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Rough Country PSR652024A Installation Instructions

Power Running Boards for Toyota Tacoma Double Cab (2024–2025)

Part number: PSR652024A

trailfortress.com/rough-country-power-running-boards-psr652024a

Scan for fitment, price and install help

PRB652024

ROUGH COUNTRY SUSPENSION SYSTEMS® 2024 MODELS

2024 TOYOTA MIDSIZE TRUCK EBOARD STEP

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 questions 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.

KIT CONTENTS:
Board Assembly x2
Front Motor Left x1
Front Motor Right x1
Rear Motor Left x1
Rear Motor Right x1
Controller Assembly x1
LED Lights x4
Power Board Switch x1
Wiring Harness

Wired Magnetic Sensors
Module x2
Magnet x4

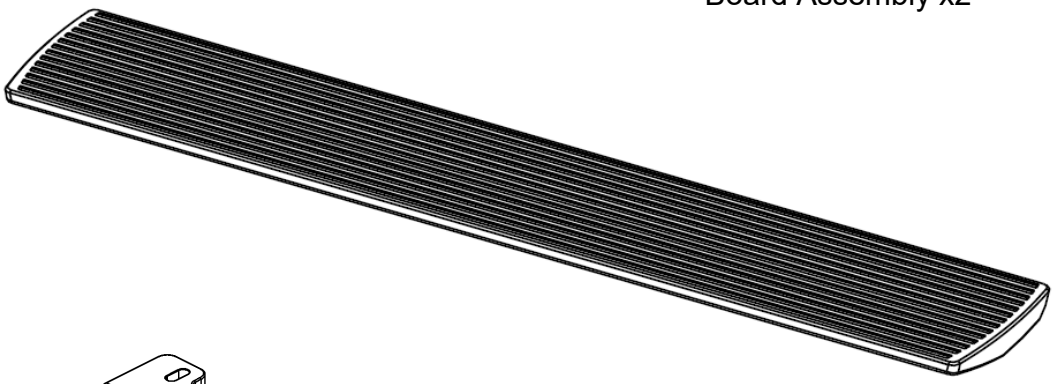
TOOLS NEEDED:
5mm Allen
10mm Wrench
12mm Wrench
Screw Driver
Pry Tool
Weatherproof Tape

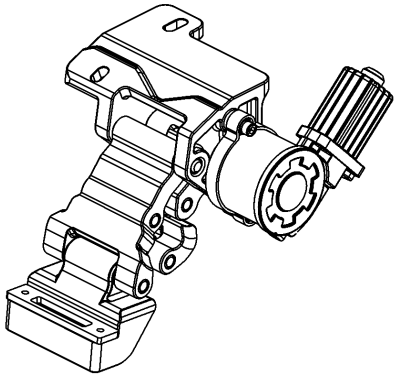
HARDWARE INCLUDED:
M8X30mm Hex Head Flange Bolt x8
M6x30mm Socket Cap Screw x8
M8x25mm Hex Head Flange Bolt x2
Wire Tie x25
Fuse x2
Shim x8
Motor Shim x2



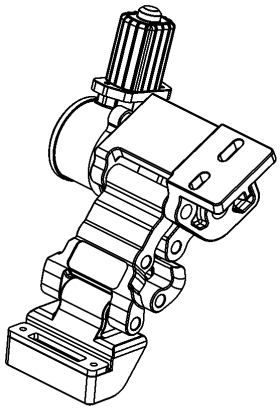
Product Packing List

Board Assembly x2

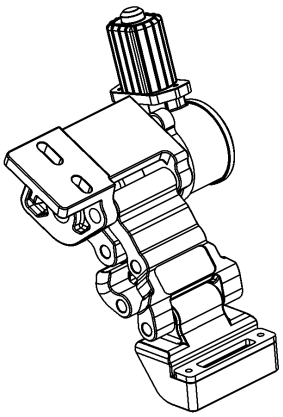




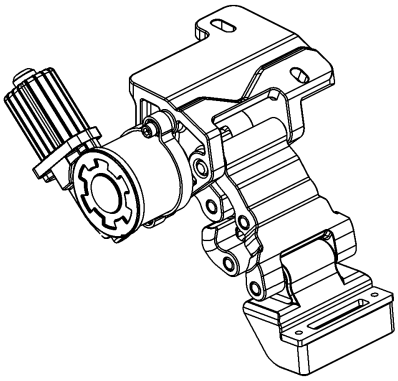
Front Left Motor x1
Driver Side



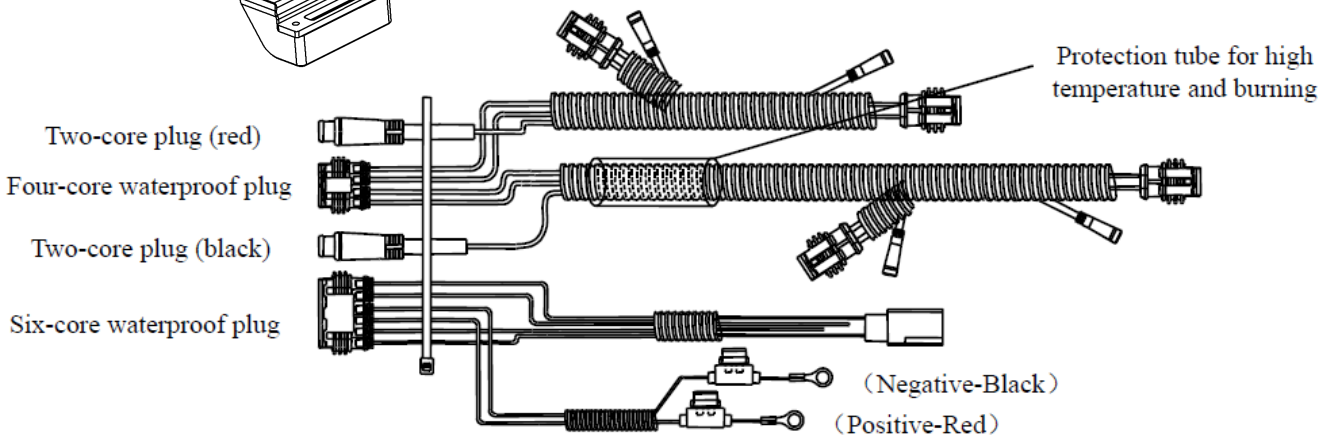
Rear Left Motor x1
Driver Side



Rear Right Motor x1
Passenger Side

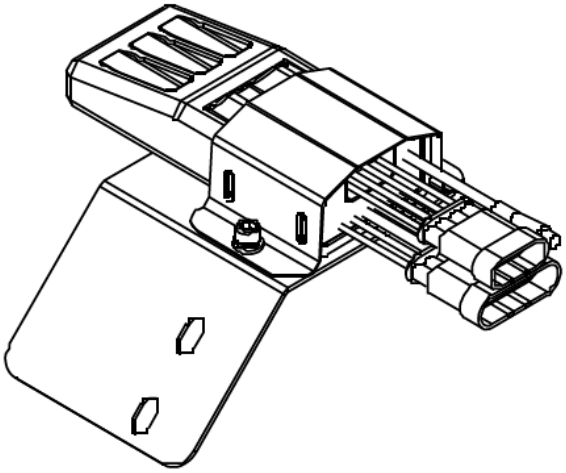


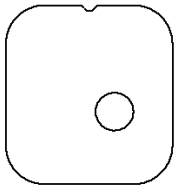
Front Right Motor x1
Passenger Side



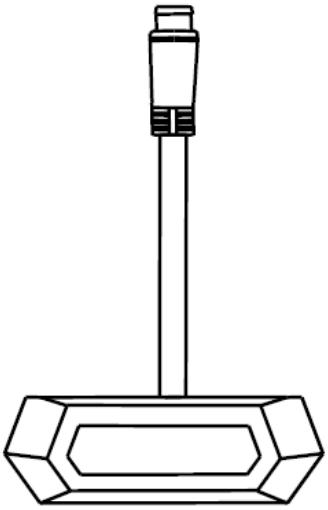
Wiring Harness x1

Controller Assembly x1





Motor Shim x2



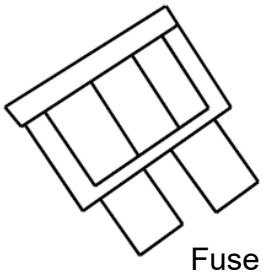
LED Lights x4



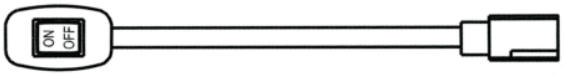
M6x30mm Socket Cap Screw x8



Wire Tie x25



Fuse x2



Power Board Switch

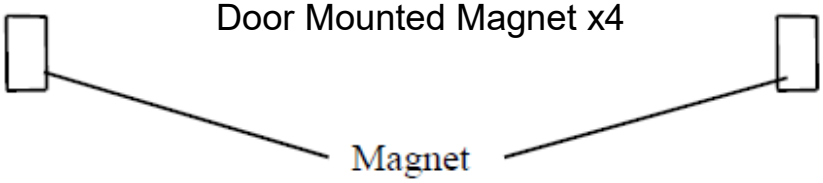


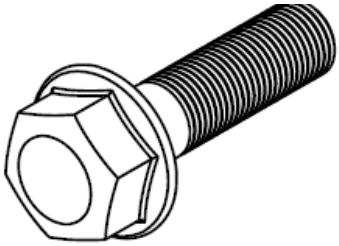
Shim×8



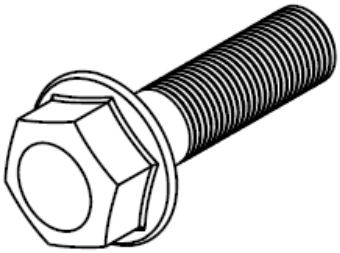
Body Mounted Module x2

Door Mounted Magnet x4





M8x25mm Hex Head Flange Bolt x2



M8x30mm Hex Head Flange Bolt x8

1. Locate the mounting locations on the driver side of the vehicle. **See Photo 1.**
2. Install the rear driver side motor and front driver side motor in previously located mounting holes with two supplied M8x30mm hex head flange bolts for each motor. **See Photo 2. NOTE:** When installing the front motor, install the motor shim with the notch oriented as shown in **Photo 2A.**

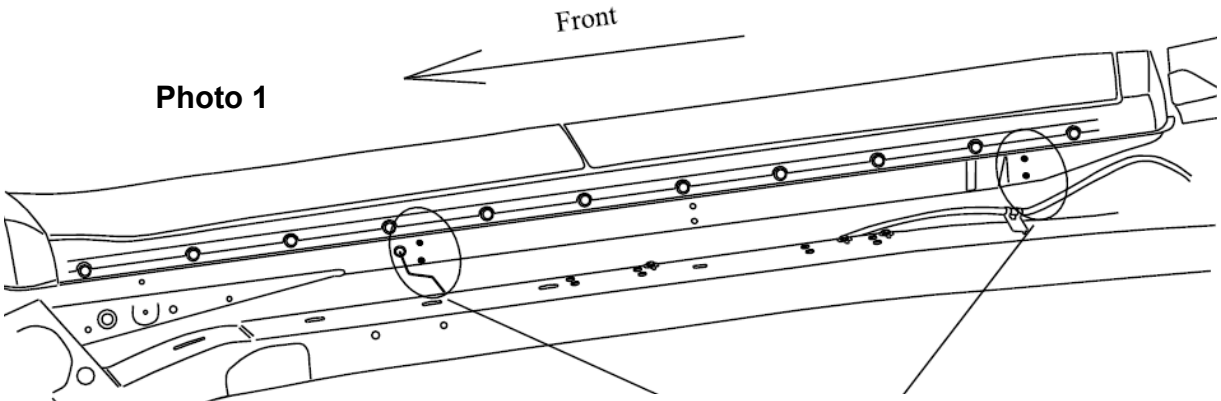


Photo 1

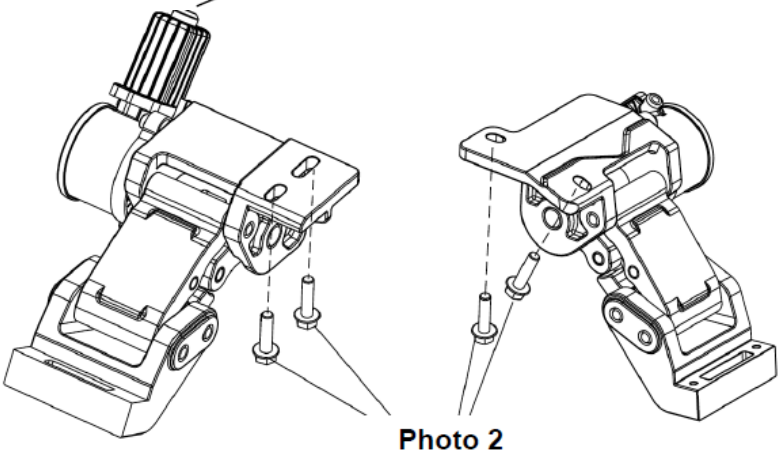


Photo 2

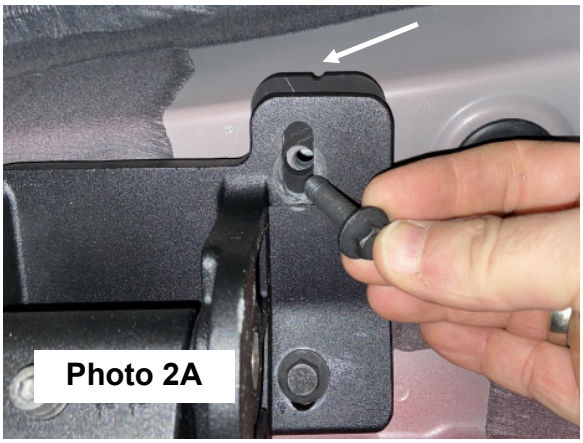


Photo 2A

3. Install the controller assembly on the side of the vehicle where the vehicle battery is located with the two supplied M8x25 bolts. **See Photo 3.**

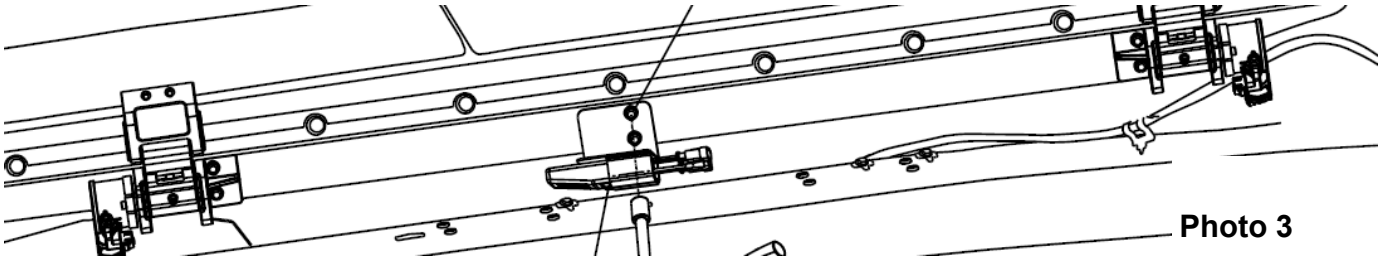


Photo 3

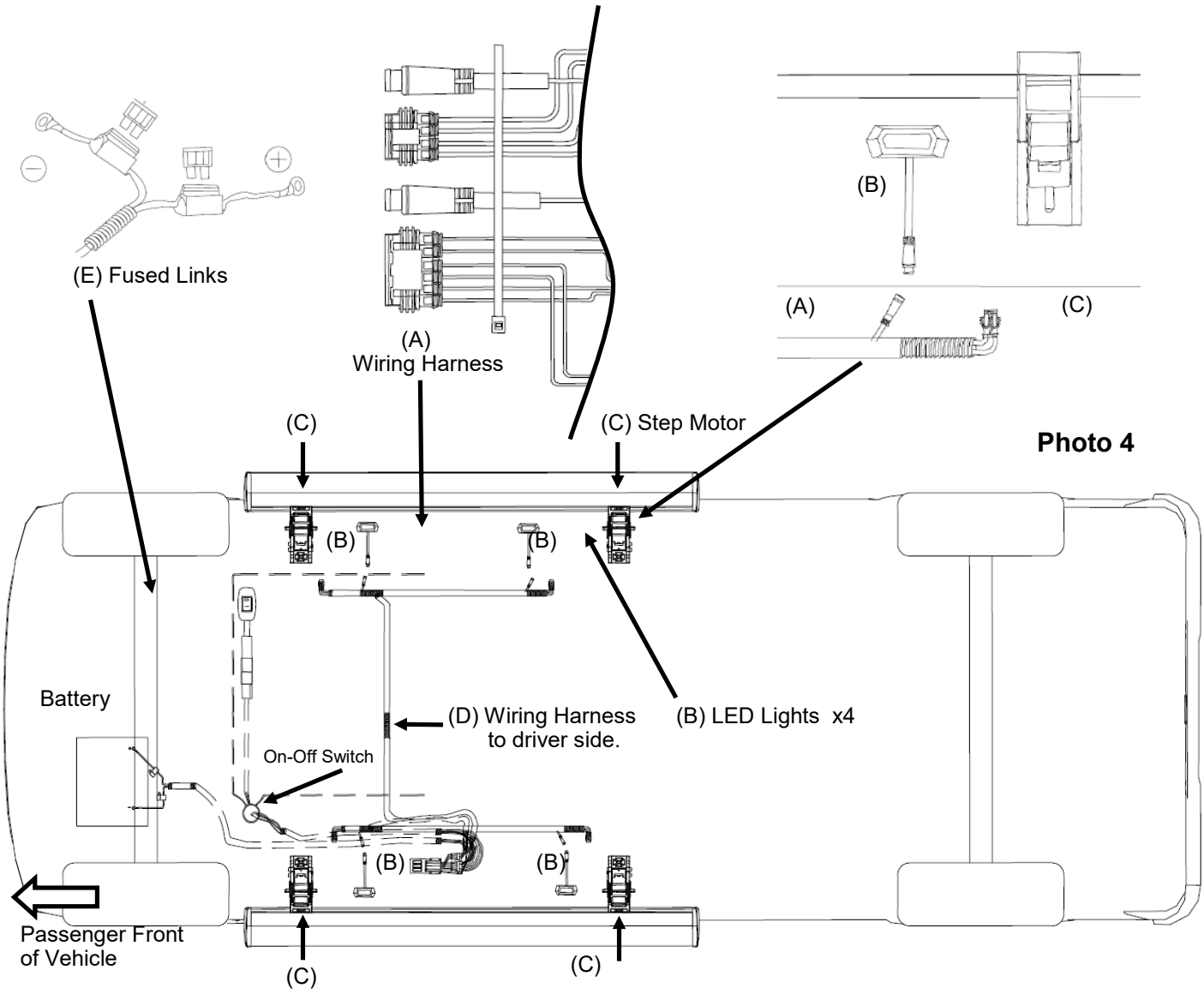
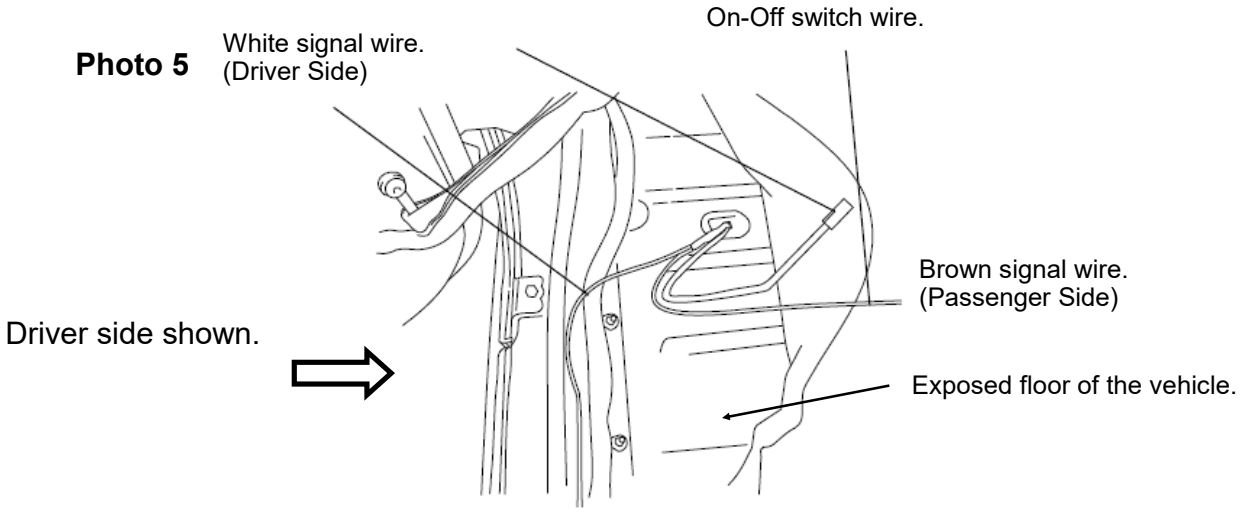


Photo 4

4. Remove passenger side scuff plate and kick panel.
5. (A) Connect the 4 plugs of the wiring harness to the controller assembly mounted to the body of the vehicle on the passenger side. **See Photo 4. NOTE: Left harness plugs will need to go to the Right motors and vice versa.**
6. (B) Mount the (4) LED Lights. Clean the surface of the pinch weld under the center of each door on the driver and passenger side of the vehicle. Remove the double sided tape backing and apply to the pinch weld.
7. (A) Route the wiring harness along the frame of the passenger side.
8. (C) Connect the step motor labeled to the corresponding wiring harness (Passenger) Front Right Motor and Rear Right Motor.
9. (B) Connect the LED light plugs on the driver side.
10. (D) Route the wiring harness across the frame to the driver side of the vehicle. **NOTE:** Keep wires away from rotating and heated components.
11. (C) Connect the step motor labeled to the corresponding wiring harness (Driver Side) Front Left Motor and Rear Left Motor.
12. (B) Connect the LED light plugs on the passenger side.
13. (E) Route the fused link harness along the passenger side frame up to the battery box, secure the wiring harness with the supplied wire ties away from heat or moving parts. Connect the fused links to the Positive and Negative side of the battery.

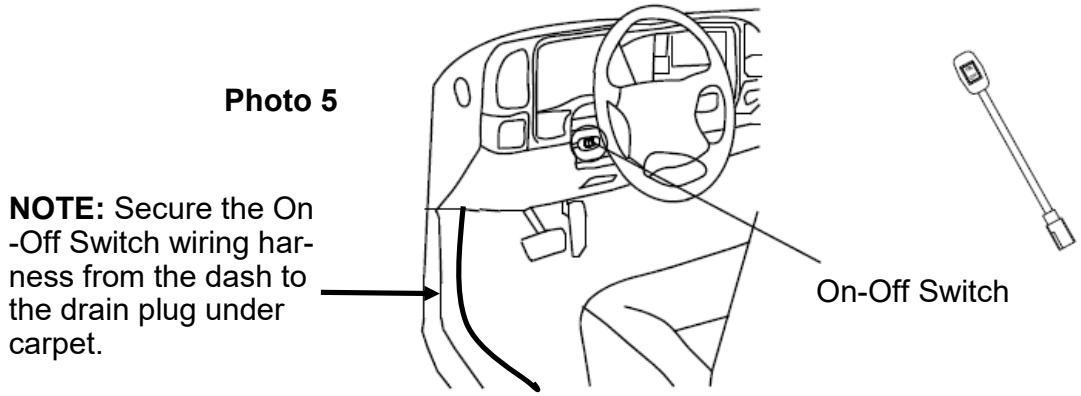
14. Remove the kick panel and the scuff plate on the driver side of the vehicle.
15. Install the supplied wiring harness' White and On/Off Switch wire through the rubber grommet in the floor of the vehicle. **See Photo 5.**
16. **NOTE:** Apply waterproof tape to the wiring harness and the drain plug once the wiring harness has been fully installed.

Photo 5

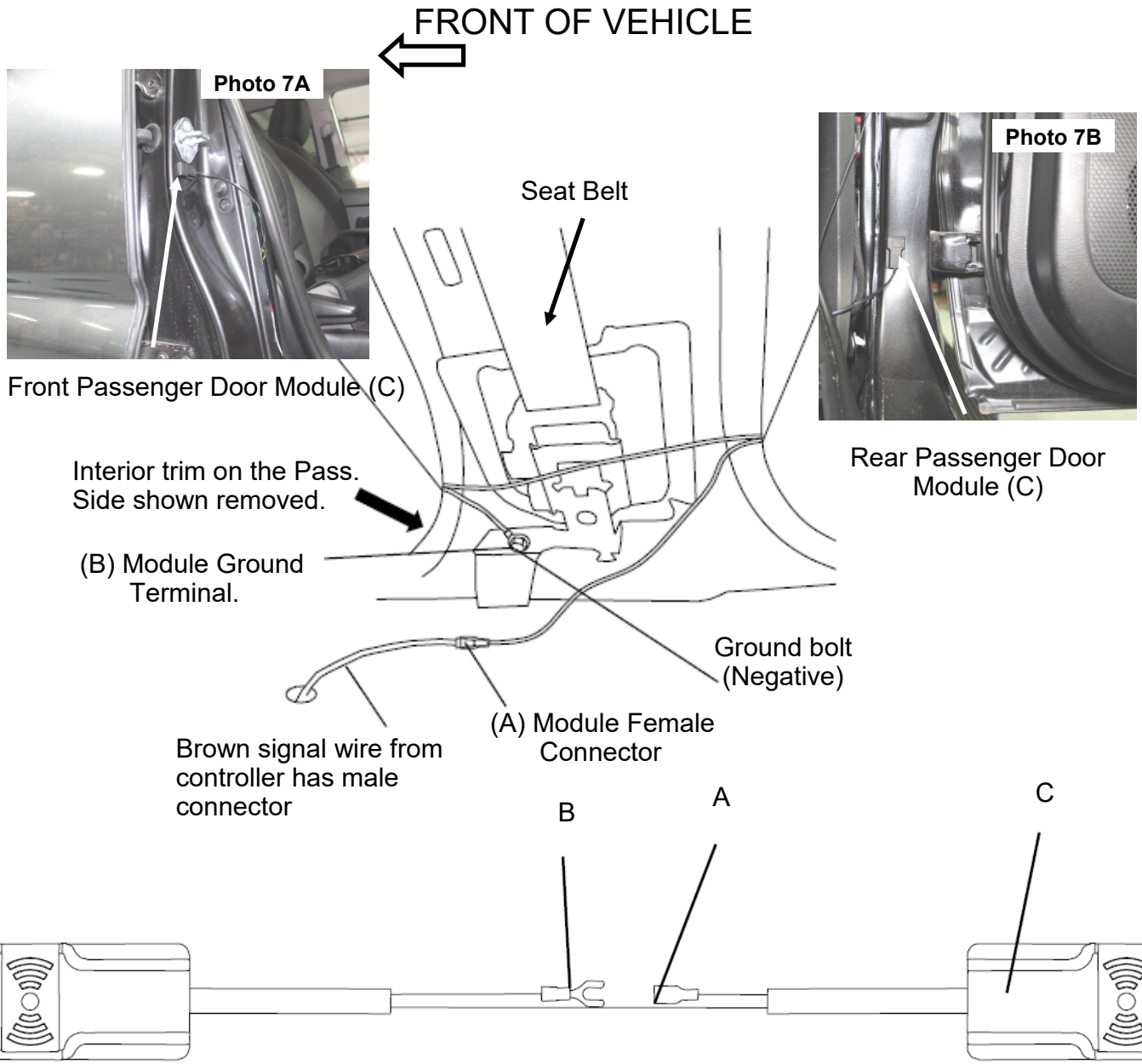


17. Mount the On-Off switch. Clean the area of installation and remove the covering on the double sided tape and apply it to the dash. Switch shown on the upper dash. **See Photo 6.**
18. Connect the On-Off switch to the wiring harness installed in the floor of the cab. Leave switch in the On position, this will keep the motors in the extended position as installed to the vehicle when power is connected. Secure the On-Off switch wiring harness behind the dash to the drain plug under the carpet.

Photo 5



NOTE: Normal function of the On-Off switch once power has been connected to the positive and negative fused links on the battery. (On) the steps will extend for use and entering the vehicle. Steps will retract when both doors per side are closed connecting the magnet to the module. (Off) the steps will retract to the body of the vehicle even when the doors are open and the magnet is away from the module.

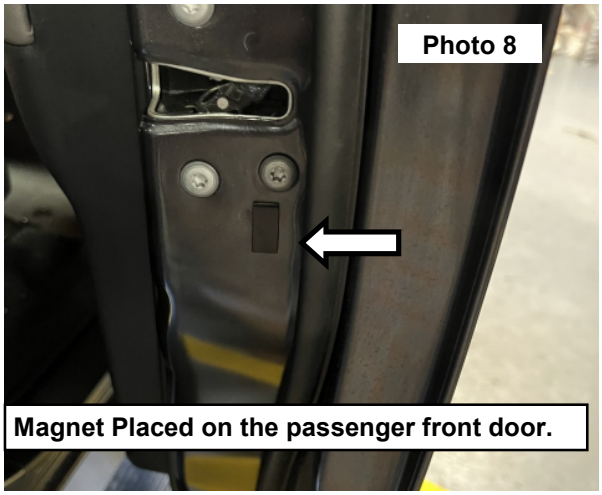


19. Remove the interior trim panel on the passenger side of the vehicle (*If interior trim is equipped with air bag, use caution*). Connect the Brown signal wire from the wiring harness to terminal (A) on the module. Connect module wire (B) to the vehicle ground. Remove the double sided tape backing and place the front module (C) in a secure location to the inside of the door jamb. **See Photo 7A.** Remove the cover off of the double sided tape and place the place the rear module (C) in a secure location to the inside of the door jamb. **See Photo 7B.**
20. Follow step 11 and install the driver side module using the white wire from the supplied wiring harness. *Photos 7A and 7B are shown from the passenger side of the vehicle*.

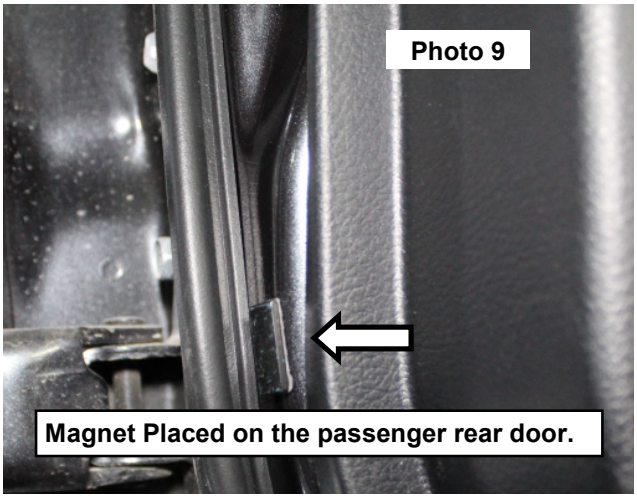
NOTE: The magnets will be installed in a later step after the power has been connected.

21. Place the magnet on the vehicle door aligned with the module. (Shown on the passenger side) for aluminum door vehicles this can be done with painter's tape to test and ensure it will work correctly. **See Photos 8 and 9.**
22. Ensure the On-Off switch is in the ON position. Now test the front and rear doors on the right and left side of the vehicle. If each one works correctly, the magnets are in line with the module. Mark the magnets position on each of the 4 doors, remove the covering from the double sided tape and stick the magnet to the door in the marked position.

NOTE: The On-Off switch will remain in the On position for normal use. We recommend the switch be in the Off position in icy or off roading conditions to prevent binding or damage to the step board, motor or motor bracket.

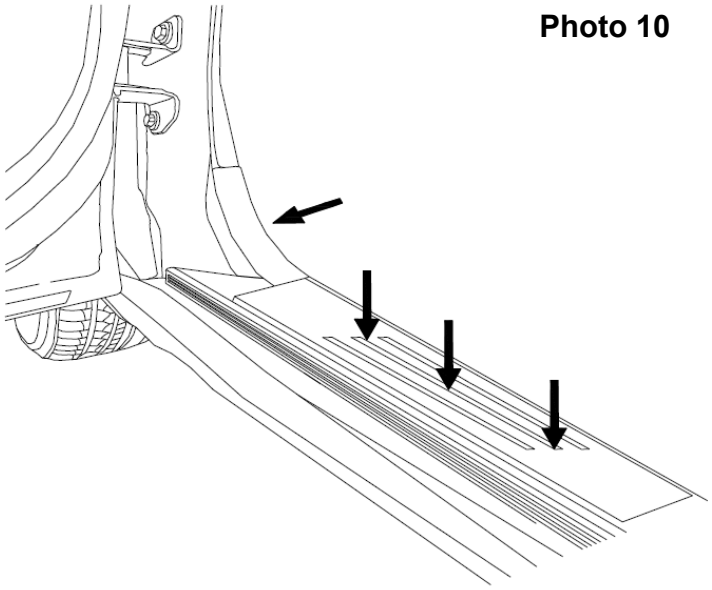


Magnet Placed on the passenger front door.



Magnet Placed on the passenger rear door.

Photo 10



23. Adjust the carpet into place and re-install the B-pillar trim, kick panel and the scuff plate on the driver and passenger side of the vehicle. **See Photo 10.**

24. Using the (On-Off) switch cycle the steps (2-3 Times) leave them in the down position. The switch will be in the (On) position.
25. Tighten the step to the motor bracket using a 5mm Allen to 14ft/lbs.
26. At this time, tighten the M8 x30 motor bracket bolt's using a 10mm socket to 45ft/lbs.
27. Use four (4) of the supplied M6x25mm socket cap screws to attach the board assembly to the driver side motors. Tighten with a 5mm Allen wrench. **See Photo 11.**
28. Repeat for other side of vehicle
29. If the there is an inconsistent gap along the installed board, loosen the rear motor and slide in or out to reduce the gap. If the front motor gap is larger than the rear motor gap, move the rear motor in towards the vehicle. If the rear motor gap is larger than the front motor gap, move the rear motor towards the outside of the vehicle.

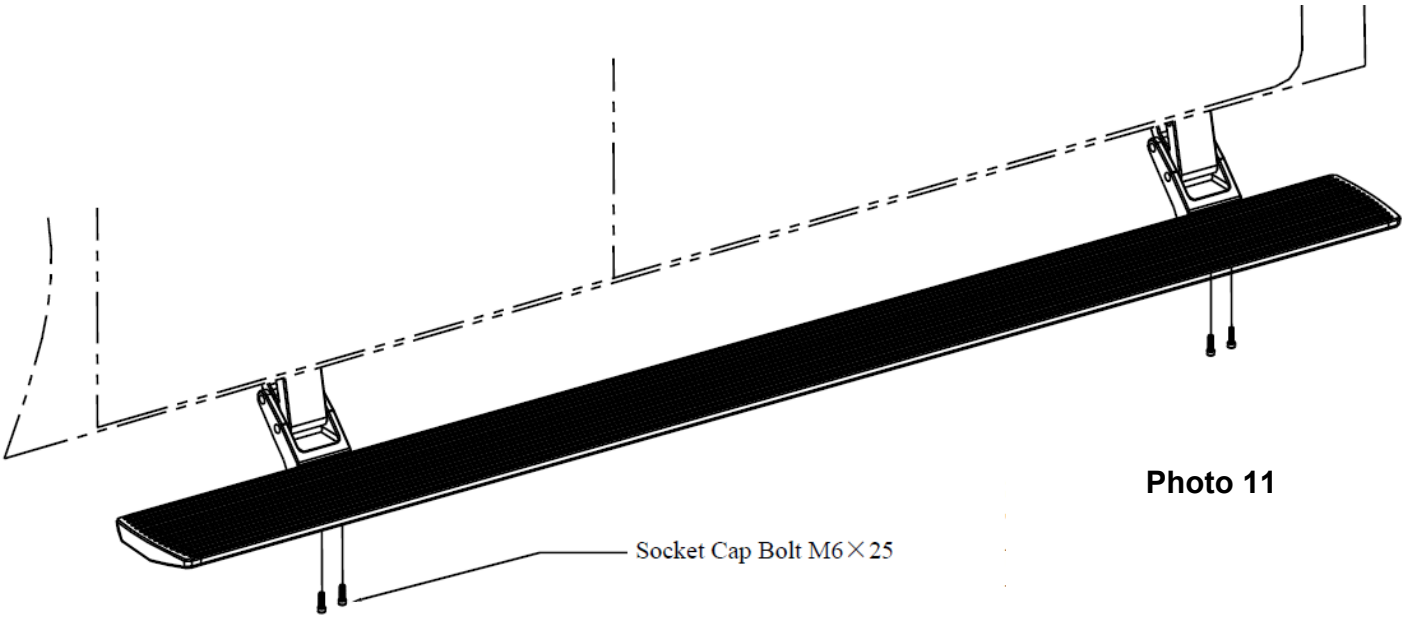


Photo 11

Troubleshooting Guide

Steps not working.

- On/Off Switch in On position
- Check for proper Power and Ground connections to battery
- Check Fuses in the Positive and Negative wires to the battery
- Check Ground connection on Pass and Driver side at B-Pillar
- Check all plugs and connections to ensure they are seated properly and making a good connection

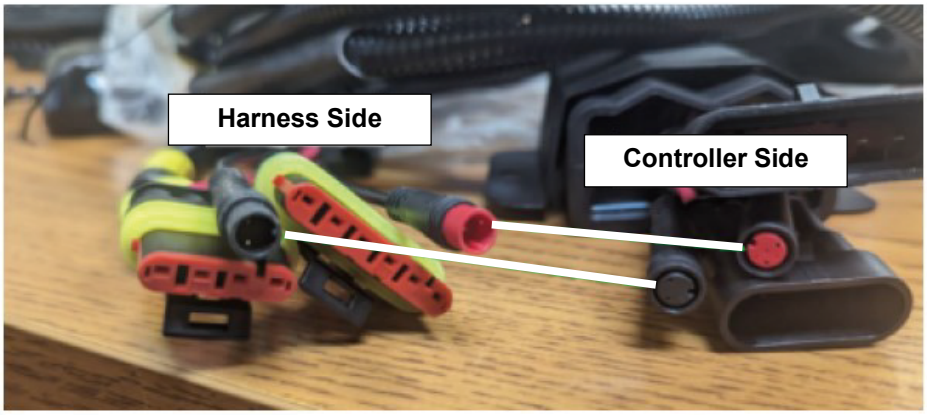
Steps work with On/Off Switch but not with doors opening and closing.

- Check Module to Magnet alignment on doors
- Use a magnet to position over module

Steps drop when door is closed and retract when door is opened.

- Motors will operate in reverse polarity. Check the fused links on the battery for Positive and Negative connection

Light and Step Connection



NOTICE: When connecting the LED light plug between the controller and the wiring harness, it should be noted that the color should be consistent, with red corresponding to red and black corresponding to black.

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

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