WOLFBOX
Dare to Go Everywhere

POWER STEP
Installation Instructions

19+ Silverado 1500, 20+ Silverado 2500/3500 HD Double and Crew Cab (Excl. 2019 LD Models)
19+ Sierra 1500, 20+ Sierra 2500/3500 HD Double and Crew Cab (Excl. 2019 Limited Models)

RBPW061806 & RBPW061807

gears.wolfbox.com
The information in this manual is subject to change without notice.

INSTALLATION INSTRUCTIONS

Parts List

Qty	Item Description	Qty	Item Description
2	Running Boards	12	8-1.25mm x 30mm Hex Bolts
1	Driver/Left Front Linkage Assembly	14	8mm Lock Washers
1	Passenger/Right Front Linkage Assembly	14	8mm x 24mm x 2mm Flat Washers
1	Driver/Left Rear Linkage Assembly	2	8mm Hex Nuts
1	Passenger/Right Rear Linkage Assembly	2	8-1.25mm x 40mm Bolt Plates
1	Electronic Materials Package	16	6mm Nylon Lock Nuts
2	Front Steel Mounting Brackets	16	6mm x 16mm x 1.6mm Flat Washers
2	Rear Steel Mounting Brackets	16	6-1.0mm x 20mm Carriage Bolts
16	8mm Flange Lock Nuts	2	Plastic Retainers
16	8-1.25mm x 30mm Carriage Bolts	15	Zip Ties
5	Double Sided Adhesive Tapes	1	Gloves

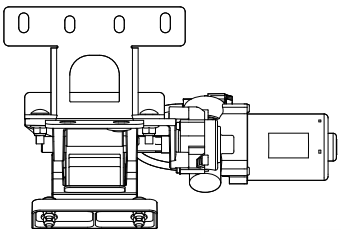
Electronic Materials Package Parts List

Qty	Item Description	Qty	Item Description
1	Main Harness	1	ECU
2	Wire Taps	4	LED lights
1	LED Y-Harness (280mm)	1	LED Y-Harness (1200mm)

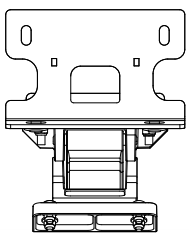
Packing List

2 Running Boards

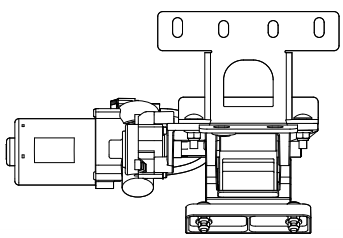




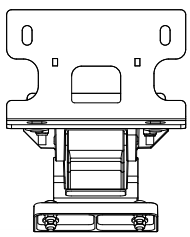
A Driver Front Bracket Assembly



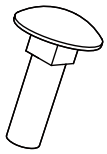
B Driver Rear Bracket Assembly



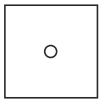
C Passenger Front Bracket Assembly



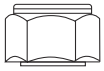
D Passenger Rear Bracket Assembly



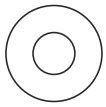
E M6 Carriage Bolt



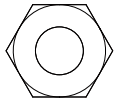
F Plastic Retainer



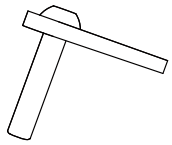
G M6 Nylon Lock Nut



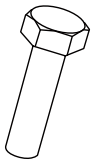
H Flat Washer



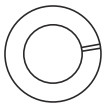
I M8 Hex Nut



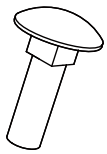
J M8 Bolt Plate



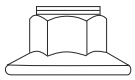
K M8 Hex Bolt



L Lock Washer



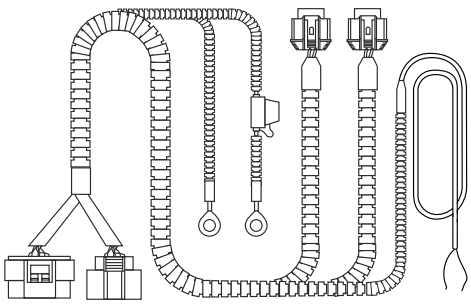
R M8 Carriage Bolt



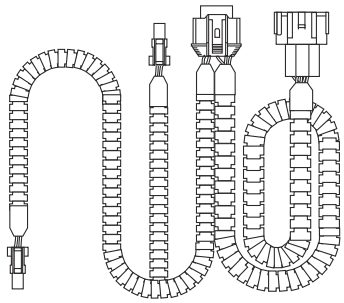
S M8 Flanged Lock Nut

NOTE

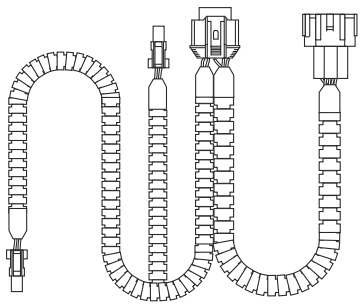
Driver and Passenger Rear Bracket Assemblies are the same.



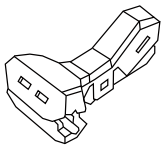
M Main Harness



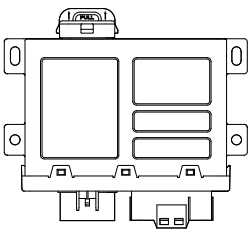
N1 LED Y-Harness (1200mm)



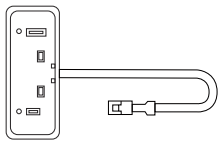
N2 LED Y-Harness (280mm)



O Wire Taps



P ECU



Q LED Lights



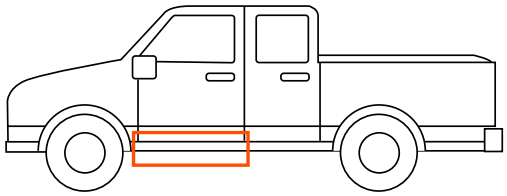
Z User Manual

Tools Required:

1. Rachet 2. Socket (8mm/10mm/13mm) 3. Extensions 4. Wrenches 5. Electrical Tape
6. Needle nose pliers

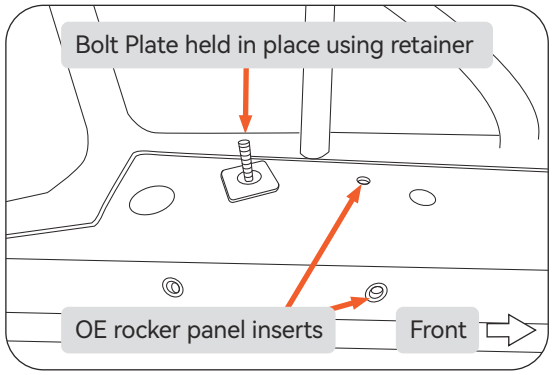
1

Locate Driver Side front mounting points on the rocker panel under the front door. Remove any OE plastic insert caps on the mounting area. Insert the bolt plate (J) into the upper left hole with the bolt threads facing the frame. Use the plastic retainer (F) to keep the bolt plate in place for mounting.



NOTE

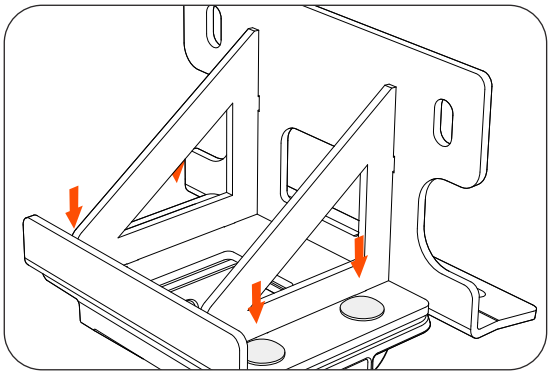
Pry-tool is recommended for removing plastic insert caps.



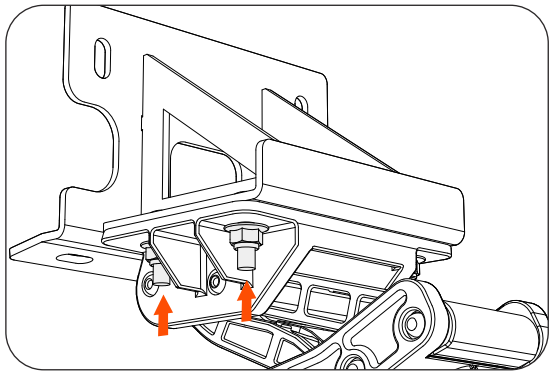
2

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. 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.

- Insert M8 Carriage Bolts downwards.

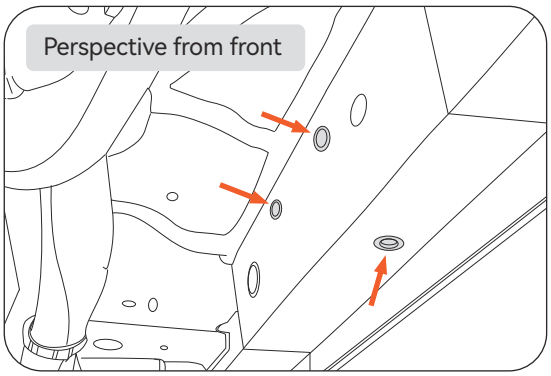


- Tighten the M8 Flanged Nylon Lock Nuts all the way until tight.



3

Locate and Line up front mounting bracket slots to the rocker panel threaded inserts and place Driver Side/Left Front Bracket Assembly (A) onto rocker panel. Then fasten 8mm Bolts, Lock Washers, and Flat Washers together into the OE inserts and 8mm Hex Nut to the Bolt Plate. Do not tighten all the way yet.





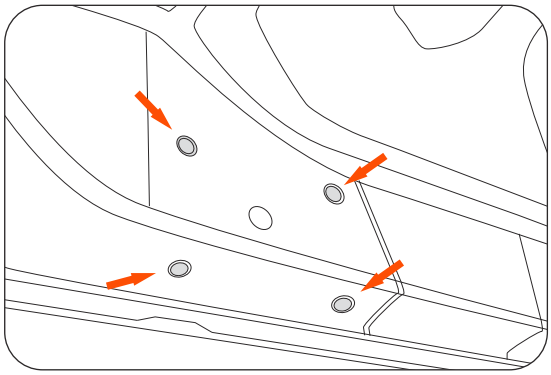






4

Locate rear mounting points. Remove the appropriate plastic OE insert protectors to reveal the threaded inserts. Next, line up rear mounting bracket slots to the studs and place Driver Side/Left Rear Bracket Assembly (B) onto rocker panel. Remove any rubber plugs that may get in the way of the bracket.





NOTE

The more forward pair of inserts are additional mounting points. Not all vehicles have these. On vehicles with these inserts available, be sure to use them for extra additional strength. On vehicles without these threaded inserts, use just the rearward 2 mounting points.

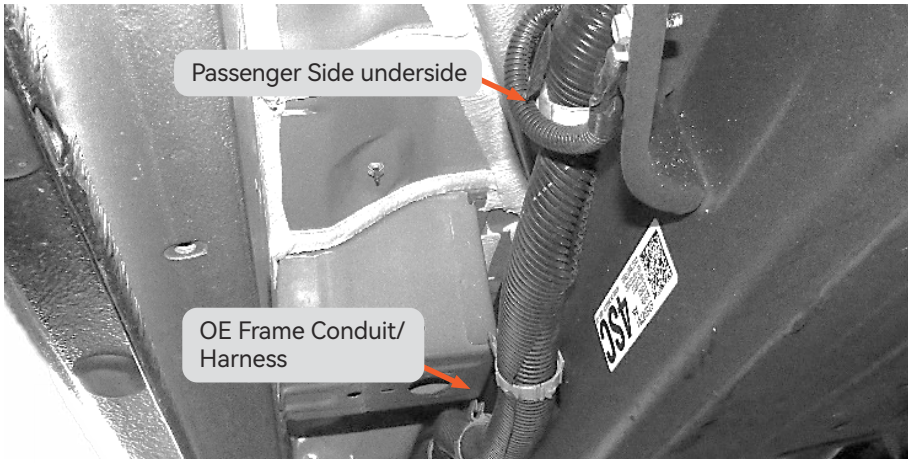


Then fasten the 8mm bolts (K), lock washers (L), and flat washers (H) into. Do not tighten all the way yet. Adjustments may be needed afterwards.

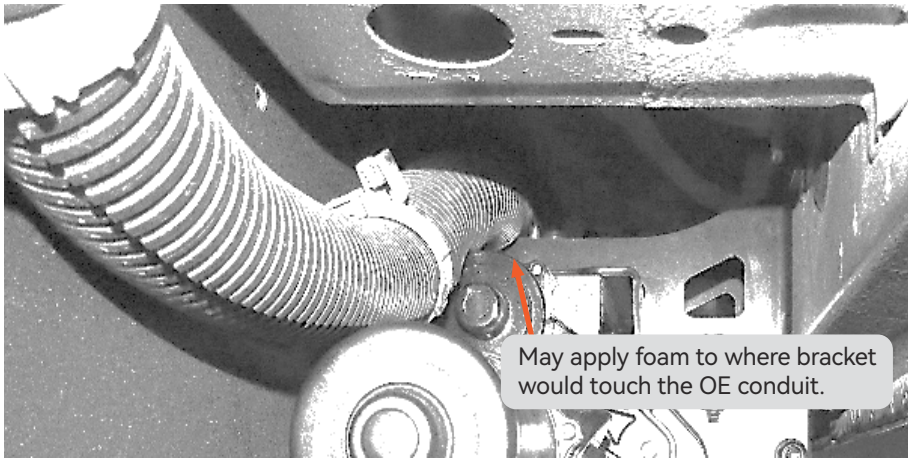
5

Repeat steps 1 – 3 for the Passenger Side.

On some vehicles, the Passenger Side has large wire conduits running the length of the vehicle frame. These wire harnesses are bendable and can be simply pushed aside when installing the Passenger Side Bracket Assemblies (C & D).

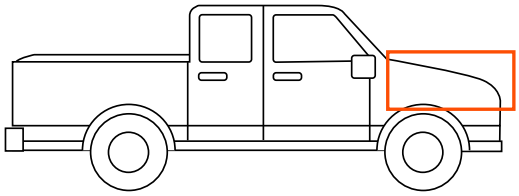


In some cases, foam strips may be applied to the top of the brackets in areas that will touch the OE frame conduit. In most cases, the brackets will not touch.



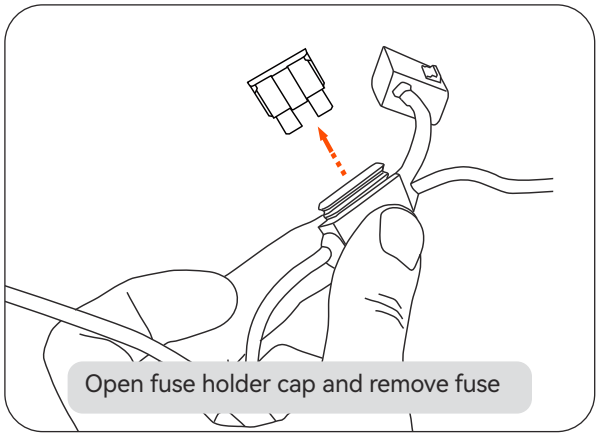
6

Start from the engine compartment by opening the front hood of the vehicle. 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.

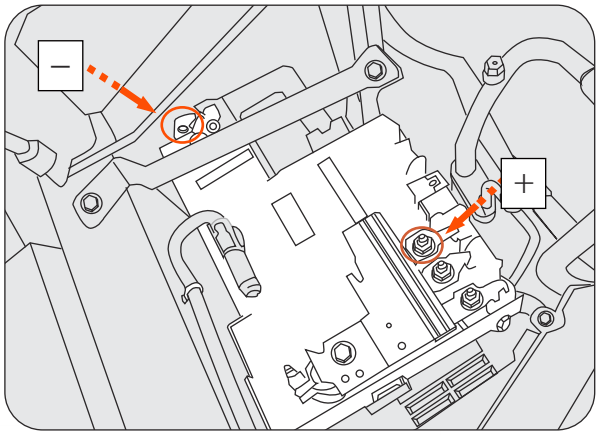


7

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.

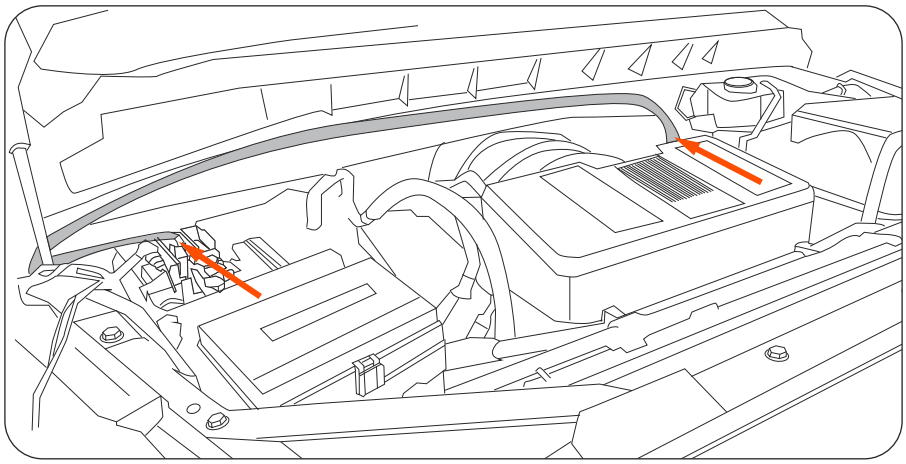
Connect the Short LED Y-Harness (N2)to the Passenger-side branch of the main harness.



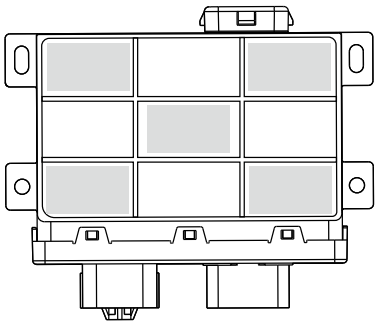
If the vehicle is either a **22+ Silverado 1500** or a **24+ Silverado 2500/3500**, then route the CAN Signal wires to the Passenger-Side instead of the Driver-Side, and go to Step 8B after Step 7.

8

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.



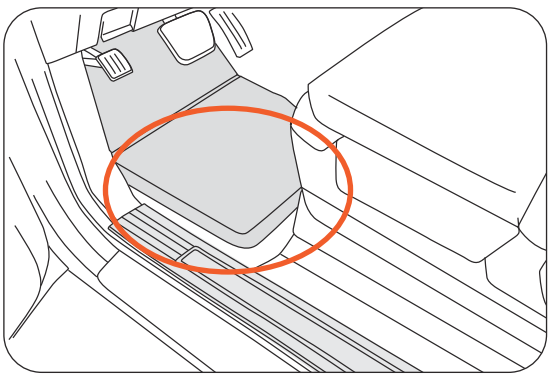
- Use the 5 included spare double-sided adhesive tapes to secure the ECU, as needed.
- ECU (M) should be secured near battery or any space away from the direct heat of the engine.

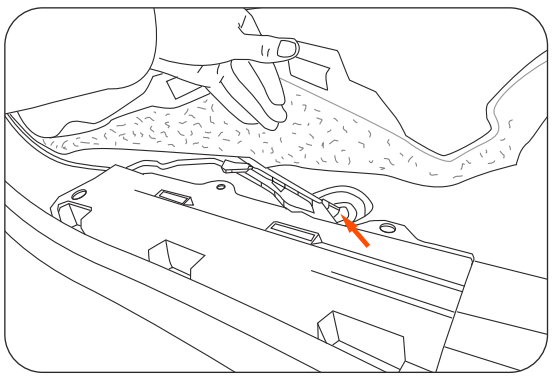


8A

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.





8B

If the vehicle is a Silverado 1500 from 2022 onwards or a Silverado 2500/3500 from 2024 onwards, route the signal branch of the main harness (M) through the Passenger side instead of the Driver Side. Poke a hole using a drill or punch through the plastic cap on the underside to feed the wires into the cabin.





9

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.



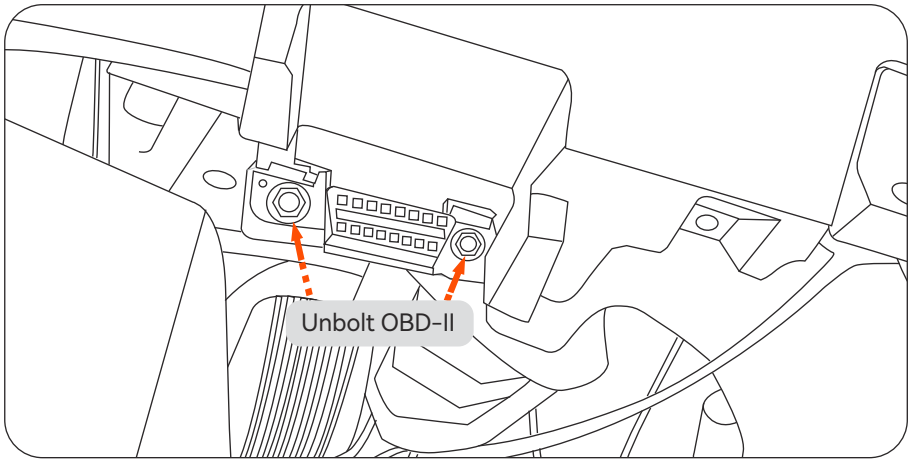
10

Determine which technology system the vehicle is normally equipped with using the abridged guide below:

- 19-21 Silverado/Sierra 1500 & 20-23 Silverado/Sierra 2500-3500 HD = pre-refresh technology system
- 22+ Silverado/Sierra 1500 & 24+ Silverado/Sierra 2500-3500 HD = post-refresh technology system
- 22 Silverado 1500 LTD & 22 Sierra 1500 Limited = pre-refresh technology system

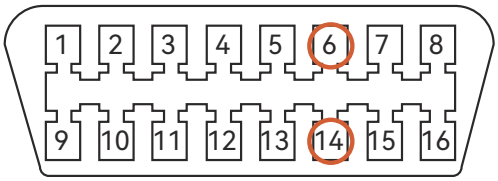
If the vehicle is equpiped with a pre-refresh tech system, follow Step 10-Part A.
If the vehicle is equipped with a post-refresh tech system follow Step 10-Part B instead (page 11).

Part A: Confirm the technology system of the vehicle. Locate the OBD-II Port under the steering wheel, near the front hood release lever. Unbolt the two bolts using a socket for easier access to the rear side of the plug.



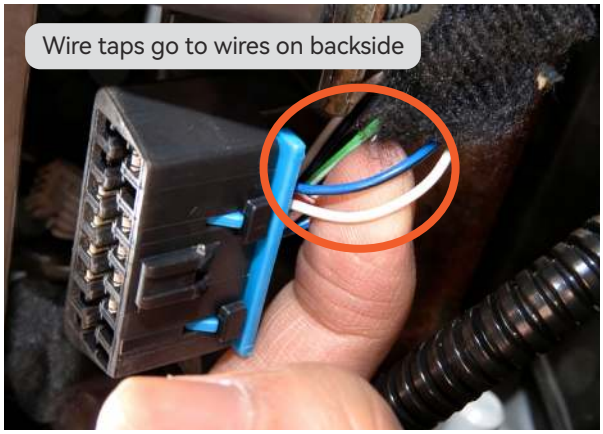
Connect the High and Low wires from the main harness (M) using the supplied wire taps (O). Identify wires from back of the OBD-II Connector.

OBD-II Connector Pin Layout

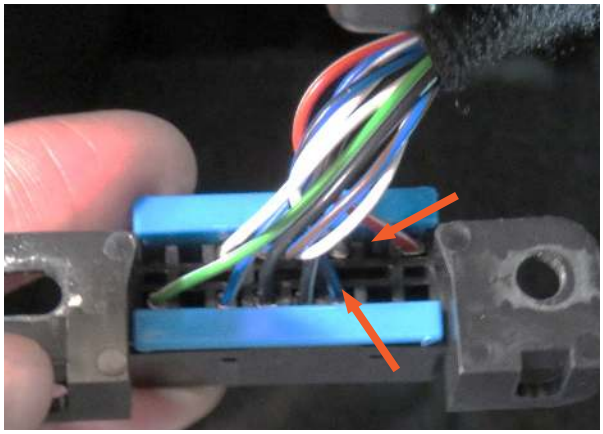


Find and use wire taps on corresponding wires for Pin 6 and 14 on backside of OBD.

Pin 6 = CAN-H
Pin 14 = CAN-L



Factory CAN Wire	Main Harness wire color
3rd from right (lower), Pin 14	Yellow (Low)
3rd from right (upper), Pin 6	White (High)



NOTE

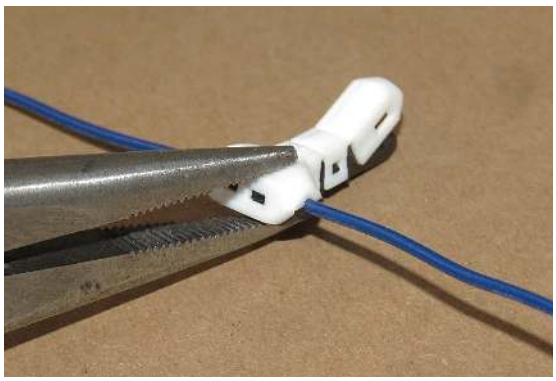
On some vehicles, wires may have different colors than depicted here.

After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.

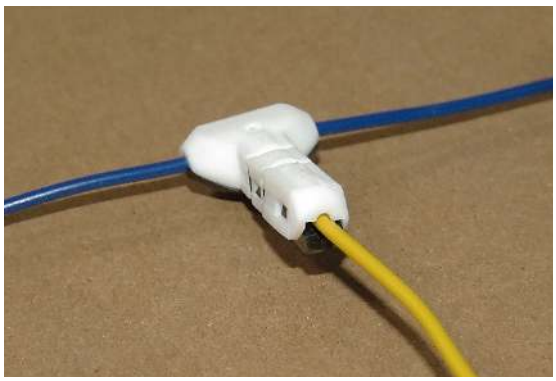
Wire Taps Guide

The kit comes supplied with wire taps called “shark taps”. Follow the guide below to tap the wire using the “shark tap”:

- Take wider end and wrap jaws onto vehicle data line. Clamp jaws onto wire tightly.



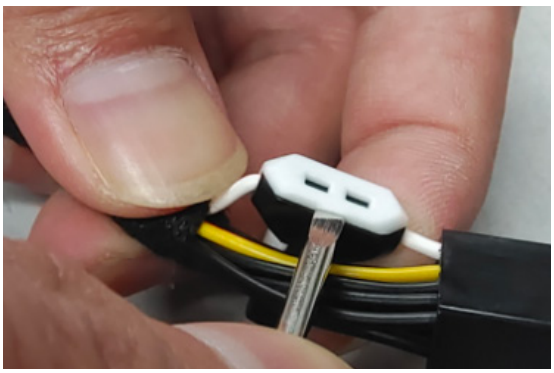
- Insert Power Step Main Harness signal wire into narrow jaw. Clamp jaw onto wire tightly. Needle-nose plyers recommended.



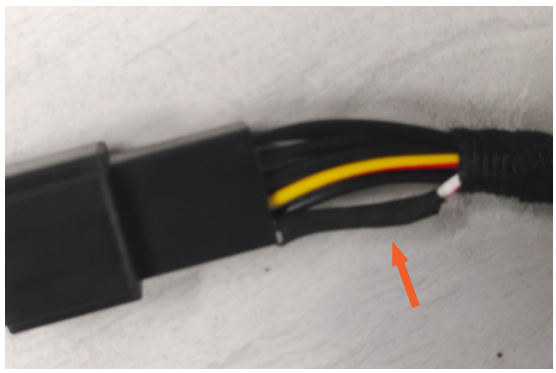
NOTE

Make sure wire is seated properly in the jaws before clamping. The wire being tapped must be centered on the “teeth” to make a proper tap. If the wire taps are not fully secured, please refer to below instructions for details.

- Use a screwdriver to pry open the clamping buckle of the wire tap.



- Wrap the broken part of the wire with electrical tape. Re-do the tapping process.



Part B:
Confirm the technology system of the vehicle. Under the glove compartment on the Passenger Side, locate the radio module. On some models, the underside shield may have to be removed to access the components below the glove compartment.





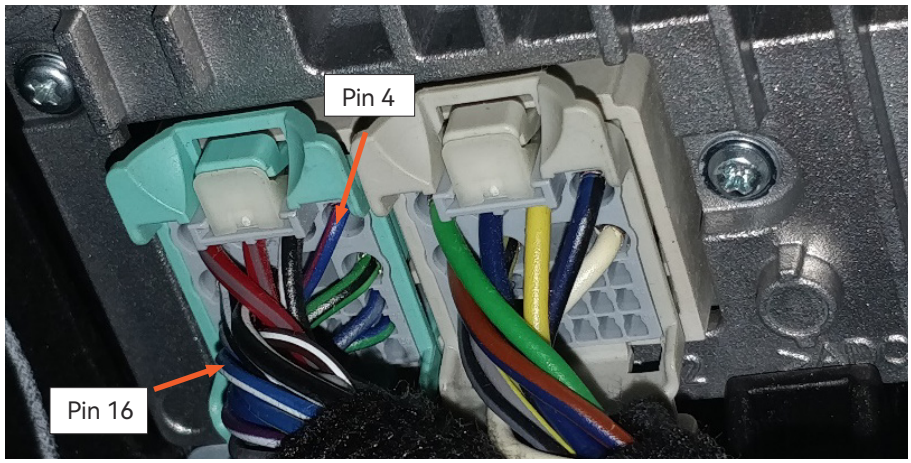

Determine the kind of radio that is installed by looking at the color of the two main connectors that are plugged in.

If your radio has a **GREEN and GREY plug,** then follow **step B-1.**

If your radio has a **BLACK and GREY plug,** follow **step B-2.**

Part B-1:

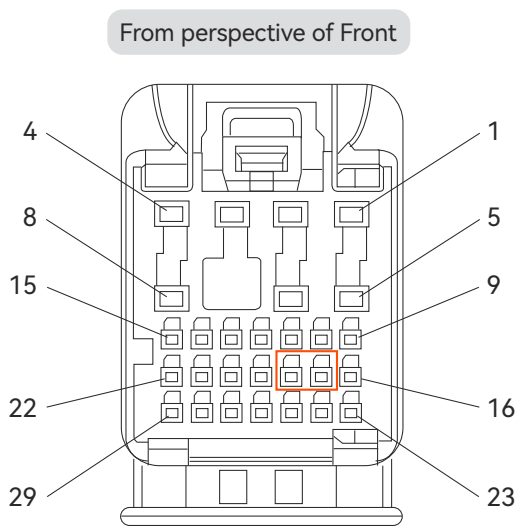
Connect the High and Low wires from the main harness (M) using the supplied wire taps (O). After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.

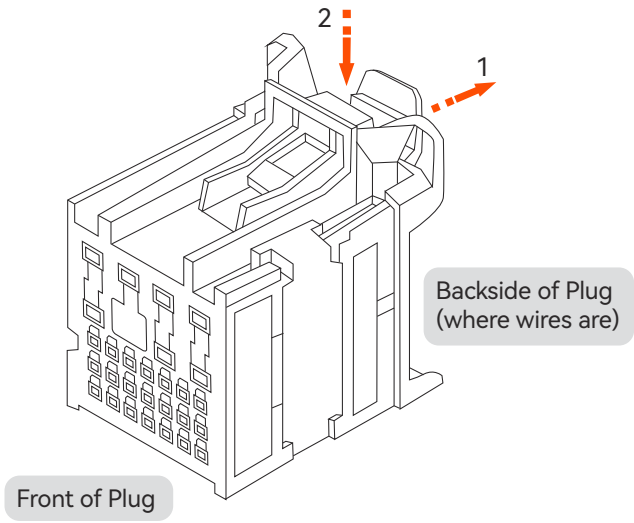


Factory CAN Wire	Main Harness wire color
Blue w/ White Stripe (CAN-H)	White (High)
Blue w/ Yellow Stripe (CAN-L)	Yellow (Low)

NOTE

On some vehicles, the positions of the Green and Grey plugs may be reversed.



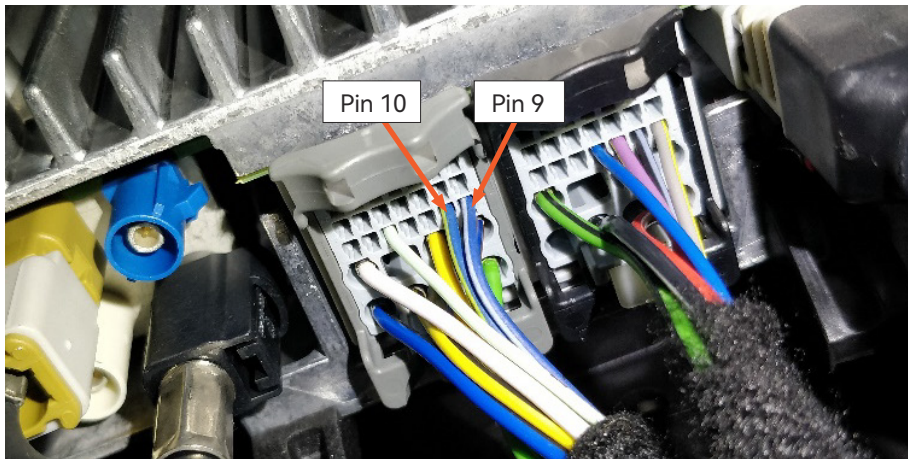


Pin 17 = High
Pin 18 = Low

After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.

Part B-2:

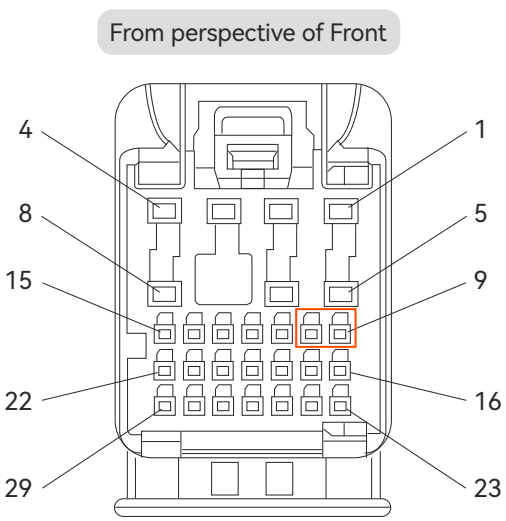
Connect the High and Low wires from the main harness (M) using the supplied wire taps (O). After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.

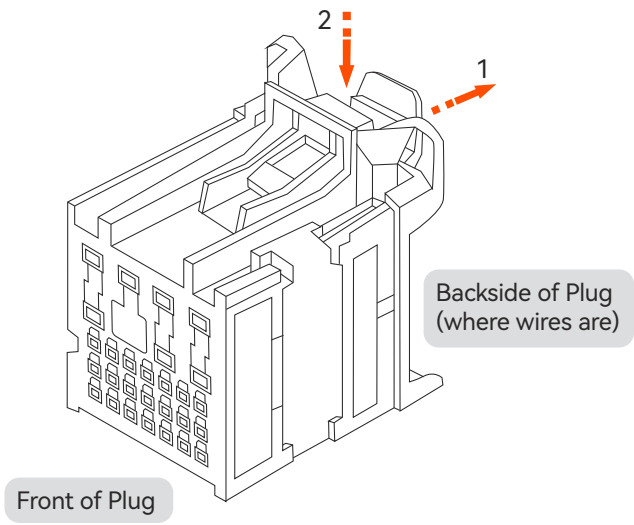


Factory CAN Wire	Main Harness wire color
Blue w/ White Stripe (CAN-H)	White (High)
Blue w/ Yellow Stripe (CAN-L)	Yellow (Low)

NOTE

On some vehicles, the positions of the Black and Grey plugs may be reversed.





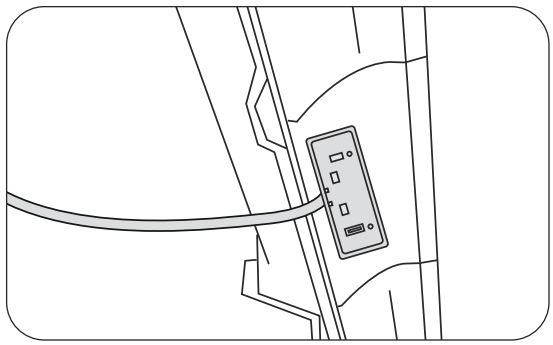
Pin 9 = High
Pin 10 = Low

After successfully connecting the wires, return the module back into its place, tighten the previously removed nuts, and check that it is secure on the bracket.

11

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

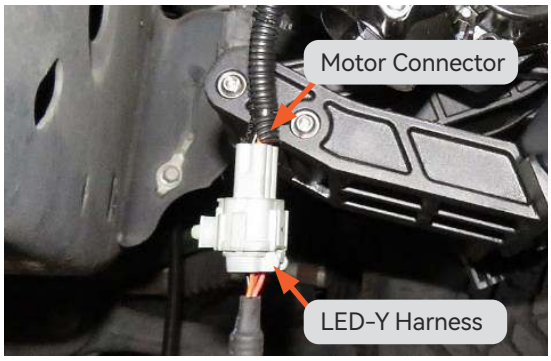
- LED attached to rocker panel.

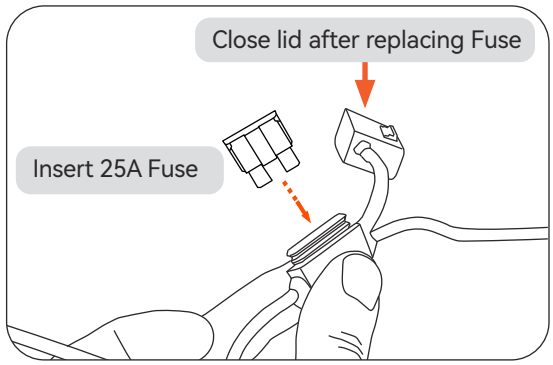


12

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).

Replace fuse into fuse box. Insert 25A fuse, close lid after replacing fuse.





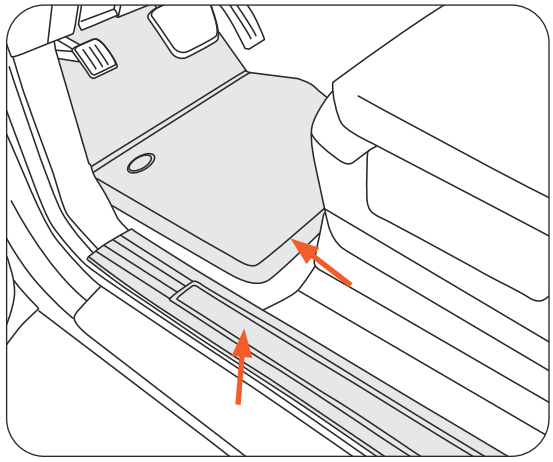
NOTE

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

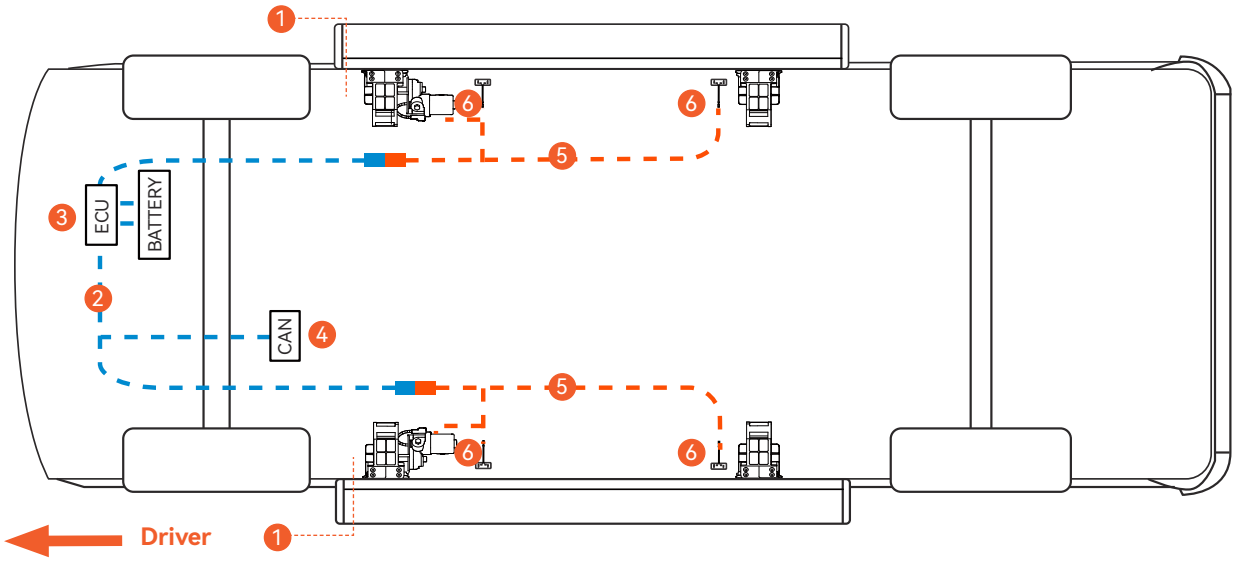
13

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.



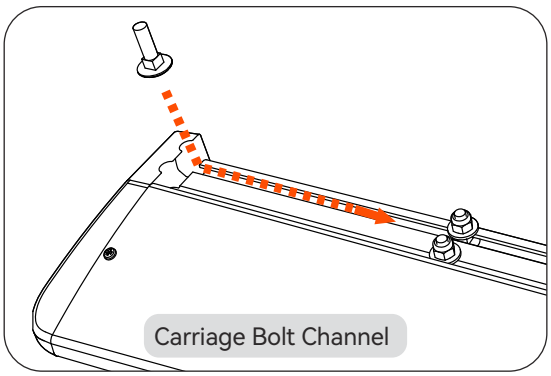
Wiring Diagram

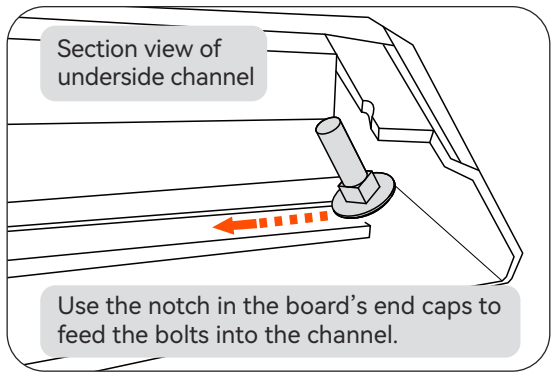


1. Motor
2. Main Harness (The Blue Line)
3. ECU
4. Factory CAN Wire/ Data Line
5. LED-Y-Harness (The Orange Line)
6. LED Lights*4

14

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 8 carriage bolts (E). Use the notch in the board's end caps to feed the bolts into the channel.



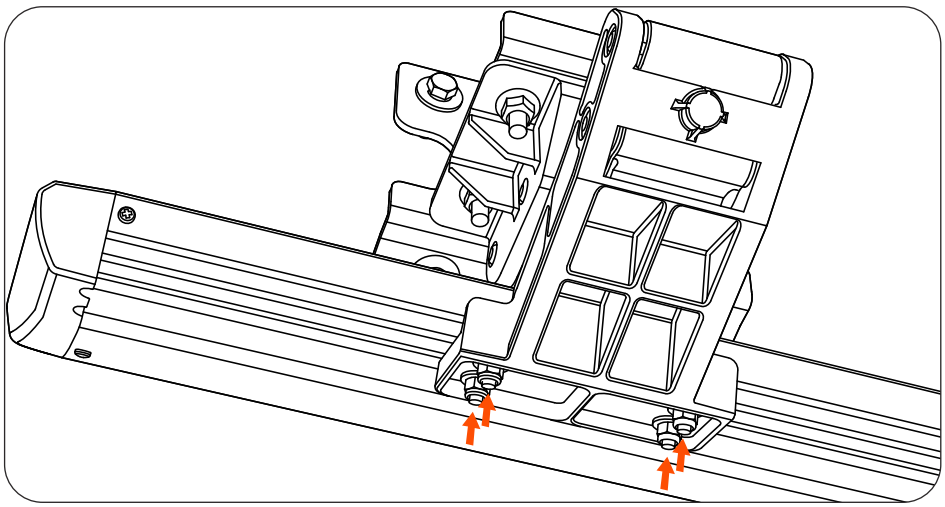


15

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 the 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 8 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.

16

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 the 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

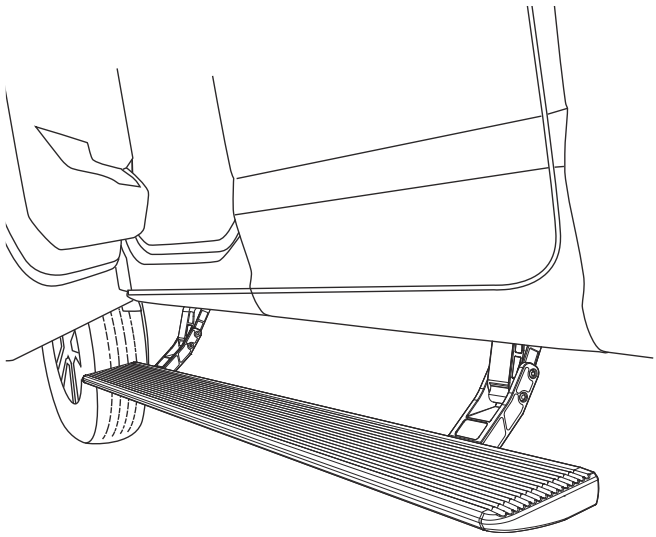
If the above method does not resolve the issue, the brackets mounting to the vehicle may not be aligned properly with the vehicle. In this case, remove the board and realign brackets before attempting steps “a” to “d” once again.

17

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 the wire taps for a solid connection or flip the CAN Signal High and Low wires.
- If board still does not move during troubleshooting, it may also be necessary to check all other wiring connections.



Installation Video

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 stable and secure.
- Check and ensure that the fuse is placed into the main harness.
- Check and ensure that the CAN tap connections are fully engaged and are seated completely.
- 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.

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