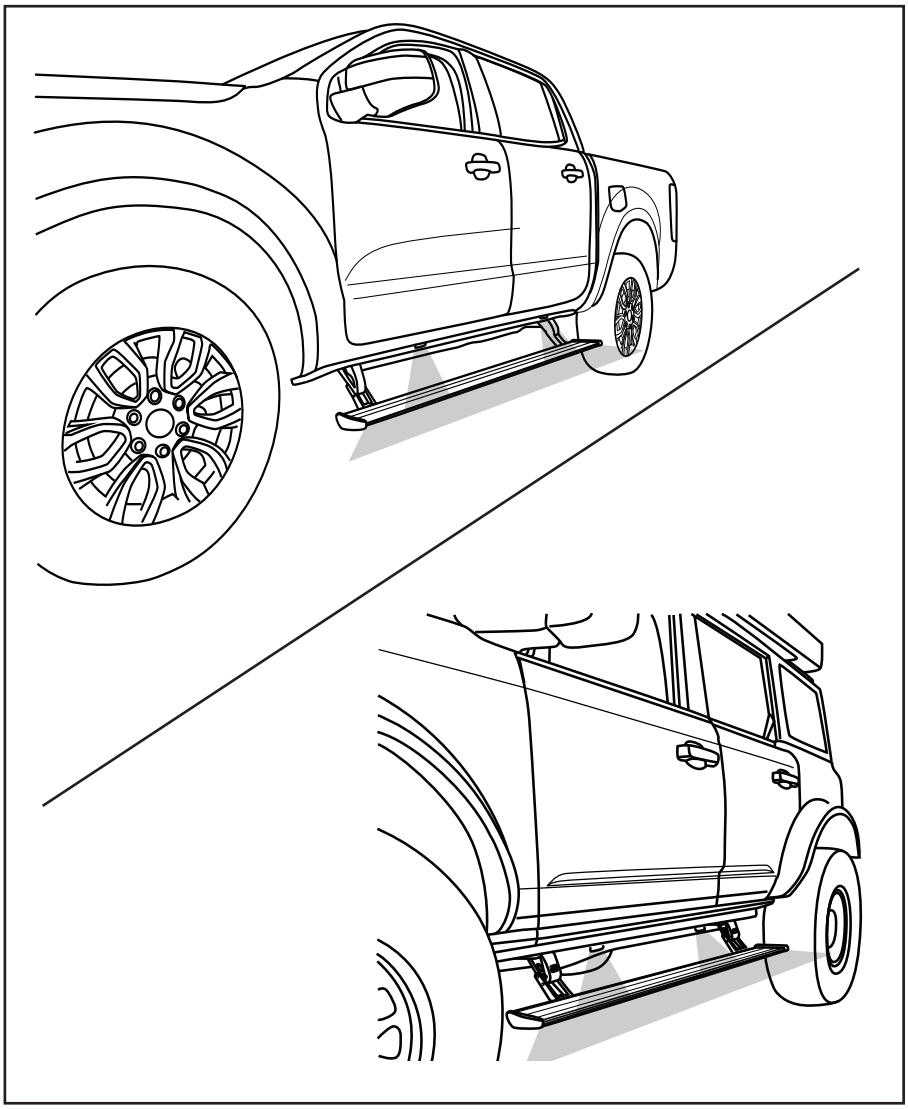
PowerStep Vision

APPLICATION	LENGTH	MODEL YR	PART #
Ford Ranger - Super Crew	72”	2019 - 2023	96140-01A
Ford Bronco - 4 Door	72”	2021 - 2026	96140-01A

INSTALLATION GUIDE



INSTALLATION TIME
3-5 Hours
Professional installation recommended

SKILL LEVEL
1 2 3 4
4= Experienced

TOOLS REQUIRED

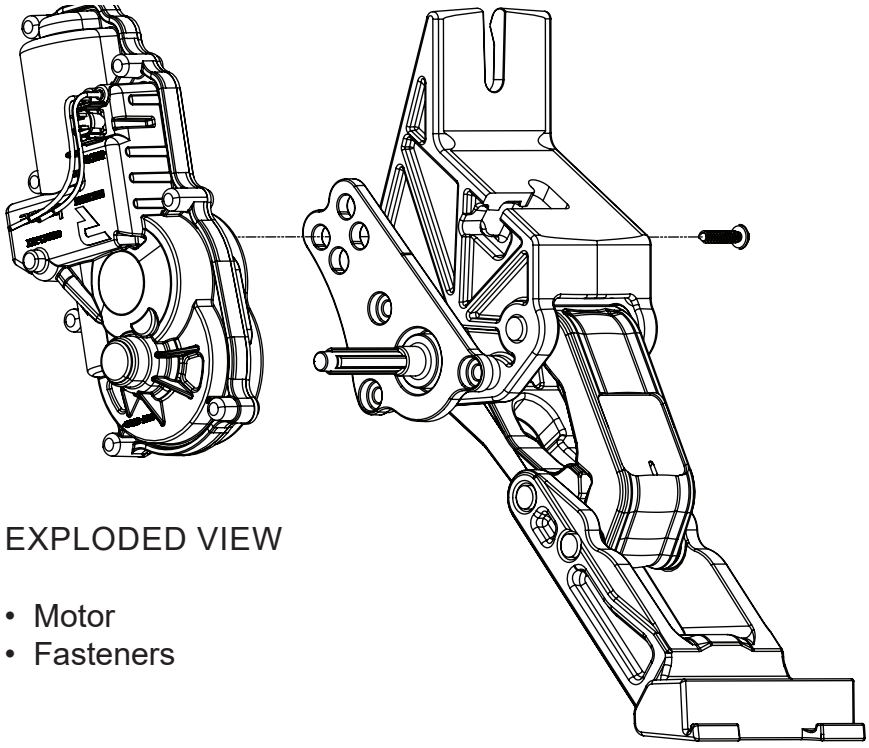
- ❑ Safety goggles
- ❑ Measuring tape
- ❑ 10 mm socket
- ❑ 10 mm ratchet wrench
- ❑ 13 mm ratchet wrench
- ❑ 15 mm ratchet wrench
- ❑ Ratchet wrench and extension
- ❑ Pliers
- ❑ Wire crimpers
- ❑ Wire stripper / cutter
- ❑ 3/16” H ex key wrench (allen wrench)
- ❑ Electrical tape
- ❑ Weather proof caulking (silicone sealer)
- ❑ 1/8” Drill bit
- ❑ 9/32” Drill bit
- ❑ Drill
- ❑ Heat Gun
- ❑ 6” Extension
- ❑T25 Torx-screw

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.

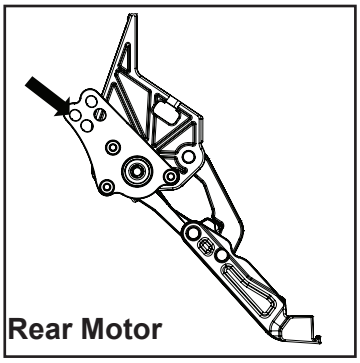
INSTALLATION GUIDE
Attaching motor to Linkage assembly



EXPLODED VIEW

- Motor
- Fasteners

Motor Install Orientation



Attaching motor to linkage assembly.

CAUTION: Dropping the assembly or any excessive impact MAY cause damage to the motor, please handle with care.

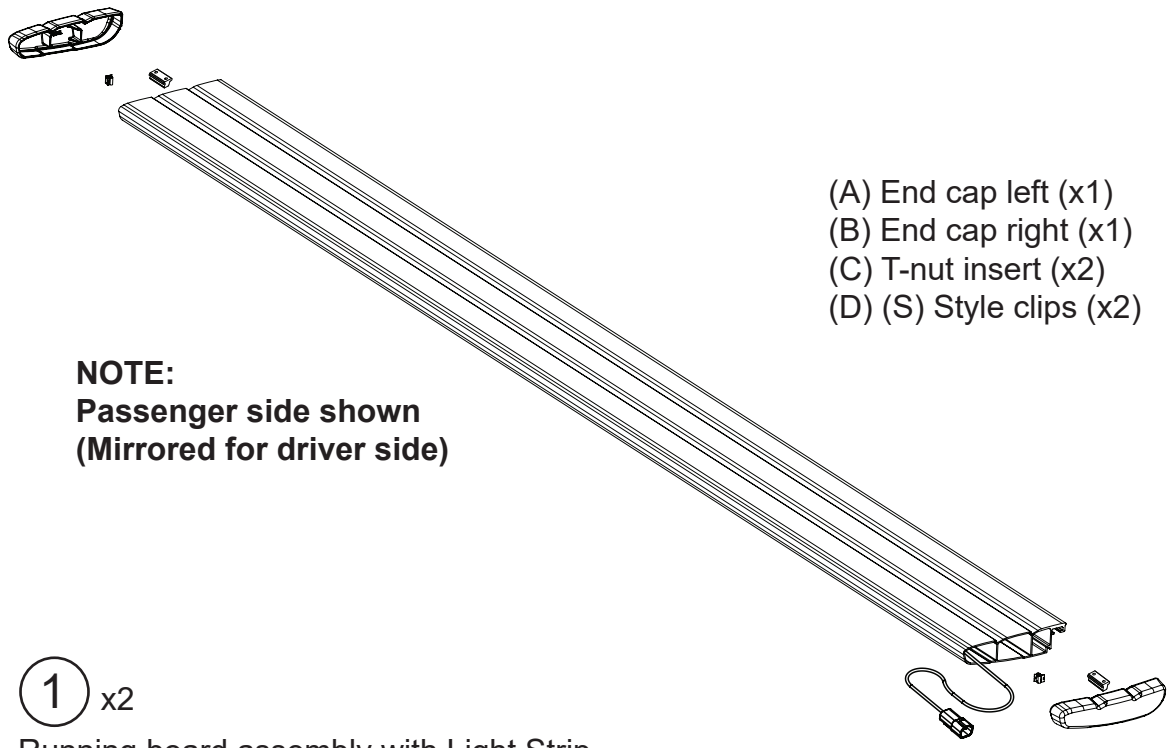
Instructions:
1. Slide motor on to drive shaft.
2. Rotate motor by hand while on the shaft to postion it to the mounting plate (orientation as shown above). **Note: make sure seat motor all the way before tightening.**
3. Fasten motor to the motor mounting plate using supplied PT Screw with T-25 Torx 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.

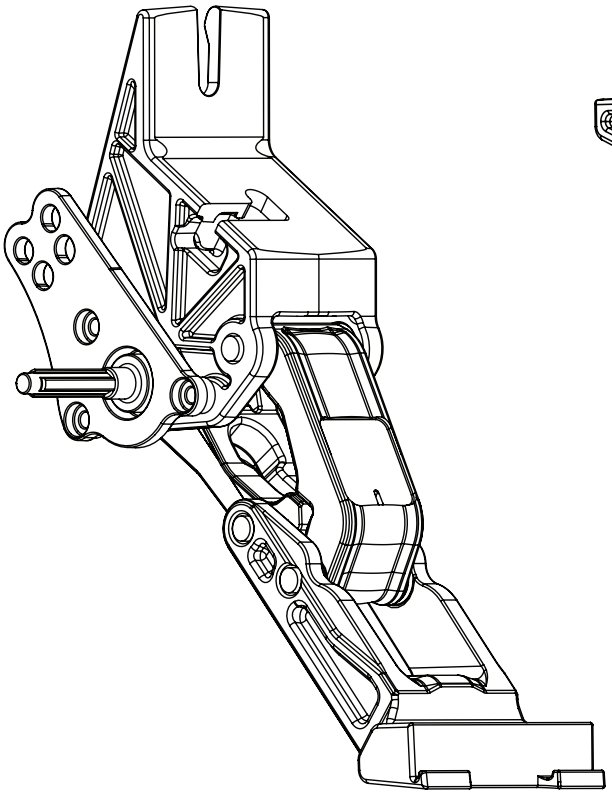
PARTS LIST AND HARDWARE IDENTIFICATION



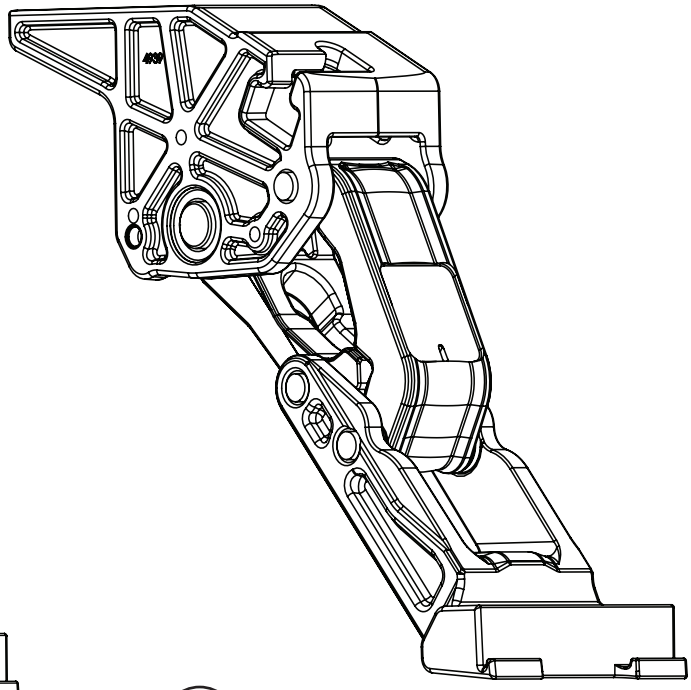
(A) End cap left (x1)
(B) End cap right (x1)
(C) T-nut insert (x2)
(D) (S) Style clips (x2)

NOTE:
Passenger side shown
(Mirrored for driver side)

1 x2
Running board assembly with Light Strip

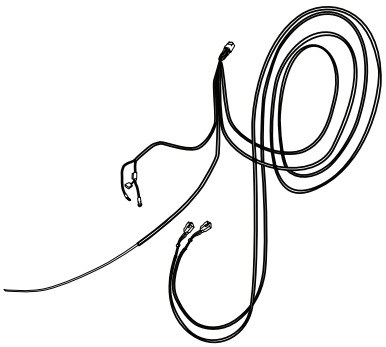


2 x2
Motor Linkage Assembly (Rear)

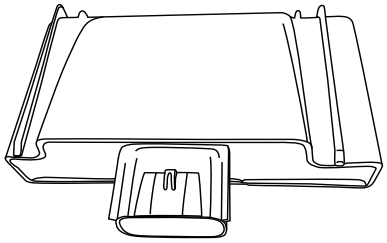


3 x2
Idler Linkage Assembly (Front)

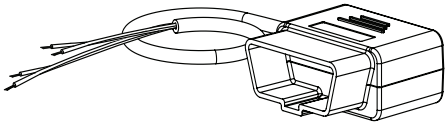
PARTS LIST AND HARDWARE IDENTIFICATION



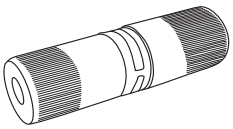
4
Wire Harness



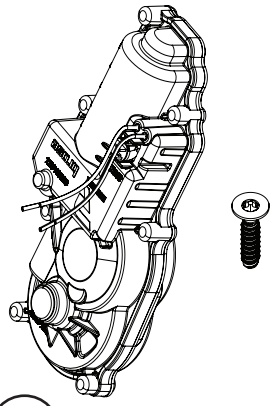
5
Controller SSA



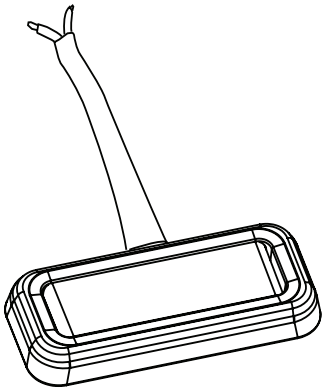
6
ODB II Plug
Smart Series



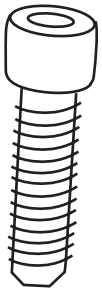
7 x4
Posi-Tite®



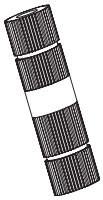
8 x2
Motor Assembly kit



9 x4
LED Lamp

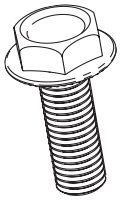


10 x8
Socket Cap Screw



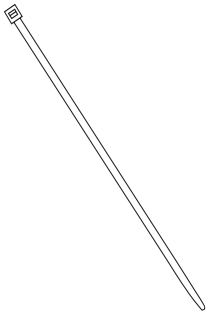
11
Posi-Lock™(Grey)

12 x2
Posi-Tap™ (Red/Black)

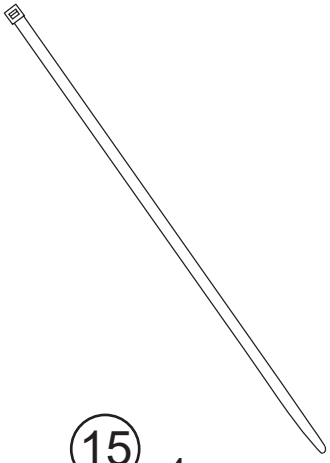


13 x 8
Hex Flange Bolt

PARTS LIST AND HARDWARE IDENTIFICATION

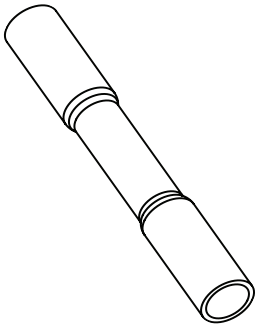


(14) x20
Cable Tie 7”

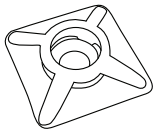


(15) x4
Cable Tie 11”

(16) x5
Grommet

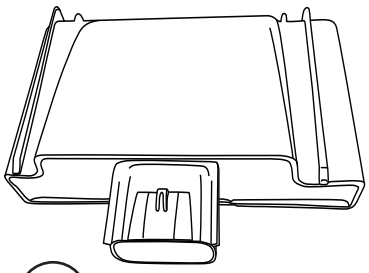


(17) x8
Butt Connector



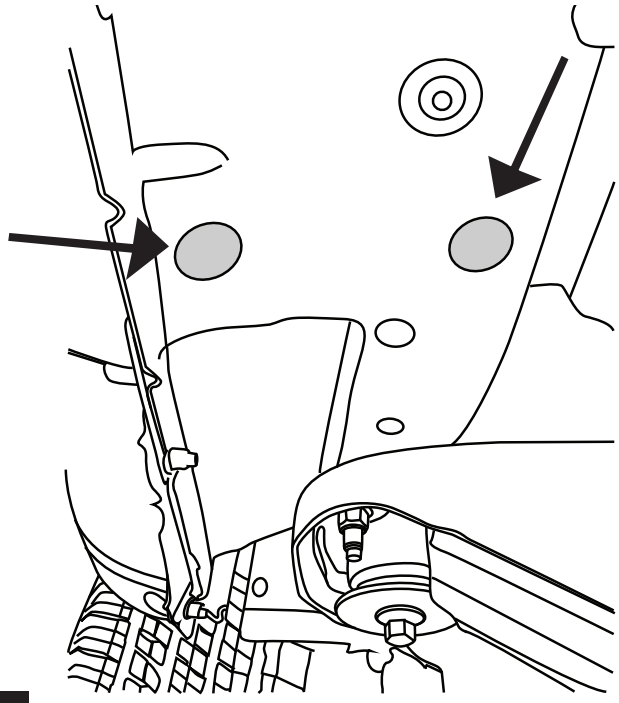
(18) x4
Wire clip

(19) x4
Clip



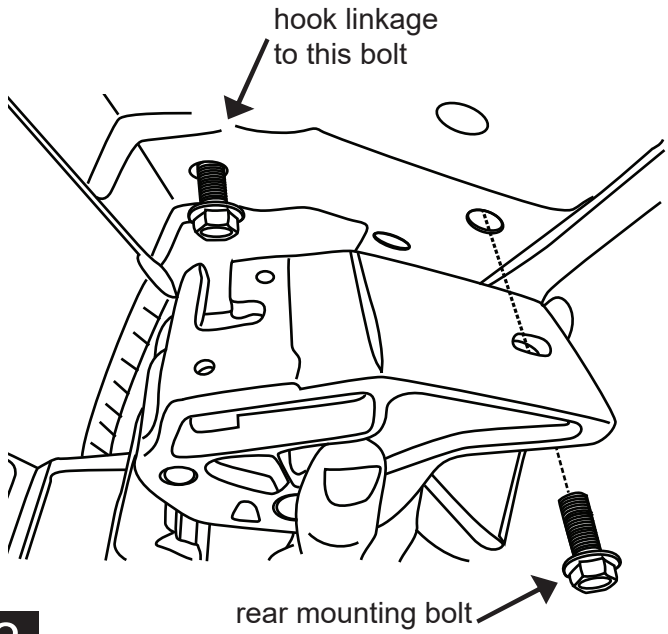
(20)
Controller RGB

Locate **Front Idler linkage** location. If plastic plugs are present, remove them to expose threads.



1

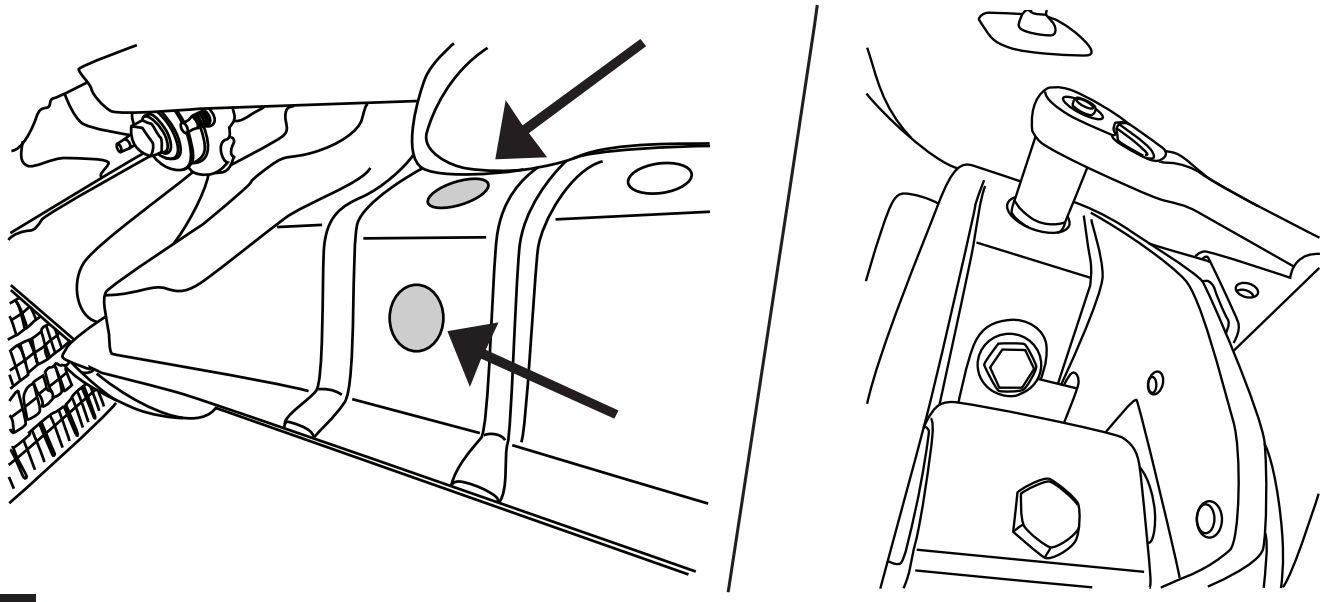
Pre thread supplied M10 flange bolt (13) as shown) and hook linkage (3) over bolt as shown. Once linkage is in position thread in rear linkage mounting bolt (13). Snug up bolts but do not torque.



2

Locate **Rear Drive linkage** location. If plastic plugs are present remove plastic plugs to expose threads.

Pre thread supplied M10 flange bolt (13) and hook linkage over bolt. Once linkage (2) is in position thread in rear linkage mounting bolt. Snug up bolts but do not torque.



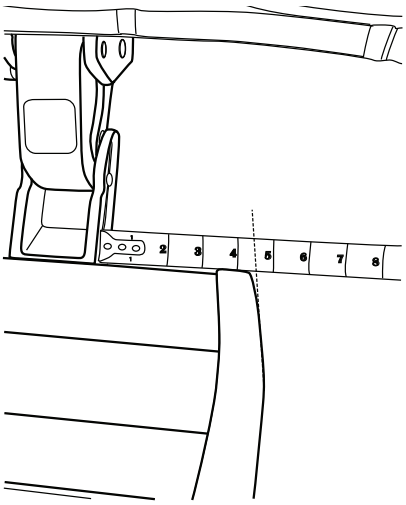
3

Install Running Board (1) to linkages.
Ranger: Measure approx. 4.5” from back of linkage to tip of board.
Bronco: Measure approx. 9.5” from back of linkage to tip of board.

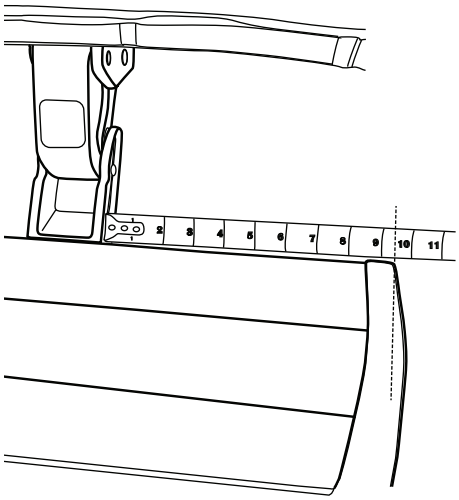
In order to prevent binding follow the steps below.

Note: Hand cycle Boards between each step.

1. Tighten socket cap screws (10) 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.**

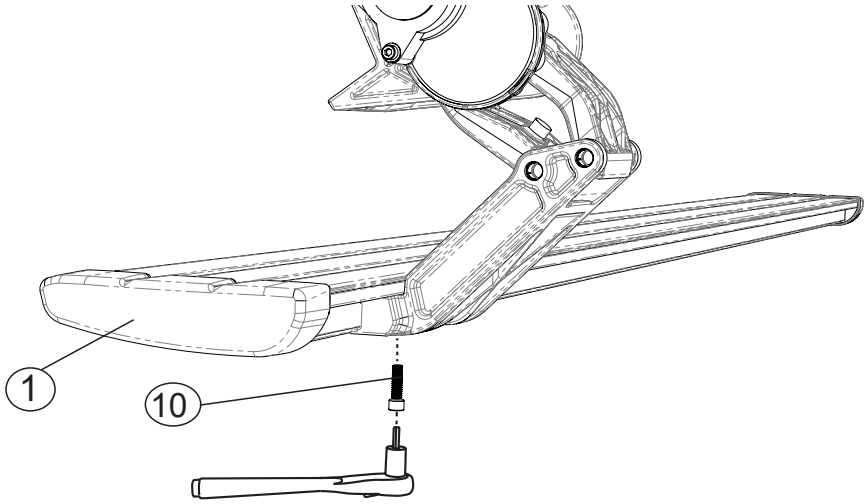


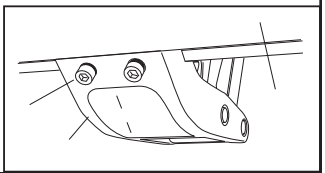
Ford Ranger



Ford Bronco

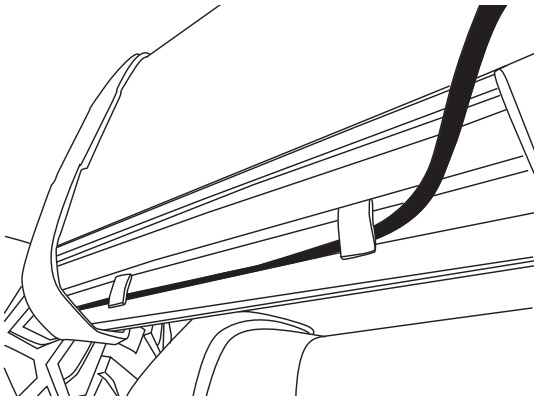
4





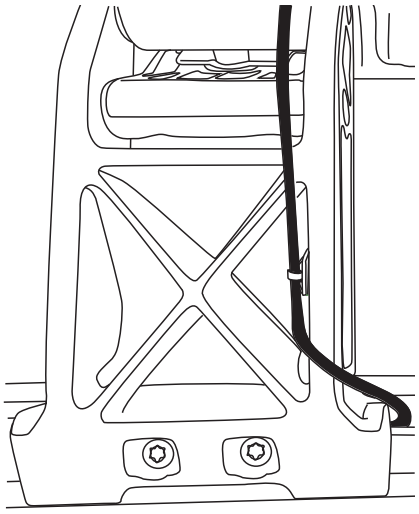
5

Route RGB wire to front linkage as shown. Use provided Extrusion wire clips (19) to hold wire in place.



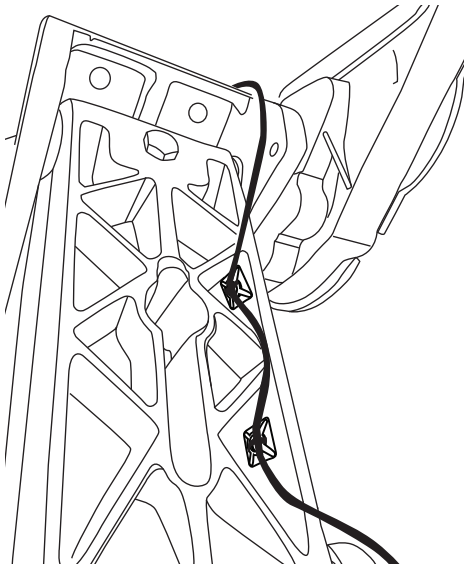
6

Clean surface with alcohol and use provided adhesive backed wire clips (18) to hold wire on lower mount.
Note: Linkage pocket desing vary.



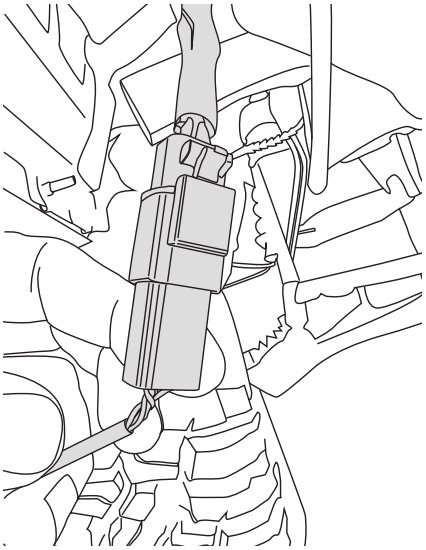
7

Clean surface with alcohol and use provided adhesive backed wire clips (18) to hold wire on inner linkage as shown.



8

Connect RGB light plug into main harness of powerstep. Secure all remaining RGB wiring with supplied Zip ties (14). Cycle steps to ensure wiring is clear from any moving components of the powerstep.



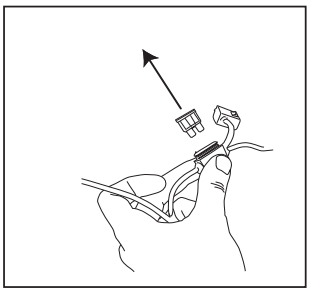
9

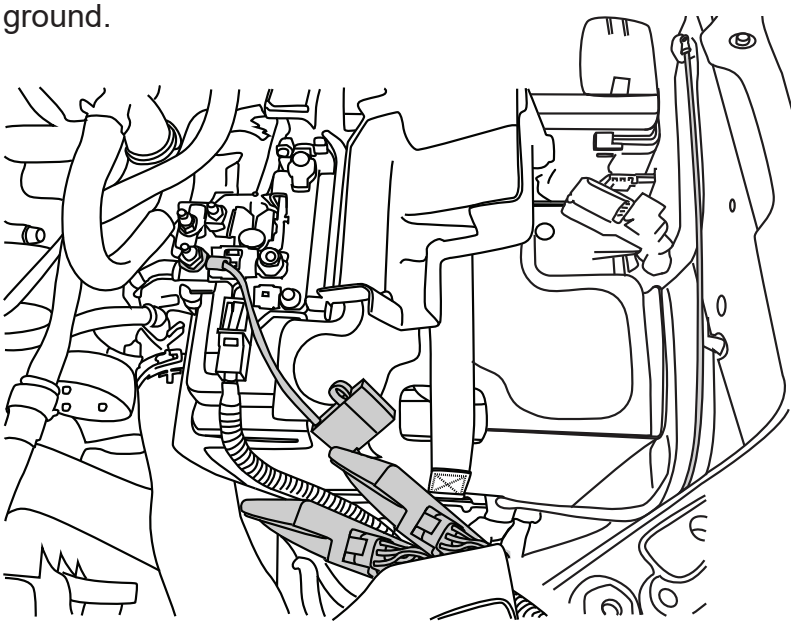
IMPORTANT NOTE!

Ford Ranger follow steps 11 through 17.
Ford Bronco skip to step 18.

Ford Ranger ONLY:

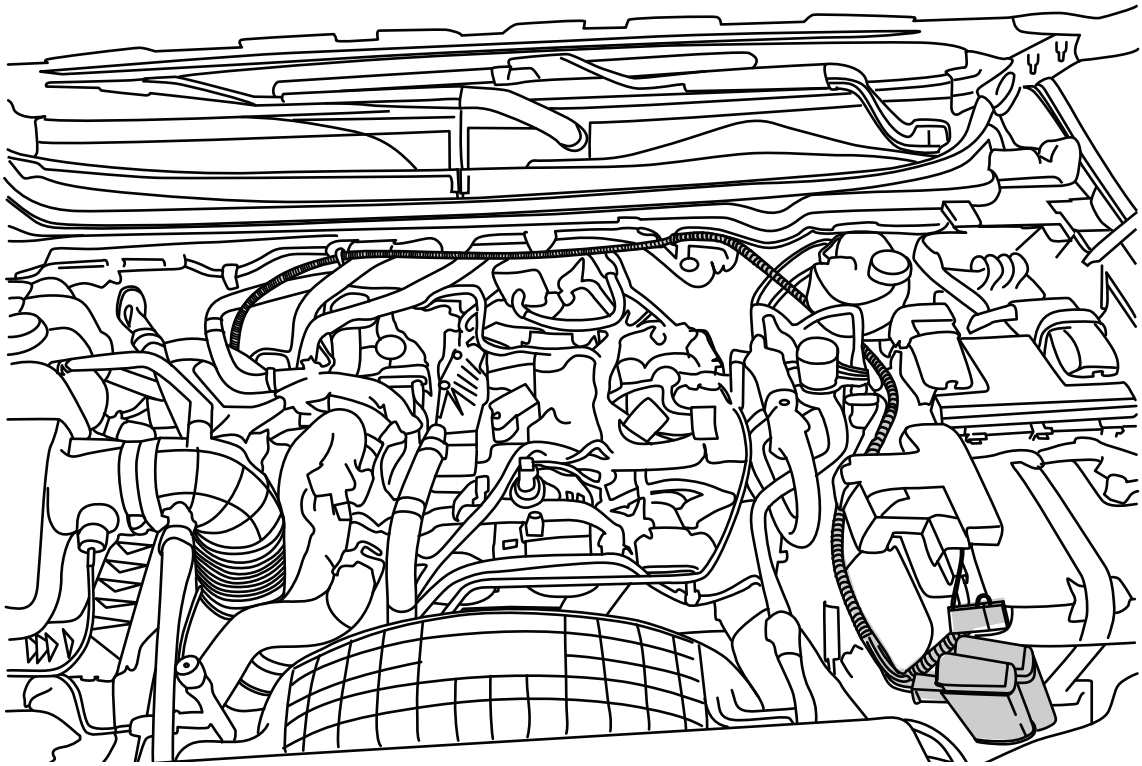
Remove Fuses from powerstep wire harness. Mount both controllers (5) (20) using supplied zip ties (15) to harness in front of battery (as shown). Connect positive leads from harness. Red to positive battery terminal and black to body ground.





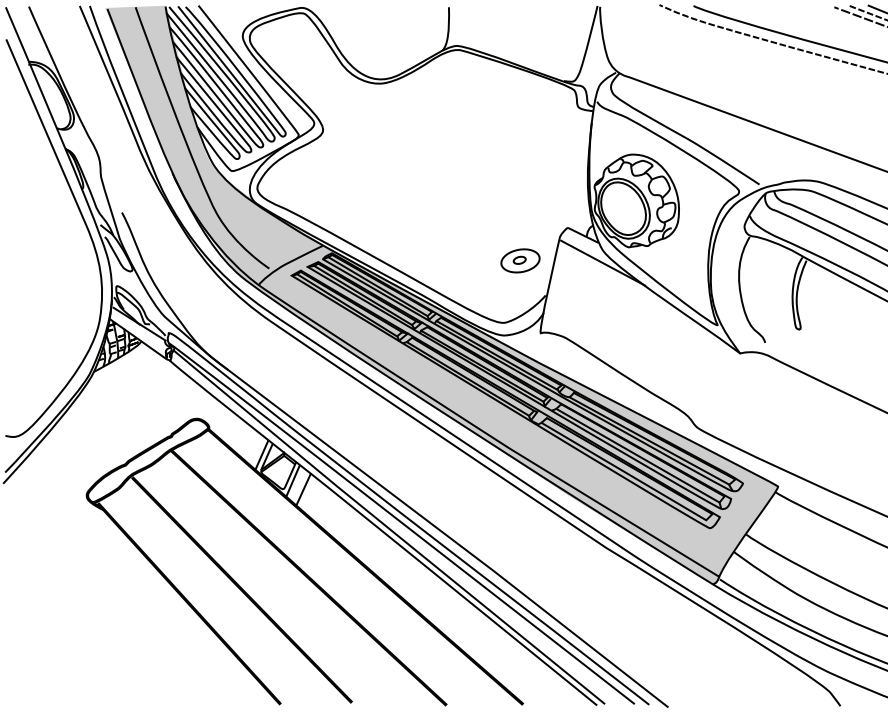
10

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, scure with supplied zip ties (14). Ensure loom is free from steering and exhaust components.



11

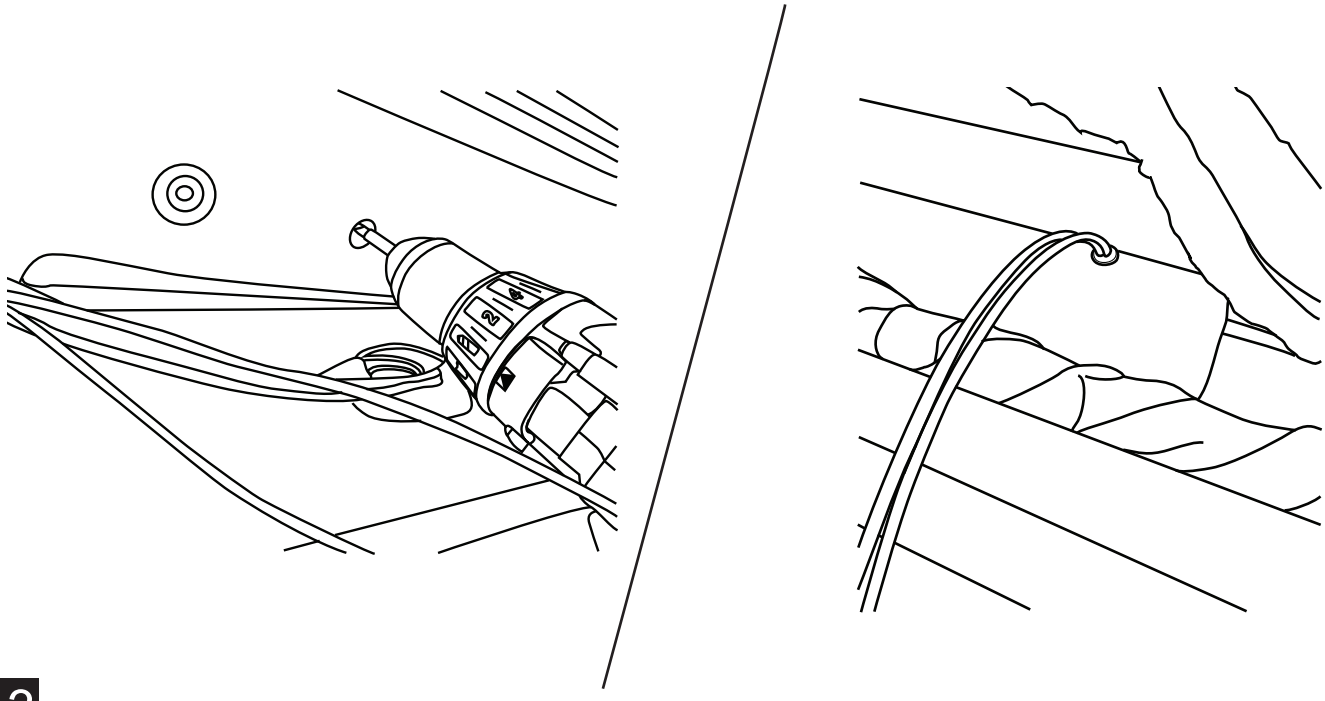
Remove floor mat and sill plate cover to expose floor below.



12

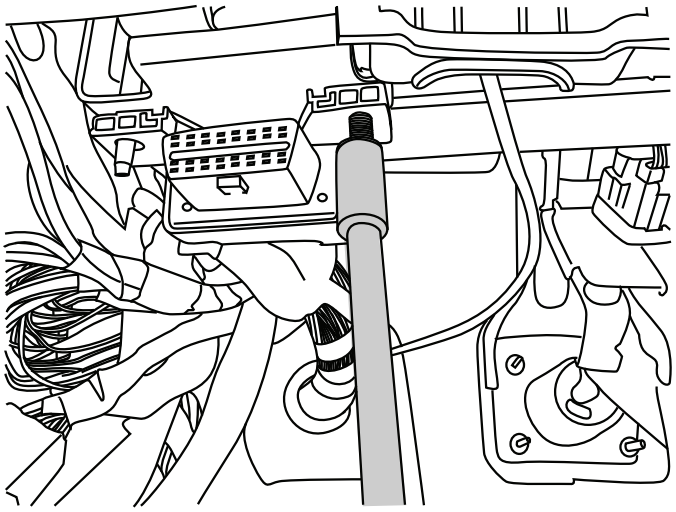
Locate hole forward of rubber plug. Approx location is in footwell area of cab. Use a 9/32” drill bit and drill thru floor. While drilling lift carpet to ensure drill bit does not damage carpet inside cab.

Insert provided grommet (19) and trigger wire thru hole. Route wire towards kick panel area.



13

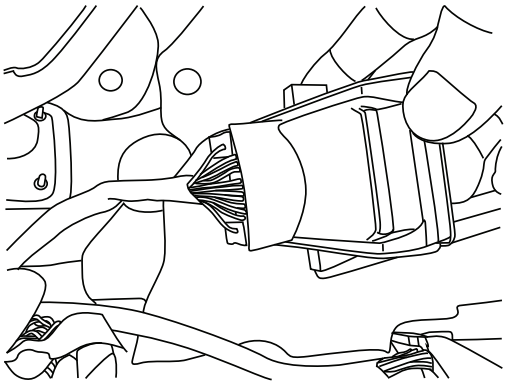
Locate OBD port and remove bolt and nut holding it in place with 8mm socket to gain better access to back side of plug.

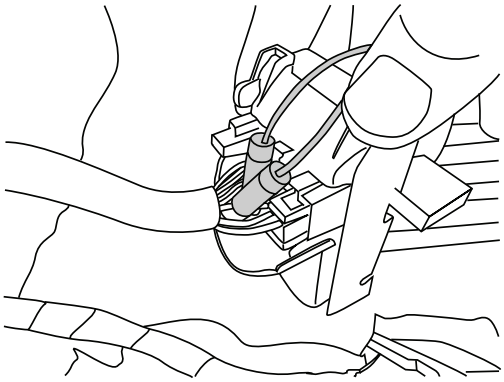


15

Locate the following wires and connect with supplied Posi-Tap™ to the following wire colors listed below.

Factory Can Wire	OBD Module wire Color
Grey with Orange Stripe	White Wire
Purple with Orange Stripe	Blue Wire

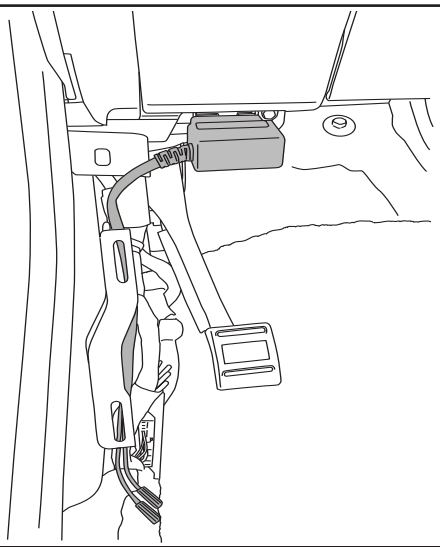




16

Use supplied Posi-Lock™ connector to attach the yellow wire of the OBD harness to the main harness. Lastly reinstall Factory OBD port removed in step 19. Plug in module to OBD port on the vehicle.

Reinstall sill plate removed from step 13.



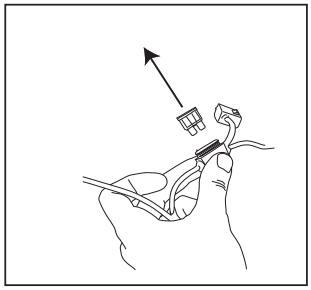
17

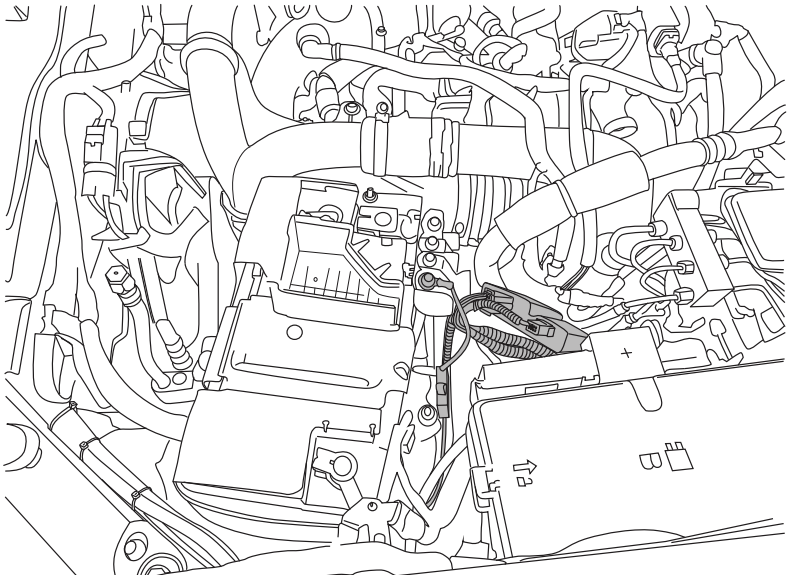
IMPORTANT NOTE!

Ford Bronco continue here, step 18.
Ford Ranger skip to step 22 on page 14.

Ford Bronco ONLY:

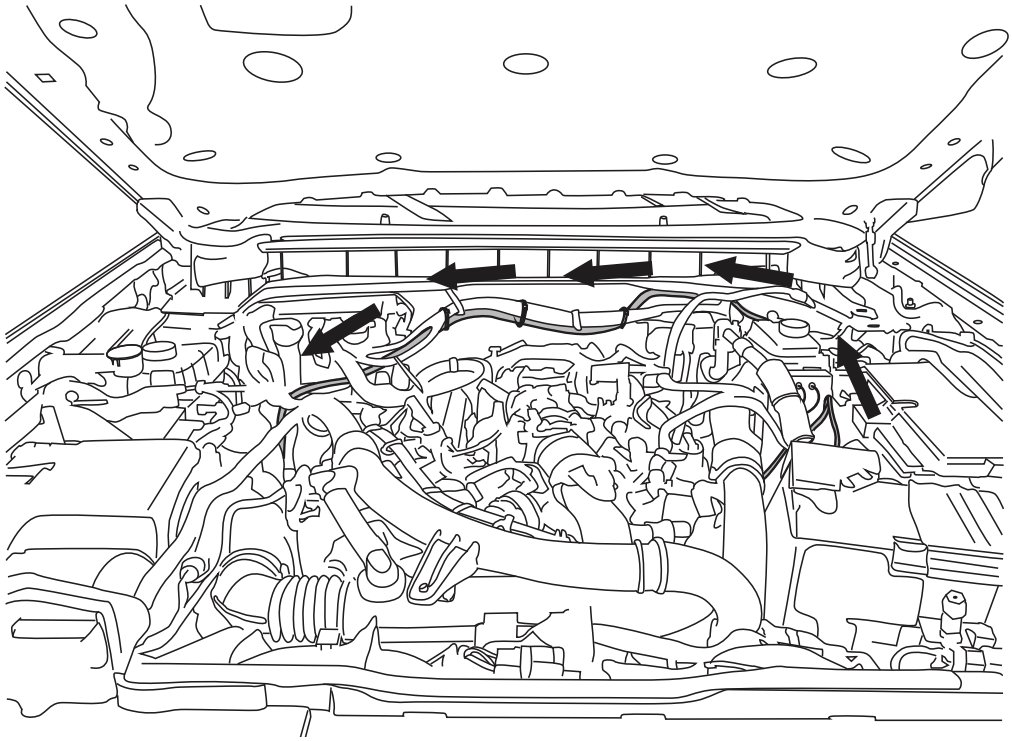
Remove Fuses from powerstep wire harness. Mount controllers (5 and 20) using supplied zip ties (16) to harness in front of battery (only one controller shown in image). Connect positive leads from harness. Red to positive battery terminal and black to negative battery terminal.





18

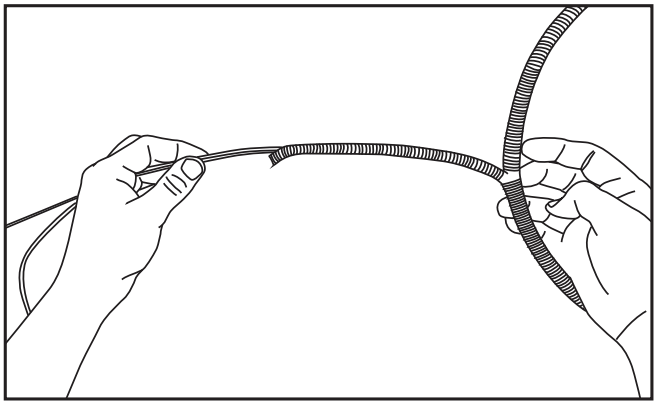
Route the two wire harness legs down over to each wheel well. Long leg will run across to passenger side, short leg will run down to driver side, secure with supplied zip ties (15). Ensure loom is free from steering and exhaust components.



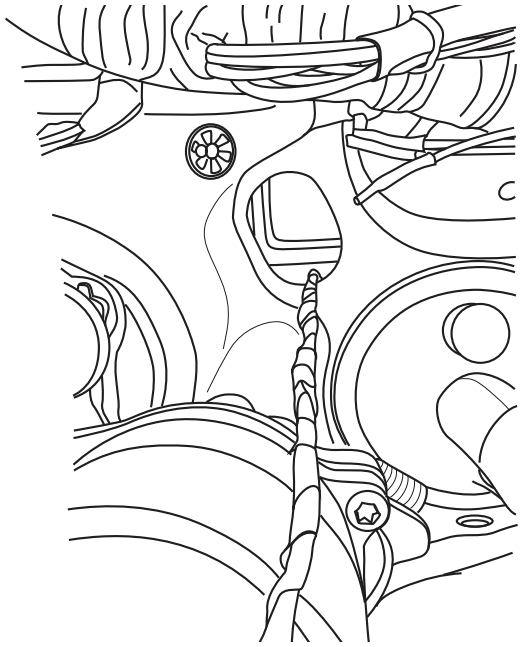
19

Ford Bronco ONLY:

Peel back small conduit with yellow wire inside to approx. 8” from junction. Trim excess conduit and tape end. This will allow wire to be exposed beyond the grommet when inserting into the cab of the vehicle. Excess wire will need to be trimmed for this application after being inserted into the vehicle.

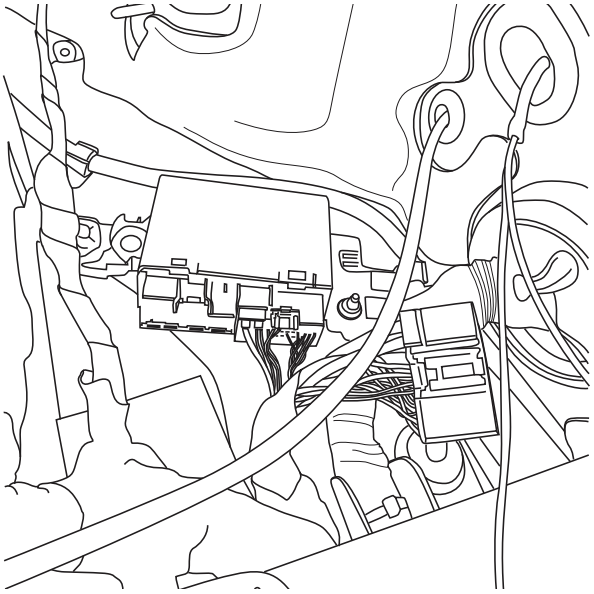


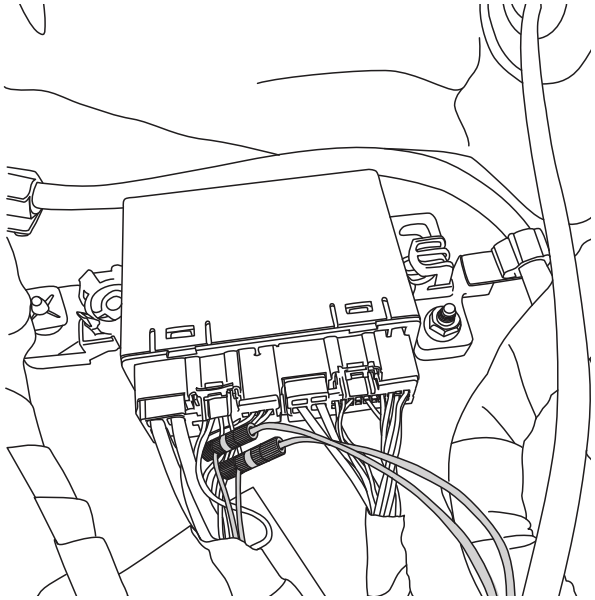
Locate oval grommet on driver side of firewall and push out. Poke small hole in grommet and thread trigger wire into cab of vehicle.



20

Locate the following wires and connect with supplied Posi-Tap™ (12) to the following wire colors listed below.



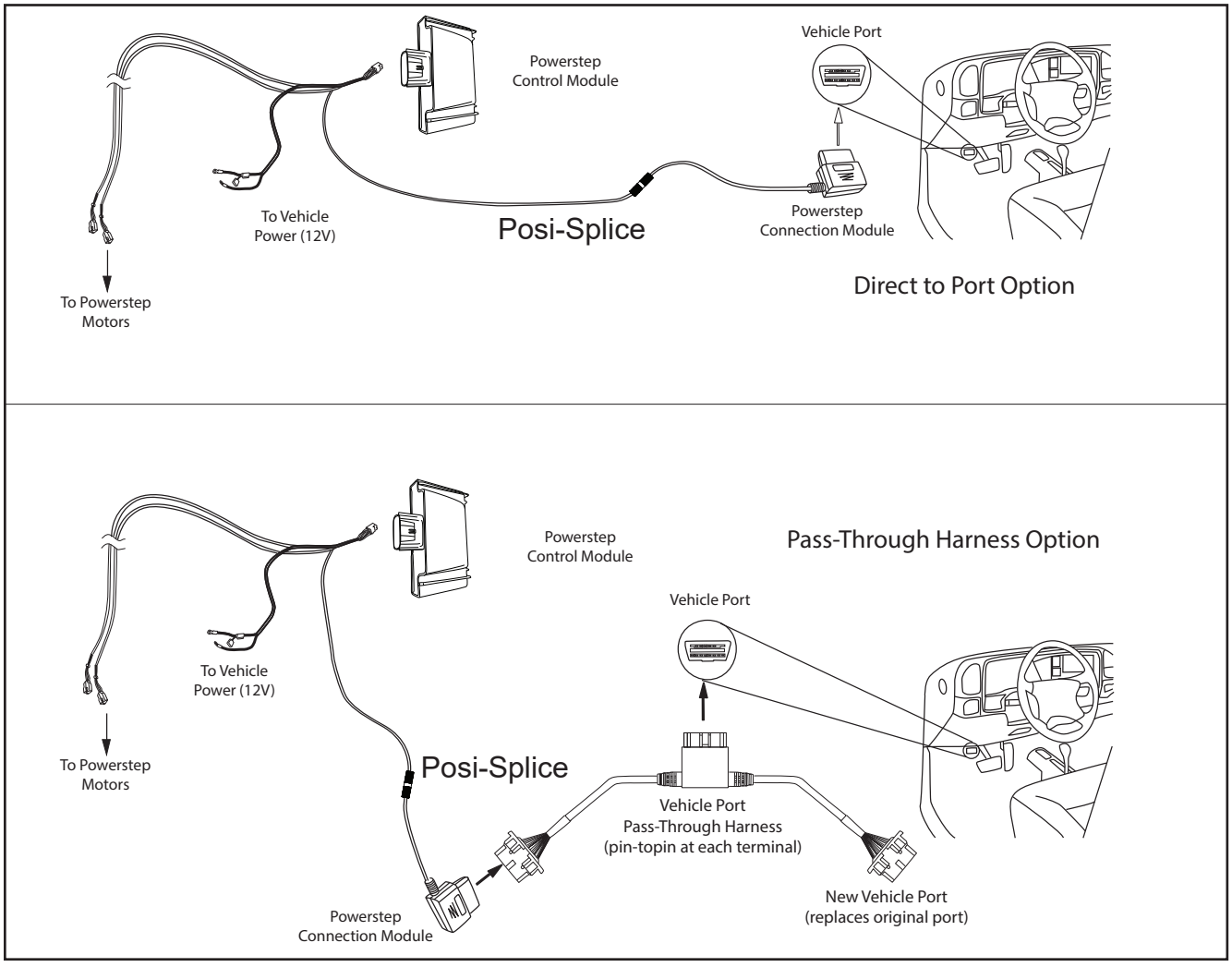


2021 - 2026	
Factory Can Wire	**OBD Module Wire Color**
Grey with Orange Stripe	White Wire
Purple with Orange Stripe	Blue Wire

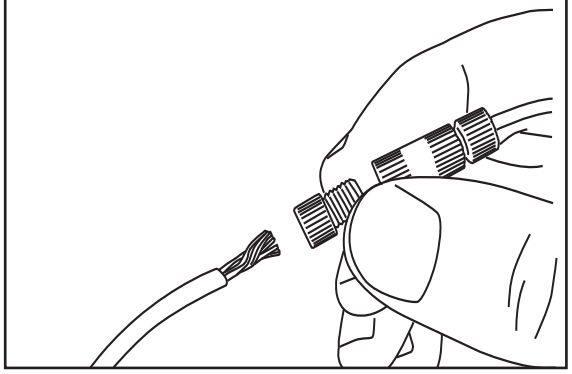
21

Ford Ranger and Bronco proceed here:

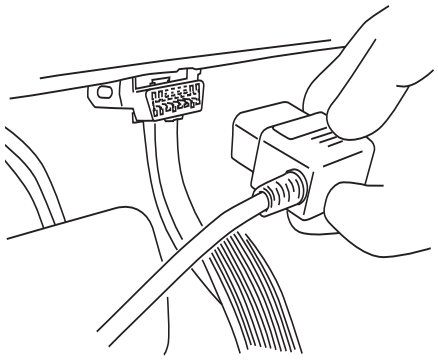
OBD II install: Use Supplied Posi-Lock™ (11) connector to attach the Plug and Play Module to the Harness. Attach matching color on the harness to the wire on the module. Plug in module to OBD II port on the vehicle. Secure harness with supplied tie wraps. ***Note: If the OBD II pass thru harness (76404-01A) 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.***



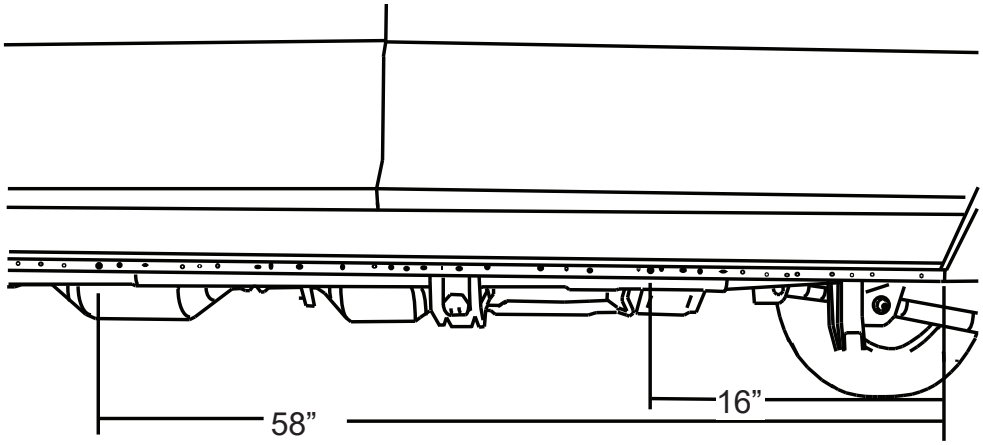
Wire OBD II connector with Posi-Lock™ (11).



OBD II Connector located below steering column.

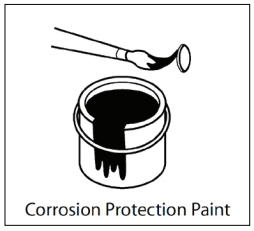


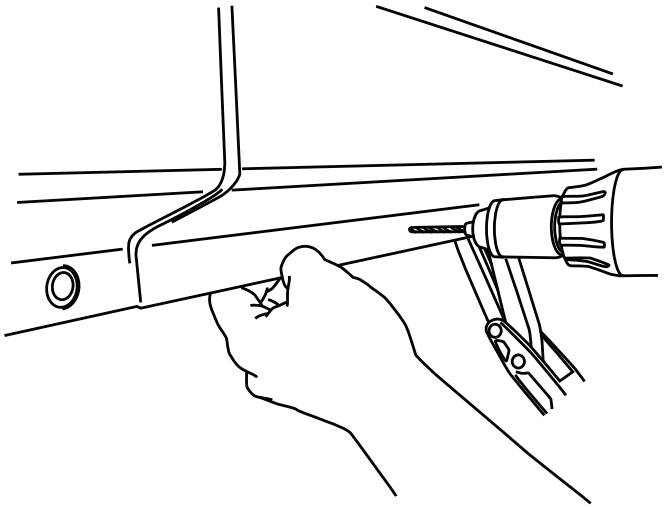
On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 16” for the front LED Light and 58” for the rear LED Light.



23

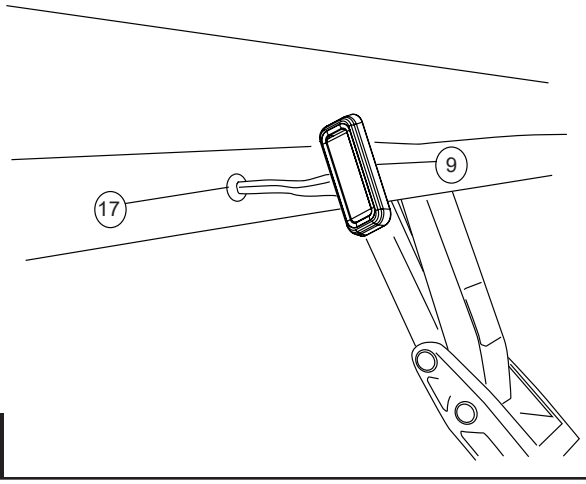
Drill a 9/32” hole through the pinch weld at marked locations. Deburr all holes. After drilling apply paint to holes to prevent rusting





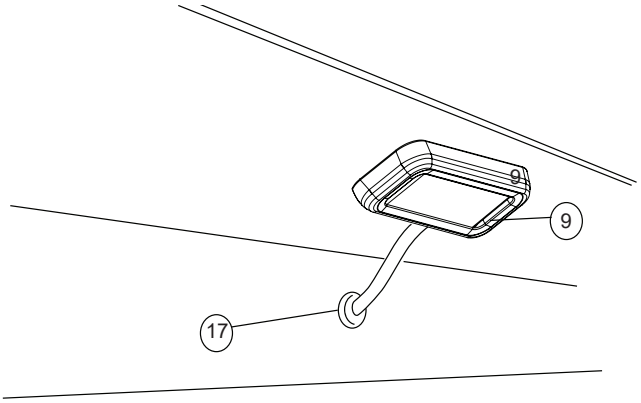
24

Insert grommet into drilled holes. Insert lamp wires through the grommets. (Silicon lube will help wires slip through grommets).



25

Affix lamp to rocker panel surface. Make sure lamp is affixed to a flat, clean surface.



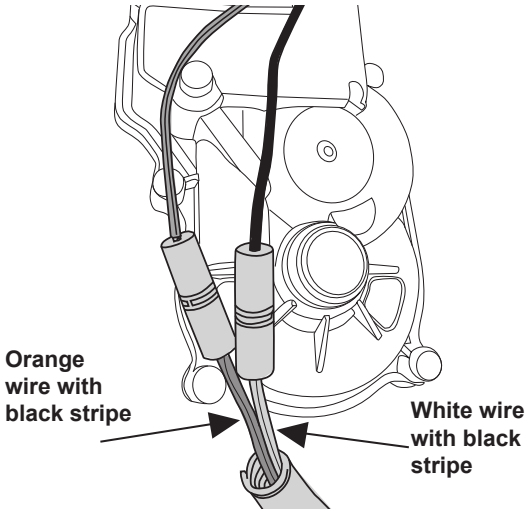
26

Use Method A for both driver and passenger motors configuration.

A. Motor spinning the shaft clockwise direction:

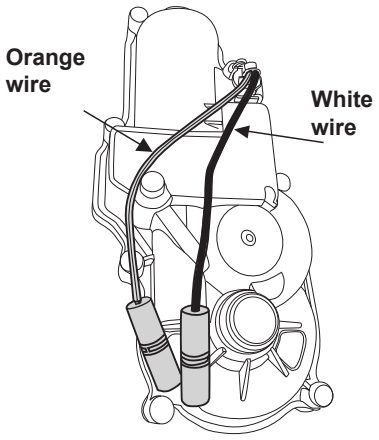
1) First, install one Posi-Tite® (7) onto white wire from the motor. See image on right.

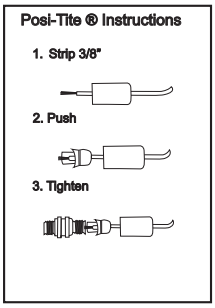
2) Install second Posi-Tite® (7) onto orange wire from motor. See image on right.



3) Next, connect the white wire with black stripe from the wire harness to the other end of the Posi-Tite® (7) that is connected to the all black wire from first step on left.

4) Connect the Posi-Tite® (7) the orange wire from the motor with the orange with black stripe wire from the harness.

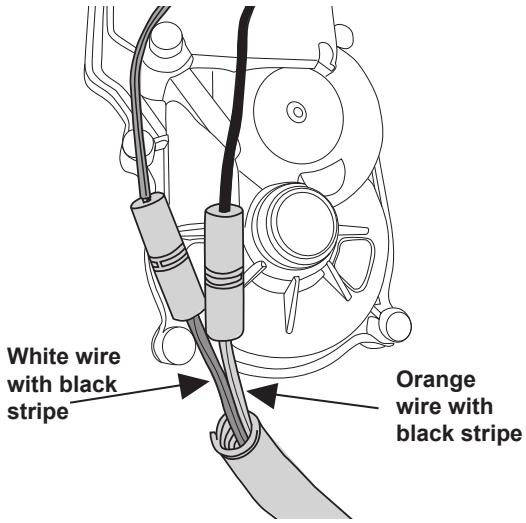




B. Motor spinning the shaft counter clockwise direction:

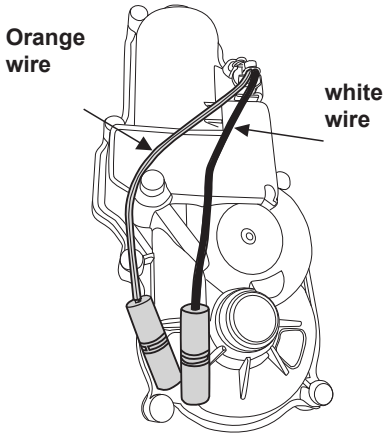
1) First, install one Posi-Tite® (7) onto white wire from the motor. See image on right.

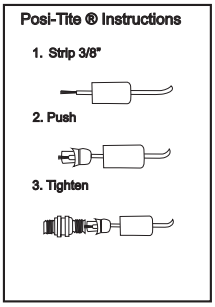
2) Install second Posi-Tite® (7) onto orange from motor. See image on right.



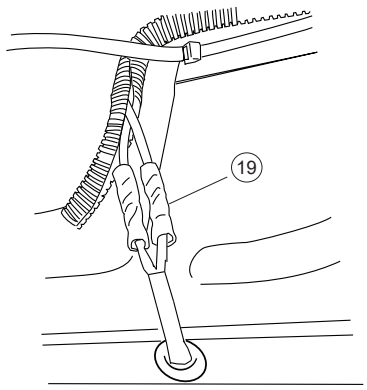
3) Next, connect the orange wire with black stripe from the wire harness to the other end of the Posi-Tite® (7) that is connected to the all white wire from first step above.

4) Connect the Posi-Tite® (7) the orange from the motor with the white with black stripe wire from the harness.



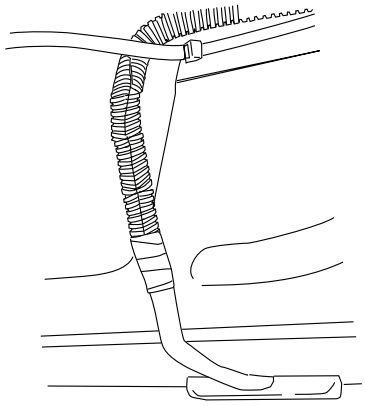


Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube.



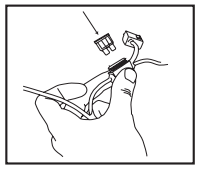
27

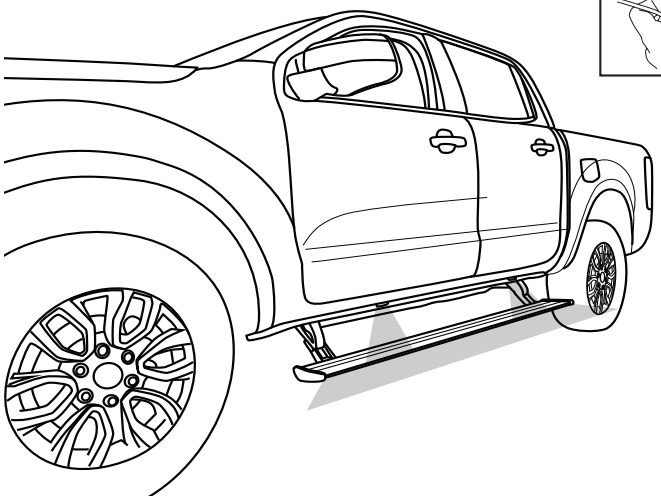
Close and wrap with conduit and electrical tape. Secure all loose wires with cable ties, with lamp wires pulled upward to avoid any wire snagging.

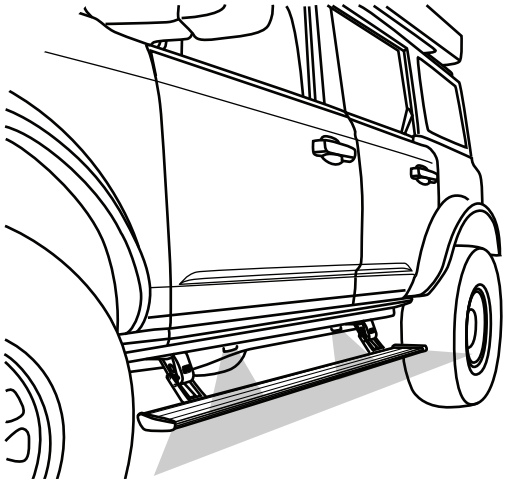


28

Reinstall fuses. 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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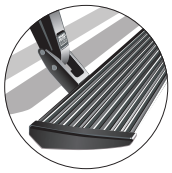
REALTRUCK / AMP RESEARCH PowerStep Vision

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.

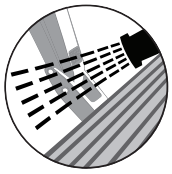


Automatic power deploy:
The running boards will extend down and out when the doors are opened.

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.