

**APPLICATION**

Ford F150 - **Crew Cab only** (Includes Raptor & Raptor R)  
 (Excludes F150 Lightning and Powerboost)

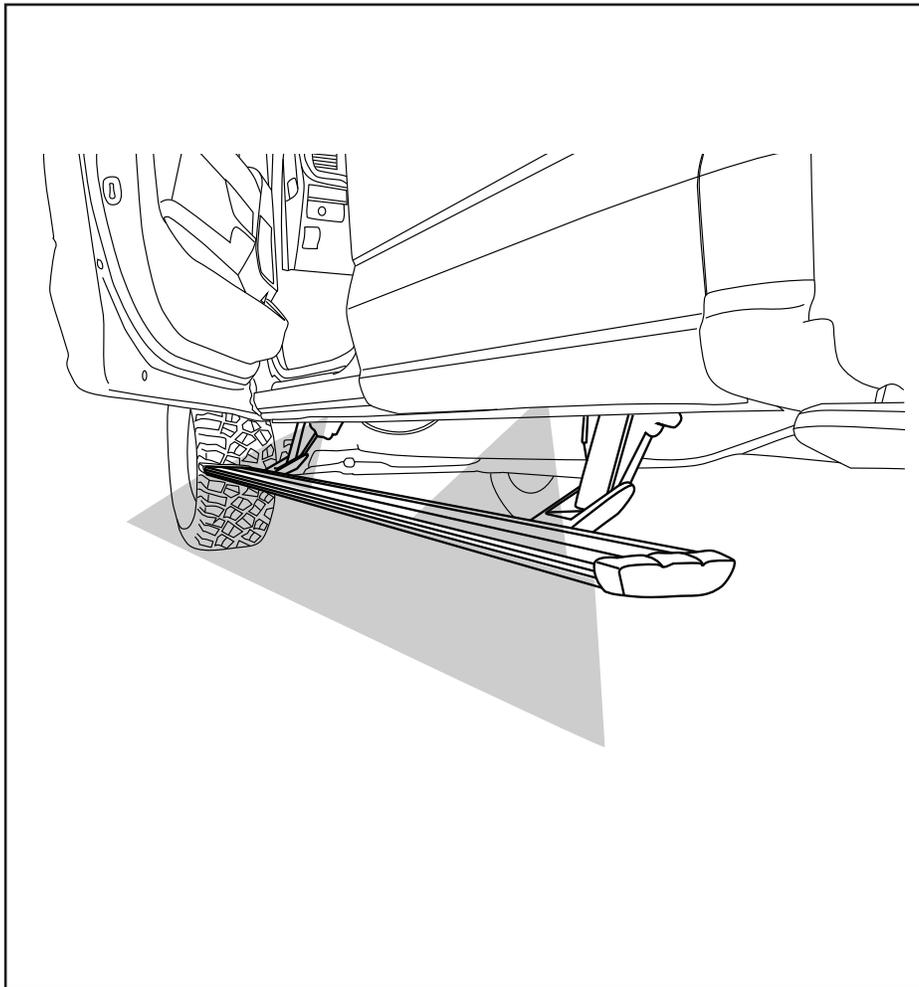
**MODEL YR**

2021-2026

**PART #**

96152-01A

## INSTALLATION GUIDE



**INSTALLATION TIME**

**2-3 Hours**

Professional installation recommended

**SKILL LEVEL**



4= Experienced

**TOOLS REQUIRED**

- Safety goggles
- 10 mm socket
- 13 mm socket
- 13 mm end wrench
- Ratchet wrench and extension
- Wire stripper
- 9/32" & 19/64" Drill Bit
- 3/16" hex key wrench ( allen wrench)
- 4mm hex key wrench ( allen wrench)
- Electrical tape
- Weather proof caulking (silicone sealer)

**WARRANTY**

**5-Year Limited Warranty**

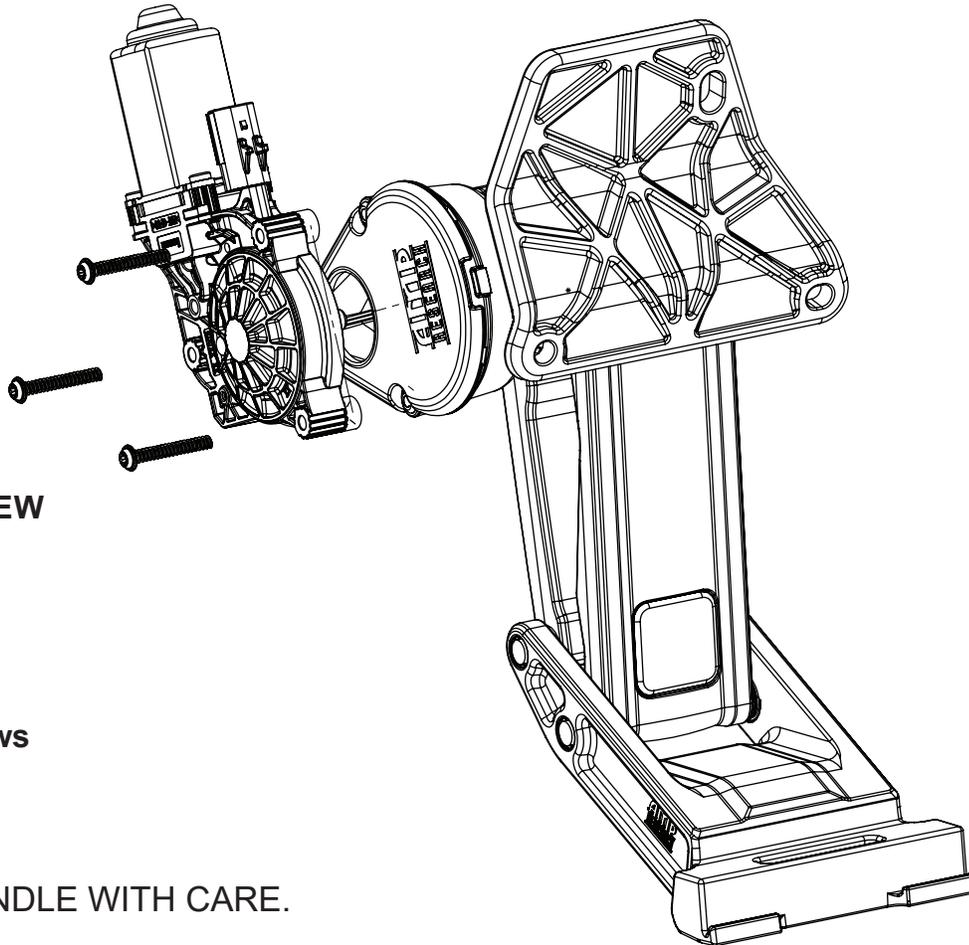
**REALTRUCK TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 8:00 AM - 5:00 PM EST**

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 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., 2024 • Five-year limited warranty. • Professional installation is recommended.

## INSTALLATION GUIDE

### Attaching motor to linkage assembly

The motors must be attached to the linkage assemblies before continuing the installation process.



#### EXPLODED VIEW

- Motor linkage
- Motor
- Delta PT screws

#### CAUTION: HANDLE WITH CARE.

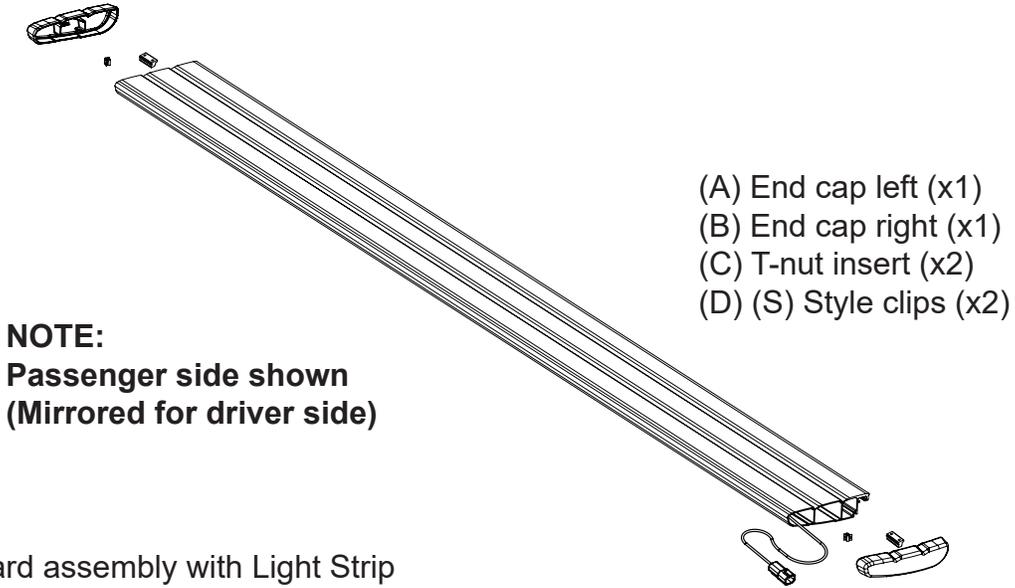
To insure our customers receive all components with full integrity, we pack the motors separate from their linkage assemblies. This requires that the installer position and fasten the motor before continuing with the install. Please follow the instructions below and handle the assembly carefully.

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

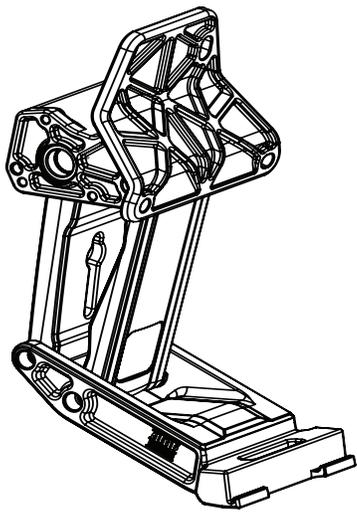
#### Instructions:

1. Position the gear cover in place as shown if not already in place.
2. Seat motor into position on the three mounting bosses. This may require an adjustment of the gear by moving the swing arms.
3. After seating into place, fasten the motor with the three motor mount screws with 4mm allen wrench. Tighten screws to 36 in-lbs (4N-m). Do not over torque.

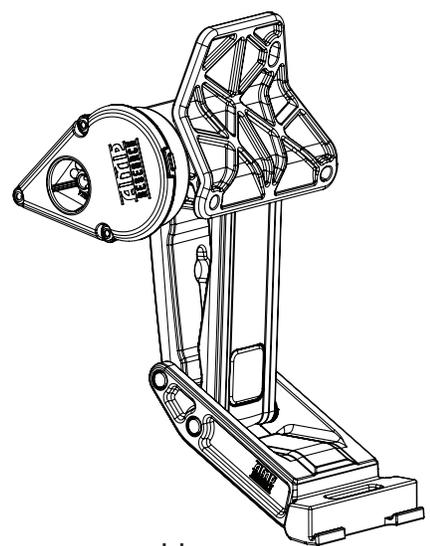
PARTS LIST AND HARDWARE IDENTIFICATION



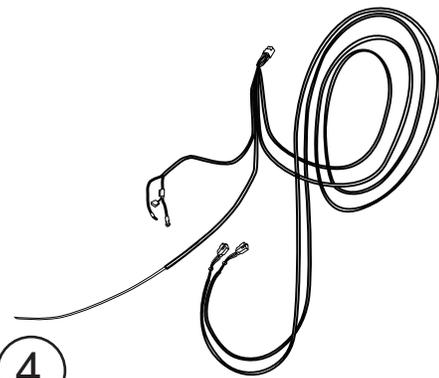
① x2  
 Running board assembly with Light Strip



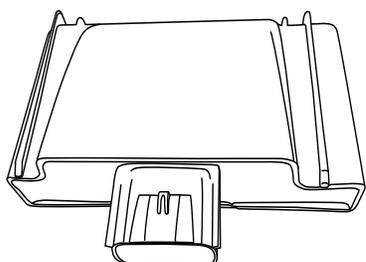
② x2  
 Idler linkage assembly



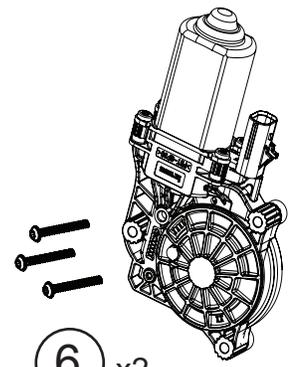
③ x2  
 Motor linkage assembly



④  
 Wire harness



⑤  
 Controller SSA

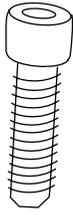


⑥ x2  
 Motor kit

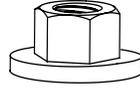
PARTS LIST AND HARDWARE IDENTIFICATION



7  
Posi-Lock™ (Grey)



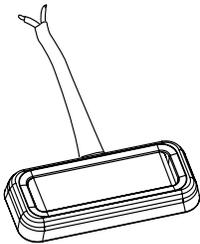
8 x8  
Socket cap screw



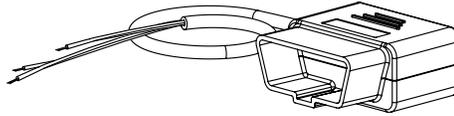
9 x12  
Nut with Conical Washer



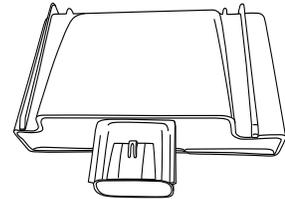
10  
Grommet (Only needed on SuperCab)



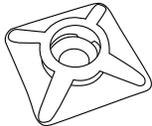
11 x4  
LED Light



12  
ODB II Plug FD21 (smart series)



13  
Controller RGB



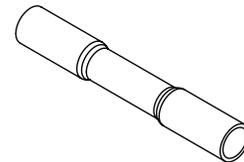
14 x4  
Wire clip



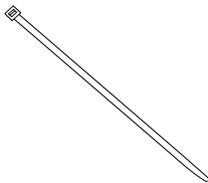
15 x4  
Clip



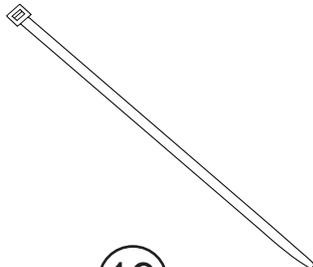
16 x4  
Grommet



17 x8  
Butt Connector



18 x20  
Cable Ties 7"

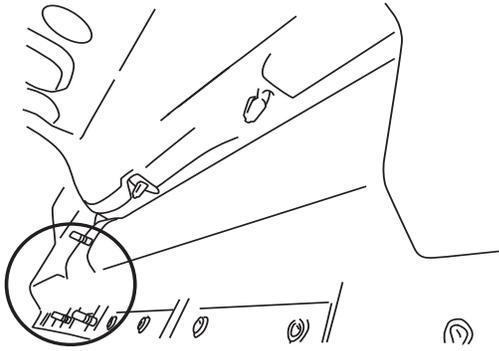


19 x4  
Cable Ties 11"

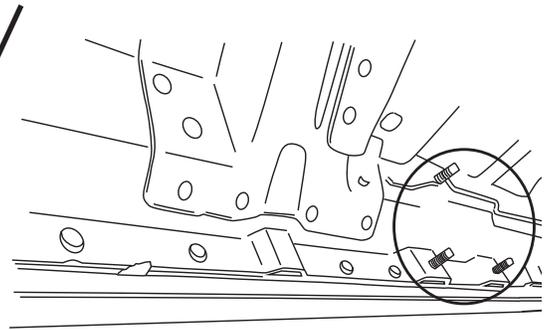


21 x2  
Posi-Tap™ (Red/Black)

Locate mounting points; first and last set of studs on the inner sill.  
 Motor Linkage mounts toward the front of the truck and Idler mount toward the rear.  
 Driver side shown below.

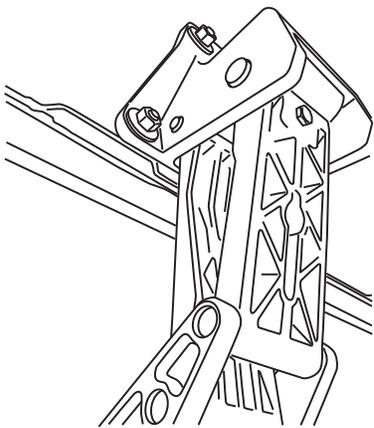


1 Driver Side Rear Stud Location

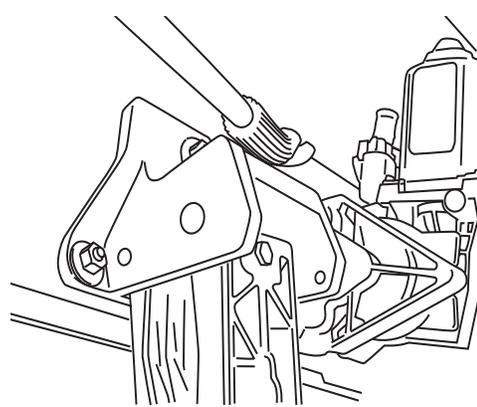


Driver Side Front Stud Location

Mount drive and Idler linkage assemblies. Repeat for passenger side. Make sure linkages sit square, fully resting on studs before tightening. Torque to 16 ft. lbs (22N·m)

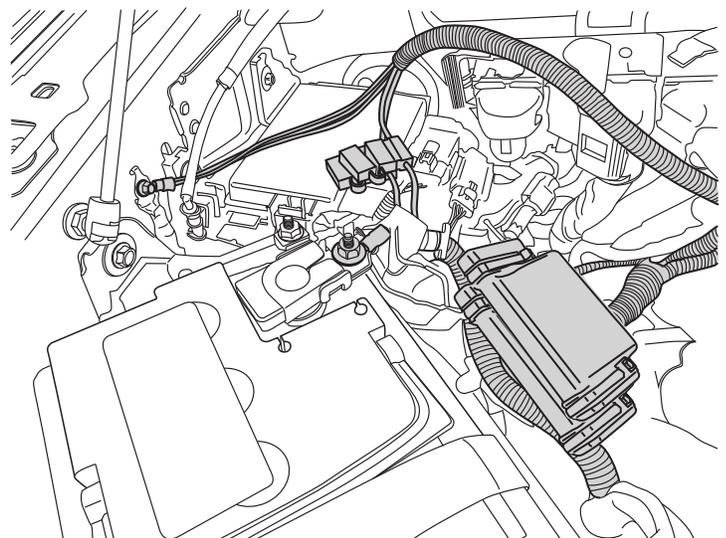
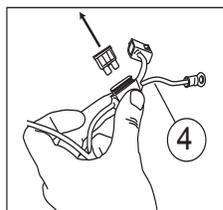


2 Idler Linkage (Rear)



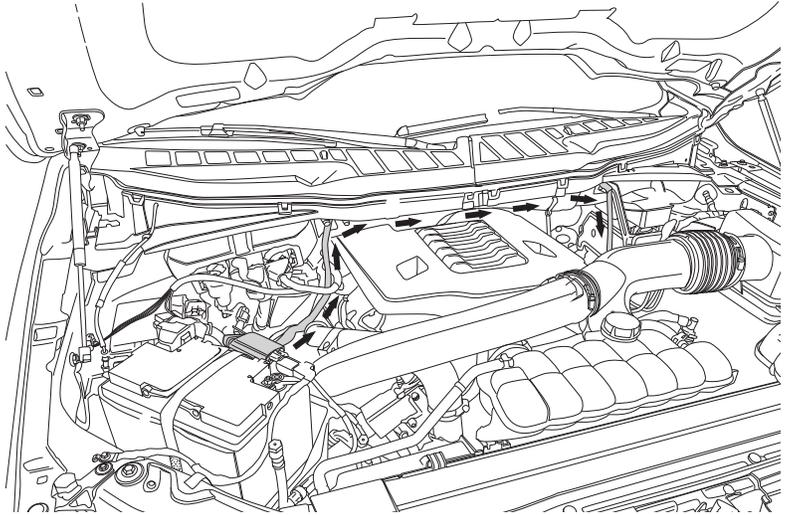
Drive Linkage (Front)

Remove fuses from wire harness (4).  
 Connect red power lead to battery. Connect black ground lead to 13mm bolt outside of fender wall. Attach wire harness to controllers (make sure the connector locking tabs fully engage).  
 Mount controllers (5) & (13) with the two 11" tie wraps (19) each to factory conduit, just forward of battery.



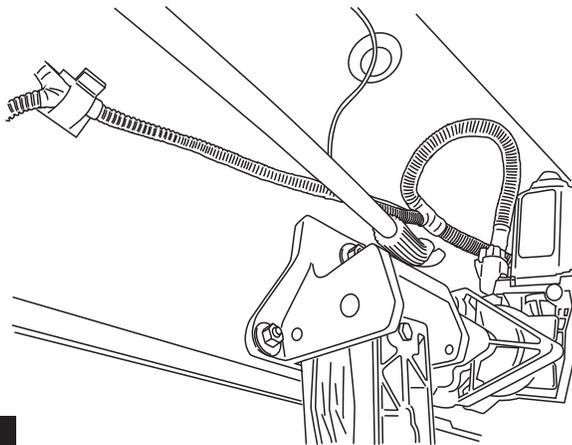
3

Route shorter leg of harness down passenger-side wheel well and longer leg of harness down along driver-side wheel well. Attach wire harness with supplied 7" cable ties (18).



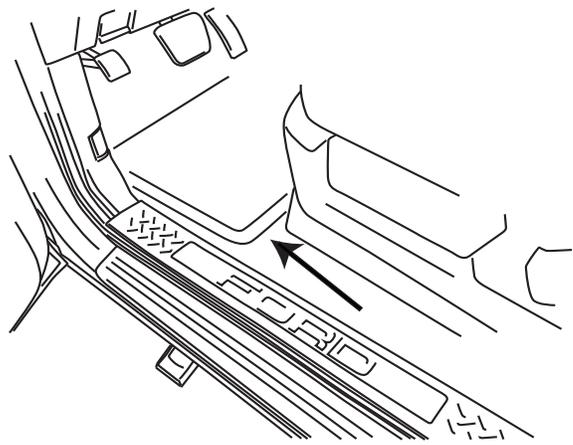
4

Route factory harness underneath vehicle and plug in motors (both sides). Route remaining LED light wires back towards rear of vehicle.



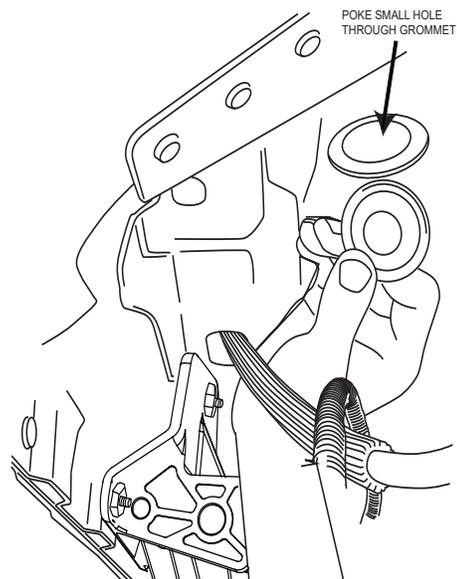
5

Remove driver side front kick panel and door sill plate. Roll back carpet to access hole for passing trigger wire into cab of vehicle.



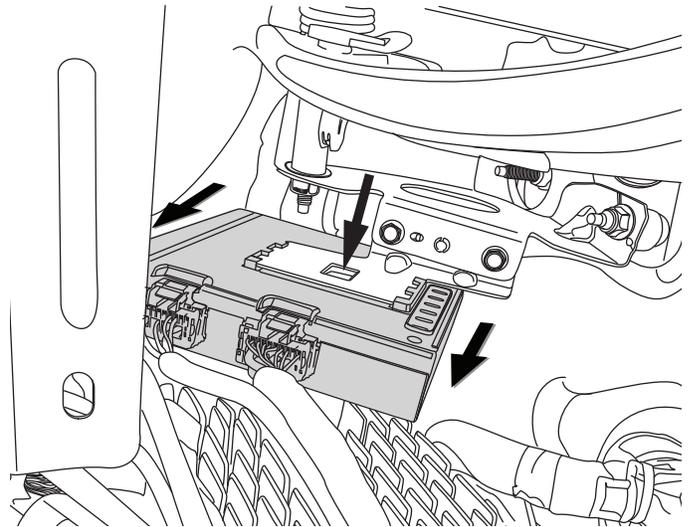
6

Remove grommet in floor panel above front linkage on driver side. Poke small hole into grommet and thread the trigger wire through and up into the cabin of vehicle. Seal grommet with silicone sealer.



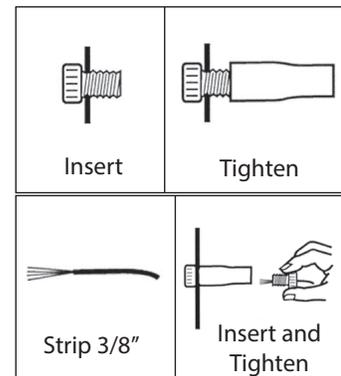
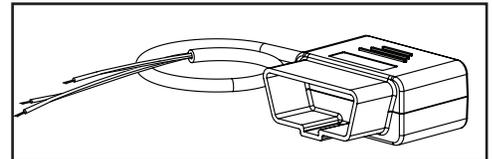
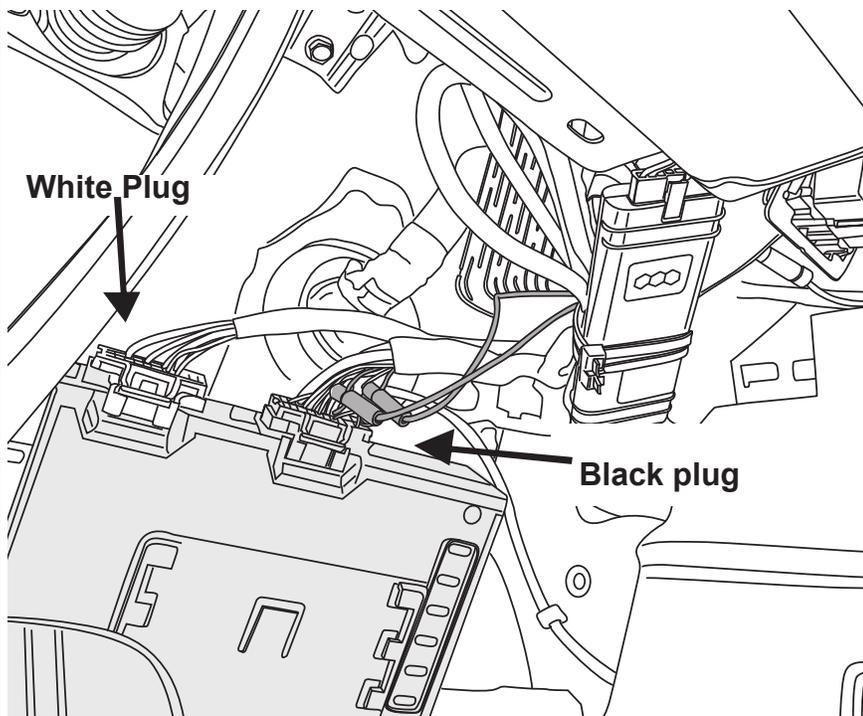
7

Locate black module just above e-brake pedal, and proceed to remove it for easier access. To remove module from bracket, push tab as shown and slide bracket downward.



8

Locate the following wires (on the black plug) and connect the blue and white wires of the Powerstep Connection module with supplied Posi-Tap™ (21) to the following wire colors listed below.

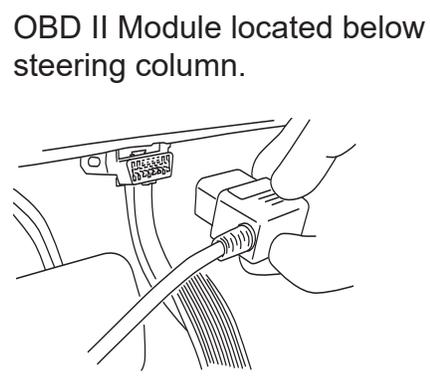
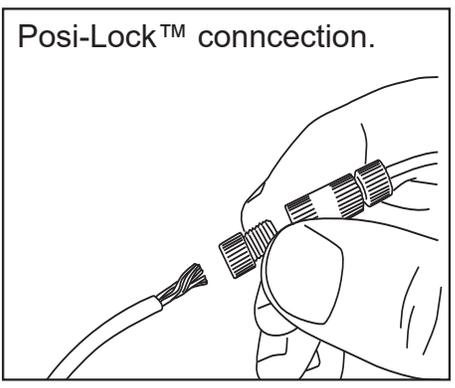
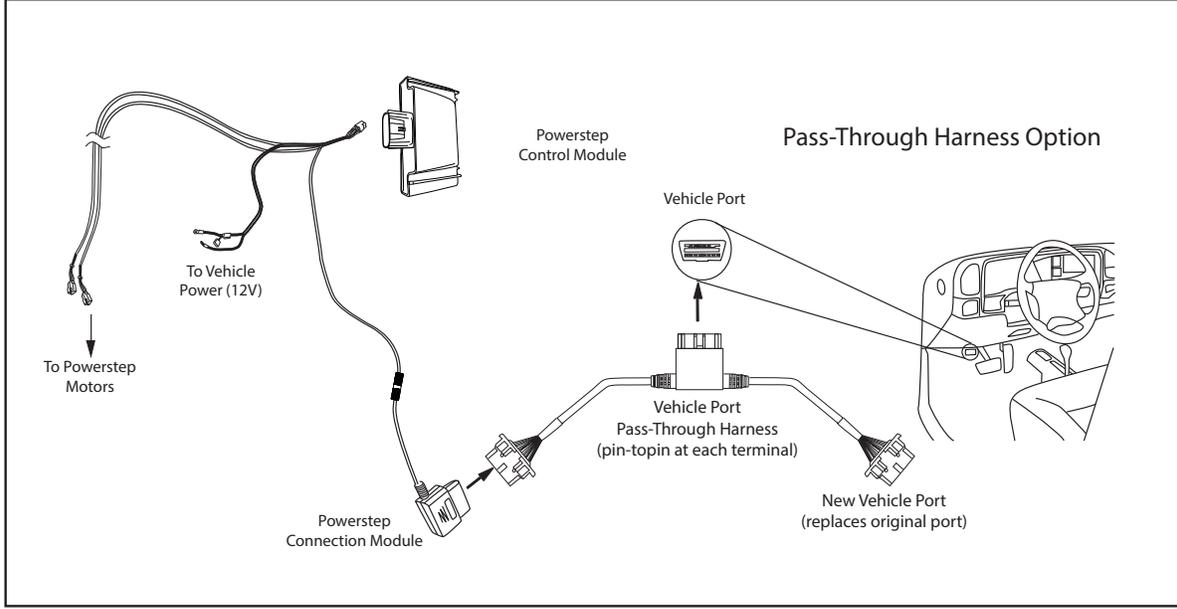
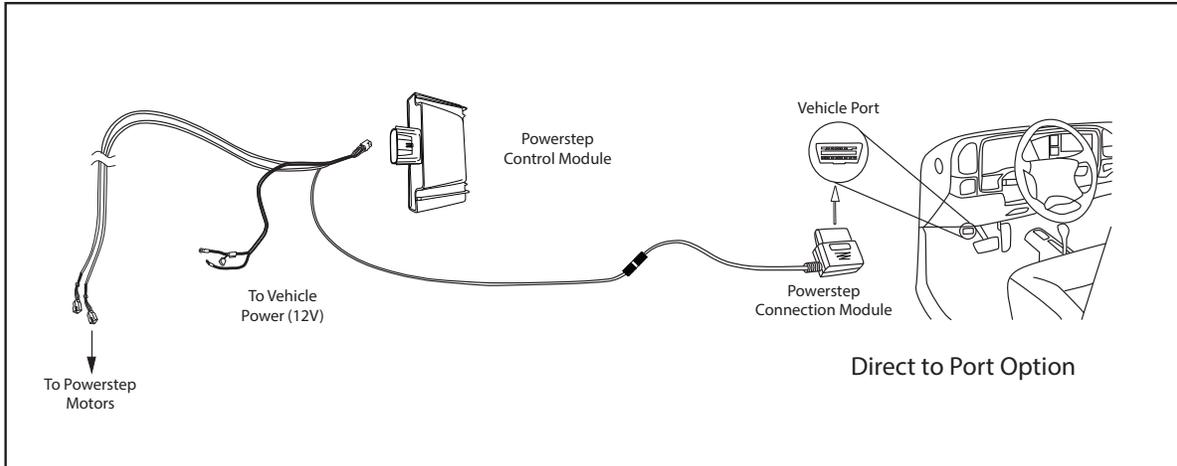


Factory Can Wire	Powerstep Connection Module wire color
Green w/blue stripe	White
White w/green stripe	Blue

After connecting wires, slide module back on to bracket, and ensure locking tab engages.

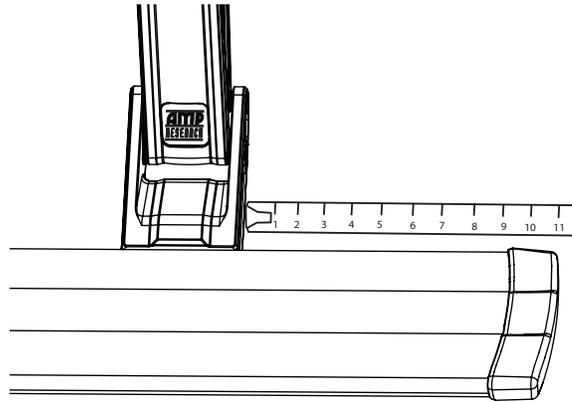
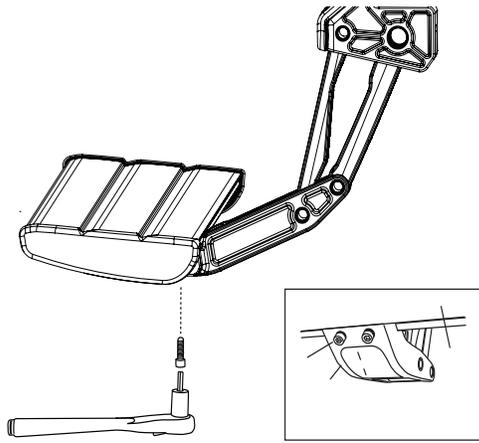
9

**OBD II connection:** Use Supplied Posi-Lock™ (7) connector to attach the Powerstep Connection Module to the Harness. Plug in Powerstep Connection 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.*



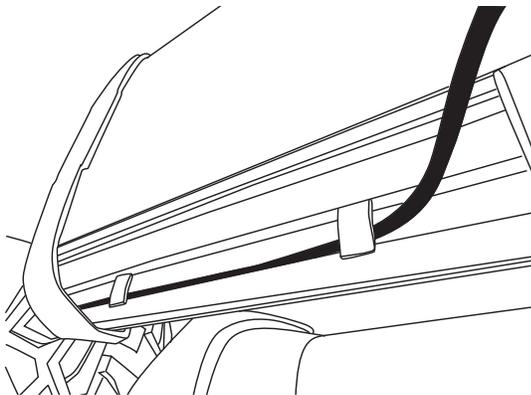
## REALTRUCK AMP RESEARCH POWERSTEP – FORD F-150

Attach step (1), using socket cap screws (8), sliding the mounting T-nut into position. Measure from the rear linkage to end of board. Measurement should be approximately 11" as shown below. **Torque to 10 ft lbs (13.5 Nm)**



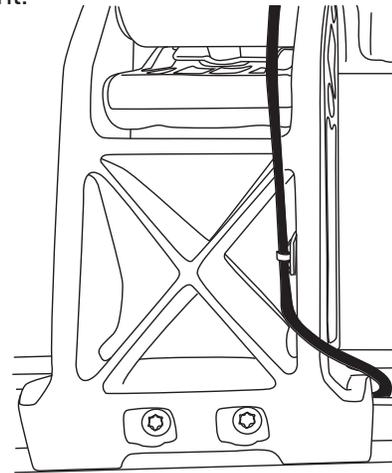
11

Route RGB wire to front linkage as shown. Use provided Extrusion wire clips (15) to hold wire in place.



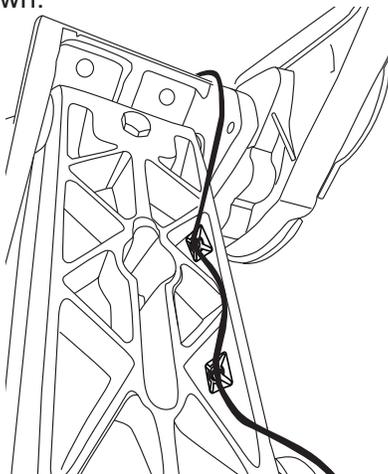
12

Clean surface with alcohol and use provided adhesive backed wire clips (14) to hold wire on lower mount.



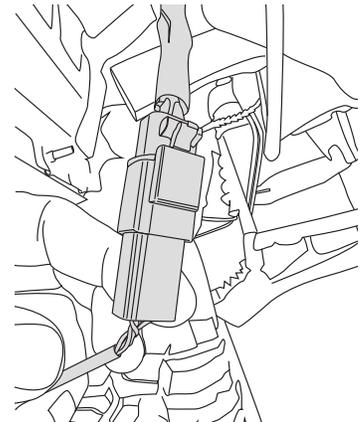
13

Clean surface with alcohol and use provided adhesive backed wire clips to hold wire on inner linkage as shown.



14

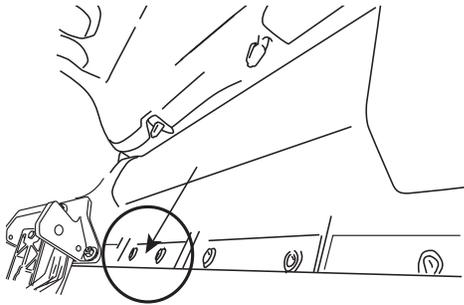
Connect RGB light plug into main harness of powerstep. Secure all remaining RGB wiring with supplied Zip ties (18). Cycle steps to ensure wiring is clear from any moving components of the powerstep.



15

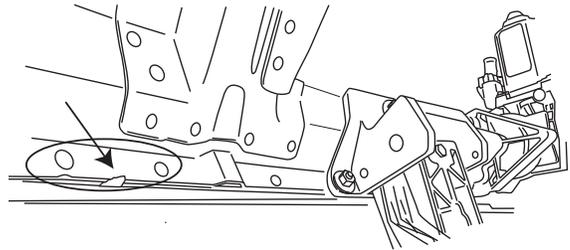
# REALTRUCK AMP RESEARCH POWERSTEP – FORD F-150

On each side of the vehicle use tape to mark the led drill location two sections from studs as shown below. Use tape to indicate. Locations are approximately 23" & 66" from front door edge.



## Drive Side Rear Mounted

(In between two rivets just forward of mounting location, as shown above)

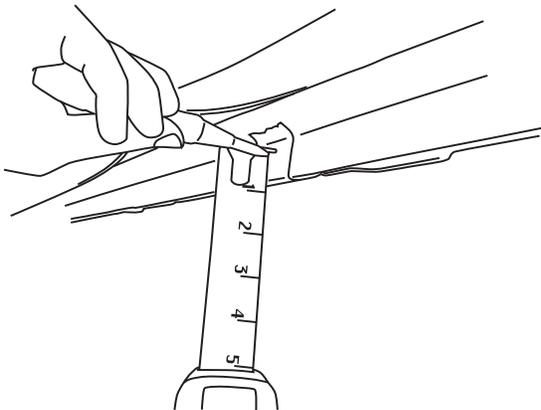


## Drive Side Front Mounted

(Just under left edge of body-brace, as shown above)

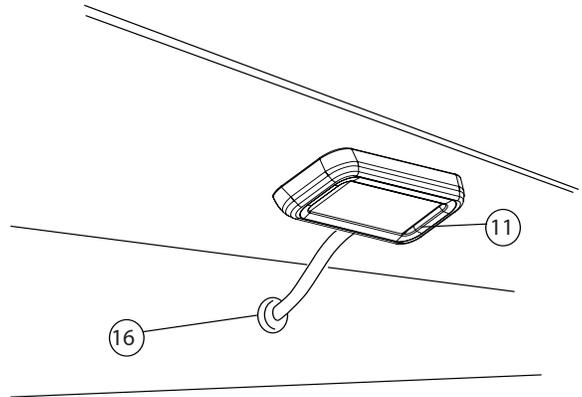
16

Mark hole location 1/2" midpoint of the rocker with tape and center punch and drill 19/64" hole into pinch weld. Deburr hole and insert grommet (16) for LED Wire.



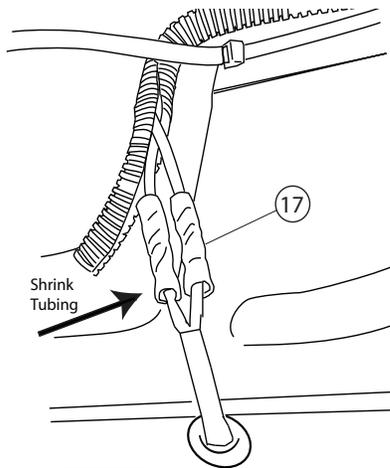
17

Route LED wires though through grommet, clean surface, and stick on to rocker panel as shown below.



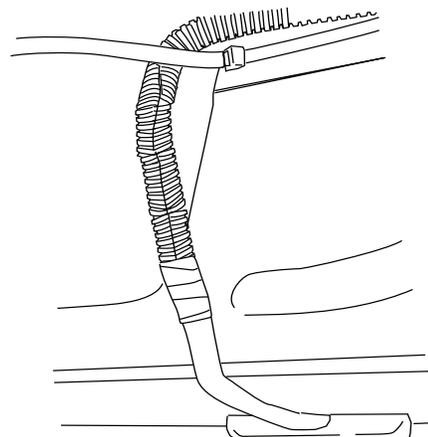
18

Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Heat the shrink tubing on the connectors to seal wires.



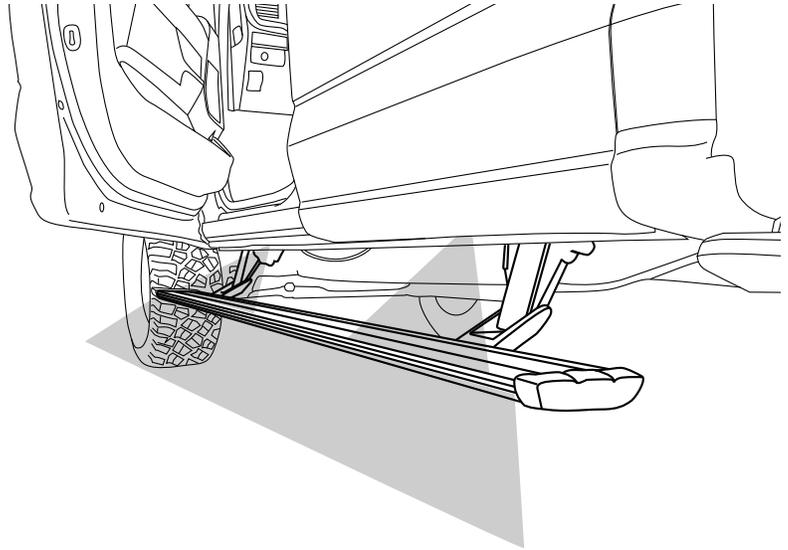
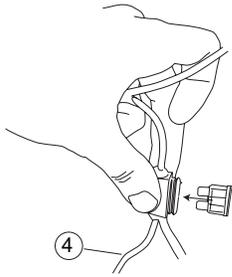
19

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.



20

Reinstall fuses.



**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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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.

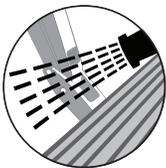
**Automatic stop:**

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.