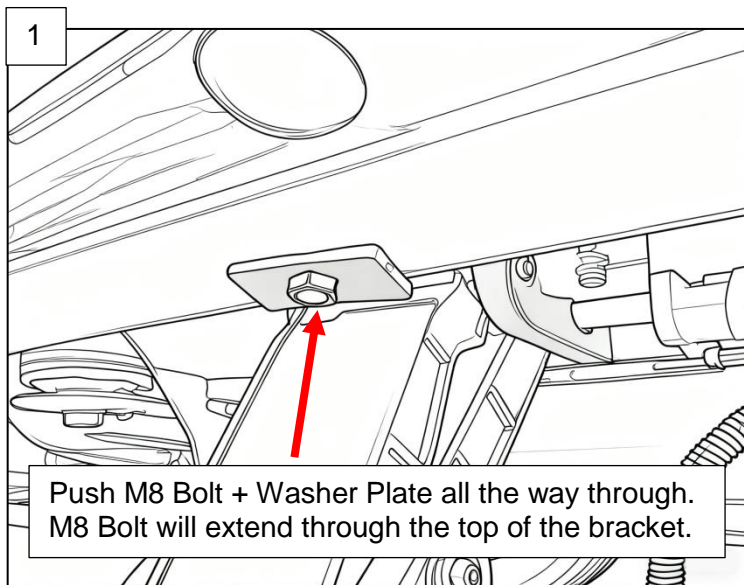


Next, place the Driver Side/Left Front Bracket Assembly (A) onto rocker panel and line up the mounting points. Place the Front Bracket Assembly (A) onto the threads of the bolt plate and be careful to not push the bolt plate into the rocker panel.

Thread the M8 Hex Nut + M8 Lock Washer + M8 Flat Washer (24mm diameter) (P) onto the threads of the bolt plate. Tighten the mounting hardware until snug. Adjust the bracket assembly as needed for the next step.



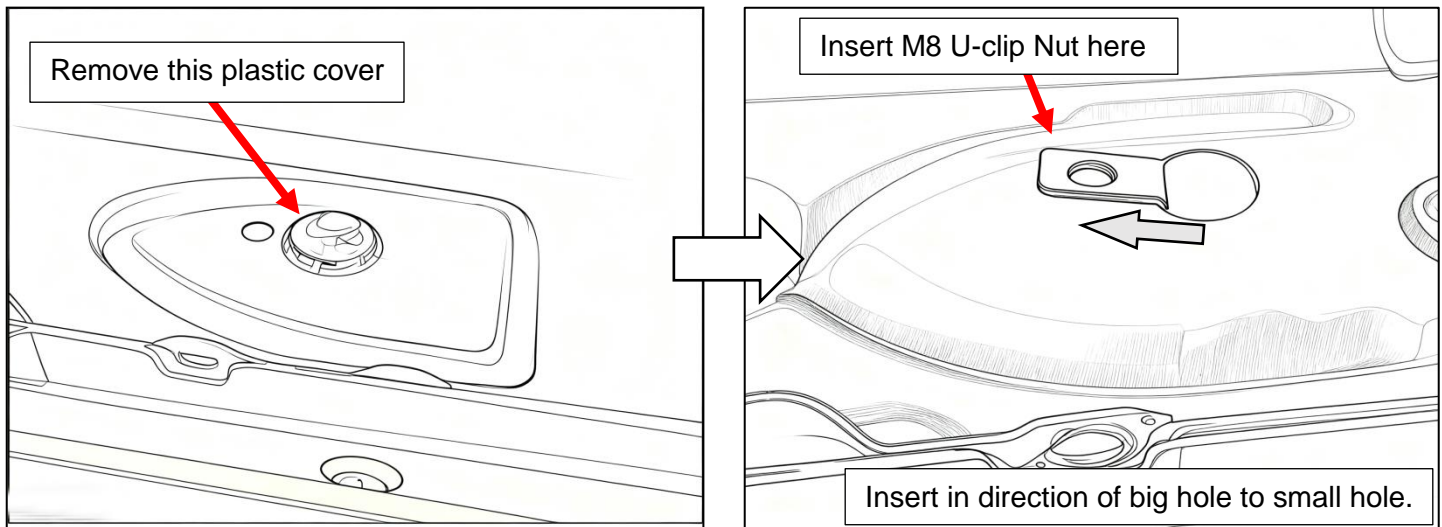
Push the hex bolt all the way through the hole in the pinch weld, spacer block, and bracket. Then take an M8 Flanged Nylon Lock Nut (I) and fasten it threads of the hex bolt from the top of the bracket assembly. Tighten until snug and adjust the bracket assembly as needed.



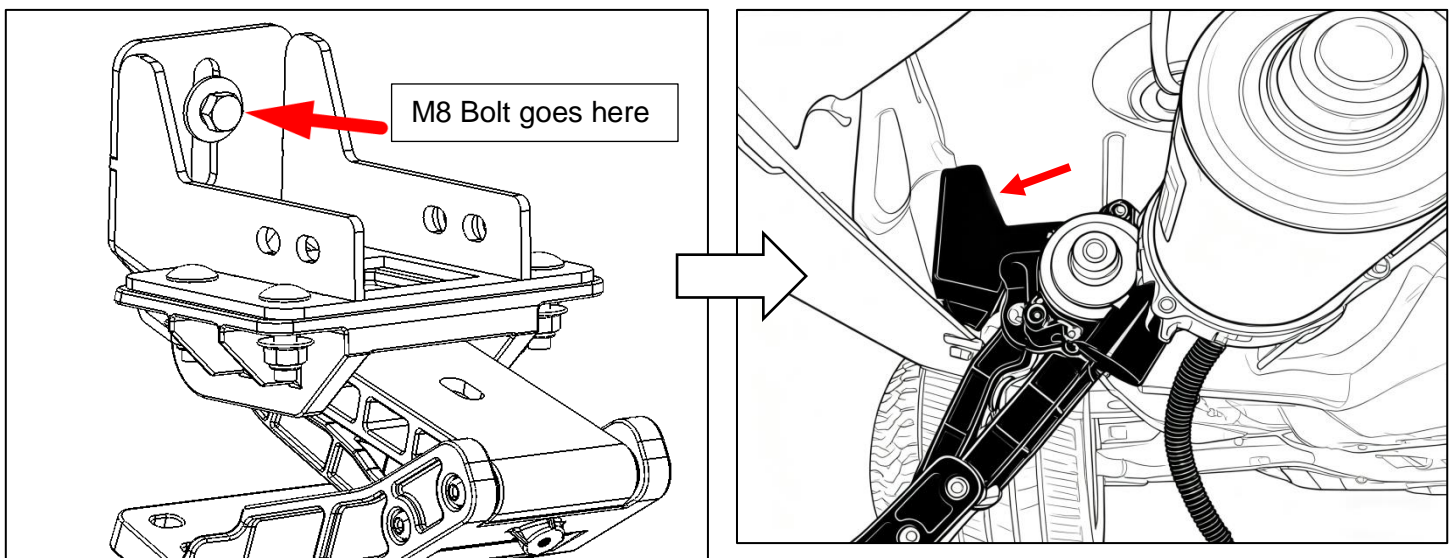
Once the Driver-side Front Bracket Assembly (A) is mounted and secure, move on to step 4.

Locate the front mounting points. Check and see if your rocker panel's structural integrity is in good enough condition to continue. If the rocker panel is flaking apart and rust holes are visible in the vehicle body, it is recommended to perform an inspection on the condition of the metal around the mounting areas before continuing. If the rocker panel is in good condition, proceed.

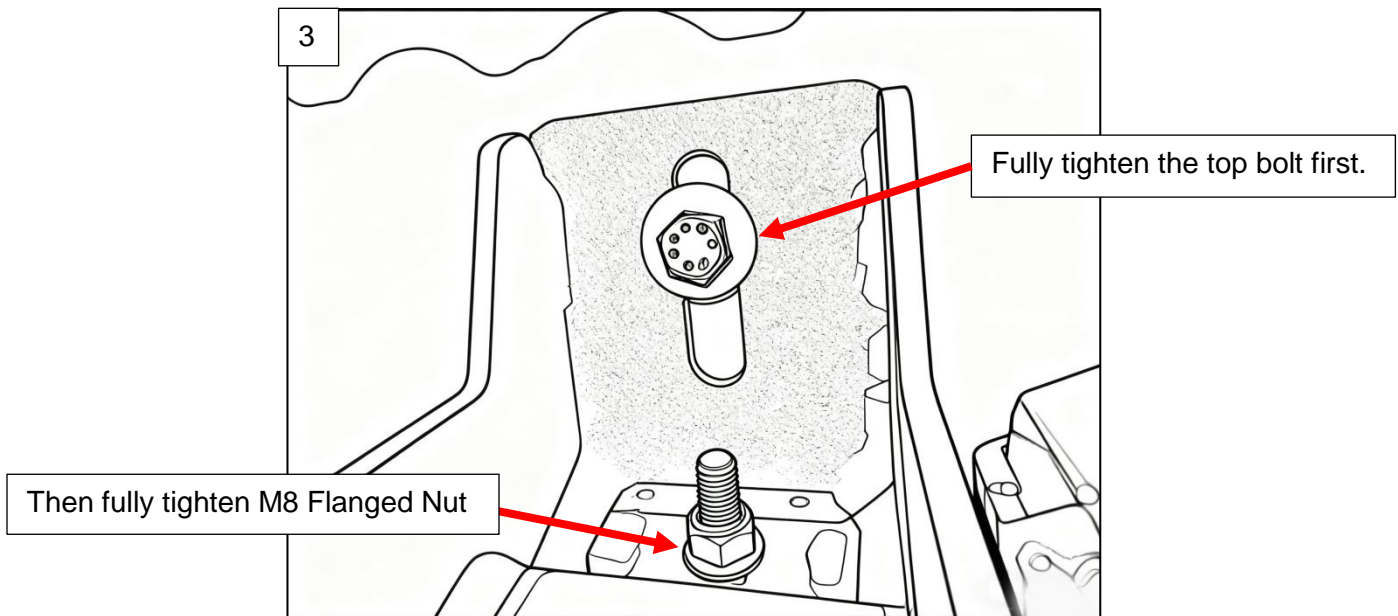
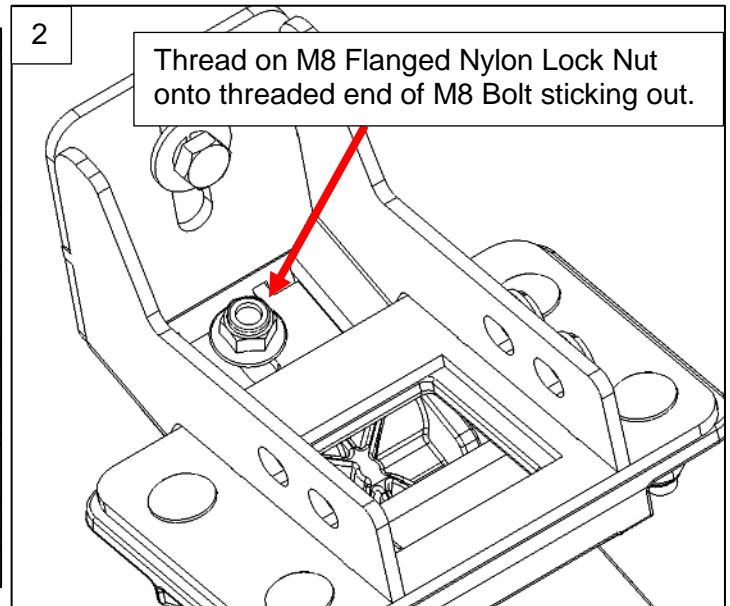
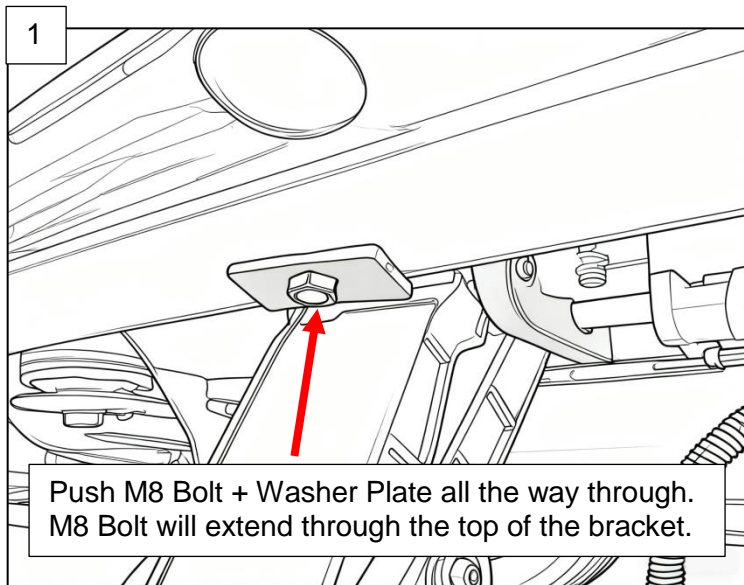
Remove any old hardware such as U-clip nuts from the mounting holes. Remove the circular plastic cover next to the upper rocker panel hole using a thin pry tool. Then insert an M8 U-clip Nut (Z2) into the upper hole as shown.



Next, place the Driver Side/Left Front Bracket Assembly (A) onto rocker panel and line up the mounting points. Thread the M8 Hex Bolt (30mm length) + M8 Lock Washer + M8 Flat Washer (24mm diameter) into the M8 U-clip Nut (Z2). Tighten the mounting hardware until snug. Adjust the bracket assembly as needed for the next step.



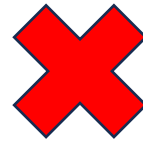
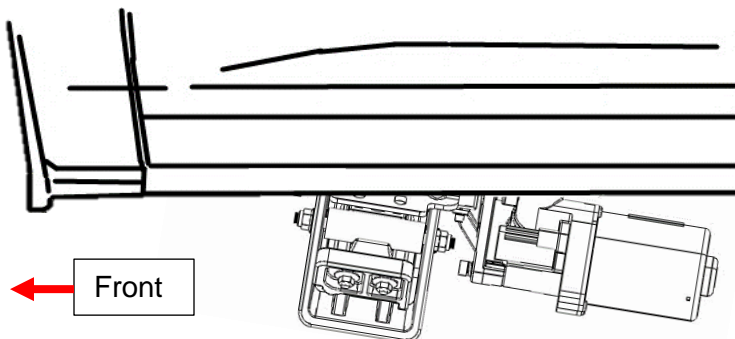
Push the hex bolt all the way through the hole in the pinch weld, spacer block, and bracket. Then take an M8 Flanged Nylon Lock Nut (I) and fasten it threads of the hex bolt from the top of the bracket assembly. Tighten until snug and adjust the bracket assembly as needed.



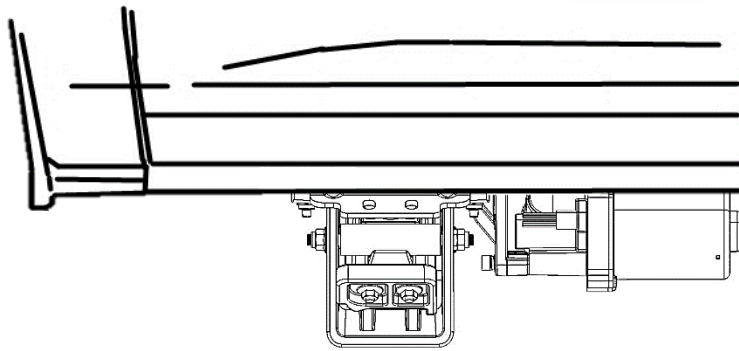
It is normal for the washer plate to bend slightly as the long M8 bolt is being tightened.

Once the Driver-side Front Bracket Assembly (A) is mounted and secure, move on to step 4.

Look at the bracket assembly and determine if the bracket is mounted crooked. Adjust the bracket assembly so that the horizontal lines of the linkage arm are parallel to vehicle body. Once the bracket assembly is aligned correctly, fully tighten the mounting hardware.



Bad Alignment
to vehicle body.

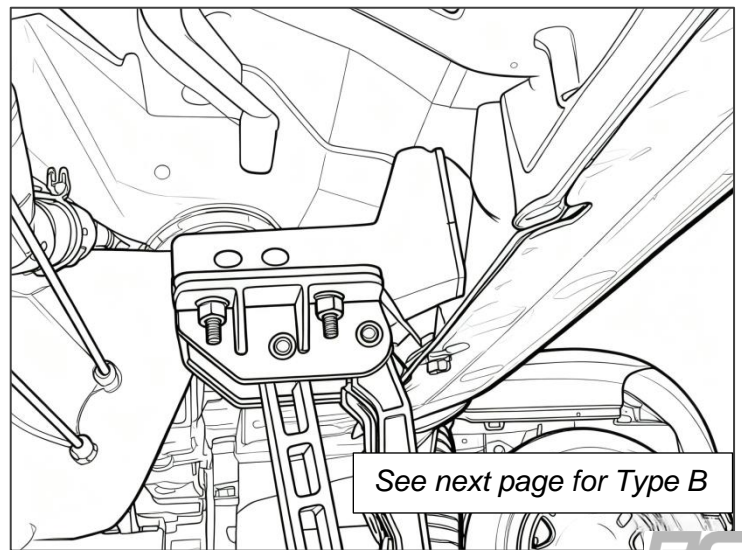
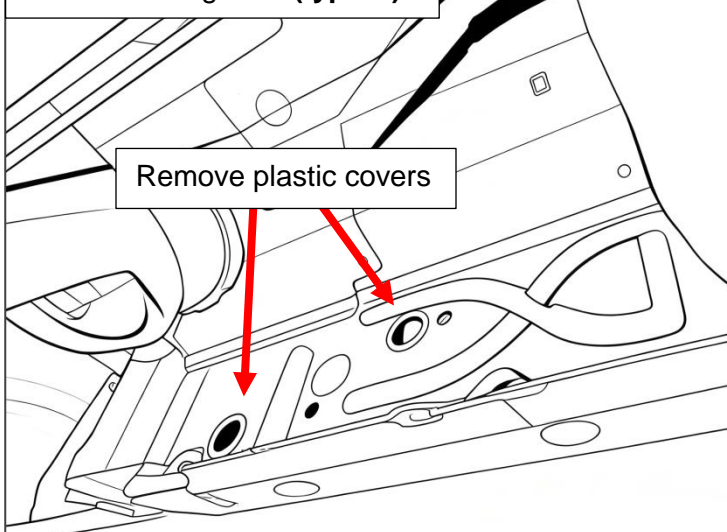


Good Alignment
to vehicle body.

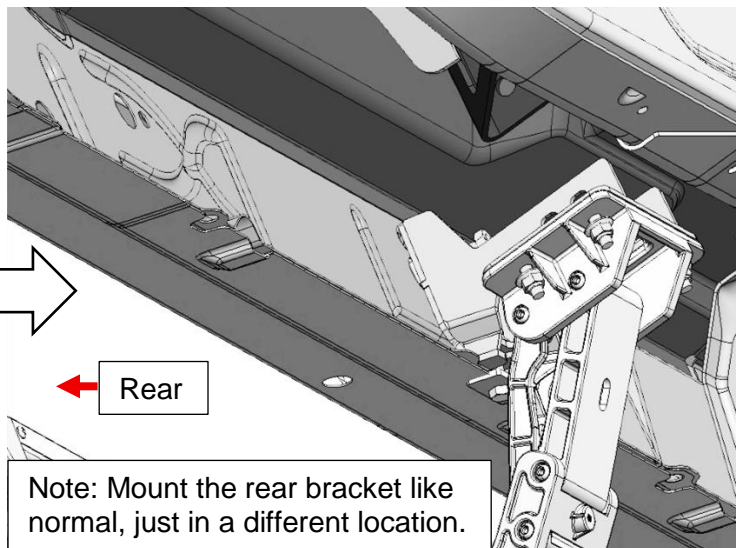
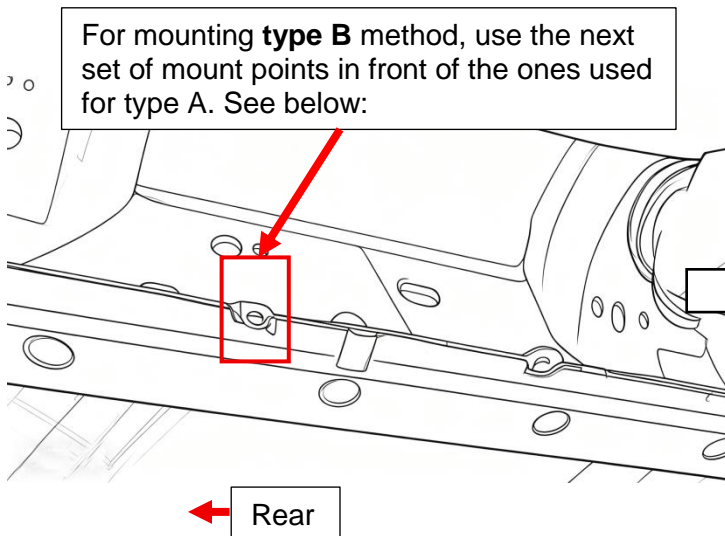
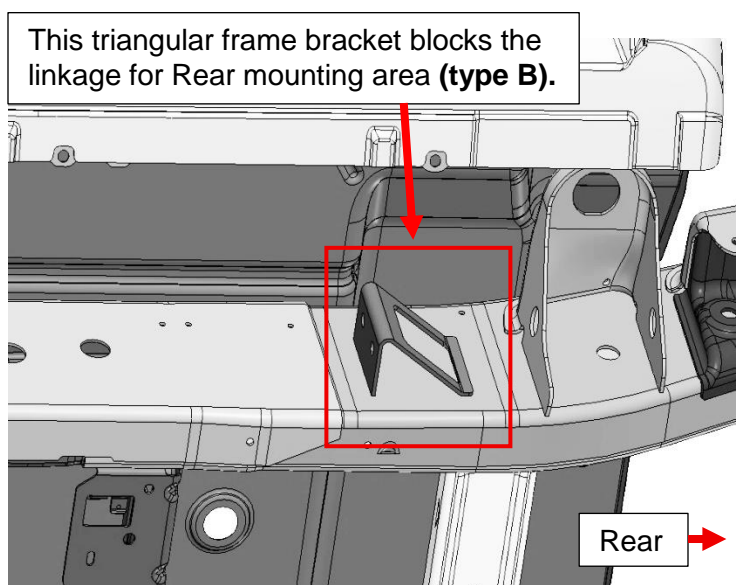
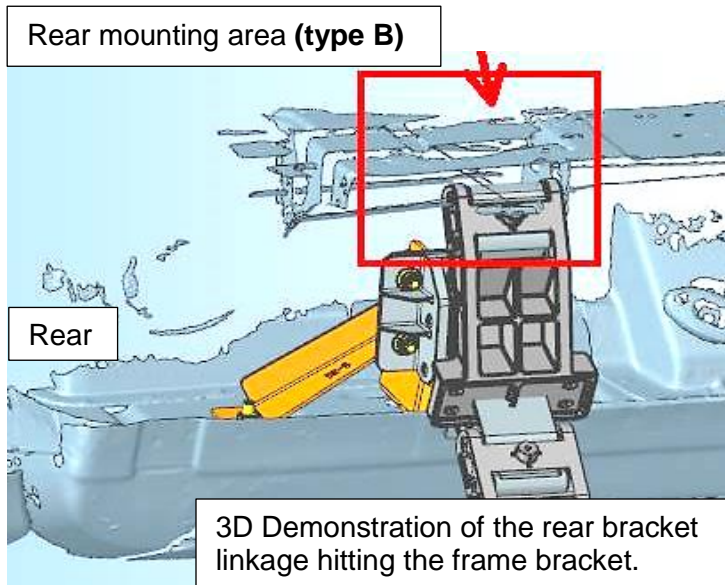
Locate rear mounting points. Repeat the procedure of step 3-4. Identify the style of mounting points the rocker panel matches and proceed with mounting the Rear Bracket Assembly (B).

On older vehicles, there may be a triangular frame bracket on the Driver Side that sticks out. In this case, refer to “**Rear mounting area (type B)**” instead of type A. See the images below for reference:

Rear mounting area (type A)



See next page for Type B



6

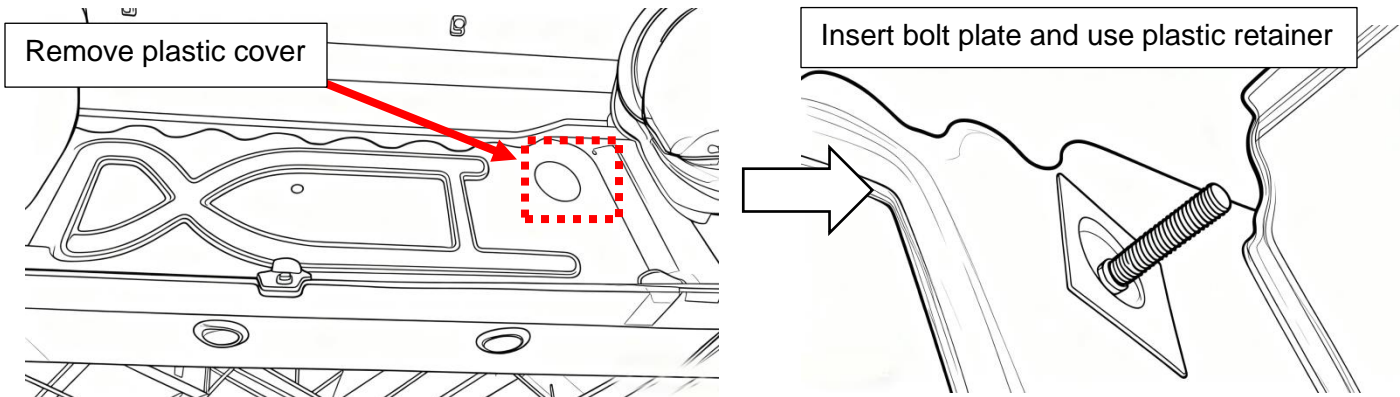
On rare occasions for some vehicles, the brake line or OE harness may touch the back of the bracket assemblies. For these instances, apply adhesive foam to the rear of the arms in the places that may touch the brake line to prevent scratching of the arm.

7

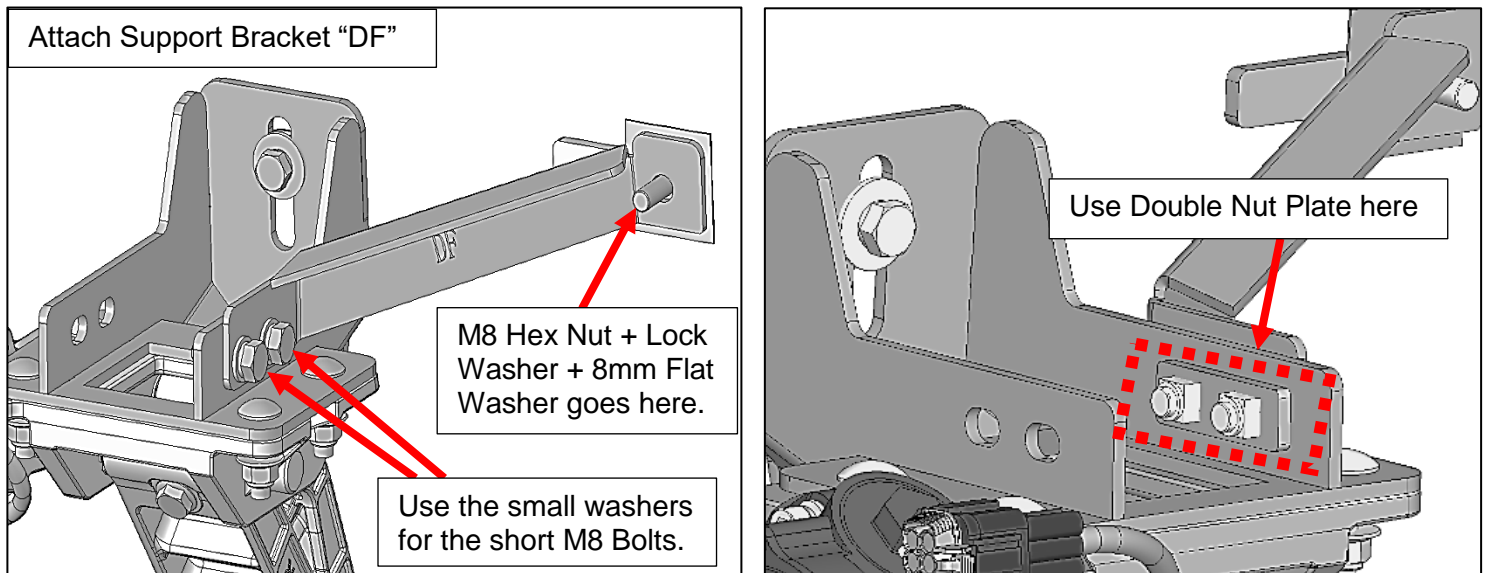
Repeat steps 3 through 6 for the Passenger Side. **On Passenger Side, use rear mounting method for "Rear mounting area type A".**

Proceed to Step 8 to install the support brackets.

Locate the secondary hole in front of the Front Bracket Assembly and remove the plastic plug covering the hole. Then insert the M8 Bolt Plate (Y1) into the hole and place a plastic retainer on it to keep it in place.



Take the support bracket (X) labeled "DF" and attach it to the bolt plate. Thread onto the bolt plate the appropriate M8 Hex Nut + M8 Lock Washer + M8 Flat Washer (24mm OD) (P). Then use the Double Nut Plate (O) and 25mm M8 Hex Bolts (Q) + M8 Lock Washers + M8 Flat Washers (16mm OD) to connect the support bracket to the Front Driver-side Bracket Assembly (as shown below).

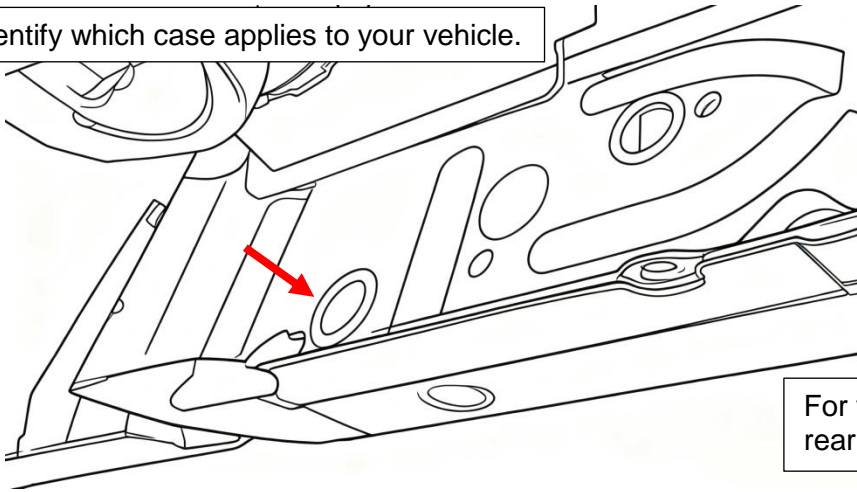


Locate the rear secondary hole behind the rear bracket. The support bracket will line up with this hole and the rear bracket assembly.

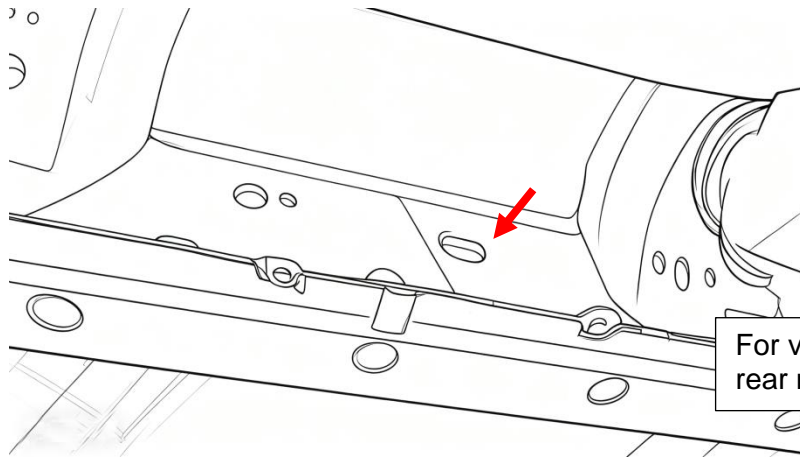
If the Driver Side rear bracket was mounted according to type B, locate the secondary hole in front of the bracket instead of behind.

In these cases, look for the large slot where the plates in the vertical rocker panel meet.
See below for your particular case:

Please identify which case applies to your vehicle.



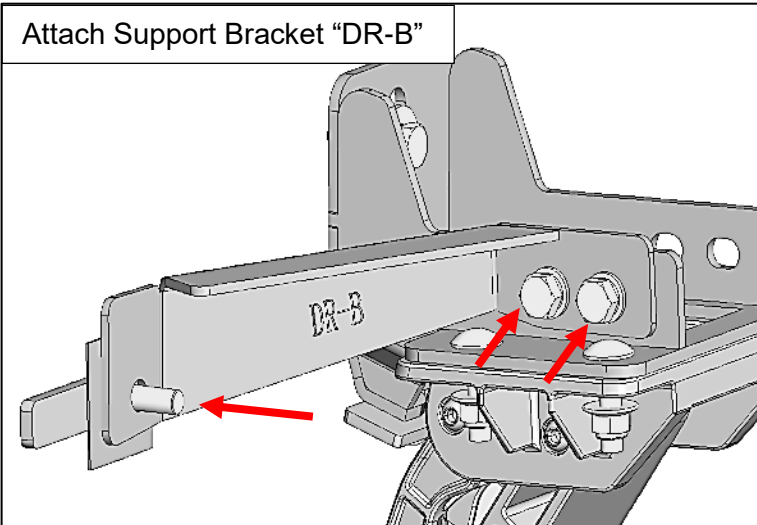
For vehicles that used
rear mounting area type A



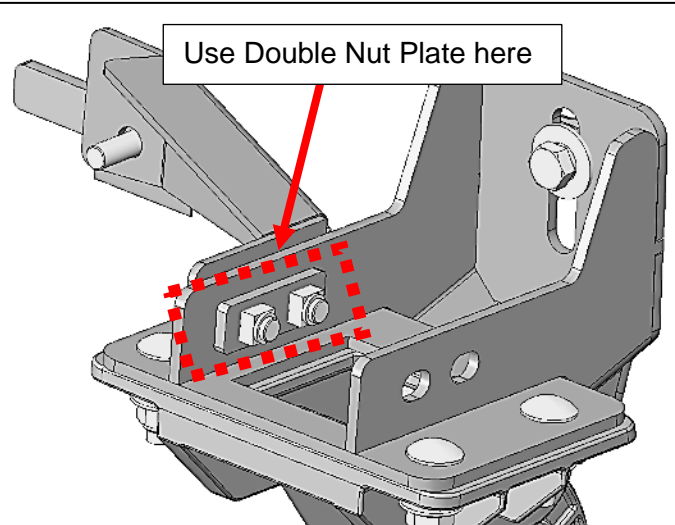
For vehicles that used
rear mounting area type B

For **“Rear mounting area type A”** models, take the support bracket labeled **“DR-B”** and attach it to the bolt plate. Thread onto the bolt plate the appropriate M8 Hex Nut + M8 Lock Washer + M8 Flat Washer (24mm diameter).

Attach Support Bracket “DR-B”

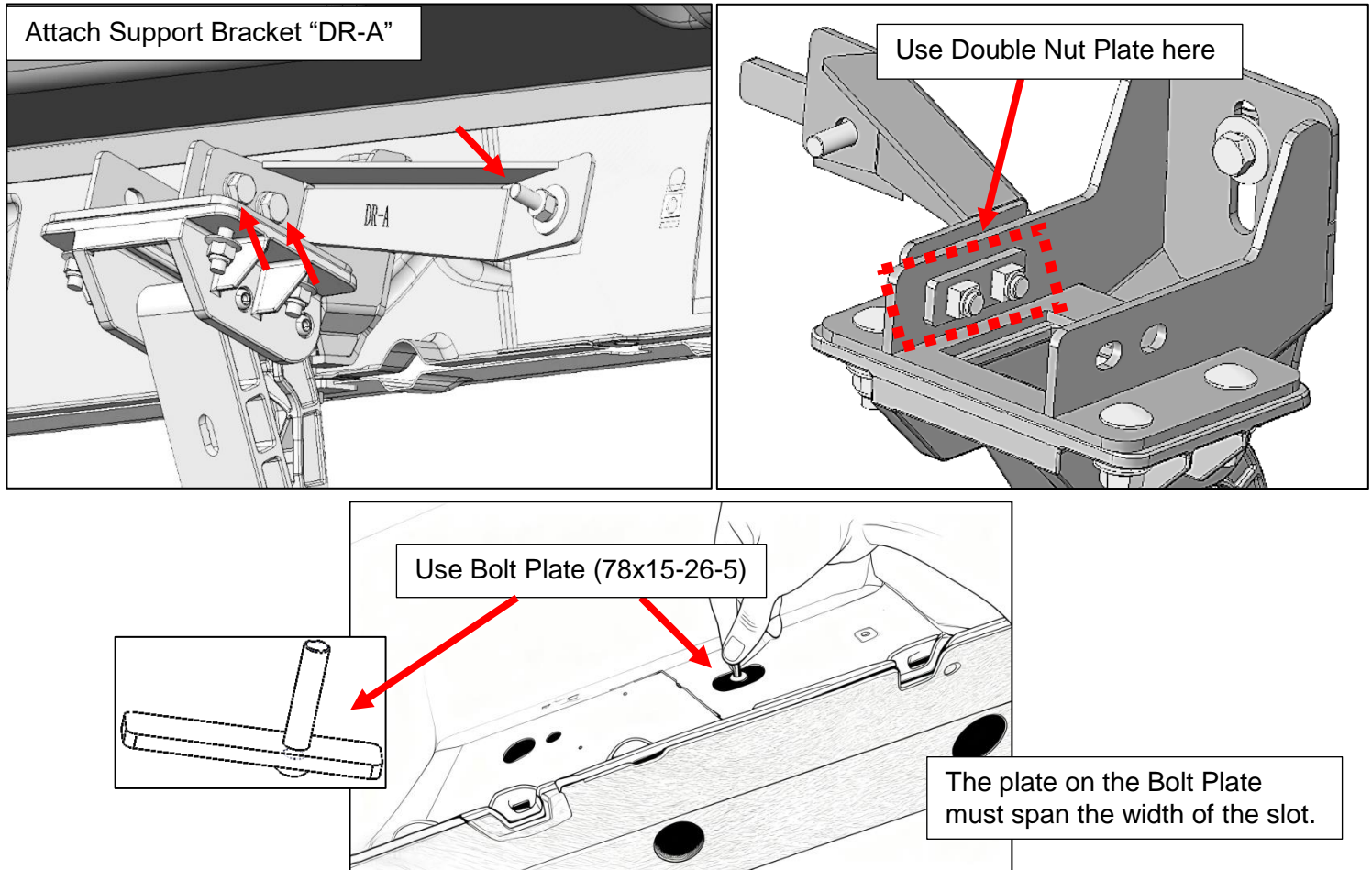


Use Double Nut Plate here



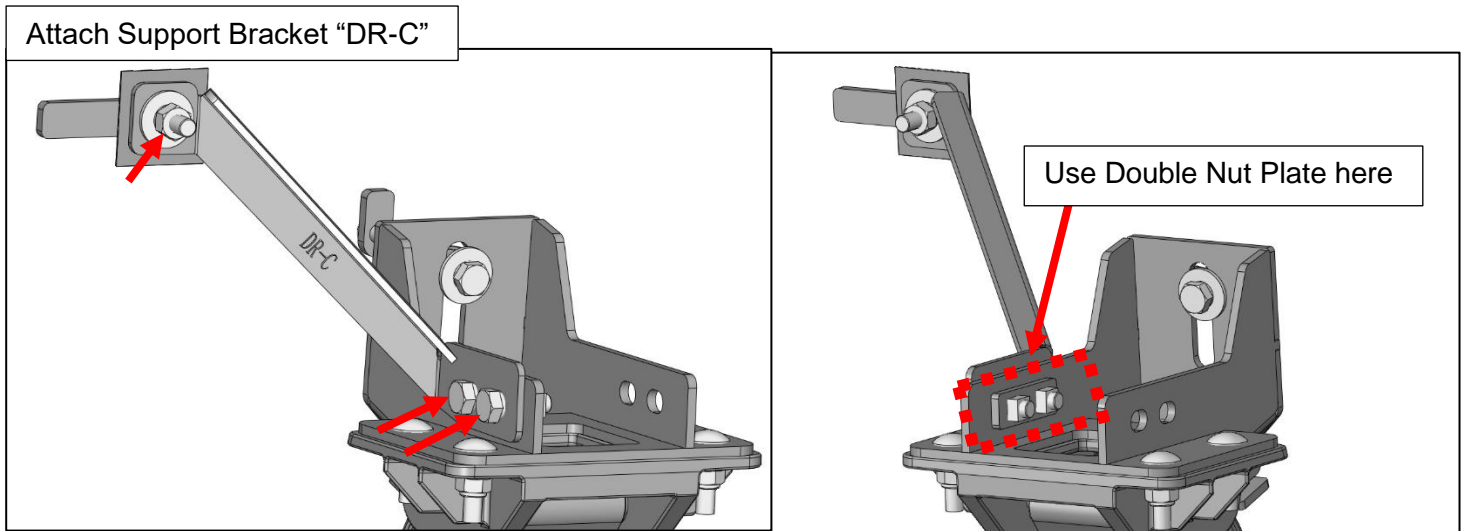
Then use the Double Nut Plate and short M8 Hex Bolts + M8 Lock Washers + M8 Flat Washers (16mm diameter) to connect the support bracket to the Rear Driver-side Bracket Assembly (as shown above).

For “**Rear mounting area type B**” models, take the support bracket labeled “DR-A” and attach it to the bolt plate. Thread onto the bolt plate the appropriate M8 Hex Nut + M8 Lock Washer + M8 Flat Washer (24mm diameter). Be sure to use the “Bolt Plate (Bolt Plate (78x15-26-5))”.



Then use the Double Nut Plate and short M8 Hex Bolts + M8 Lock Washers + M8 Flat Washers (16mm diameter) to connect the support bracket to the Rear Driver-side Bracket Assembly (as shown above).

For “**Rear mounting area type C**” models, take the support bracket labeled “DR-C” and attach it to the bolt plate. Thread onto the bolt plate the appropriate M8 Hex Nut + M8 Lock Washer + M8 Flat Washer (24mm diameter). Be sure to use the “Bolt Plate (Bolt Plate (78x15-26-5))”.



Then use the Double Nut Plate and short M8 Hex Bolts + M8 Lock Washers + M8 Flat Washers (16mm diameter) to connect the support bracket to the Rear Driver-side Bracket Assembly (as shown above).

10

Once the support brackets for the Driver-Side are mounted, repeat steps 8 and 9 for the Passenger-Side.

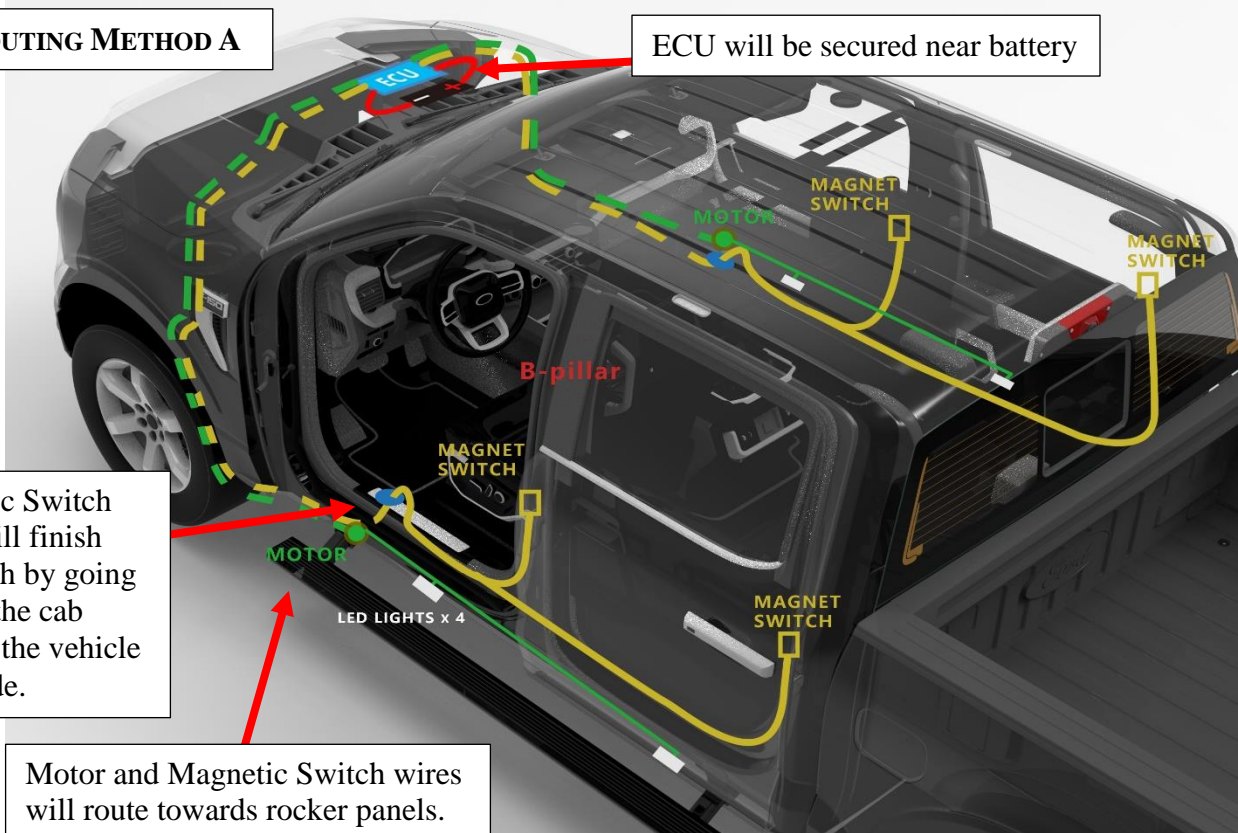
Use electrical Routing Method A (this page) or B (next page), whichever is more applicable to your vehicle. The legs of the Main Harness labeled "Passenger Side" will route towards the Passenger Side of the vehicle, and the legs labeled "Driver Side" will route towards the Driver Side.

ROUTING METHOD A

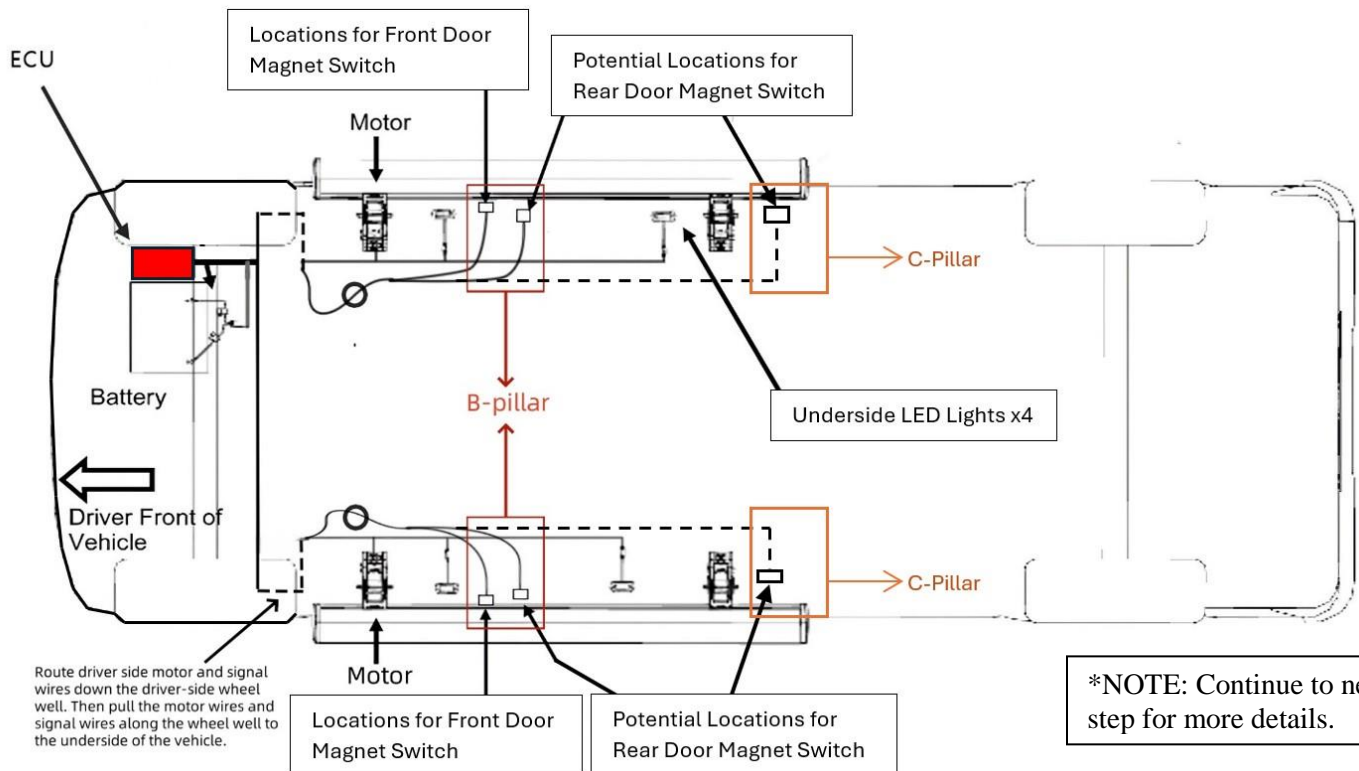
ECU will be secured near battery

Magnetic Switch wires will finish their path by going up into the cab through the vehicle underside.

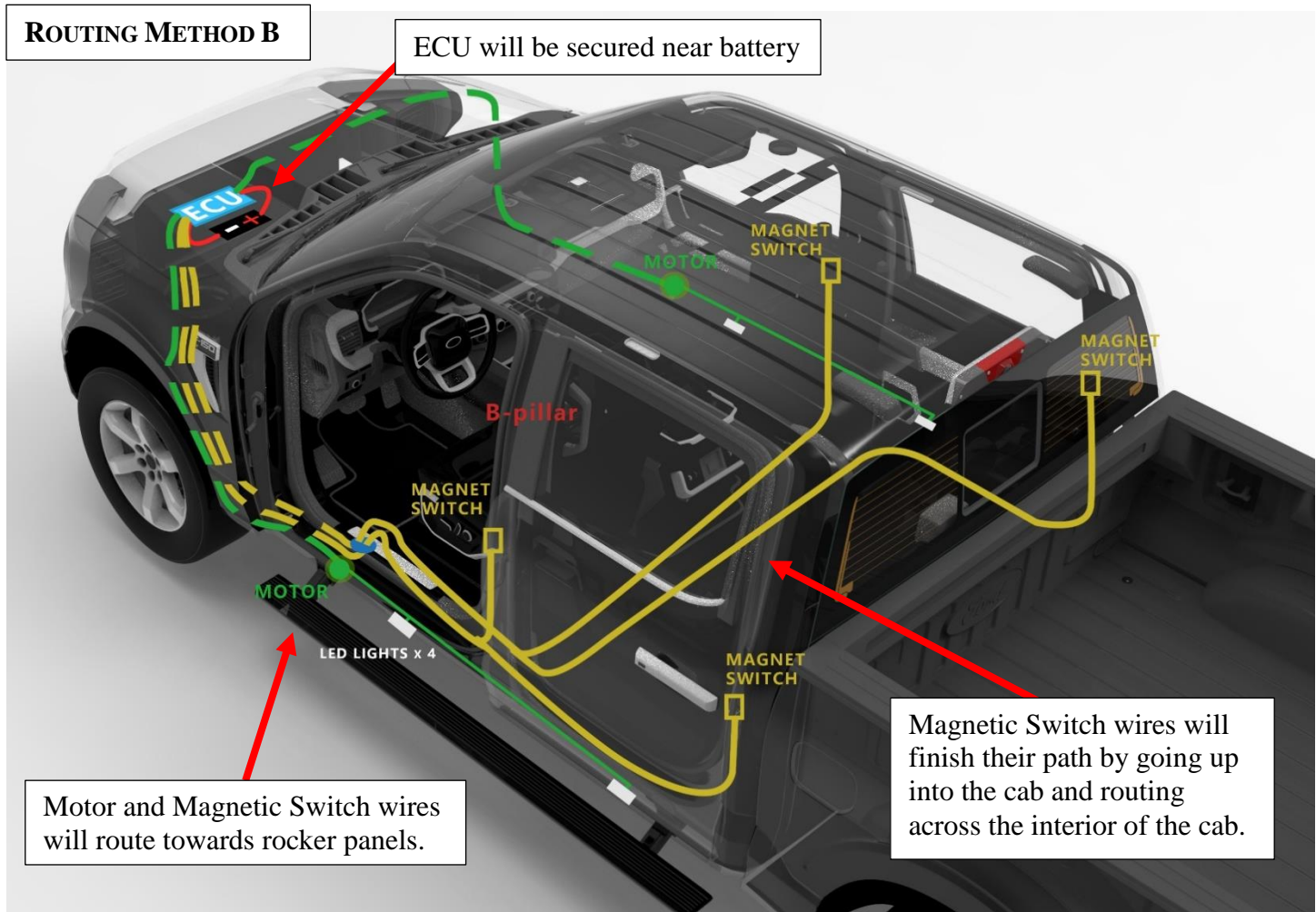
Motor and Magnetic Switch wires will route towards rocker panels.



The main idea is to route the wires from the battery to the appropriate side, and from there, to route the signal wires for the magnetic switches up through the floor of the vehicle and into the cab. Use the general diagram below as reference while routing the wires:



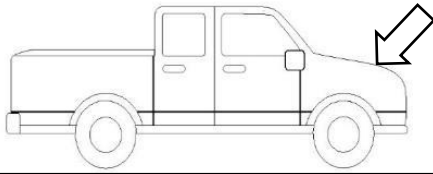
Electrical Routing Method B is the alternative in case the plastic or rubber plugs on the underside of the Driver Side of the vehicle body are not present or accessible on the Passenger Side, or vice versa. Please refer to the graphic below for the general routing paths the wires will take.



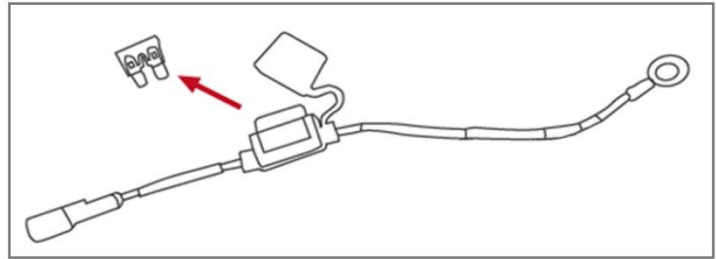
The general steps for Routing Method B are the same as Routing Method A, with the only difference being that the Passenger Side Magnetic Switch wires routing up into the cab via the same grommet/plug as the Driver Side Magnetic Switch wires.

Once the Passenger Side Magnetic Switch wires are routed into the cab, they need to be routed along the inside, across to the Passenger Side of the cab and up to the doors like pictured in the graphic above.

Start from the engine compartment by opening the front hood of the vehicle. Locate the Battery and its terminals (positive/negative). Remove the 25A fuse from the fuse box that comes with the main harness (M).

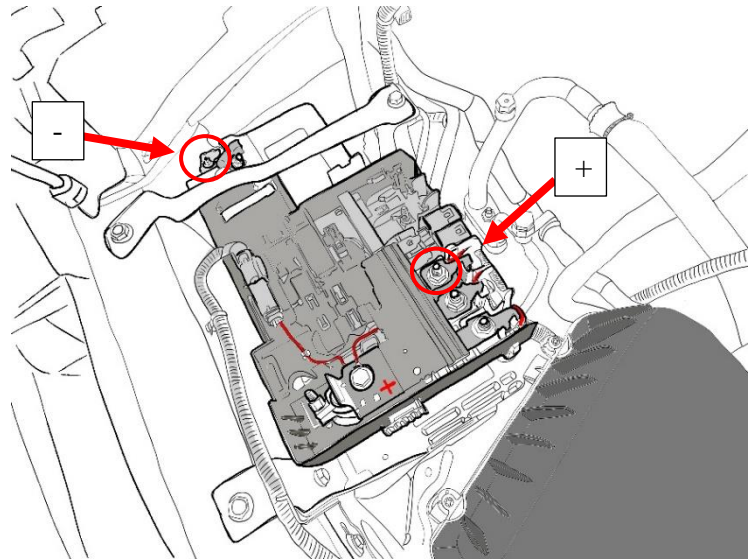


***WARNING:** Keeping the fuse connected to the fuse box may result in electrical sparks and risk of shorting when working with the battery.

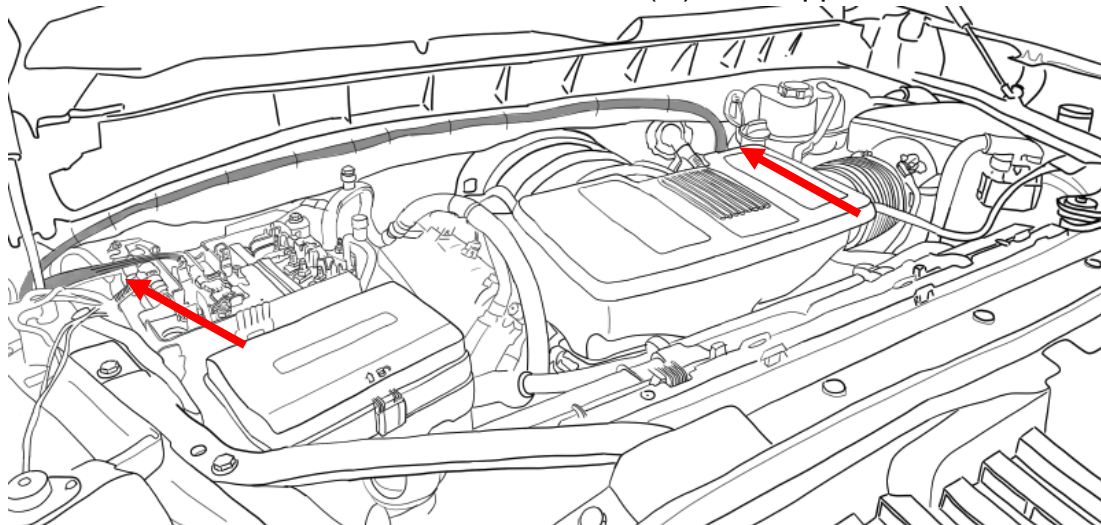


Open fuse holder cap and remove fuse

Connect the positive power lead on the main harness (M) to the positive battery terminal. Connect the negative lead to the negative battery terminal. Make sure both power leads are fully secured. Connect the ECU (P) to the main harness. Connect the Long LED Y-Harness (N1) To the Driver-side branch of the main harness. Connect the Short LED Y-Harness (N2) to the Passenger-side branch of the main harness.

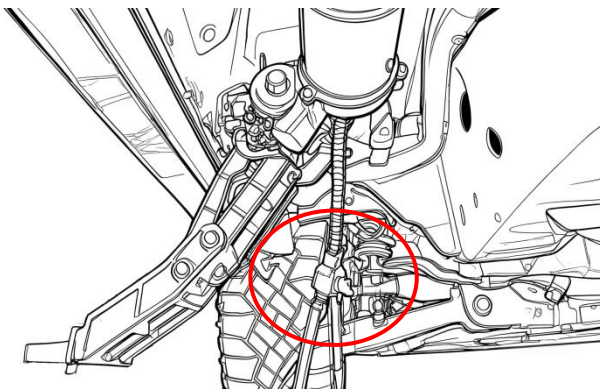


Route the main harness (M) around the battery, up along the rear of the engine compartment, and down the Driver-side wheel well. Route the shorter leg of the harness down the Passenger-side wheel well. **Be sure to avoid contact with any moving or hot engine components.** Attach and secure the main harness (M) with supplied cable ties.

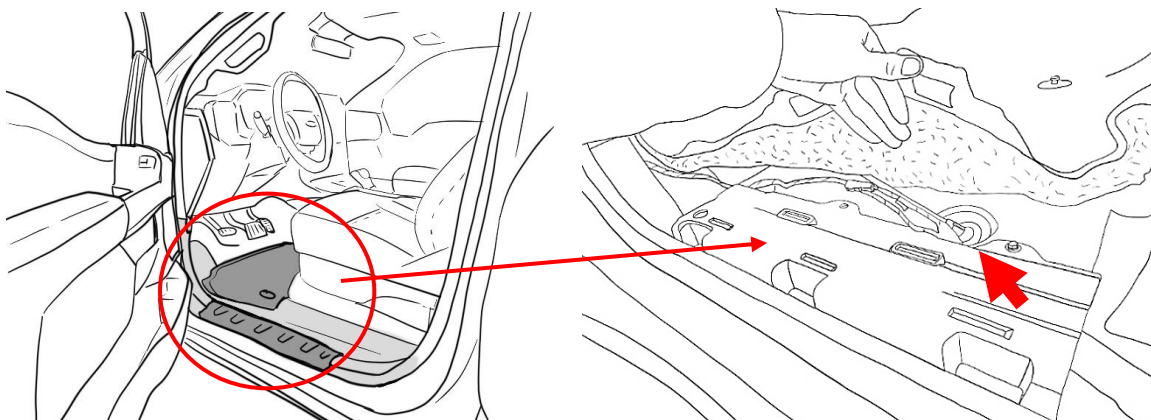


Attach the main harness (M) to the LED Y-Harness (N). Then attach the LED Y-Harness (N) to the motor on the Driver Side. Repeat for Passenger Side. The shorter LED Y-Harness should connect to the motor that is on the same side as the ECU.

Driver side

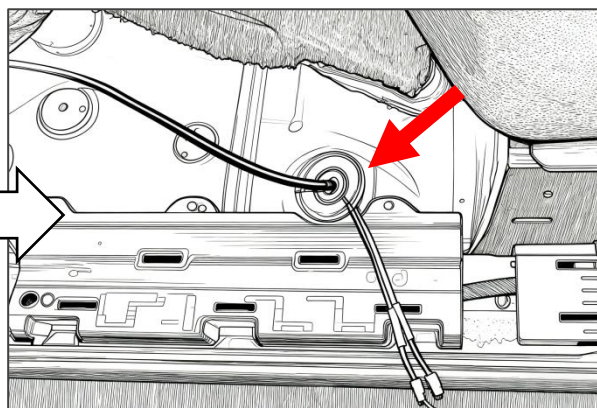
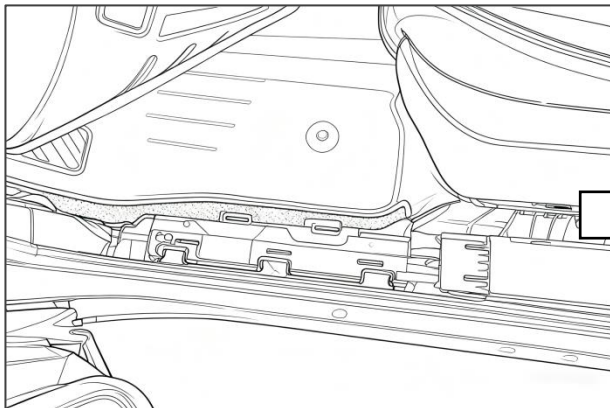


Inside the vehicle cabin, remove the driver-side front kick panel and bottom door sill plate. Peel back the carpet to access the hole where the grommet was removed. Feed the wires through.



On the underside of the driver side, locate and remove the floor grommet in the floor panel behind the front wheel well. The grommet will be close to the front linkage arm. Poke a hole through the grommet and thread the two signal wires through and up into the vehicle cabin.

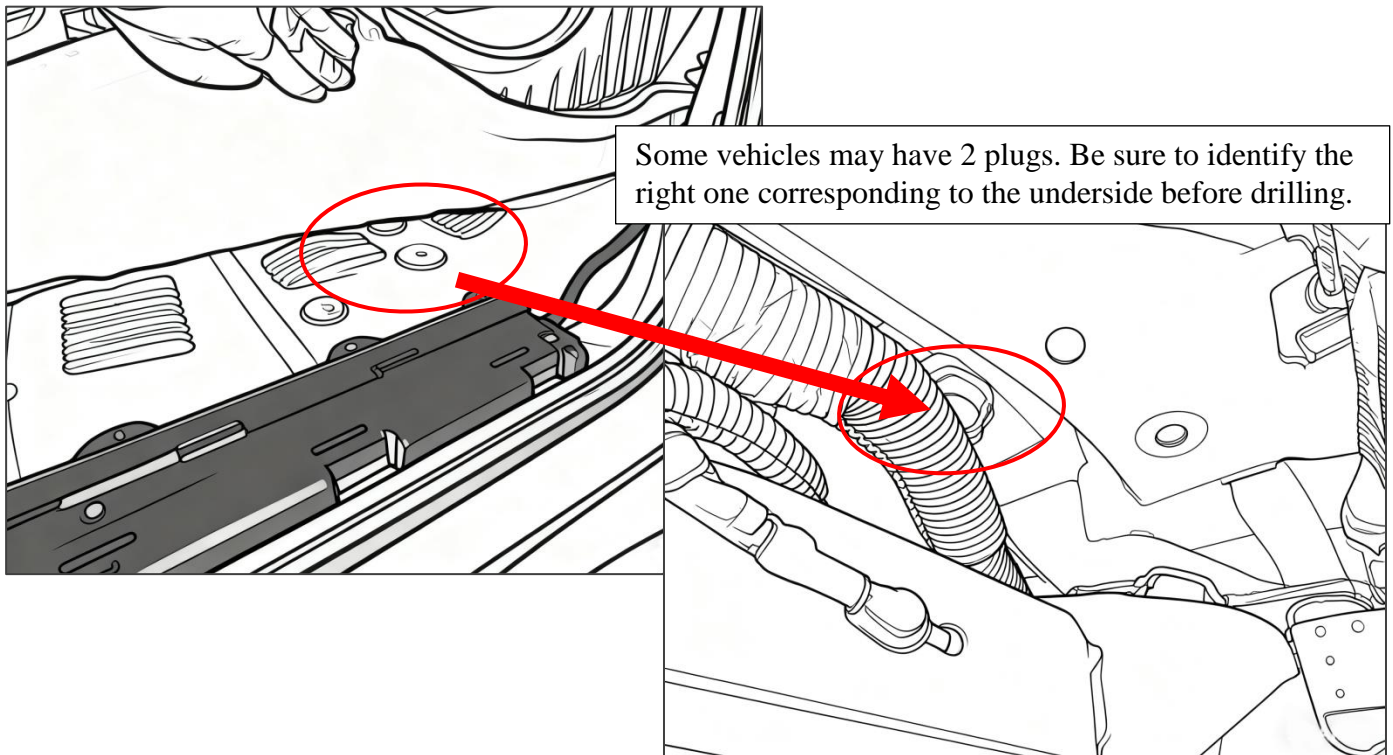
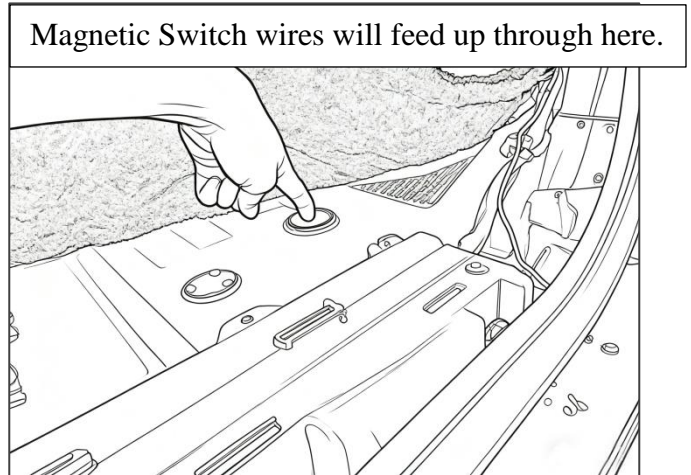
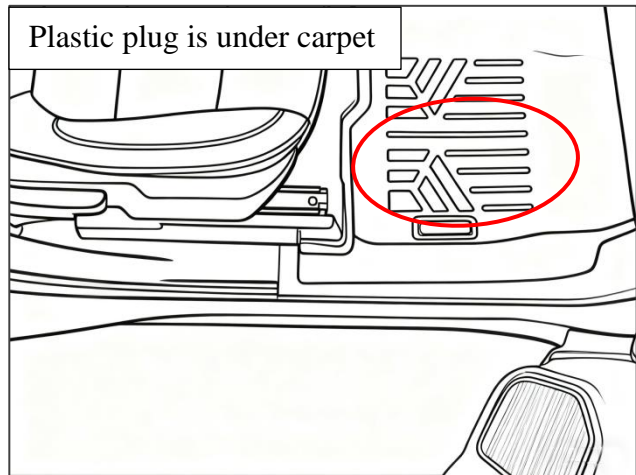
Pull the two signal wires through and determine which of them has longer length. The shorter length wire will be for the front door, and the longer length wire will be for the rear door.



If the vehicle does not have a rubber grommet on the Driver Side, find the appropriate plastic plug that can be drilled through for the wires to enter the cab.

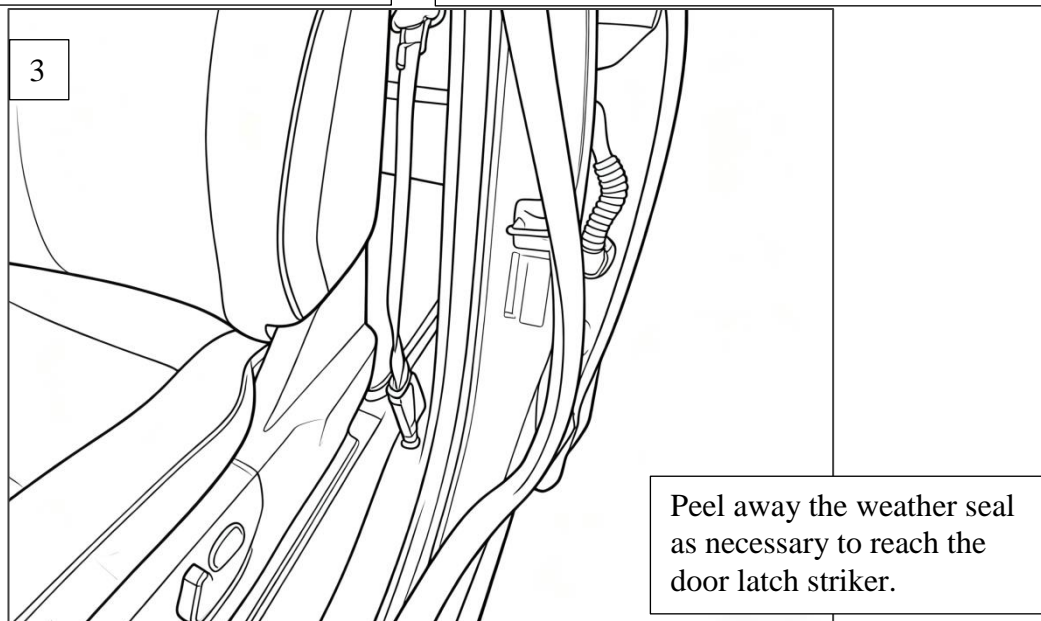
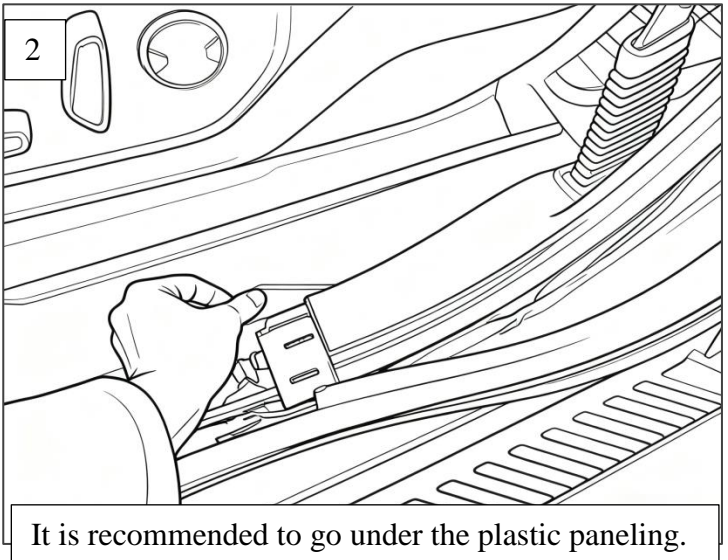
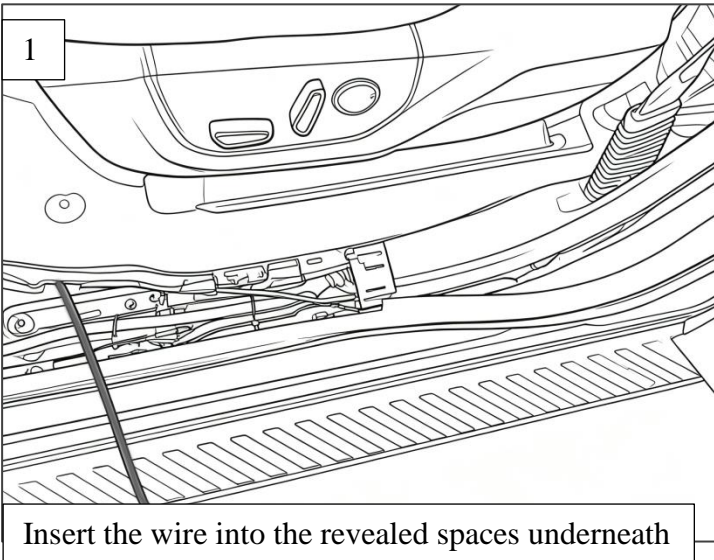
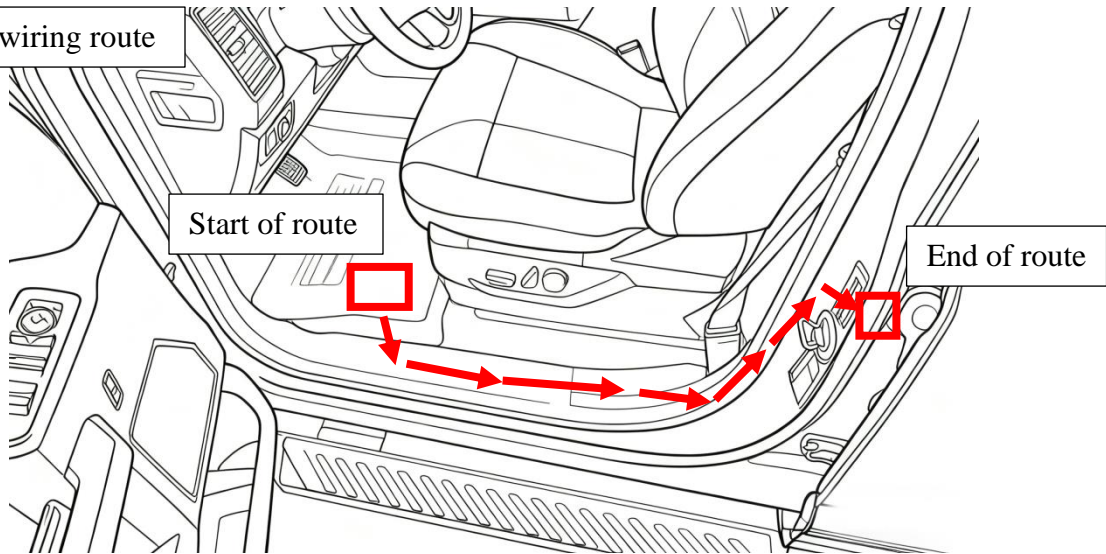
For routing the Passenger Side magnetic switch wires, poke a hole using a drill or punch through the plastic cap on the underside to feed the wires into the cabin.

First, remove the kick panel and door jamb plastic trim (same way as Driver Side). Then lift the carpet up to reveal the plastic plug (as seen below).

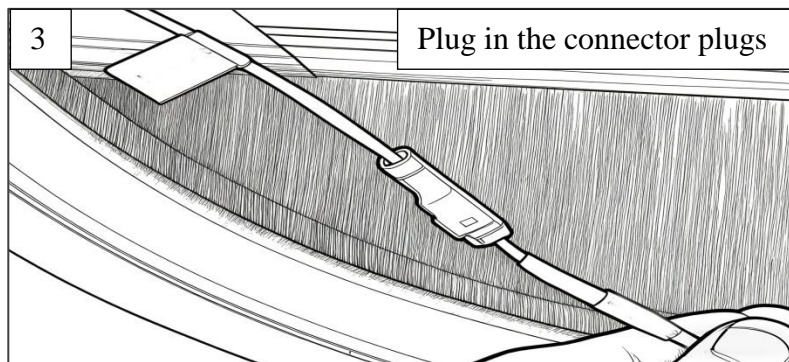
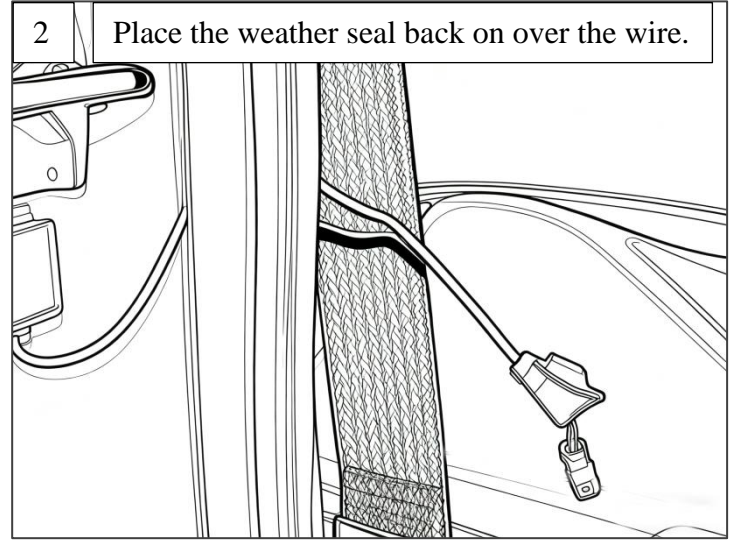
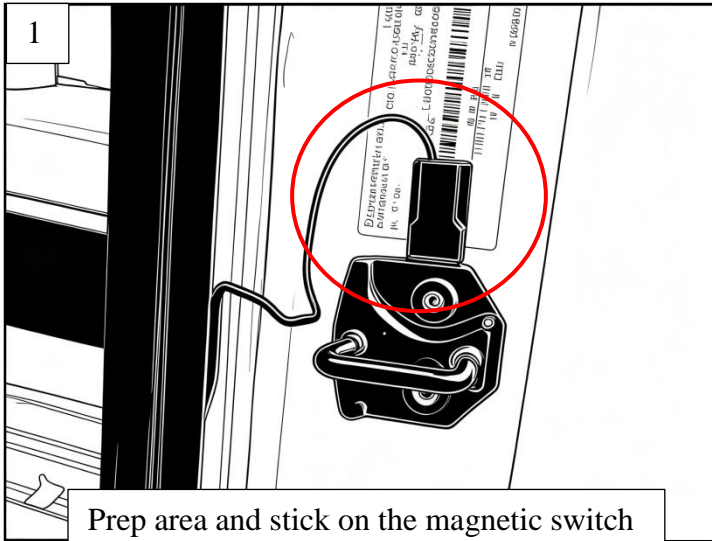


Starting on the front door, take the shorter signal wire and route it up through the underplating and weather seal of the panels up to where the door latch striker is.

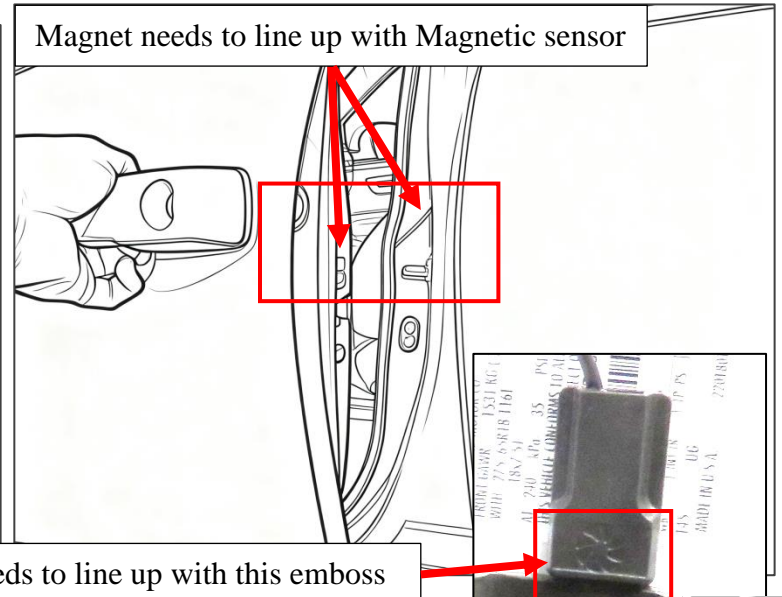
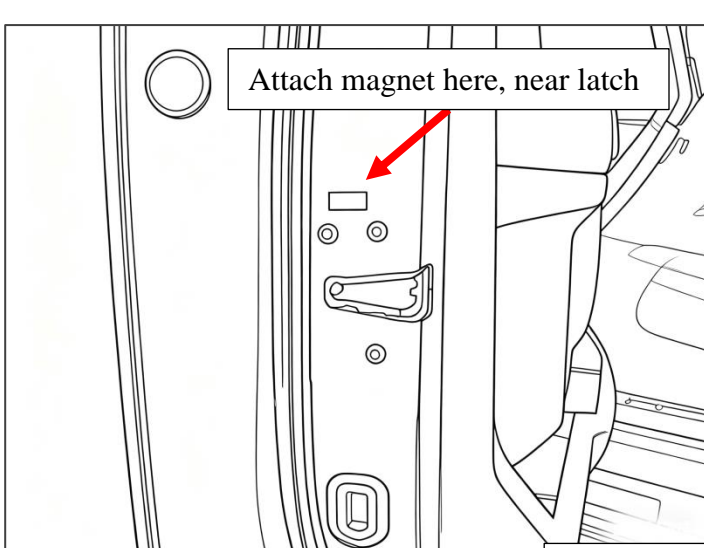
DS Front Door wiring route



After routing the signal wire near the striker, attach the magnetic switch to the B-pillar just above or below the striker. Be sure to clean the area using alcohol wipes and a clean cloth to ensure maximum adhesion to the surface. Then connect the signal wire plug to the magnetic switch plug.

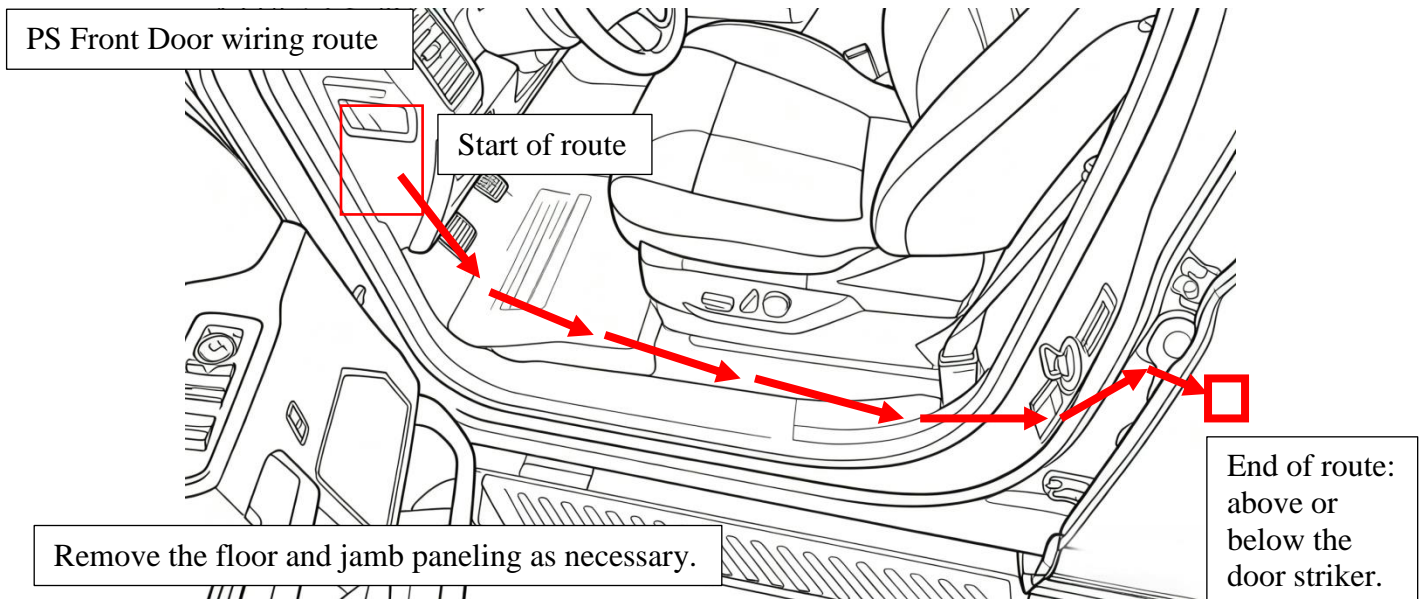


Then, take a magnet and place a provided 3M adhesive patch on one side. Take the newly prepped magnet and line it up with the magnetic switch on the door side. When closing the door, the magnet needs to align with the rectangular emboss of the magnetic switch to properly activate. Attach this magnet to the corresponding position.

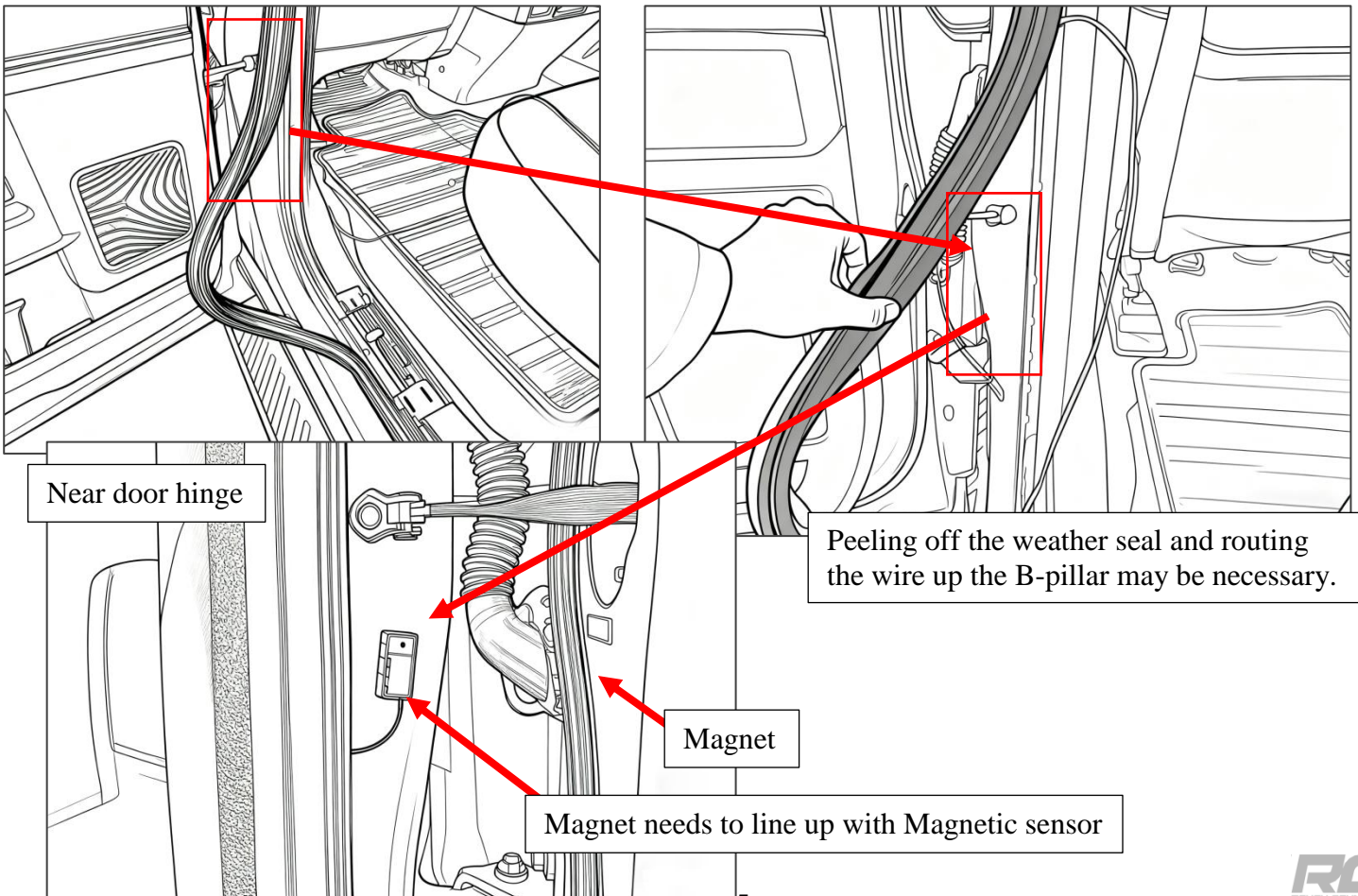


Next, do the same procedure to the Driver-Side rear door too.

Route the longer signal wire following this path. Be sure to give enough length and slack to the wire to reach the door striker while hiding the wiring under the plastic panels.

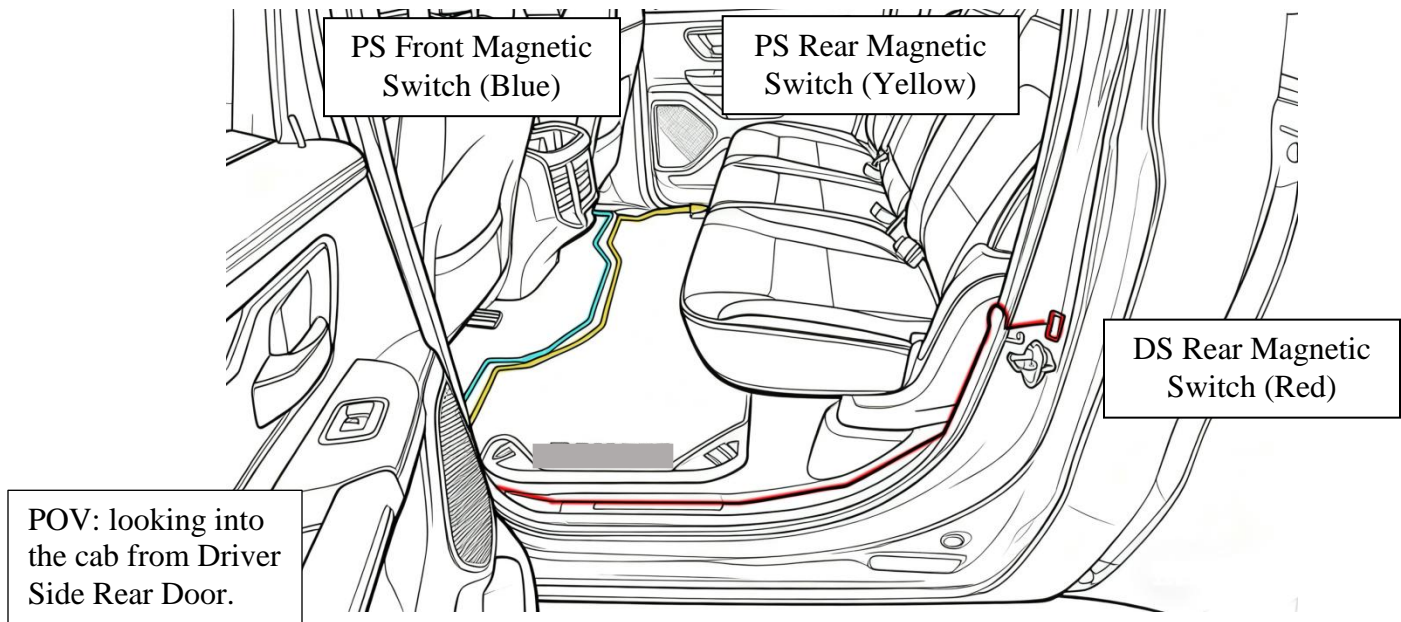


If the signal wire is not long enough for whatever reason, the alternative location for the magnetic switch is at the front of the rear door (near hinge) instead of the back. See pictures below for reference:

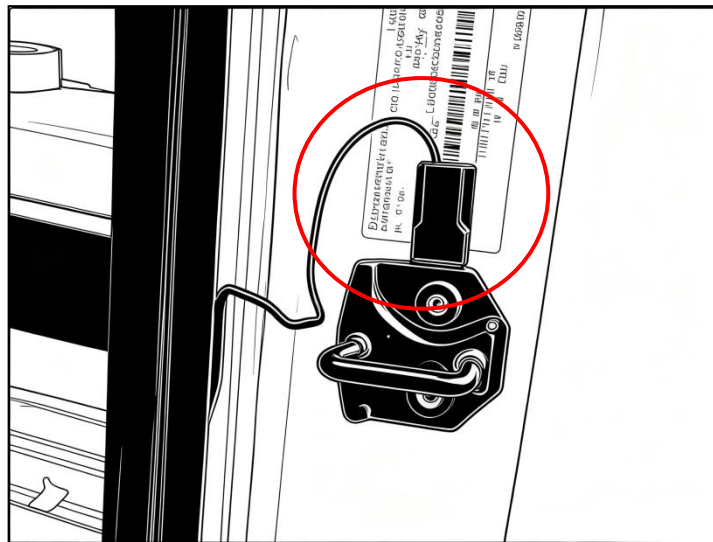


Follow Steps 9 to 10 for the Passenger-Side and complete the routing of the wires of the Passenger-Side magnetic switches. Refer to the diagrams in Step 6 (either Routing Method A or B) as a guide.

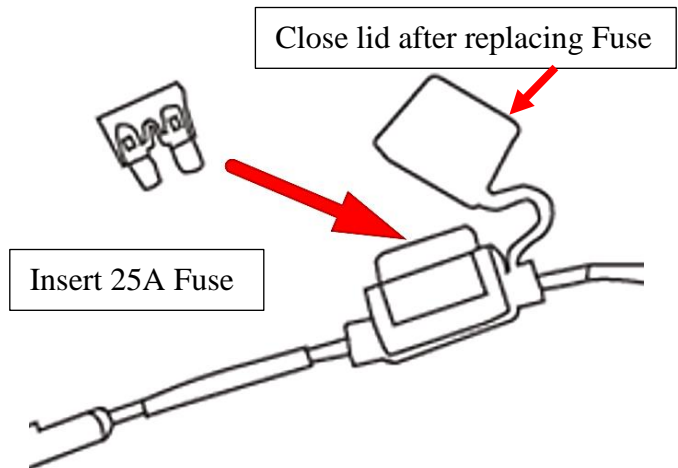
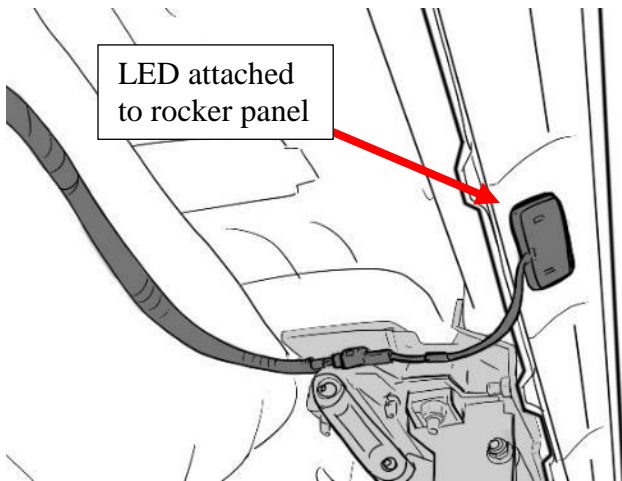
If Routing Method B is being used, after snaking the Passenger-Side magnetic switch wires into the cab through the Driver-Side underside plug, route the Passenger Side Magnetic Switch Wires across the interior over to the other side. The illustration below shows the general paths of the Magnetic Switch wires as colored lines.



Follow the rest of Steps 11-12 to complete Passenger-Side wiring for Magnetic Switches.

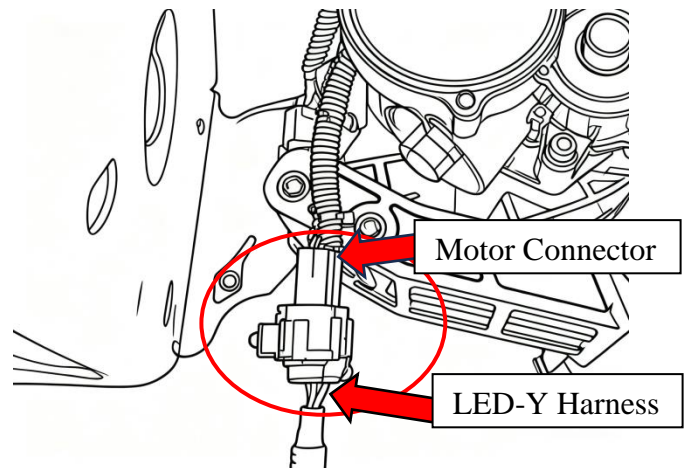


Plug in LED lights (Q) into LED Y-Harness (N) and attach them to the bottom of the rocker panel. Use provided 3M double sided adhesive tape on back of LED light (Q). Replace Fuse into Fuse Box.



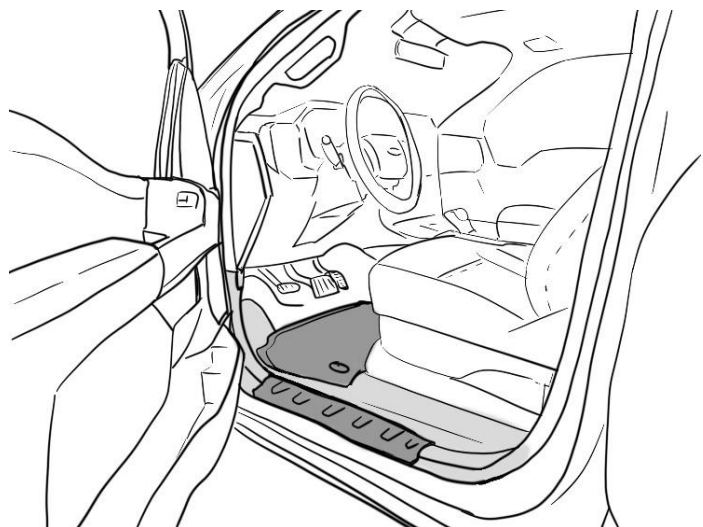
Check to make sure the harnesses on the Driver Side/Left Front Bracket Assembly (A) and Passenger Side Front Bracket Assembly (C) are connected to the main harness (M) via the LED-Y harnesses (N).

***NOTE:** The linkage arms on the front bracket assemblies will not move unless both motors are connected.

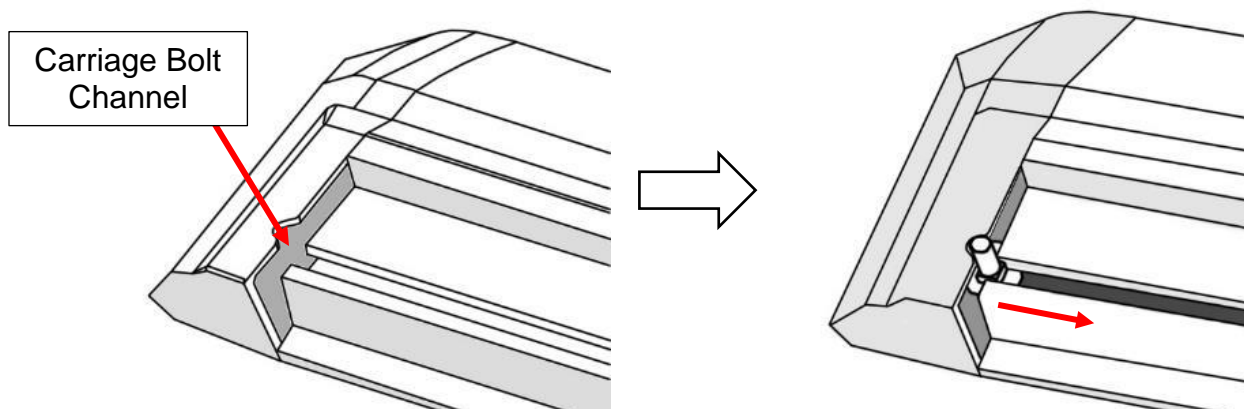


Seal the grommet with RTV Silicone Sealant.

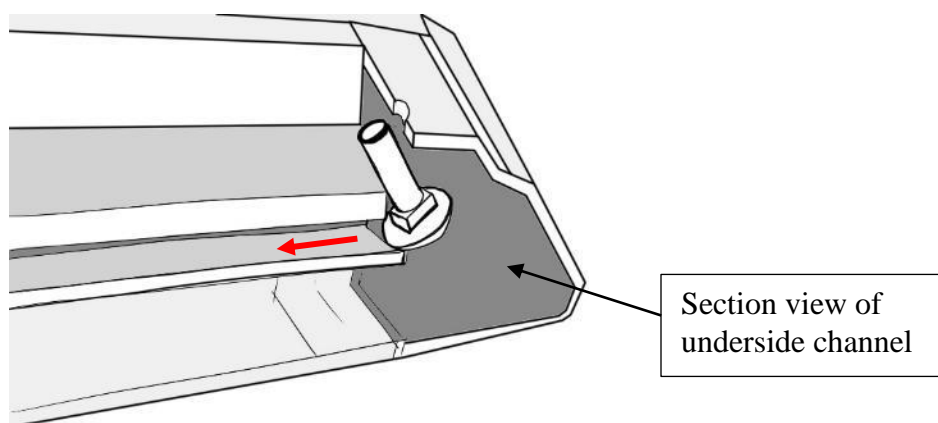
Hide wires and reattach the kick panel with the carpet fully unfurled in its original position. Reattach the door sill panel and check to make sure there are no obstructions or potential snag points around the brake pedal area.



Prepare the power step boards. Locate the end of the boards and slide the M6 Carriage Bolts (E) into the channel on the underside of the board. Insert a total of 4 carriage bolts (E).



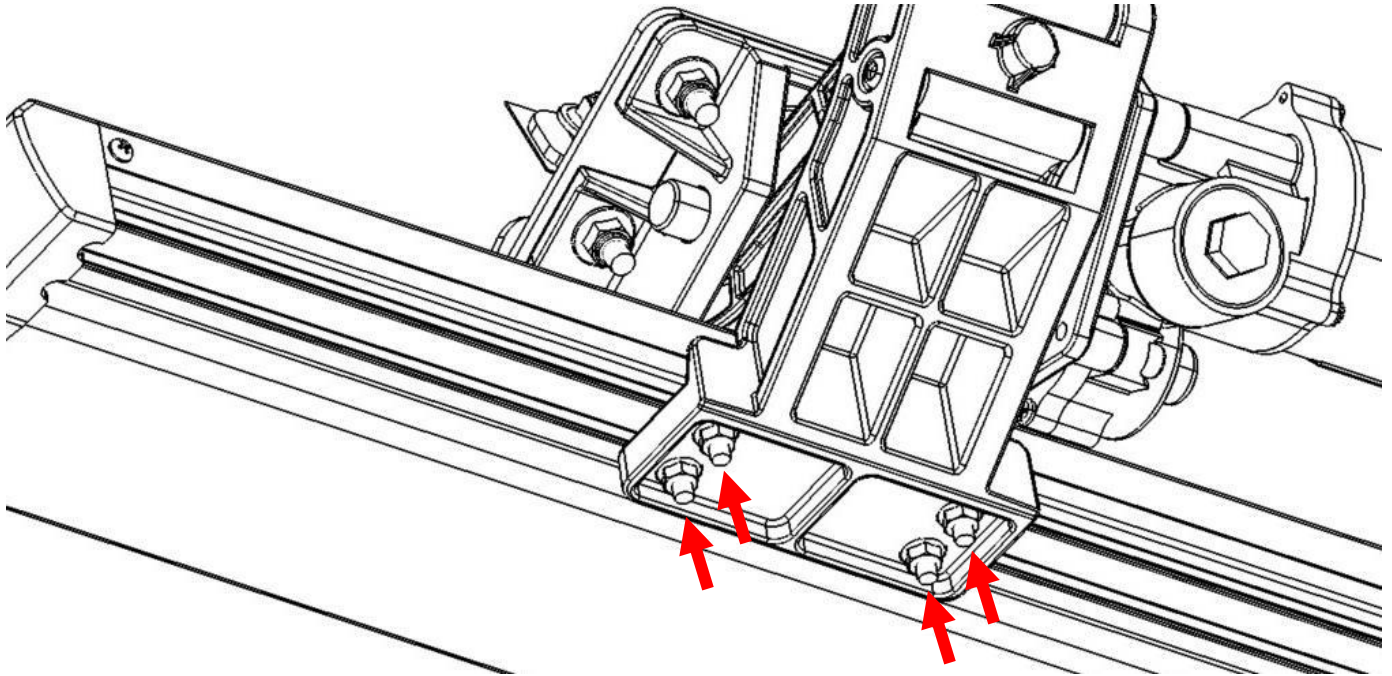
Use the notch in the board's end caps to feed the bolts into the channel.



Perform a function check by closing the driver side front door and opening it again. The front bracket assembly (A) motor should activate the linkage arm and move it into the down or "deployed" position.

After deploying linkage arms, unplug motor connector from the LED-Y harness (to cut power to the linkage arms) while front door is open to hold deployed position for running board installation.

Line up the carriage bolts (E), under the power step boards, with the slots on the linkage arms (A & B). Insert the 4 carriage bolts (E) into the slots on front and rear linkage arms. Adjust board to desired position. Moderately hand tighten the 6mm Flat Washers + 6mm Nylon Lock Nuts (G) onto the carriage bolts.



Once the board is adjusted, plug in motor connector to the LED-Y harness (to return power to the linkage arms), making sure that the door remains open. Proceed to open and close doors several times to deploy and retract the steps to settle the steps into their natural alignment. After cycling the step, tighten all hardware on the board and brackets.

Some further adjustment may be required for desired step position. Repeat for passenger side.

21

Perform system check and troubleshooting. If board is making irregular movements or noise, readjust the boards as follows:

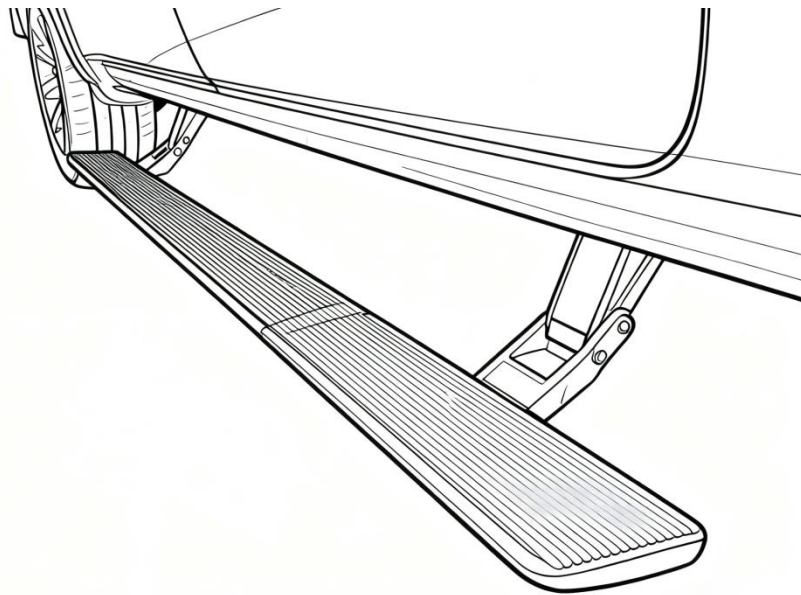
- a) With board deployed loosen 6mm nuts under board.
- b) Leave the nuts slightly less than snug.
- c) Open and close door several times for board to settle into position.
- d) With the step in the deployed position, gradually tighten flange nuts while alternating between each. Do not over tighten.

If board is making abnormal noise or the motion is binding, repeat steps “a” through “d”.

Note: If the above method does not resolve the issue, the brackets mounting to the vehicle may not be aligned properly with the vehicle. In this case, remove the support brackets, loosen the board, and realign brackets before attempting steps “a” to “d” once again.

22

Reinstall any remaining trim panels if necessary. Check and make sure all hardware is fully tightened. Perform a final system check. Finish.



*NOTE: If board does not move during troubleshooting, check all electrical connections and magnetic switch positioning.

*NOTE: May need to remove (not just loosen) support brackets to adjust bracket assemblies.

*NOTE: May need to check to see if bracket alignment is correct (see step 3).

FINAL REMARKS

- Ensure there are no debris or obstacles preventing the power steps from operating.
- Open and close each door on both sides to ensure that power steps are operating correctly.
- Check and ensure that all electrical connections are properly connected.
- Check and ensure that the magnetic switches are lined up correctly and that they directly face each other when the door is closed.
- Check and ensure that the magnetic switches fully adhere to a clean surface.
- Conceal the magnetic switch wiring as best as possible underneath the door sill and along the weather seal.
- Recheck that all mounting hardware is tight.
- Adjust mounting brackets or running board to enable smooth operation even after having stepped on the deployed boards.

MAINTENANCE AND CARE

- Periodically clean the linkage arms and motor of any dirt or debris that may accumulate.
- Avoid spraying the motors directly with high pressure liquids.
- Avoid damaging the power steps.
- Ensure power step ECU is not exposed directly to water to prevent degradation.
- Ensure wiring is properly tucked away and concealed from mechanically moving parts and exposure to high heat or very low temperature conditions.
- Periodically recheck that all mounting hardware is tight
- Do not overload the running board.
- Readjust running board if necessary.

WARNING AND SAFETY

- Do not use boards as a rock slider or as skid protection.
- Do not use solvents, chemicals, oils, or corrosive liquids on power steps. If the power steps encounter these substances, clean the power steps as soon as possible. Mild detergent and water is recommended.
- Do not obstruct the power steps in any way during operations of deployment and retraction.
- Do not rely in any way on the components of this product to keep occupants within the vehicle or to protect against injury or death in the event of an accident.
- Do not sit/stand on the running board for long periods of time.
- Do not jump on power step board or rest heavy objects on boards or subject power steps to excessive force.
- Do not step on plastic end caps of the boards. Failure to do so may result in injury.
- Do not place bodily appendages between running board and the vehicle body. Please mind the gap between the vehicle and the board.
- Do not allow children to use power steps without adult supervision and proper operation. This is not a toy. Improper use may result in injury.

- Remove the fuse on the power lead on the main harness before doing electrical troubleshooting to avoid risk of shock or injury. Make sure the motors do not have power before working on mechanical adjustments to avoid injury.

By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable, State, and Local laws and regulations regarding the purchase, ownership, and use of the item. It shall be the buyers responsibility to comply with all Federal, State and Local laws governing the sales of any items listed, illustrated or sold. The buyer expressly agrees to indemnify and hold harmless Rough Country, LLC for all claims resulting directly or indirectly from the purchase, ownership, or use of the items.