

### APPLICATION

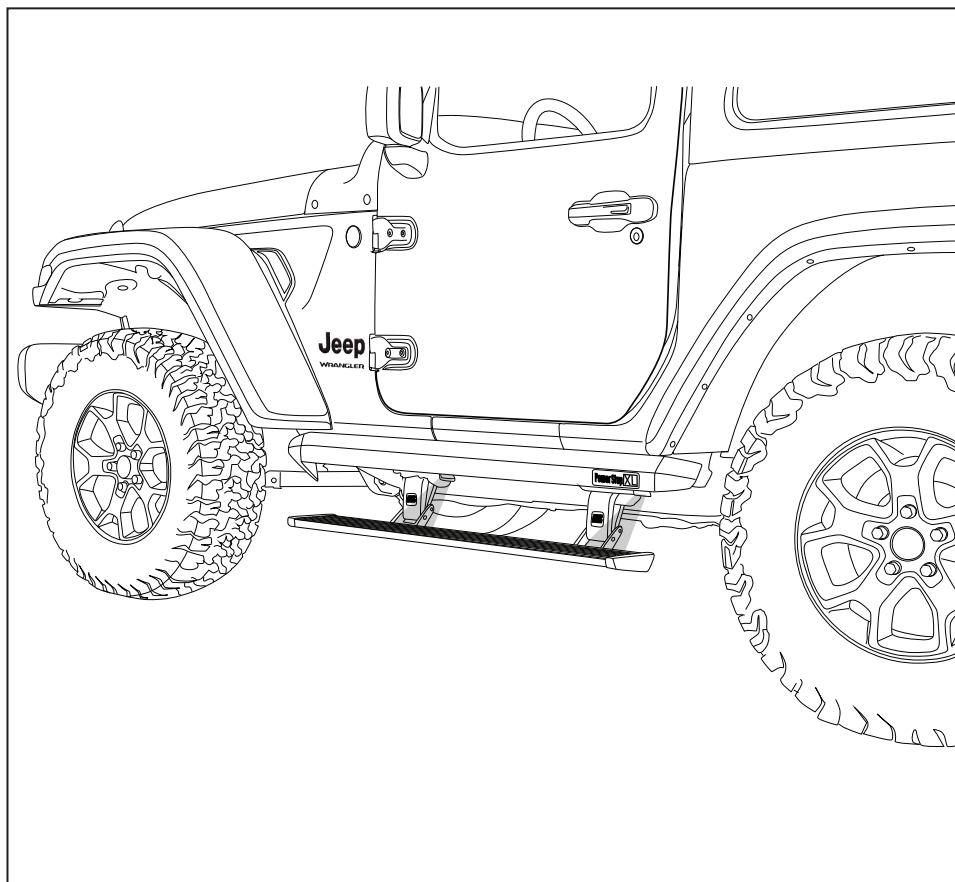
Jeep Wrangler JL 2Dr

2018 - 2026

### AMP Part #

77133-01A

## INSTALLATION GUIDE



**NEW Brose 2 Motor Design**

### INSTALLATION TIME

**3-5 Hours**

Professional installation recommended

### SKILL LEVEL



4= Experienced

### TOOLS REQUIRED

- ☐ Safety goggles
- ☐ Measuring tape
- ☐ 10 mm socket
- ☐ 13 mm socket
- ☐ 1/2" socket
- ☐ Ratchet wrench and extension
- ☐ Wire crimpers
- ☐ Wire stripper / cutter
- ☐ 3/16" hex key wrench (allen wrench)
- ☐ 4mm hex key wrench ( allen wrench )
- ☐ Electrical tape
- ☐ Weather proof caulking (silicone sealer)
- ☐ Silicone spray
- ☐ Drill
- ☐ Drill bit 3/16"
- ☐ Torx T-25 Driver
- ☐ Heat Gun

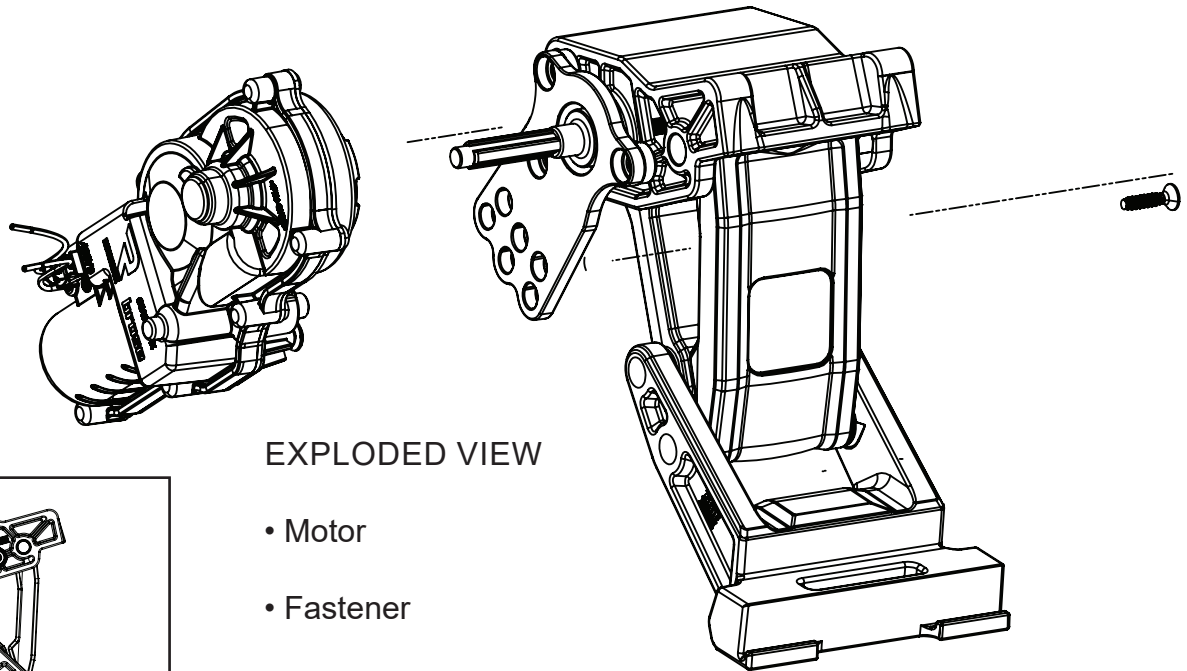
### WARRANTY

**5-Year Limited Warranty**

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

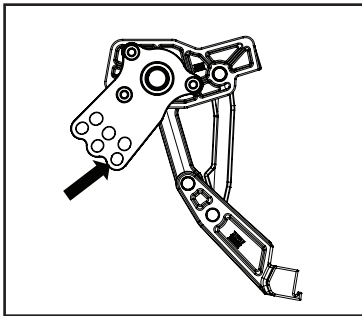
Designed and manufactured by RealTruck AMP Research® • Made in Mexico  
Patent Protected. Please see our product site for applicable patents. [www.realtruck.com/b/amp-research/](http://www.realtruck.com/b/amp-research/)  
© RealTruck Group, Inc., 2025 • Five-year limited warranty. • Professional installation is recommended.

The motors must be attached to the linkage before mounting to vehicle.



EXPLODED VIEW

- Motor
- Fastener



### 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.
2. Rotate motor by hand while on the shaft to position it to the mounting plate (orientation as shown above).
3. 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:

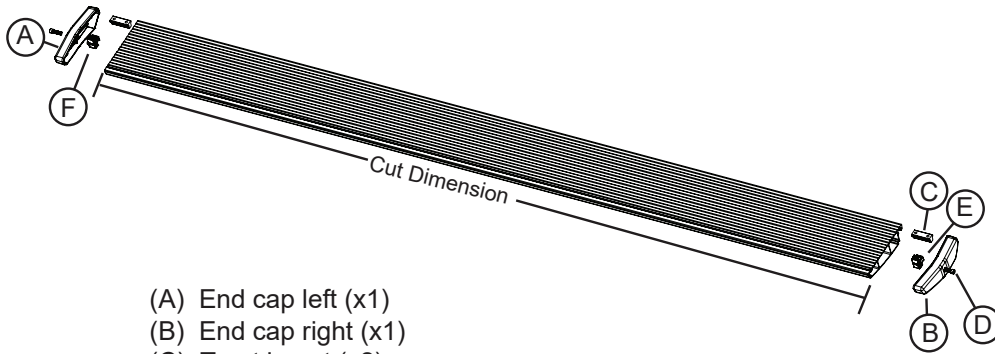
The motor and shaft have only three possible positions. Depending on the current position of the motor, motor/shaft and the orientation of the motor plate, it may be necessary to power it in order to align it correctly with the linkage and shaft during assembly so that the motor can be mounted to the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

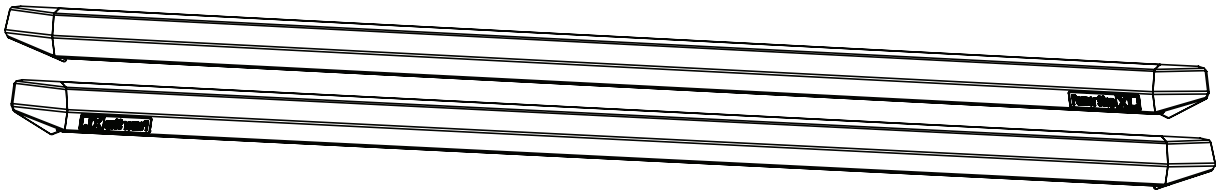
This process may need to be repeated to achieve the correct alignment.

## PARTS LIST AND HARDWARE IDENTIFICATION



- (A) End cap left (x1)
- (B) End cap right (x1)
- (C) T-nut insert (x2)
- (D) Socket cap screw (x2)
- (E) End cap wedge right (x1)
- (F) End cap wedge left (x1)

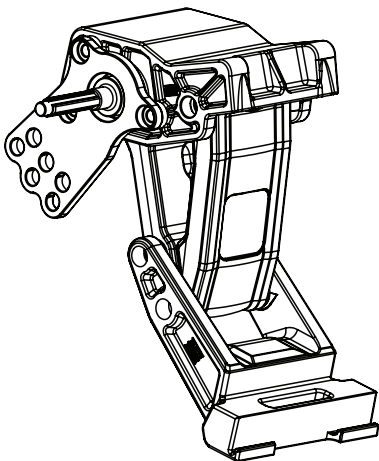
1



2

x2

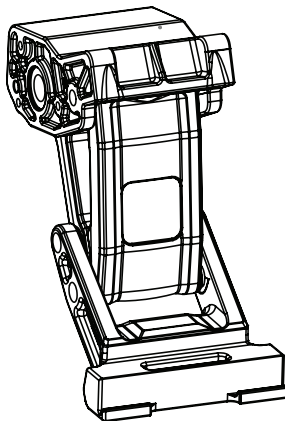
Rail Assembly



3

x2

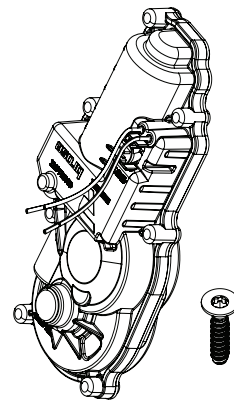
Motor Linkage assembly  
Driver



4

x2

Idler Linkage assembly

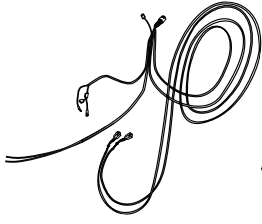


5

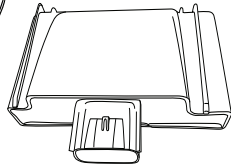
x2

Motor Assembly kit

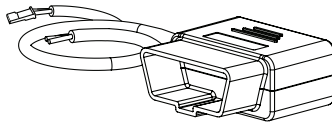
## PARTS LIST AND HARDWARE IDENTIFICATION



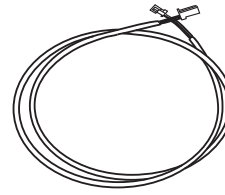
**6**  
Wire harness



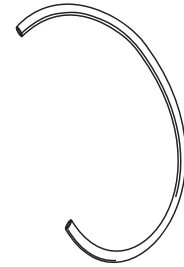
**7**  
Controller SSA



**8**  
OBD Module



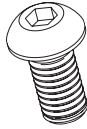
**9**  
OBD Module  
extension



**10**  
Tube (Installation  
Tool)



**11**  
Posi-Lock®



**12** x2  
M8 Button  
Head Bolt



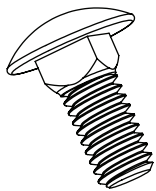
**13** x6  
M6 Flange  
Bolt



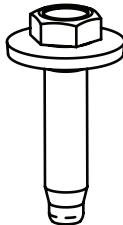
**14** x4  
5/16 Flange  
Bolt



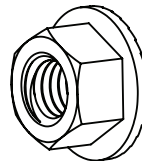
**15** x8  
Socket Cap  
Screw



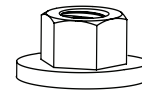
**16** x12  
5/16-18  
Carriage Bolt



**17** x12  
M8 Hex Bolt w  
Conical washer



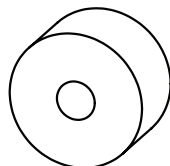
**18** x16  
5/16-18  
Flange Nut



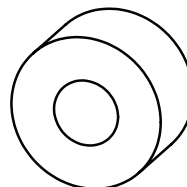
**19** x2  
Nut with Conical  
Washer



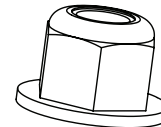
**20** x2  
Washer



**21** x4  
Upper Mount  
Spacer

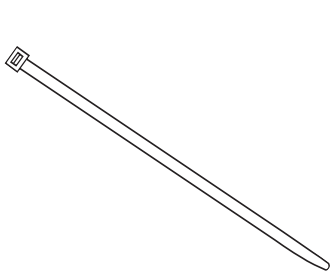


**22** x2  
Mount  
Spacer

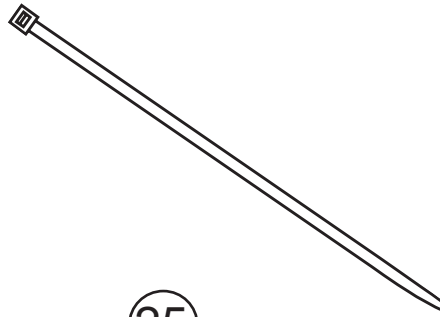


**23** x2  
M6 Nut

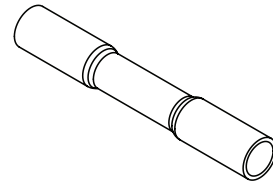
## PARTS LIST AND HARDWARE IDENTIFICATION



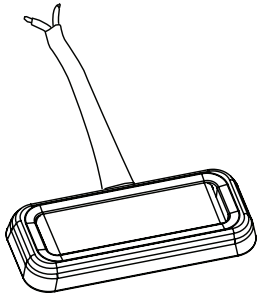
**24** x20  
Cable tie (7")



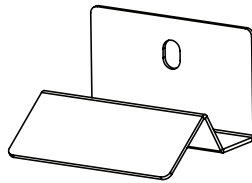
**25** x2  
Cable tie (11")



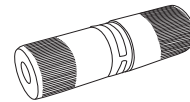
**26** x8  
Butt Connector



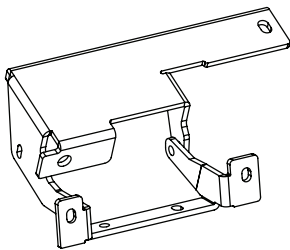
**27** x4  
LED Lamp



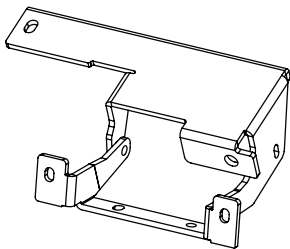
**28** x4  
LED Light Bracket



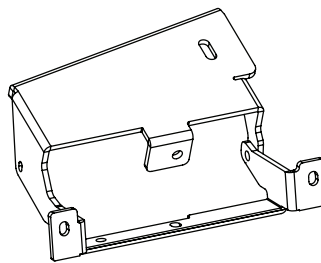
**29** x4  
Posi-Tight



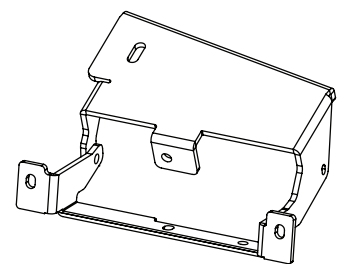
**30**  
Passenger Front  
mounting bracket



**31**  
Driver Front  
mounting bracket

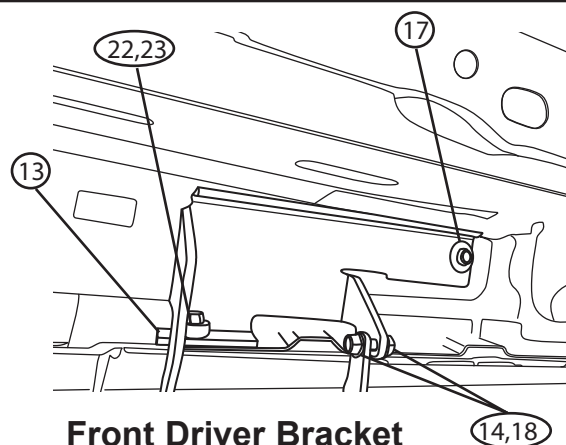


**32**  
Passenger Rear  
mounting bracket



**33**  
Driver Rear  
mounting bracket

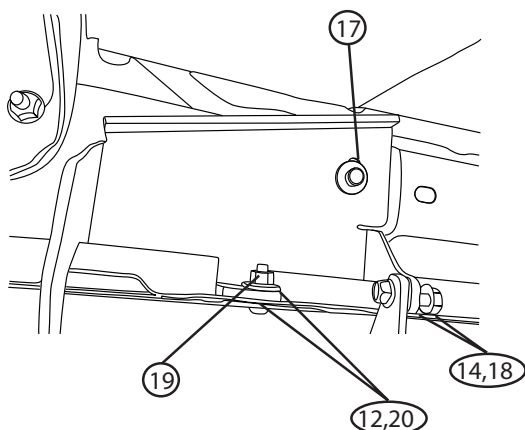
**Driver side, front bracket Assembly:** Use Front driver mounting bracket (31). Remove factory fender bolt using a 10mm socket or wrench. Next set bracket into position slide bracket over existing rivet nut on pinch weld. Insert provided M6 Flange bolt (13) and tighten to 8 ft-lbs. Use provided spacer (22) and M6 Nylock nut (23) assemble over rivet nut and finger tighten. Use provided M8 Conical washer bolt (17) and finger tighten. Tighten M6 nut and M8 Conical washer bolt simultaneously. Torque nut to 8 ft-lbs and conical washer bolt to 16 ft-lbs. Assemble Flange Bolt (14) with nut (18) and torque to 16 ft-lbs. Repeat on passenger side with bracket (30) following instructions above.



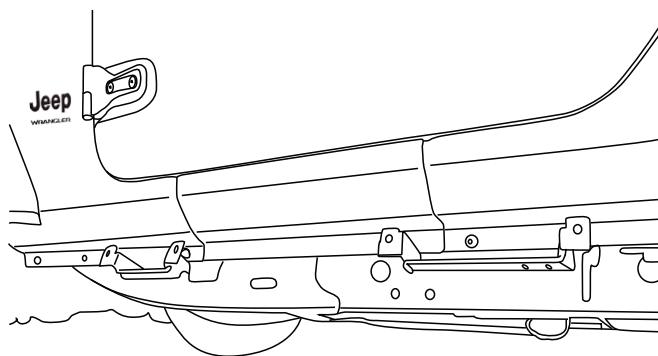
**Front Driver Bracket**

1

**Rear bracket Assembly:** Starting on driver side, use rear bracket (33). Use provided button head bolt (12) and washer (20) with captive washer nut (19) on pinch weld. Assemble hardware loosely. Next use provided captive washer bolt (17) to attach bracket to underside of body. Torque to 16 ft-lbs. Assemble Flange Bolt (14) with nut (18) and torque to 16 ft-lbs. Repeat on passenger side use all the same hardware as above, with rear bracket (32).



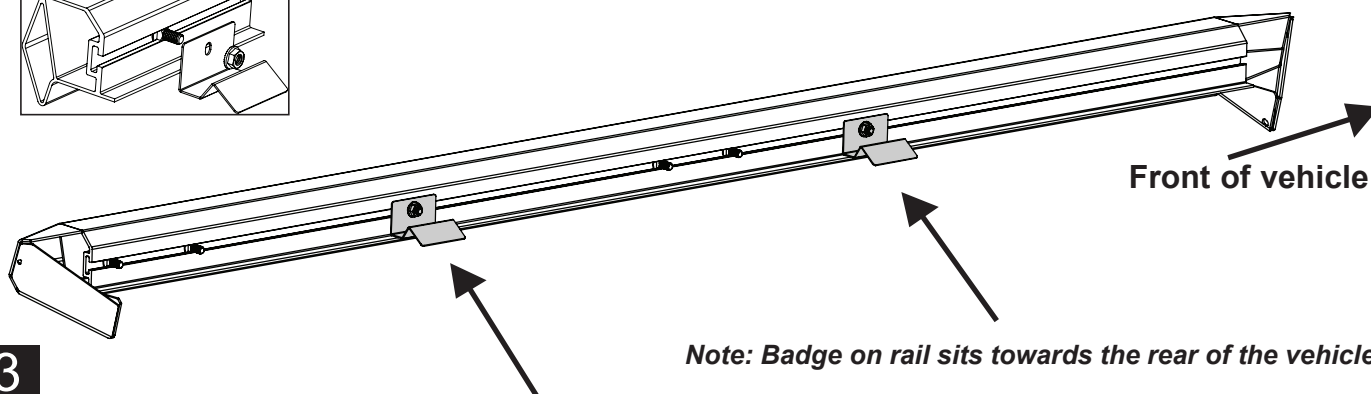
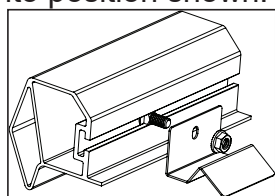
**Driver Rear Bracket**



**Brackets assembled Driver Side**

2

Slide 6 carriage bolts (16) into rail pocket of driver side rail. Add Light Bracket (28) to the 1st and 4th bolt counting from the front side. Insert Flange Nut (18) onto bracket tab to attach light brackets into position shown. Leave loose to allow for adjustment.



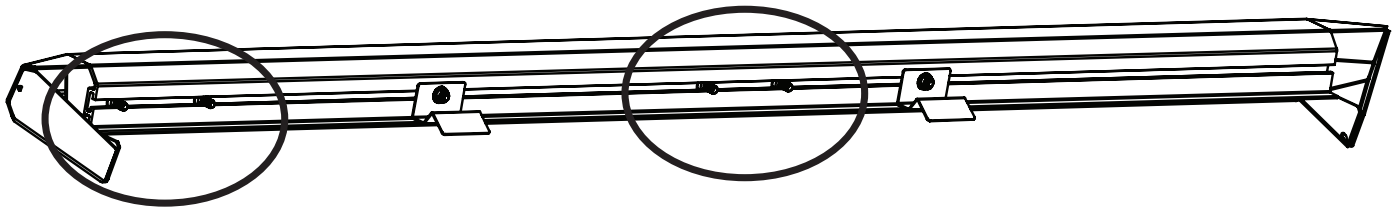
3

**Note: Badge on rail sits towards the rear of the vehicle!**

Adjust bolts and slide over brackets. Use supplied flange nuts and attach rail to brackets.

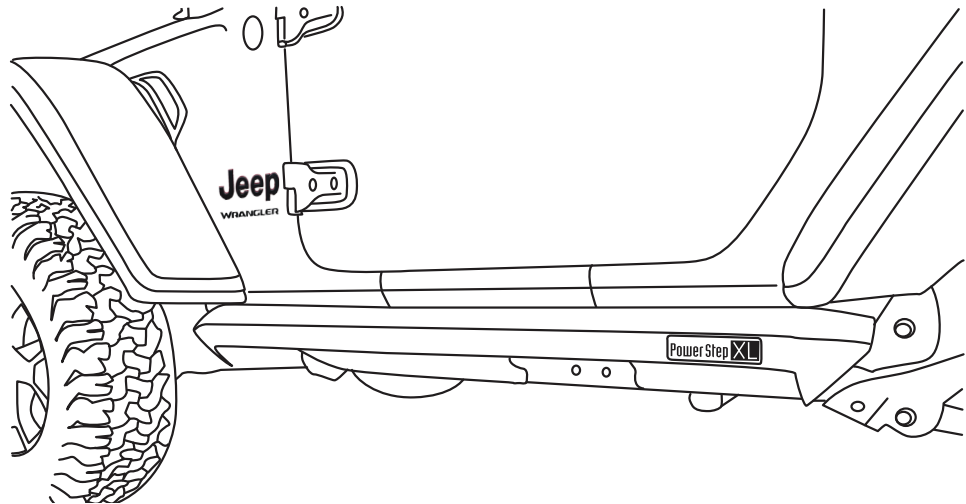
**Back of vehicle**

**Front of vehicle**



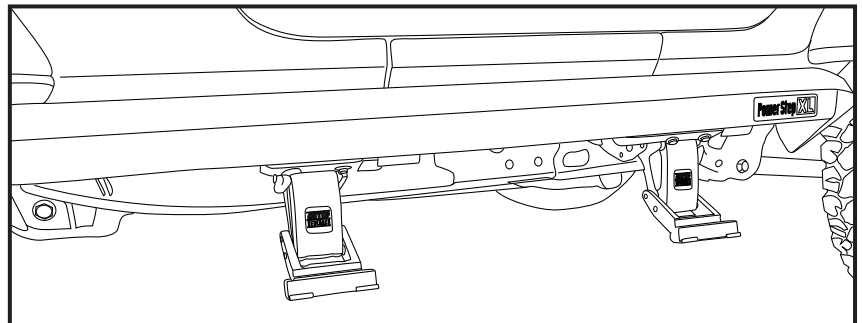
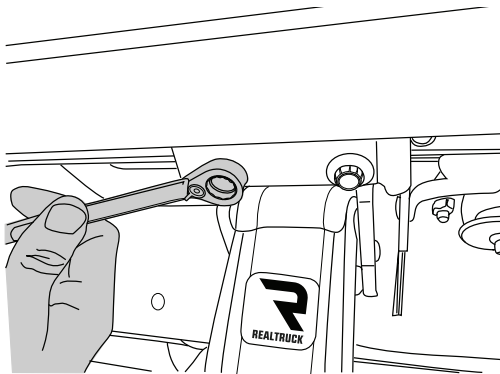
**4**

Center rail between body rocker and torque 4 flange nuts to 16 ft-lbs. Assemble Flange bolt (14) with nut (18) thru support tab on bracket. Torque to 16ft-lbs.



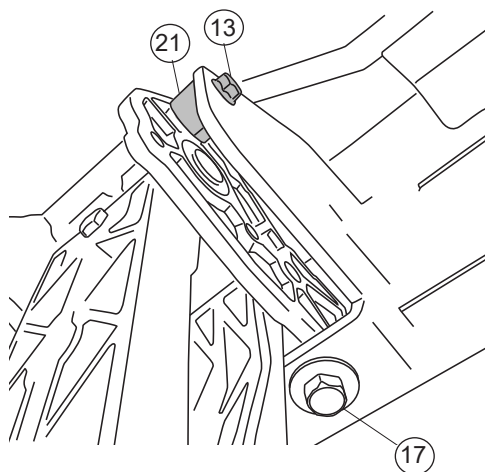
**5**

Mount front drive linkage onto driver side. Thread supplied bolts (17) into linkage. Repeat step for Rear idler linkage. Do not tighten.



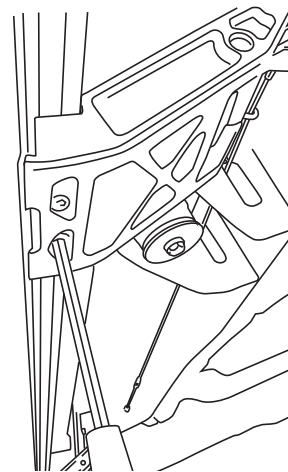
**6**

Install provided spacer (21) and M6 bolt (13) into upper mount as shown on both the drive and idler linkages. Do not tighten.



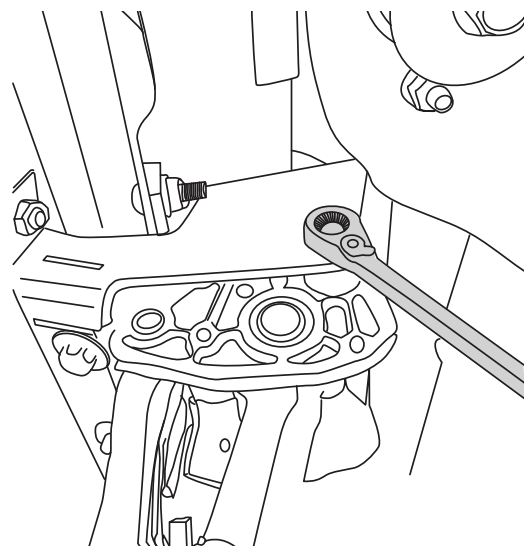
**7**

Slide mounting T-nut into position. Center board in rail pocket. Tighten fasteners to 10 ft-lb



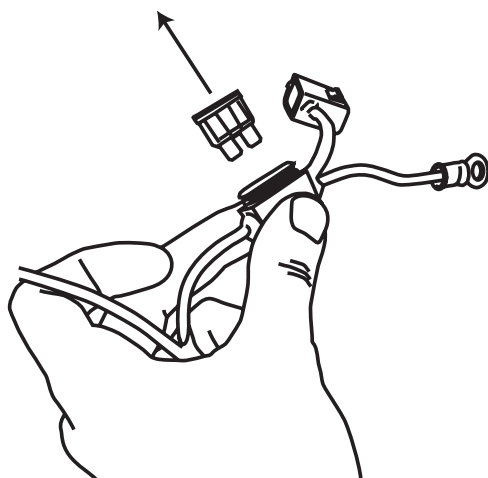
**8**

Using a 13mm socket Torque linkage bolts 4x (17) from step 3 to 16 ft-lbs. Next, use a 10mm socket, torque linkage spacer bolt 2x (13) from step 6 to 8 ft-lbs. Once linkages are tight cycle board to verify steps deploy under own weight.



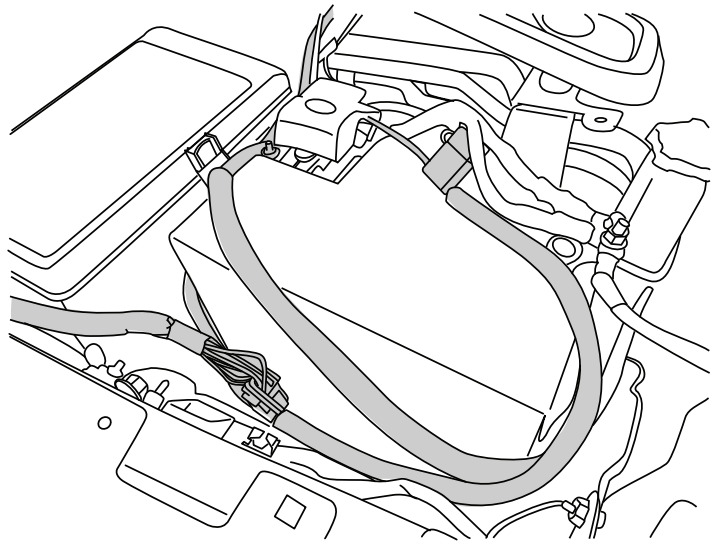
**9**

**Remove fuse from Power Step Wire Harness.**



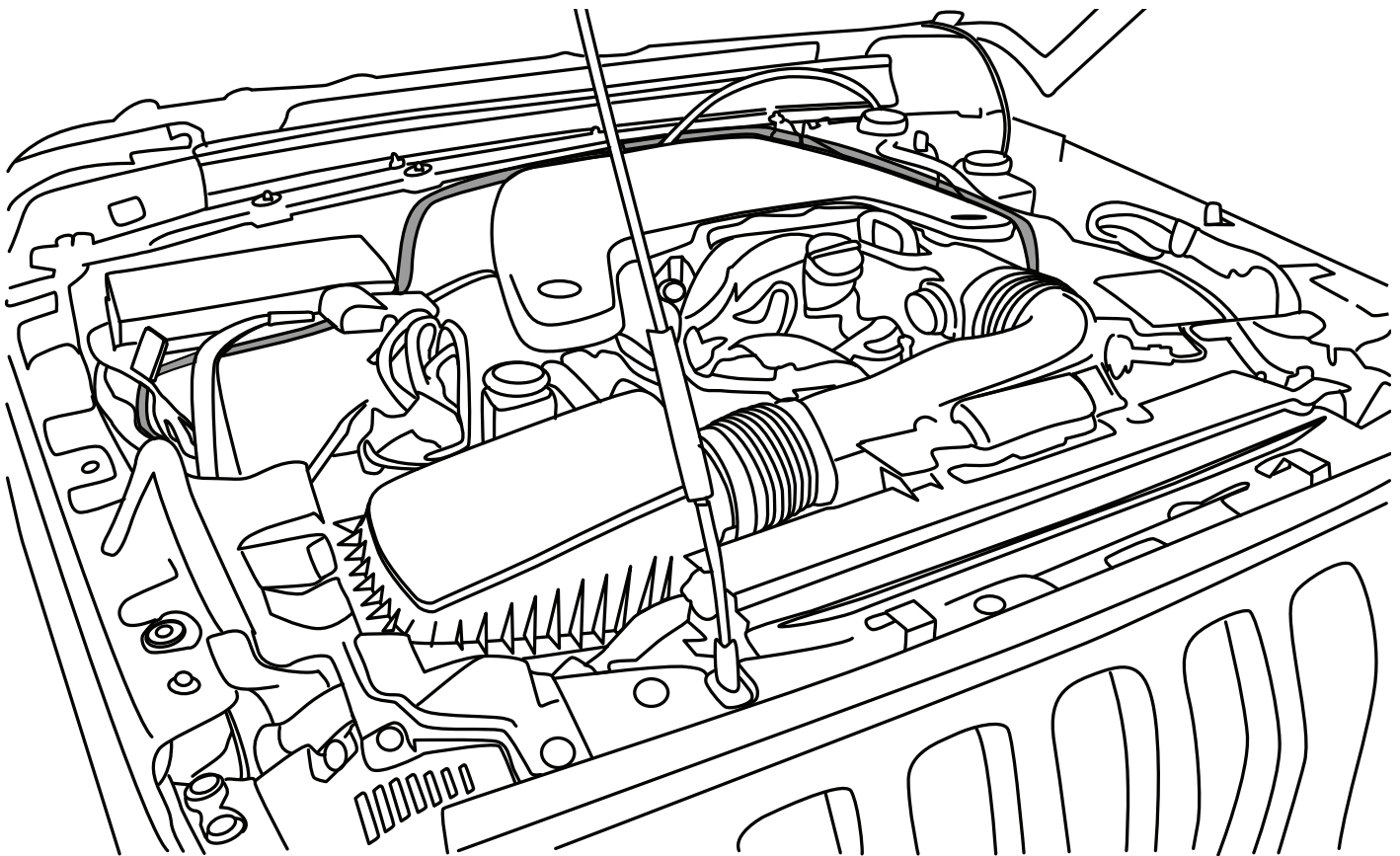
**10**

Prepare large tie-wraps for mounting Power Step Controller. Loosely loop tie-wraps around large bundle of wires behind battery in engine compartment. Insert controller into tie-wrap loops and cinch down securely. The tie-wraps should cinch down into channels on controller surface. Connect power leads from Controller, Red to positive battery terminal and Black to the vehicle body ground as shown.



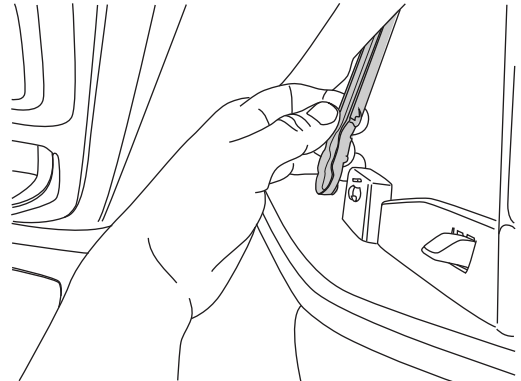
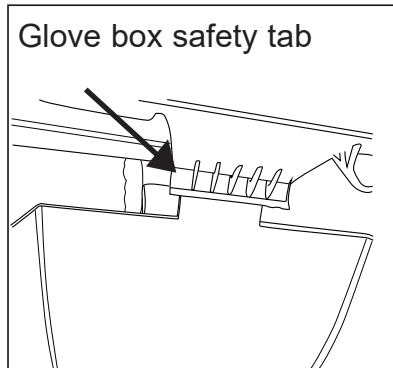
11

Route the two Wire Harness legs down over the wheel wells toward Motor Linkages, long leg across to the driver side. Secure harness with tie wraps.



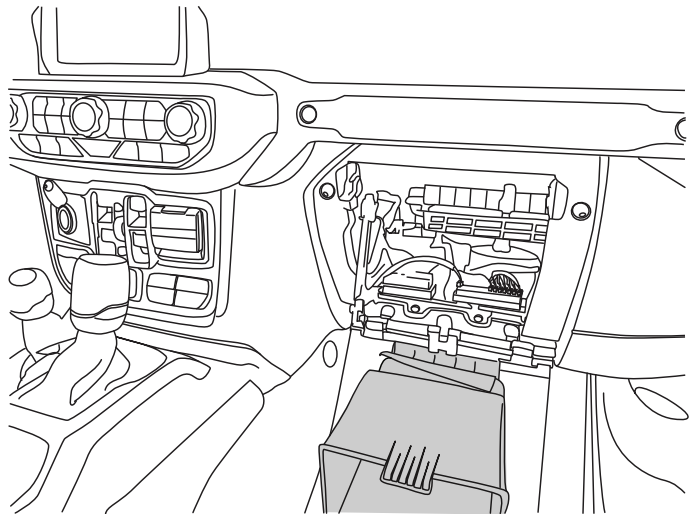
12

Press and release glove box safety tab to fully open and remove glove box, next, release glove box dampener located on the left side.



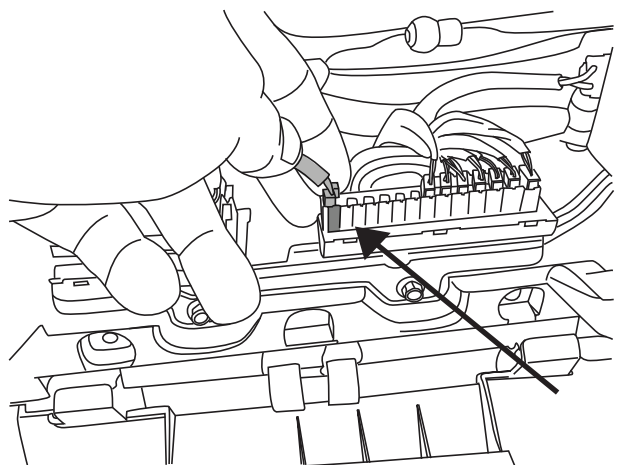
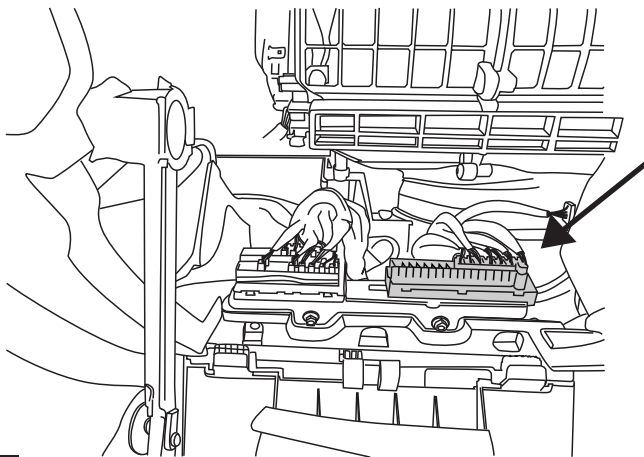
13

Carefully leave glove box hanging to expose plugs behind it.



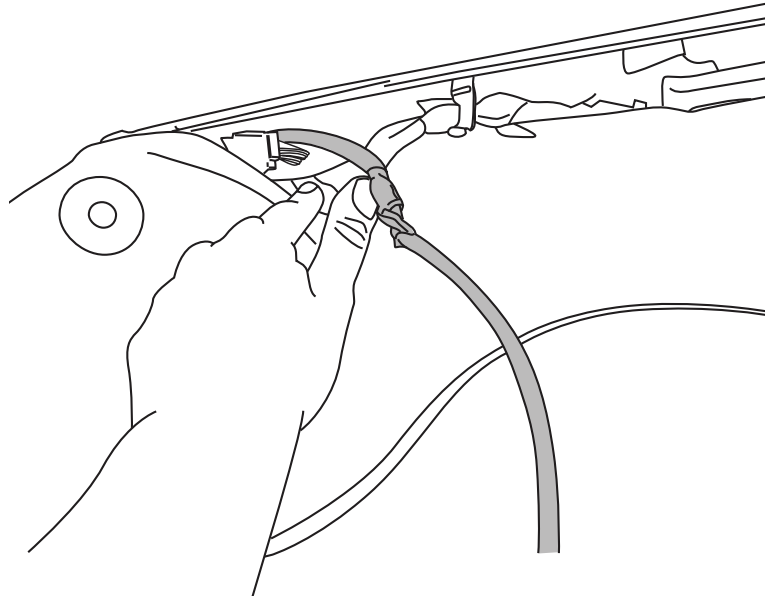
14

Locate white block (on right side) and plug the 2 pin connector from the OBD module extension (9) into that port.

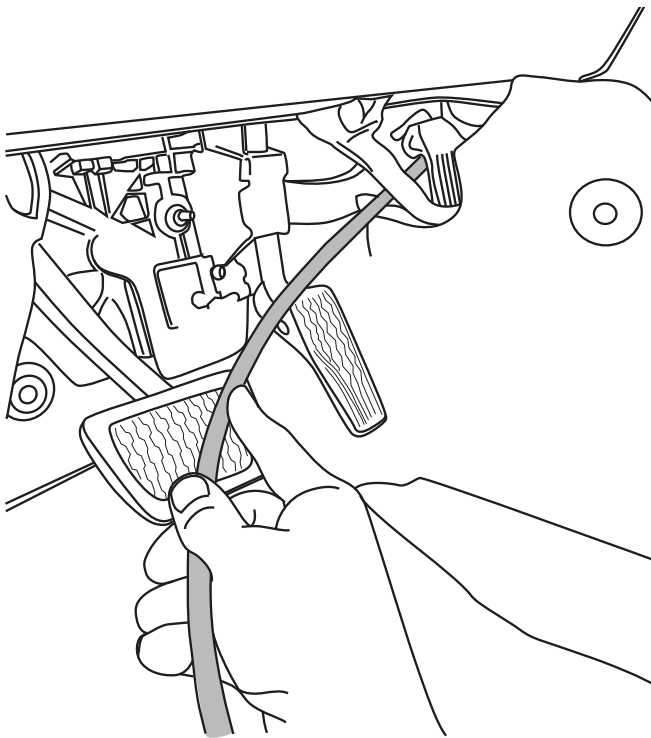


15

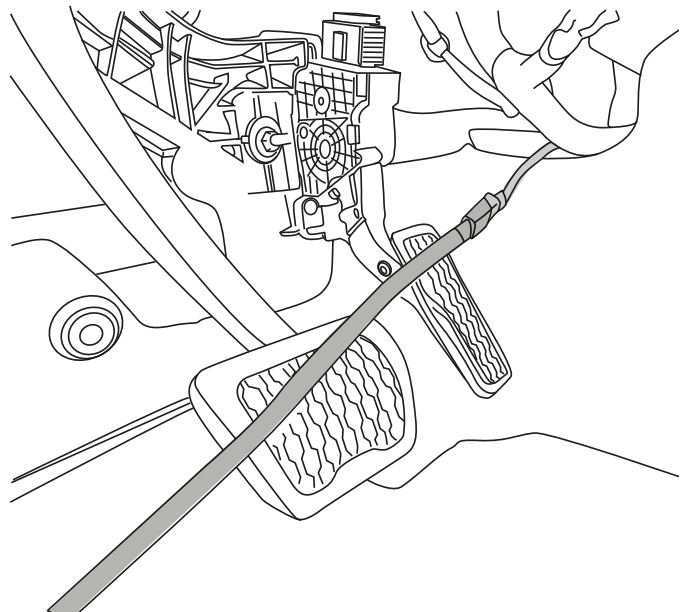
Pull back carpet on passenger side on the top side of middle console and then use provided Tube (10) to route OBD II Extension (9) behind middle console. Tape open end of extension to the tube and push the tube through middle console.

**16**

From driver side, pull tube (10) that was pushed through from passenger side.

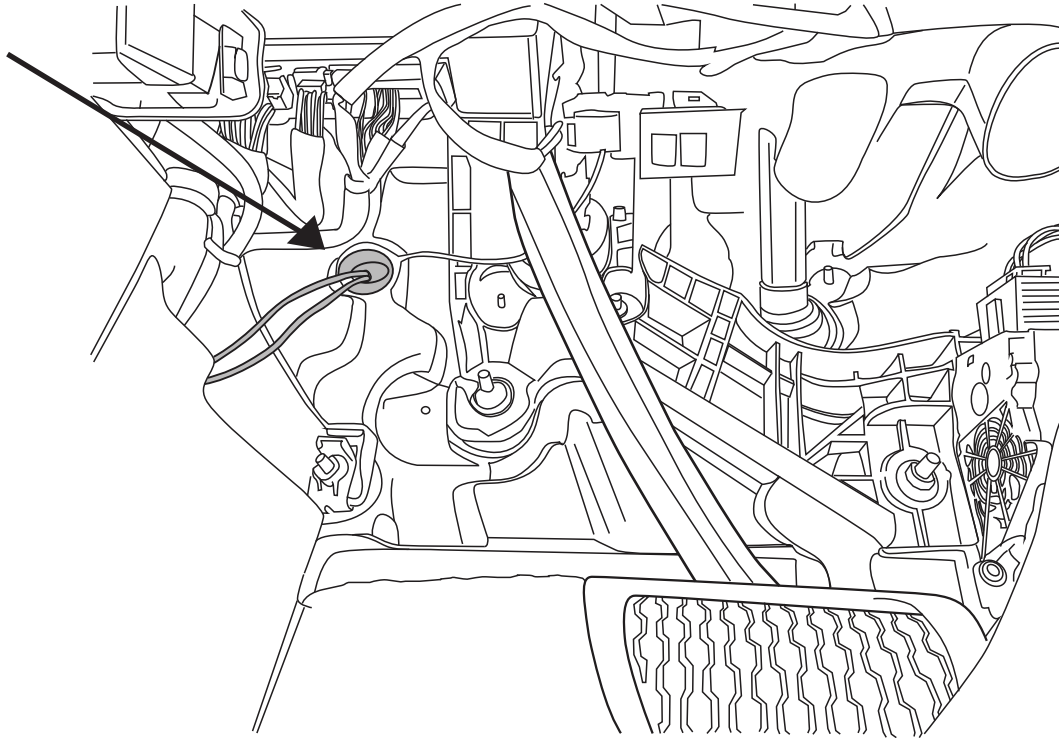
**17**

Remove OBD II Extension (9) from tube (10) and plug wire (9) to OBD module (8) wire.

**18**

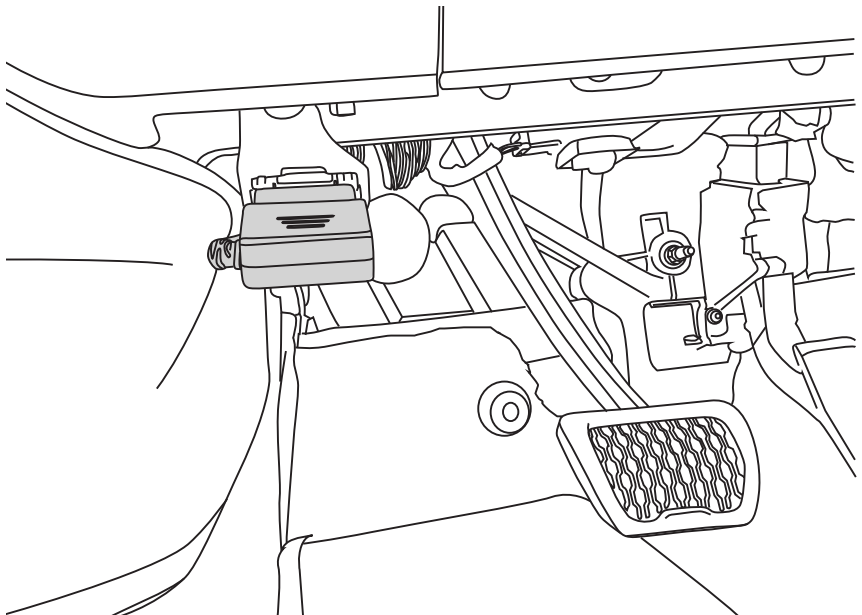
Route trigger wires through firewall. Locate round plastic plug on firewall to the left of the brake assembly. Drill small hole using a 3/16 drill bit. Route trigger wires (6) through firewall. Use supplied posi-lock® (11) to connect wires to OBD Module (8). Further instruction in the next page.

Apply silicone to seal off firewall.



**19**

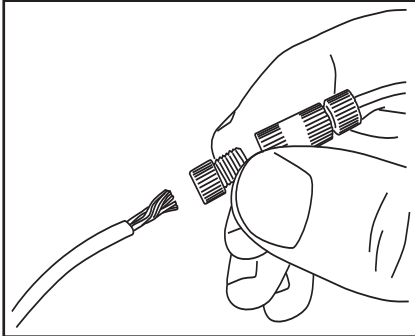
Use cable ties to secure all wires in place. Plug in OBD Module.



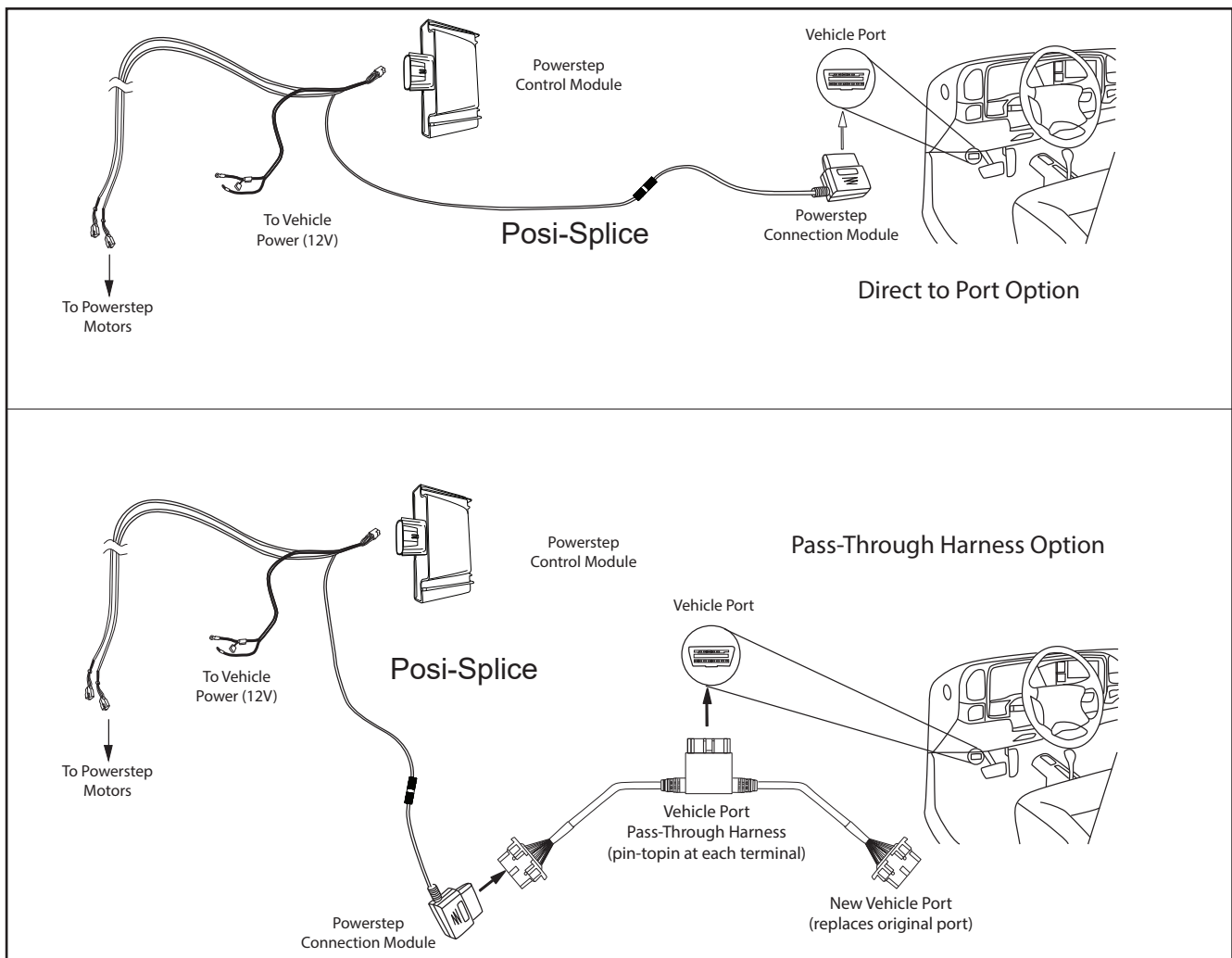
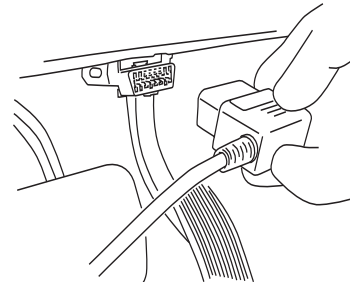
**20**

**OBD II install:** Use Supplied Posi-Lock® connector to attach the Plug and Play Module to the Harness. Attach matching colors on the harness to the wires on the module. Plug in module to OBD II port on the vehicle. Secure harness with supplied tie wraps.

**Note:** If the OBD II pass thru harness (76404-01A) was purchased see install sheet supplied in packaging. The pass through harness allows for an open port for other accessories. See below for a brief description.



OBD II Connector located below steering column.

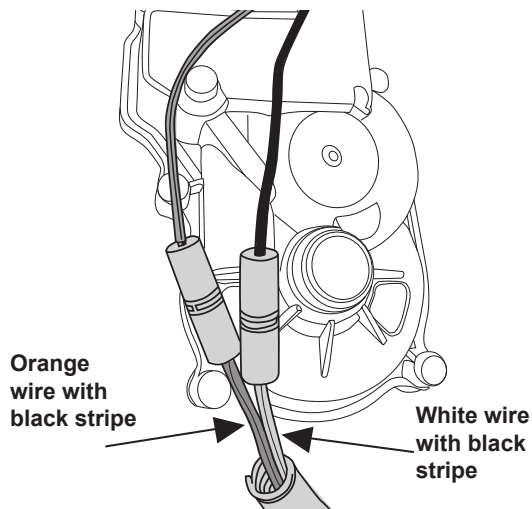


**Before proceeding, see spin direction of the each motor than proceed with step A or B below. Use Method A for Driver & Passenger motors.**

## A. Motor spinning the shaft clockwise direction:

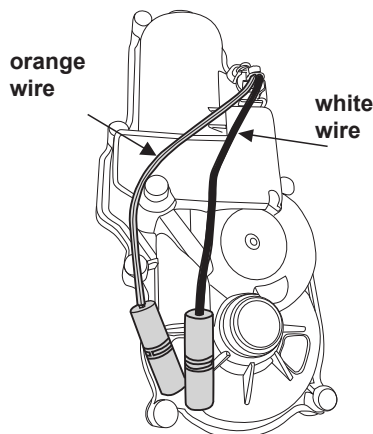
1) First, install one Posi-Tite® (29) onto white wire from the motor. See image on right.

2) Install second Posi-Tite® (29) 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® (29) that is connected to the all white wire from first step above.

4) Connect the Posi-Tite® (29) the orange wire from the motor with the orange with black stripe wire from the harness.



### Posi-Tite® Instructions

1. Strip 3/8"

2. Push

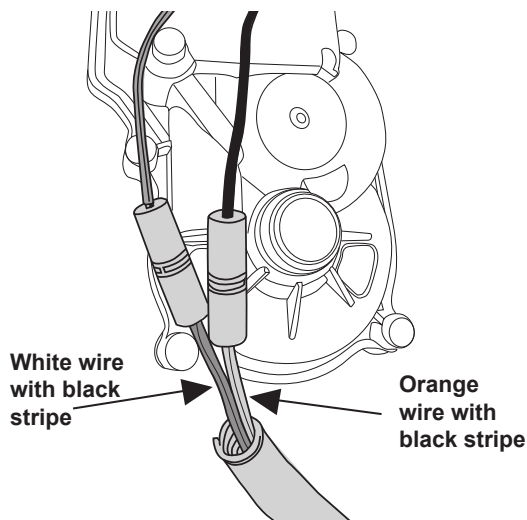
3. Tighten



## B. Motor spinning the shaft counter clockwise direction:

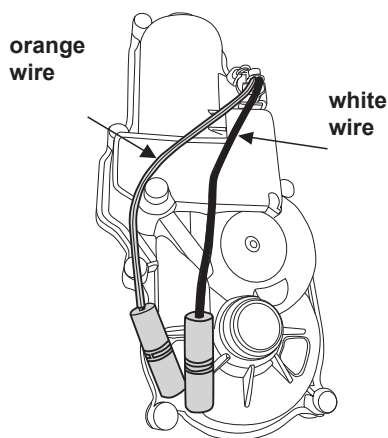
1) First, install one Posi-Tite® (29) onto white wire from the motor. See image on right.

2) Install second Posi-Tite® (29) onto orange 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® (29) that is connected to the all white wire from first step above.

4) Connect the Posi-Tite® (29) the orange from the motor with the white with black stripe wire from the harness.



### Posi-Tite® Instructions

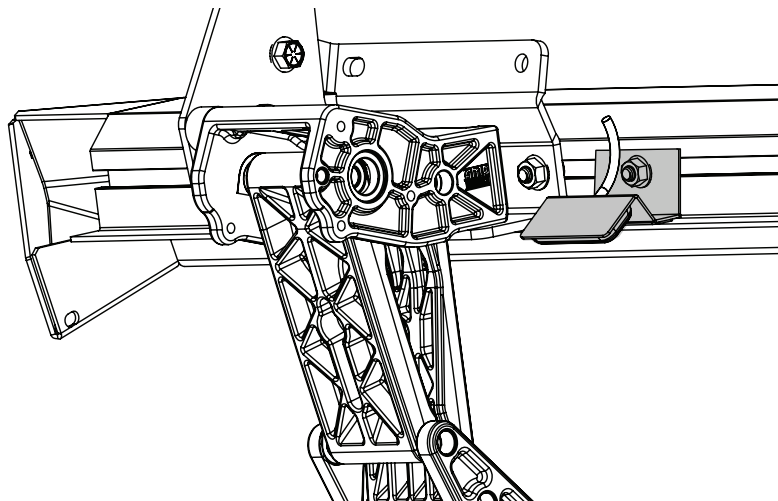
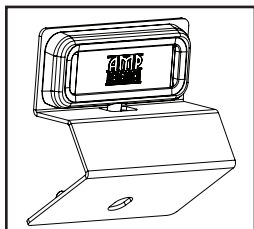
1. Strip 3/8"

2. Push

3. Tighten

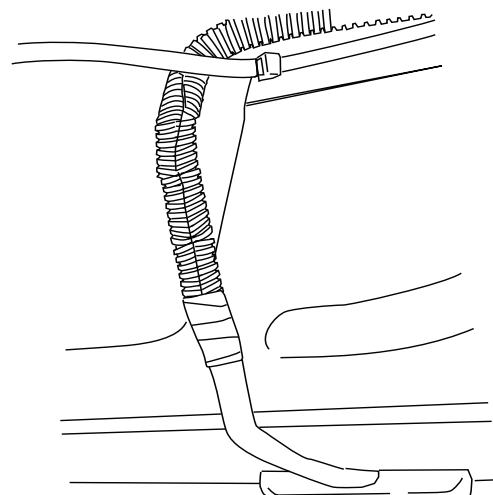
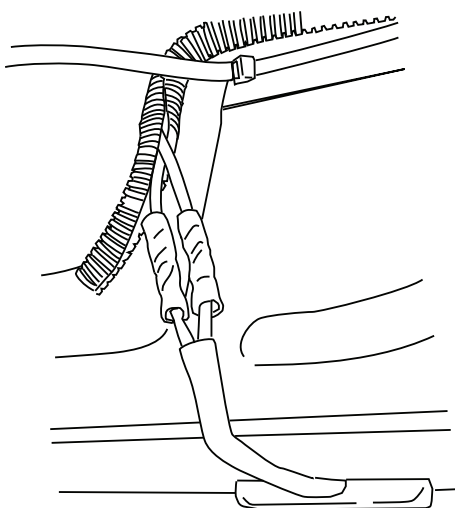


Affix LED lamp (27) to Light bracket (28) on rail. Slide bracket into desired position and tighten using 5/32" Allen key.



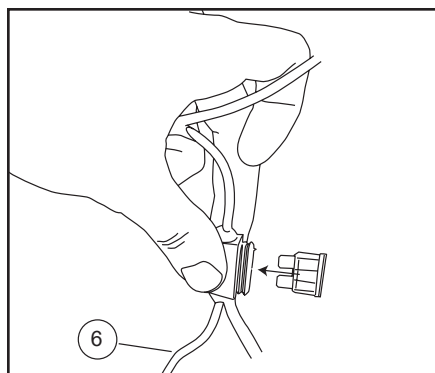
23

Using supplied butt connectors (26), connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube. Close and wrap conduit with electrical tape. Secure all loose wires with cable ties. Pull lamp wires upward to avoid any wire snagging.



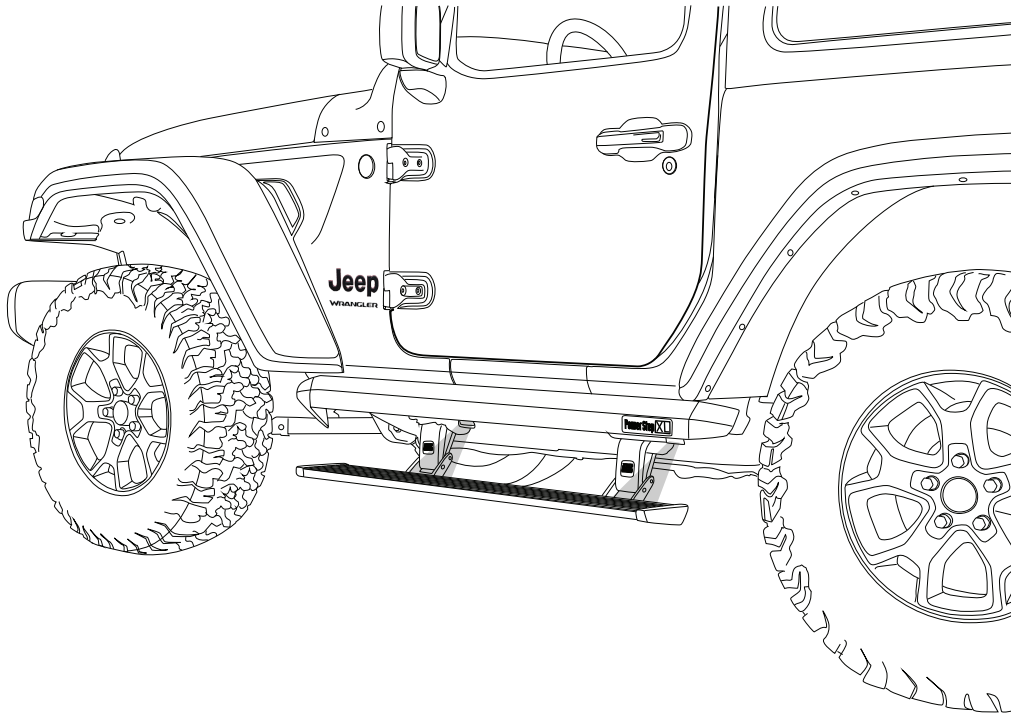
24

Reinstall Fuse from Powerstep Wire Harness.



25

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 reilluminated by closing and opening any door of vehicle.



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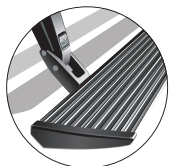
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Rev 05.30.24

## **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.

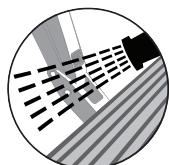
**Automatic stop:**

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.



The material that your product is made from can be recycled. Please also consider recycling the packaging that your product came in.

