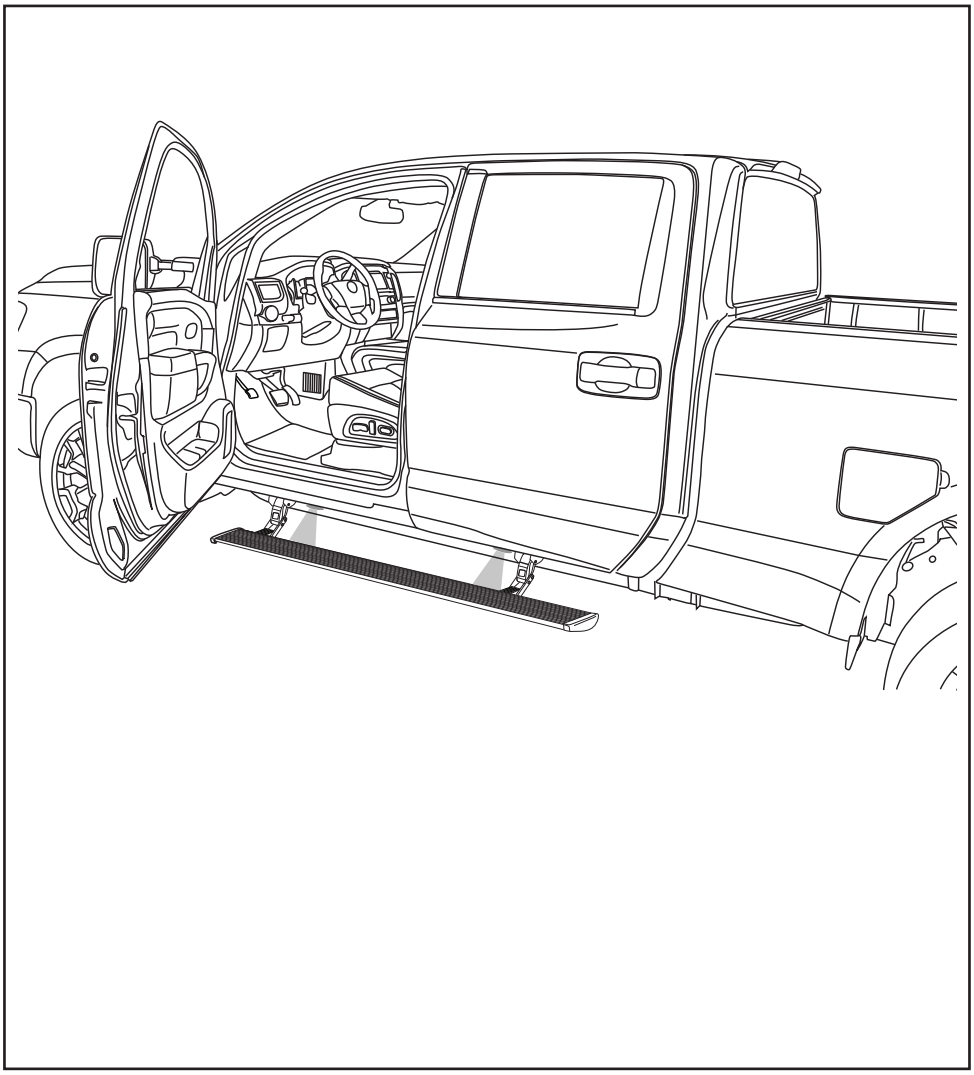
REALTRUCK | AMP RESEARCH

Power Step

APPLICATION	LENGTH	MODEL YR	PART #
Mazda BT50	72”	2019 - 2026	76165-01A
Isuzu D-Max - Crew Cab	72”	2019 - 2026	76165-01A

INSTALLATION GUIDE



INSTALLATION TIME
3-5 Hours
Professional installation recommended

SKILL LEVEL
1 2 3 4
4= Experienced

TOOLS REQUIRED
- ❑ Safety goggles
- ❑ Measuring tape
- ❑ 17/32” Drill bits
- ❑ 10 mm socket
- ❑ 13 mm socket
- ❑ 13 mm ratchet wrench
- ❑ 9/16 Wrench
- ❑ Ratchet wrench and extension
- ❑ Wire crimpers
- ❑ Wire stripper / cutter
- ❑ 3/16” hex key wrench (allen wrench)
- ❑ Electrical tape
- ❑ Weather proof caulking (silicone sealer)
- ❑ Drill
- ❑ Heat Gun
- ❑ Torx Driver T-25

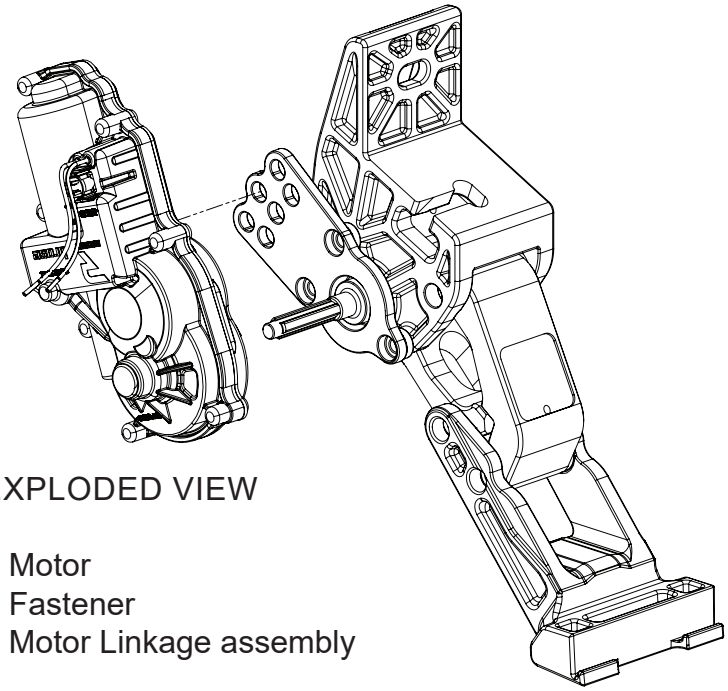
WARRANTY
5-Year Limited Warranty

REALTRUCK TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 8:00 AM - 5:00 PM EST

Designed and manufactured by RealTruck AMP Research® • Made in Mexico
Patent Protected. Please see our product site for applicable patents. www.realtruck.com/b/amp-research/
© RealTruck Group, Inc., 2026 • Five-year limited warranty. • Professional installation is recommended.

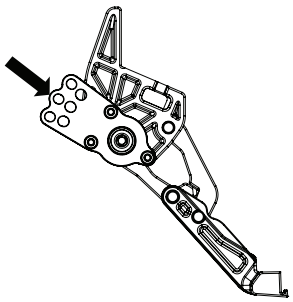
INSTALLATION GUIDE
Attaching motor to Linkage assembly

The motors must be attached to the front Linkages before installation. The Drivers side motor mounts on the opposite side of the linkage as the Passenger side motor does.



EXPLODED VIEW

- Motor
- Fastener
- Motor Linkage assembly



Motor Install Orientation

CAUTION: HANDLE WITH CARE.

To ensure our customers receive all components with full integrity, we pack the motors separate from their Linkage assemblies. This requires that the installer position and fasten the motor before continuing with the install. Please follow the instructions below and handle the assembly carefully.

CAUTION: Dropping the assembly or any excessive impact MAY cause damage to the motor.

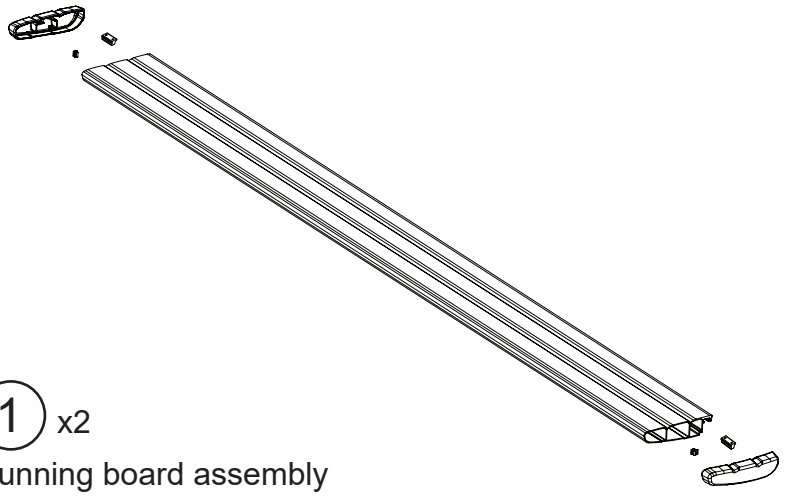
Instructions:
1. Slide motor on to drive shaft. **Note: Make sure to fully seat motor prior to next step.**
2. Fasten motor to the motor mounting plate using supplied PT Screw with T-25 Torx driver. Tighten screw to 60 in-lbs (6.8 N·m). **Do not over torque.**

Note:
The motor and shaft have only three possible positions. Depending on the current position of the motor, it may be necessary to power it in order to align it correctly with the linkage and shaft during assembly so that the motor can be mounted to the mounting plate.
To do this:

1. Power up the motor.
2. Open the door to allow the motor to spin and reposition.
3. Once the motor times out, remove the fuse.
4. Assemble the motor onto the shaft.
5. Fasten motor to mounting plate.

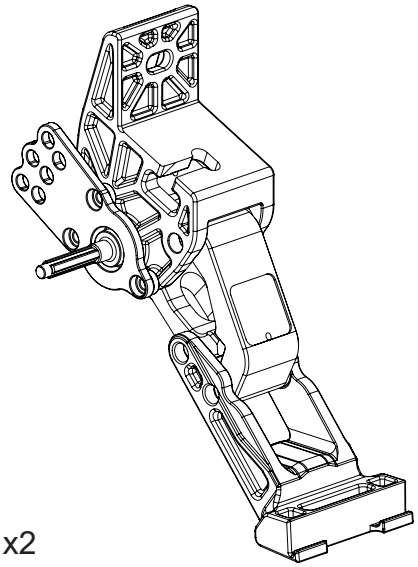
This process may need to be repeated to achieve the correct alignment.

COMPONENT/PARTS IDENTIFICATION

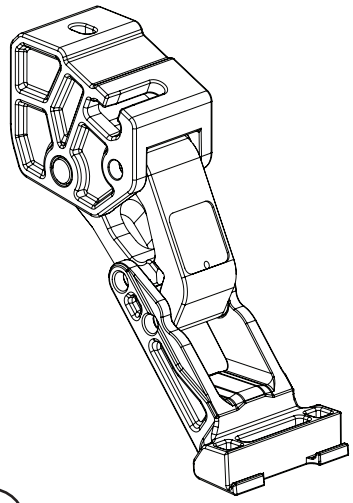


(A) End cap left (x1)
(B) End cap right (x1)
(C) T-nut insert (x2)
(D) (S) Style clips (x2)

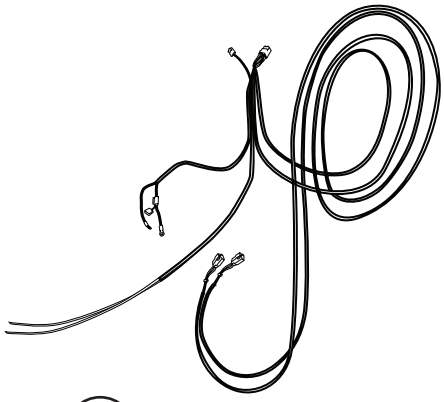
1 x2
Running board assembly



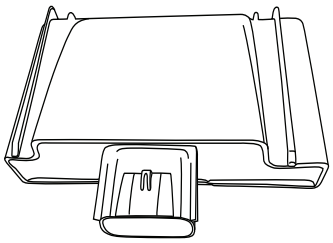
2 x2
Motor Linkage Assembly (Rear)



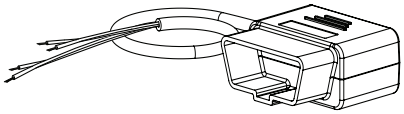
3 x2
Idler Linkage Assembly (Front)



4
Wire Harness

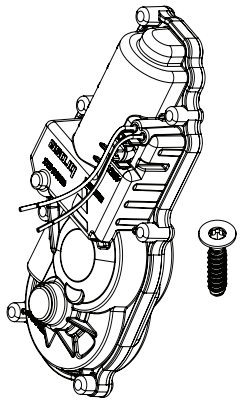


5
Controller SSA

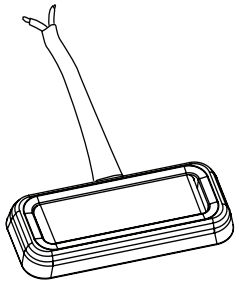


6
ODB II Plug

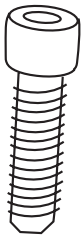
PARTS LIST AND HARDWARE IDENTIFICATION



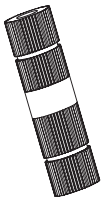
7 x2
Motor Assembly kit



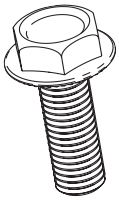
8 x4
LED Lamp



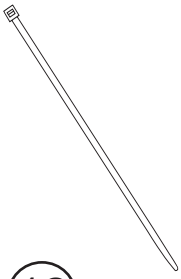
9 x8
Socket Cap Screw



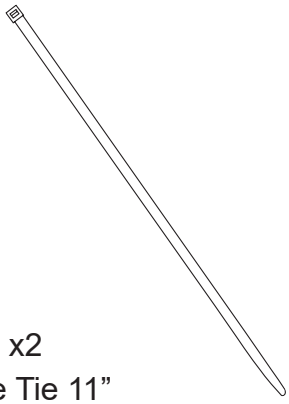
10
Posi-Lock™ (Grey)



11 x 8
Hex Flange Bolt



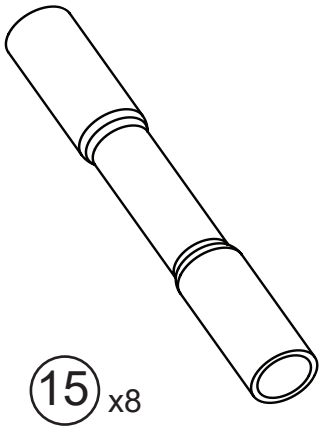
12 x20
Cable Tie 7”



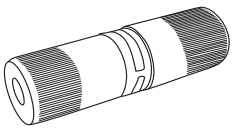
13 x2
Cable Tie 11”



14 x4
Grommet



15 x8
Butt Connector



16 x4
Posi-Tite®

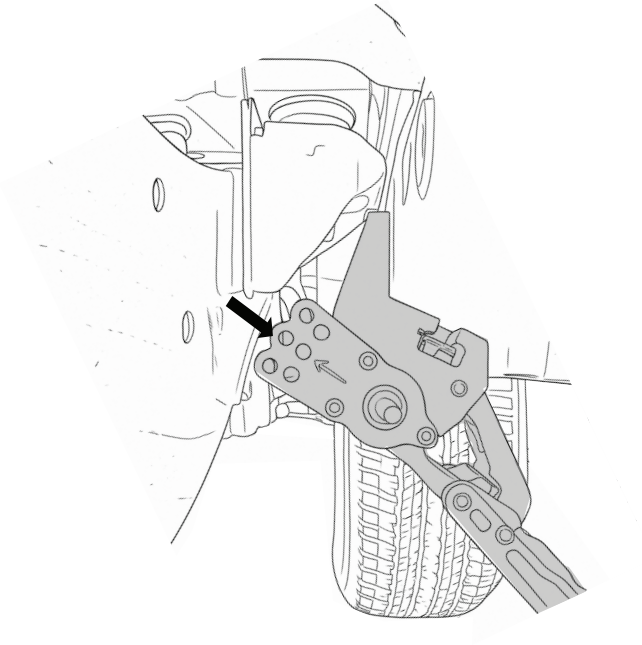


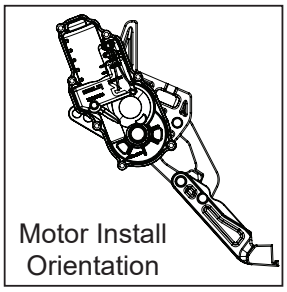
17 x2
Posi-Tap™
(Red/Black)

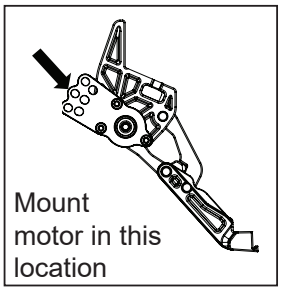
Rear Linkage (Motor Linkage)

Install motor before bolting linkage to the vehicle.
Locate rear Drive Linkage location.
Pre-thread supplied M10 Flange Bolt (11) and hook linkage (2) over bolt as shown. Once linkage is in position thread in rear linkage mounting bolt. Snug up bolts but do not torque.

Note: if motor cannot be aligned to motor mount, see note on page 2.





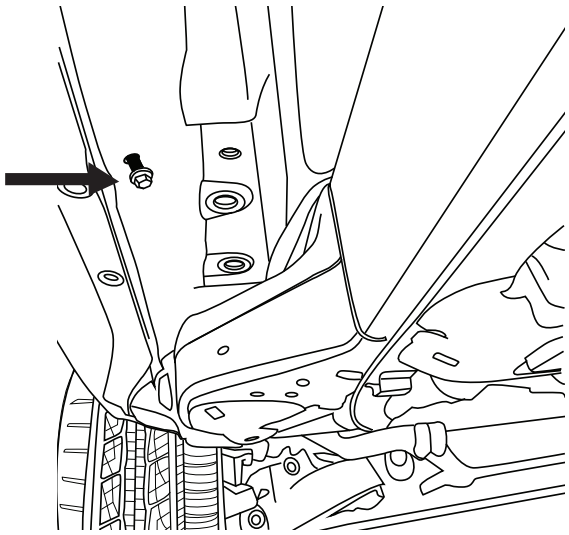


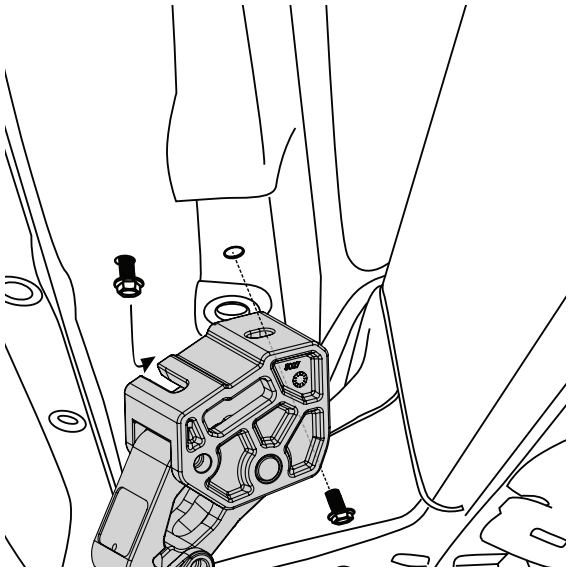
1

Locate Front Idler Linkage location.

Pre thread supplied M10 Flange Bolt (11) and hook linkage (3) over bolt as shown. Once linkage is in position thread in rear linkage mounting bolt (11). Tighten down on the bolts through cut out froum mount. Snug up bolts but do not torque.

Driver Side Shown





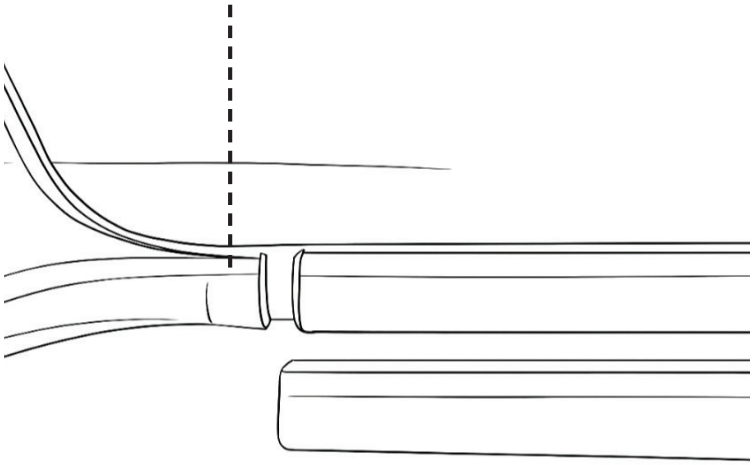
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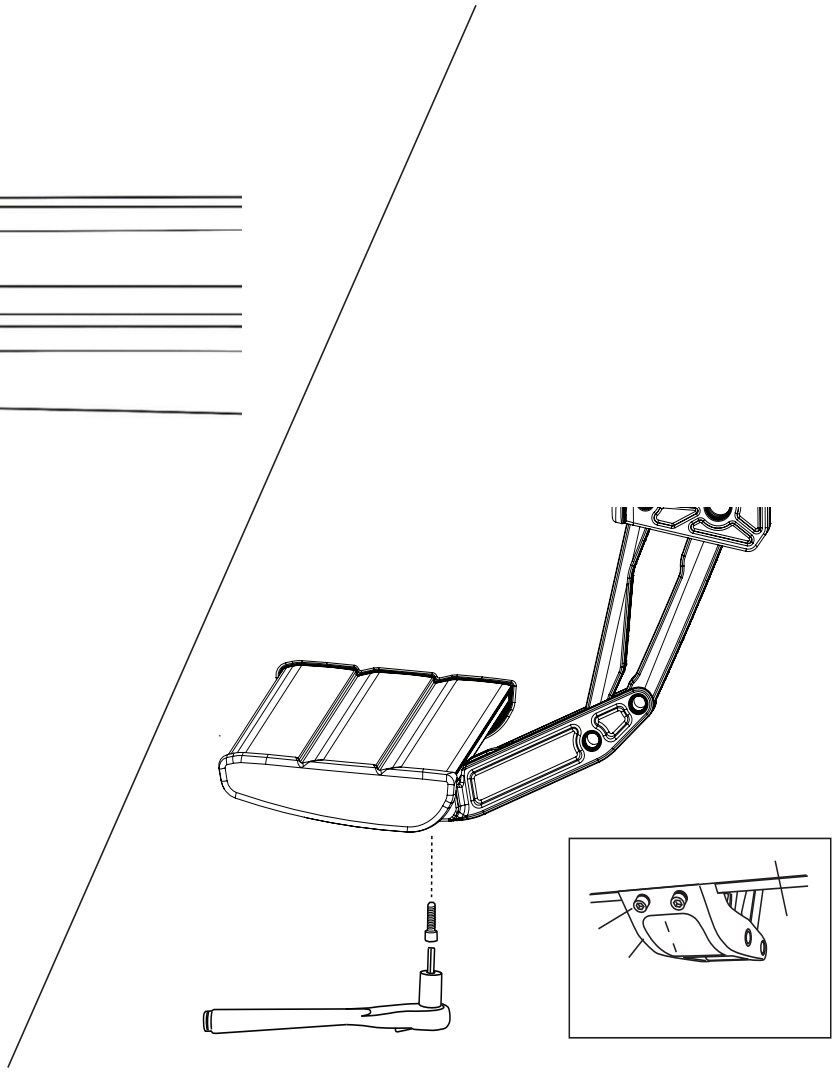
Install Running Board (1) to linkages.
Line up the board to the front door edge.

In order to prevent binding follow the steps below.

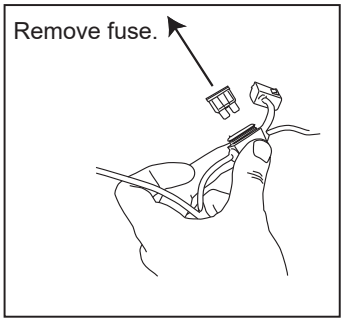
Note: Hand cycle Boards between each step.

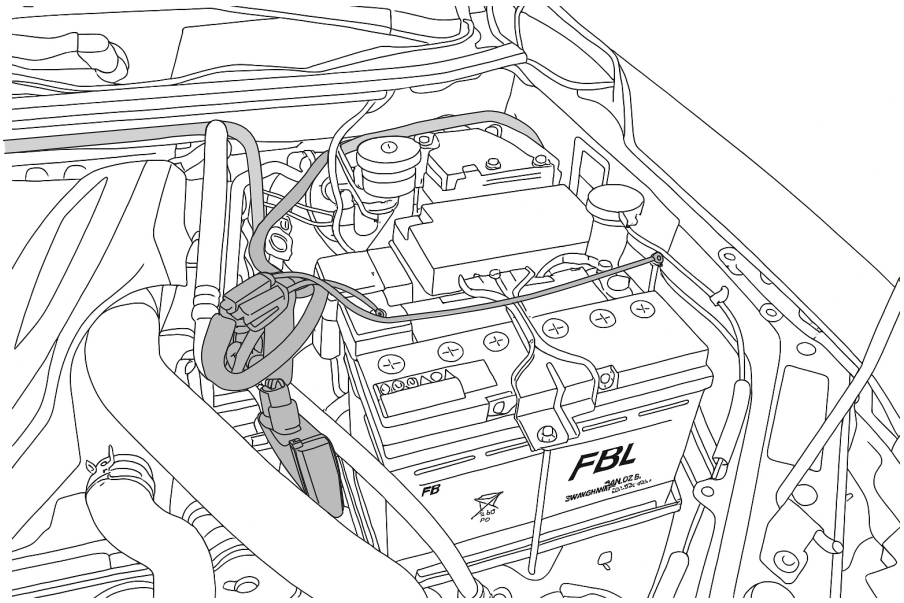
1. Tighten socket cap screws (9) with 3/16” Allen wrench (as shown on step 5). Torque to 10ft-lbs.
2. **Rear Linkage:** Tighten and torque Linkage upper mount bolt closest to pinch weld Torque to 30ft-lbs.
3. **Front Linkage:** Tighten and torque Linkage upper mount bolt closest to pinch weld. Torque to 30ft-lbs
4. **Rear Linkage:** Tighten and torque Linkage upper mount bolt closest to floor of cab. Torque to 30ft-lbs.
5. **Front Linkage:** Tighten and torque Linkage upper mount bolt closest to frame of truck. Torque to 30ft-lbs.
6. **Hand cycle boards to ensure no bind is present.**





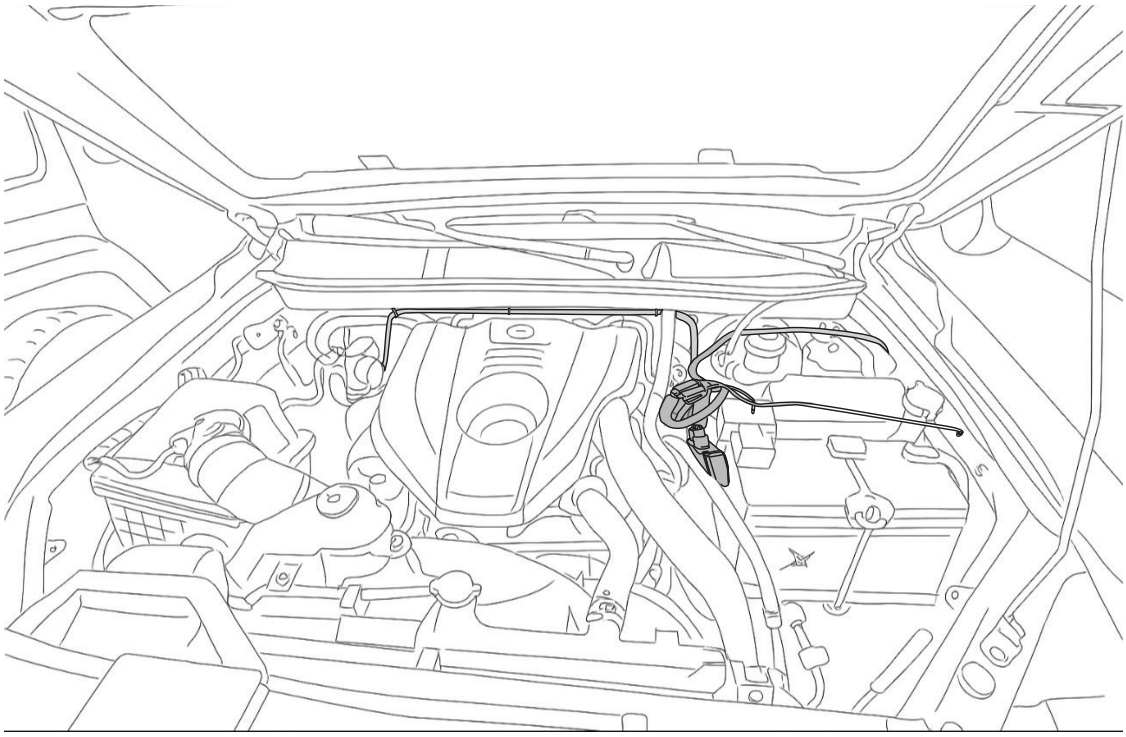
Remove Fuse from powerstep wire harness (4). Mount controller (5) using supplied zip ties (13) to harness in front of battery as shown. Connect positive leads from harness. Red to positive battery terminal and black to negative battery terminal.





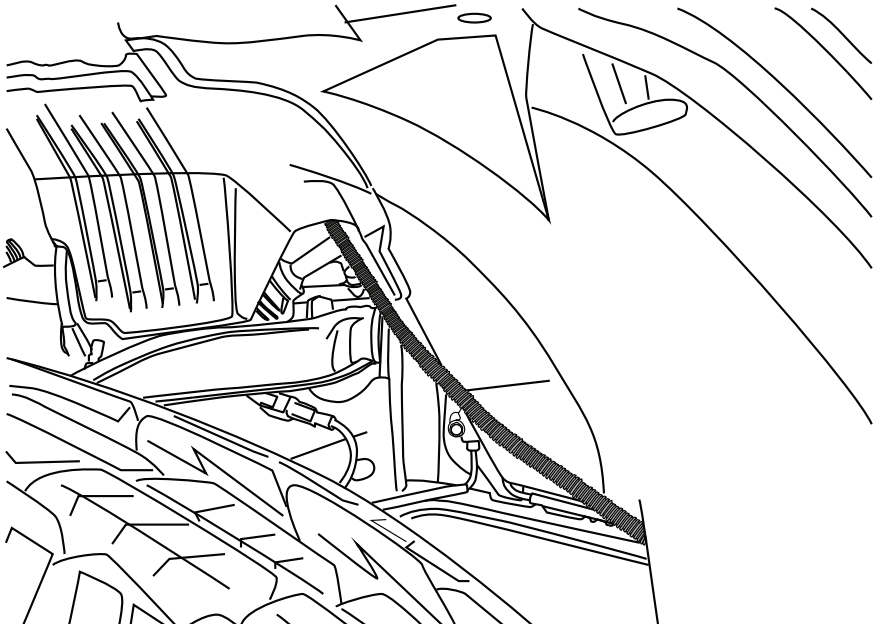
4

Route the two wire harness legs down over to each wheel well. Long leg will run across to passenger side, short leg will run down to driver side, secure with zip ties (12). Ensure loom is free from steering and exhaust components.



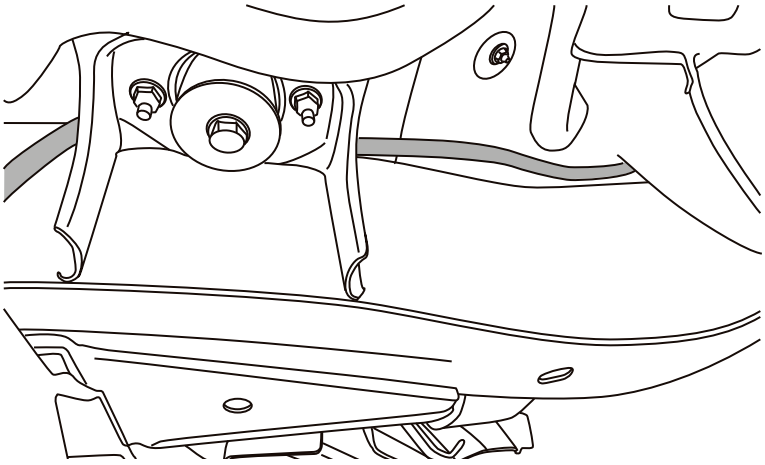
5

Route the two wire harness legs down to the top of the frame rails on each side and keep clear of hot and moving parts. Secure harness behind wheel liners, secure with supplied cable ties.



6

Route the two wire harness legs towards the rear of the vehicle above the body mounts, to the motor and the light locations. The shorter leg will run to the passenger side of vehicle. Secure harness with supplied tie wraps.



Route the Driver side wire harness leg towards the rear of the vehicle above the body mount and to the large holes on the side of the frame. Secure with supplied tie wraps. Then wire the motor to the harness using instructions in step 8. Use method A for driver side; method B for passenger side.

Note: If motors are moving in opposite direction after wiring; switch wiring configuration on either passenger or driver side to correct this issue.

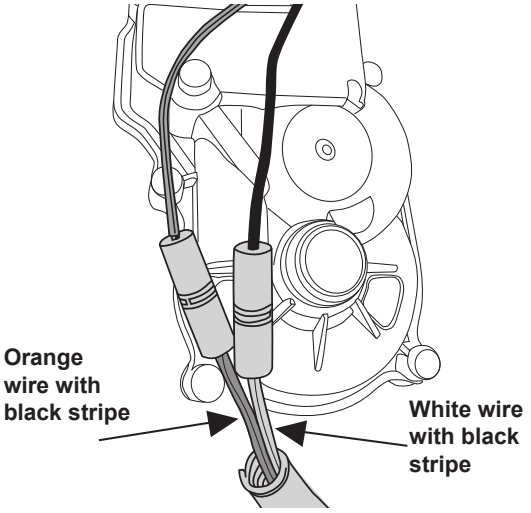
7

Use method A for wiring both passenger and driver motor

A. Motor spinning the shaft clockwise direction:

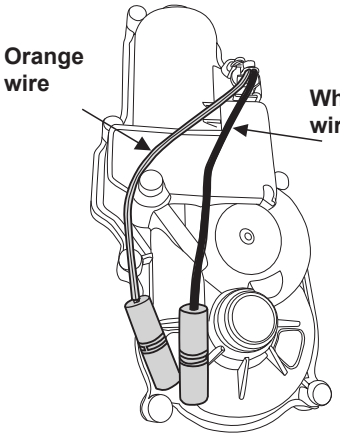
1) First, install one Posi-Tite® (16) onto white wire from the motor. See image on right.

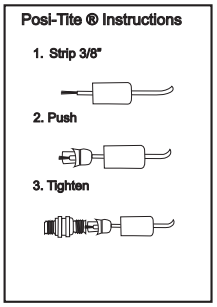
2) Install second Posi-Tite® (16) onto orange wire from motor. See image on right.



3) Next, connect the white wire with black stripe from the wire harness to the other end of the Posi-Tite® (16) that is connected to the all white wire from first step above.

4) Connect the Posi-Tite® (16) the orange wire from the motor with the orange with black stripe wire from the harness.

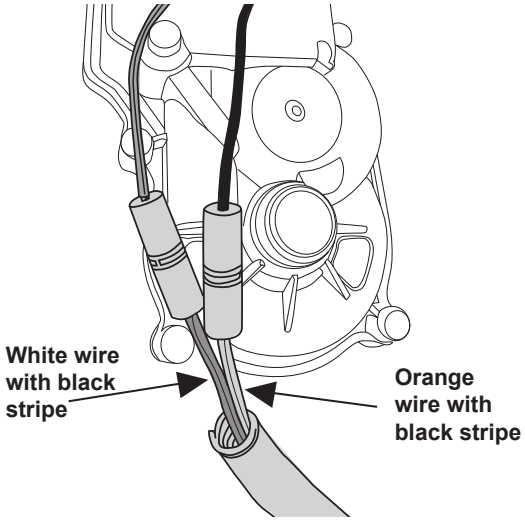




B. Motor spinning the shaft counter clockwise direction:

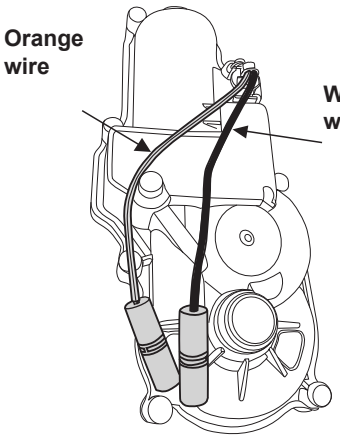
1) First, install one Posi-Tite® (16) onto white wire from the motor. See image on right.

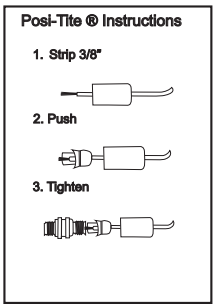
2) Install second Posi-Tite® (16) onto orange wire from motor. See image on right.



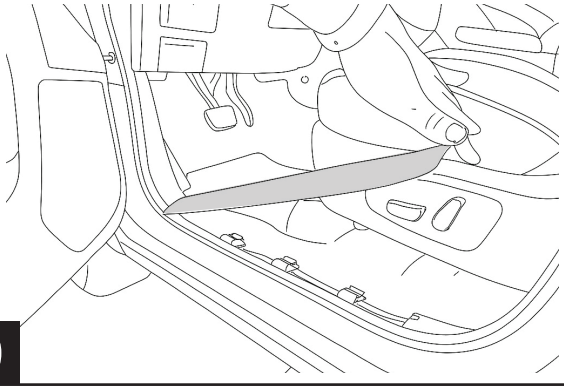
3) Next, connect the orange wire with black stripe from the wire harness to the other end of the Posi-Tite® (16) that is connected to the all white wire from first step above.

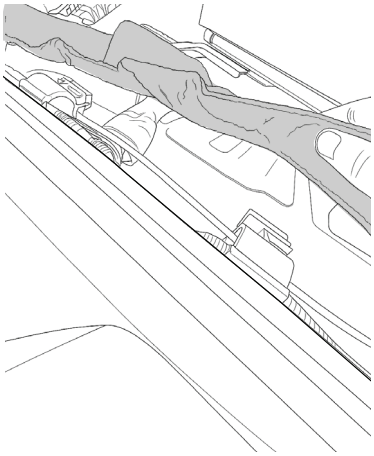
4) Connect the Posi-Tite® (16) the orange wire from the motor with the white with black stripe wire from the harness.





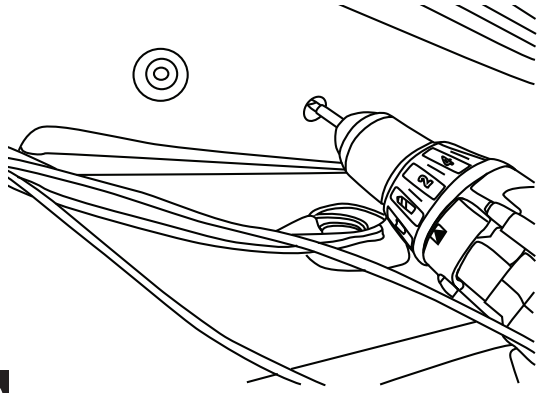
Remove floor mat and sill plate cover to expose floor below.

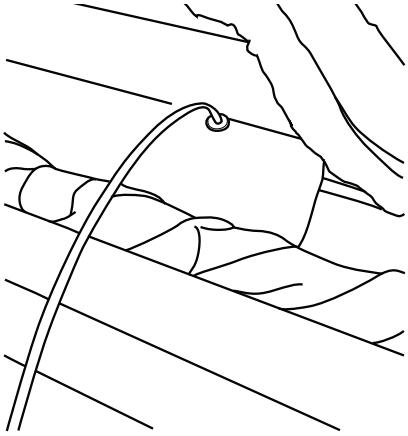




9

Locate hole forward of rubber plug. Approx location is in footwell area of cab. Use a 9/32” drill bit and drill thru floor. While drilling lift carpet to ensure drill bit does not damage carpet inside cab. Insert provided grommet (14) and run trigger wire thru hole. Route wires towards kick panel area.



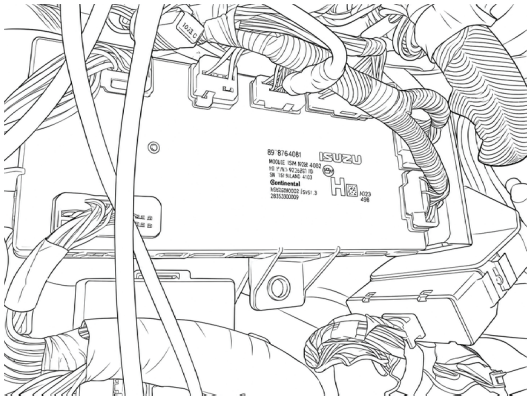


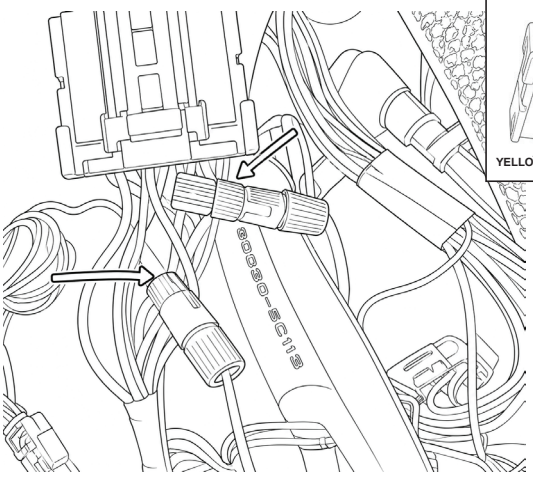
10

Disconnect battery to avoid check engine light.

Locate white plug on left side wall and unplug it to gain access. Using supplied posi-taps connect white wire on the DSM to the blue wire on the factory plug.

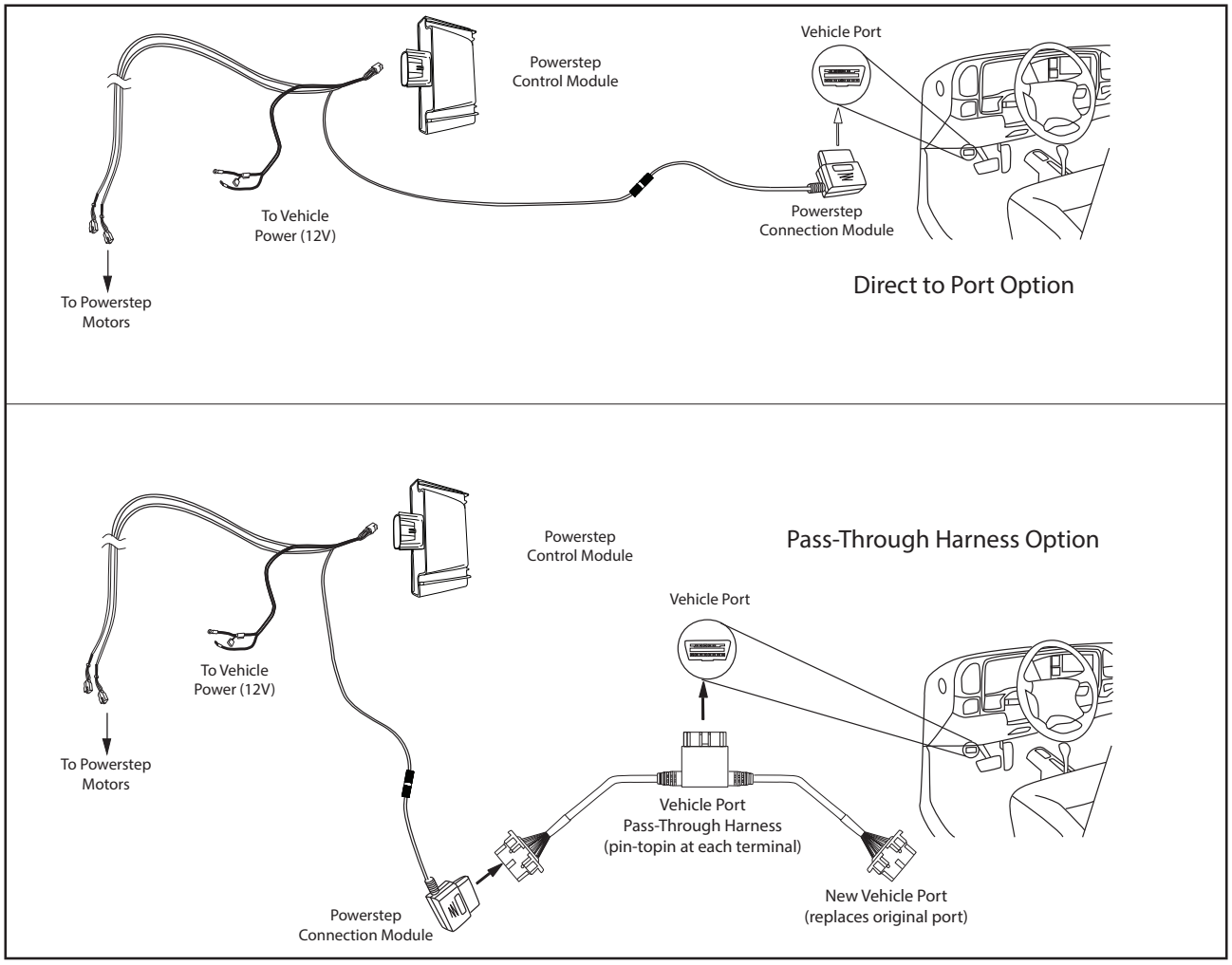
Next connect blue wire from the DSM to the yellow wire on the factory plug.



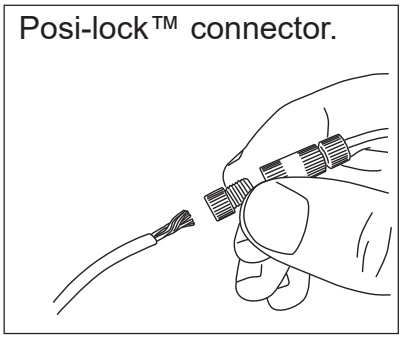


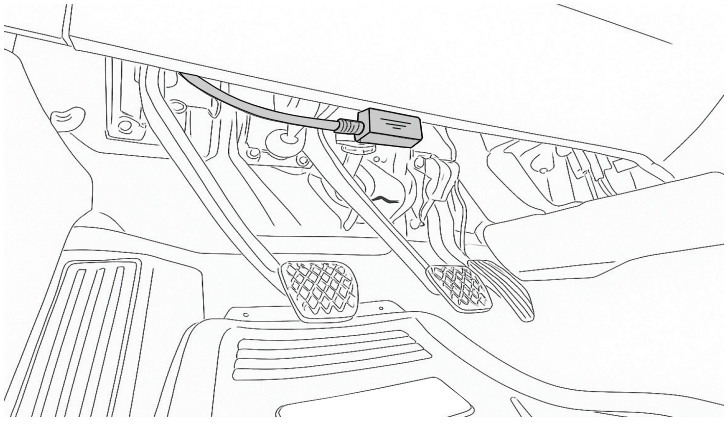
11

OBD II install: Use Supplied Posi-lock™ (10) connector to attach the Plug and Play Module to the Harness. Attach matching colors on the harness to the wires on the module. ***Note: If the OBD II pass thru harness (76405-01A) was purchased see install sheet supplied in packaging. The pass through harness allows for an open port for other accessories. See below for images with brief descriptions.***

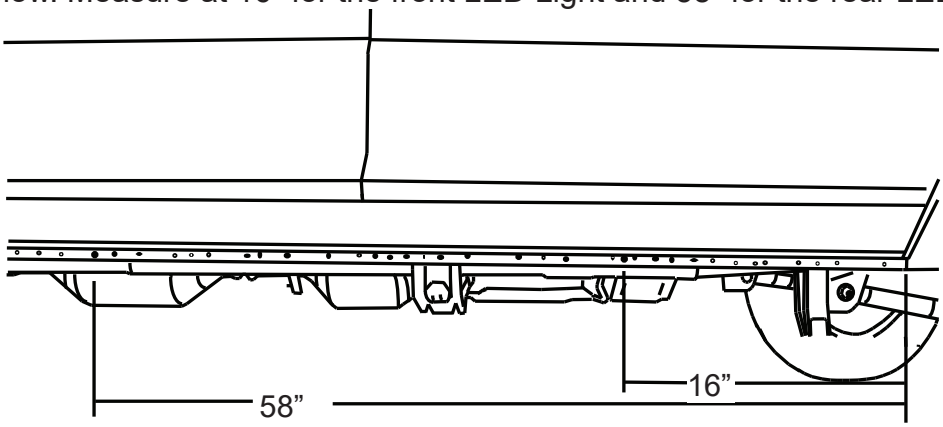


Plug in module (6) to OBD port on the vehicle. Secure harness with supplied tie wraps (12). Reinstall sill plate removed from step 10.



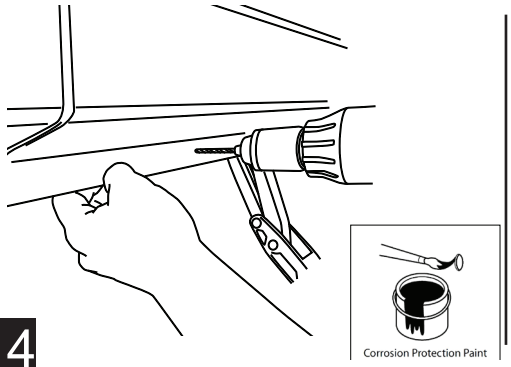


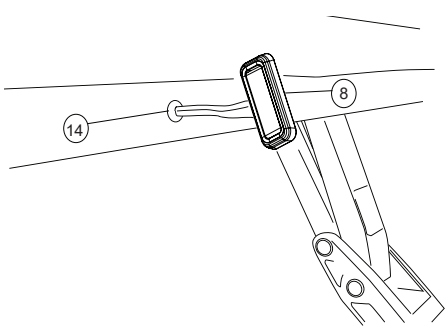
On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 16” for the front LED Light and 58” for the rear LED Light.

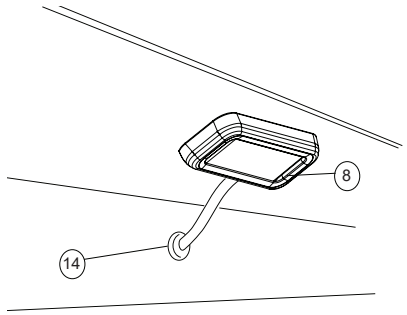


13

- Drill a 9/32” hole through the pinch weld at marked locations. Deburr all holes. After drilling apply paint to holes to prevent rusting.
- Insert grommet (14) into drilled holes. Insert lamp (8) wires through the grommets. (Silicon lube will help wires slip through grommets).
- Affix lamp to rocker panel surface. Make sure lamp is affixed to a flat, clean surface.

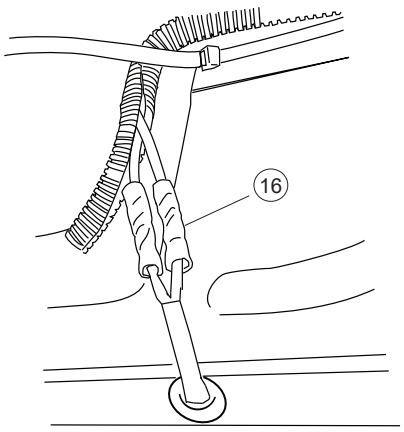


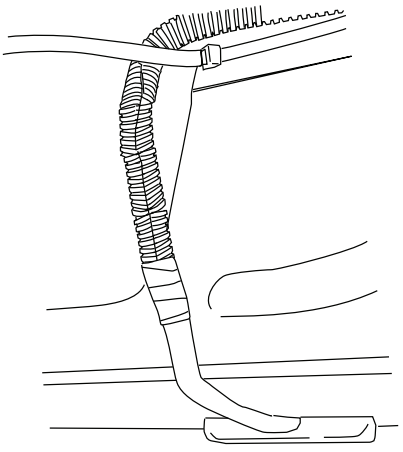




14

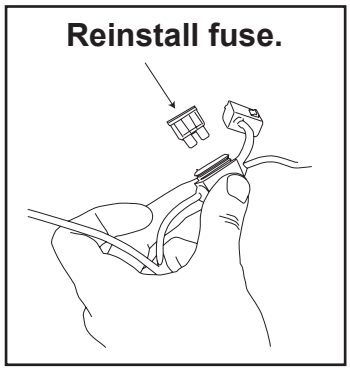
Using supplied butt connectors (16), connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube. Close and wrap with conduit and electrical tape. Secure all loose wires with cable ties, with lamp wires pulled upward to avoid any wire snagging.

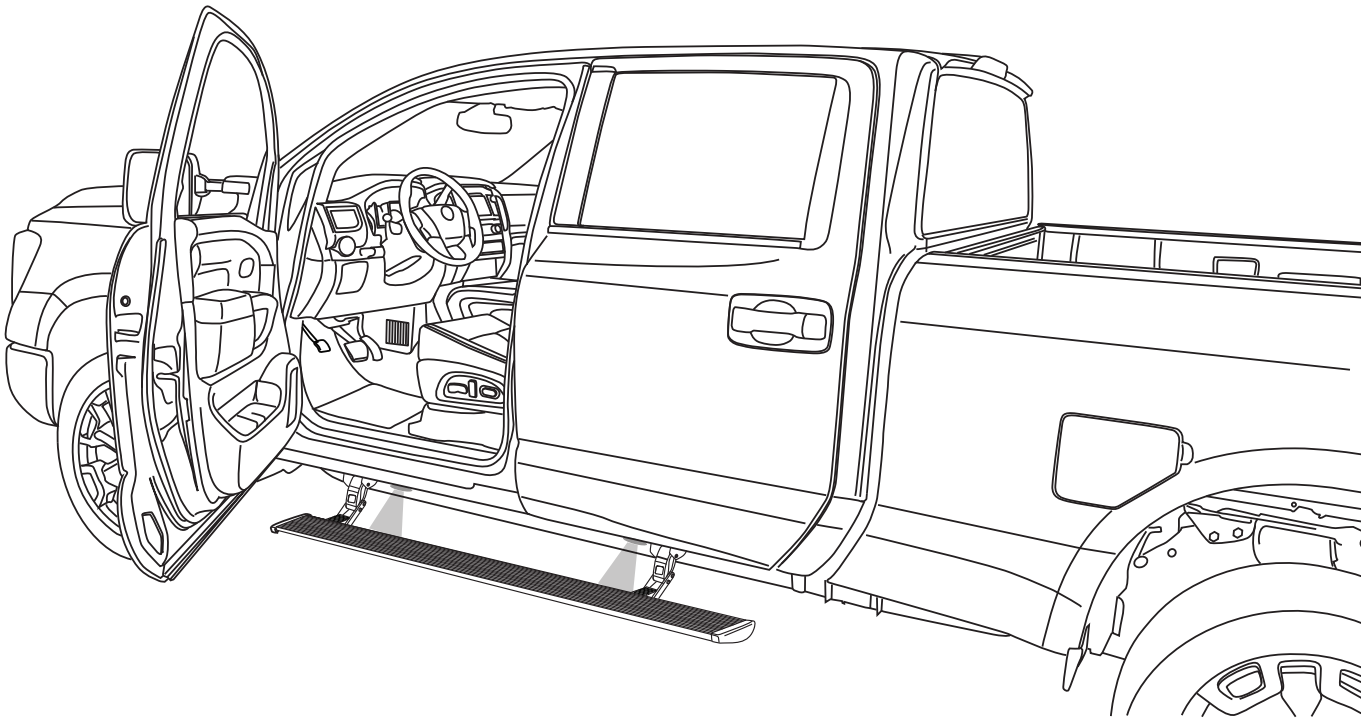




15

Reinstall fuse. Check that all doors activate the Power Step and the LED Lights work when doors open and close. Reinstall any remaining trim panels.





FINAL SYSTEM CHECK
Check that all doors activate the PowerStep and the LED lights work when doors open and close.
NORMAL OPERATION: When the doors open, PowerStep automatically deploys from under the vehicle. When the doors are closed, PowerStep will automatically return to the stowed/retracted position. ***Note that there is a 2-second delay before the PowerStep returns to the stowed/retracted position.***

CORRECT OPERATION OF LIGHTS: All four lamps will illuminate upon opening any door of vehicle. Lamps will stay on until restowing of both Power Steps or until 5 minutes has expired with the doors open. When the lights timeout after 5 minutes, they can be reillumintated by closing and opening any door of vehicle.

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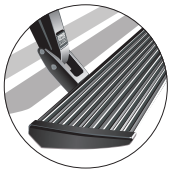
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REALTRUCK AMP RESEARCH PowerStep

Congratulations on your purchase of the genuine RealTruck / AMP Research PowerStep! Here's what you should know...

POWER-DEPLOYABLE RUNNING BOARDS OPERATION: RealTruck / AMP Research PowerStep running boards automatically move when the doors are opened to assist entering and exiting the vehicle.



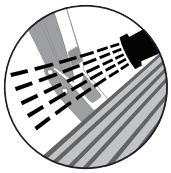
Automatic power deploy:
The running boards will extend down and out when the doors are opened.

Automatic power stow:
The running boards will return to the stowed position when the doors are closed. There will be a 2-second delay before the running boards move to the stowed position.



Automatic stop:
If an object is in the way of the moving running board, the running board will automatically stop. To reset, clear any obstruction, then simply open and close the door to resume normal operation.

Manually set in the deployed (OUT) position for access to the roof:
The running boards can be manually set in the deployed position by firmly holding the step down with your foot while at the same time closing the door. To resume normal operation, open and close the door.



Maintenance: In adverse conditions, debris such as mud, dirt, and salt may become trapped in the running board mechanism, possibly leading to unwanted noise. If this occurs, manually set the running boards to the deployed position and flush the front and rear hinge arms with a high-pressure car wash wand. Avoid spraying the motors directly. After washing, apply silicone spray lubricant to the hinge pivot pins. Do not apply silicone, wax or protectants like Armor All® to the running board stepping surface.

Caution! Keep hands away when the running board is in motion.

5-YEAR LIMITED WARRANTY

RealTruck / AMP RESEARCH warrants this product to be free from defects in material and workmanship for FIVE (5) YEARS FROM DATE OF PURCHASE, provided there has been normal use and proper maintenance. This warranty applies to the original purchaser only. All remedies under this warranty are limited to the repair replacement of the product itself, or the repair or replacement of any component part thereof, found by the factory to be defective within the time period specified. The decision to repair or replace is wholly within the discretion of the manufacturer.

This warranty specifically excludes labor. If you have a warranty claim, first you must call our factory at the number below for instructions. You must retain proof of purchase and submit a copy with any items returned for warranty work. Upon completion of warranty work, if any, we will return the repaired or replaced item or items to you freight prepaid. Damage to our products caused by accidents, fire, vandalism, negligence, misinstallation, misuse, acts by nature or by defective parts not manufactured by us, is not covered under this warranty.

ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE CREATED HEREBY ARE LIMITED IN DURATION TO THE SAME DURATION AND SCOPE AS THE EXPRESS WRITTEN WARRANTY. OUR COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

FOR WARRANTY ISSUES WITH THIS PRODUCT PLEASE CALL REALTRUCK TECH SUPPORT 1-888-983-2204

WARNING

Be sure to read and precisely follow the provided instructions when installing this product. Failure to do so could place the vehicle occupants in a potentially dangerous situation. After installing or reinstalling, re-check to insure that the product is properly installed.