

INSTALLATION GUIDE



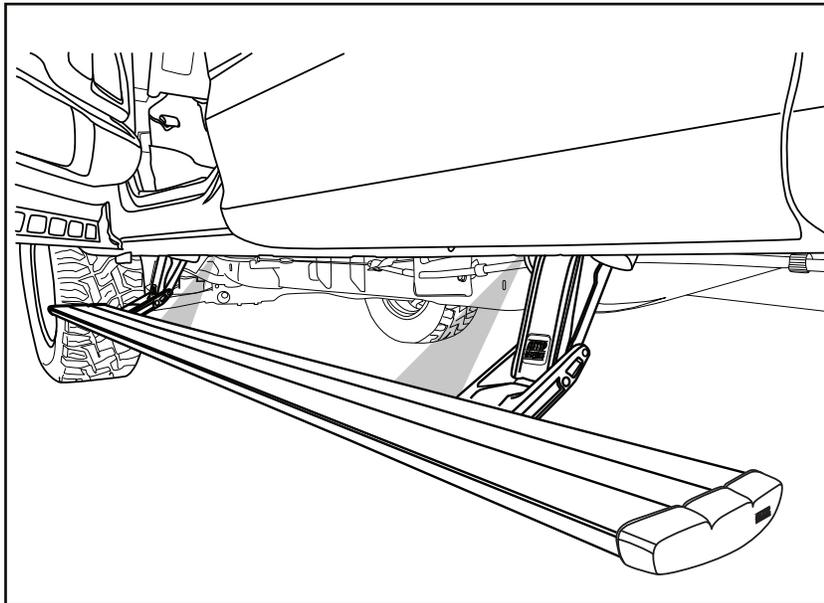
PowerStep
MADE IN USA

**SMART
SERIES**



TM

APPLICATION	LENGTH	MODEL YR	PART #
Ford F150 SuperCab	75"	2015 - 2020	86151-01A
Ford F150 SuperCrew	85"	2015 - 2020	86151-01A



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)



SMART SERIES APP: Download App to your phone and unlock the latest features including override, light controls, and diagnostics.



SCAN ME

WARRANTY

5-Year Limited Warranty

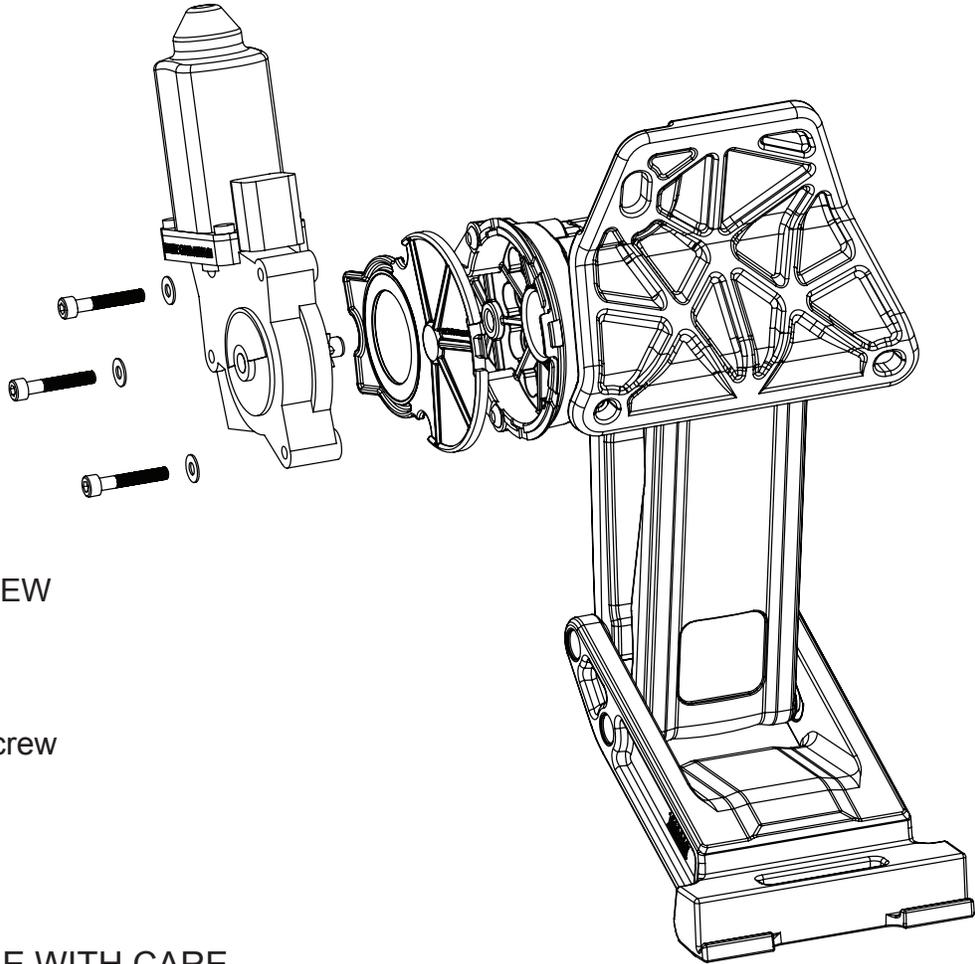
AMP RESEARCH TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 7:00 AM - 5:00 PM PST

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INSTALLATION GUIDE

Attaching motor to linkage assembly

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



EXPLODED VIEW

- Motor
- Socket cap screw
- Washer

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.

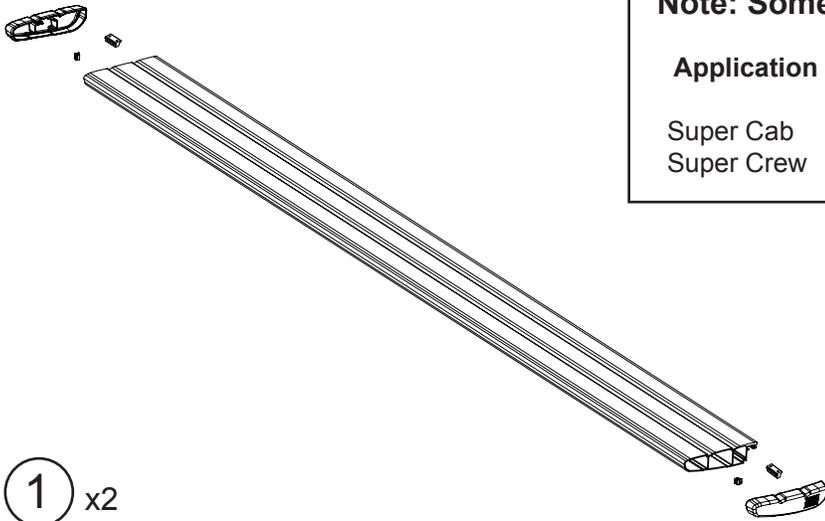
Note: Some Applications require modification.

Application

Cut Length

Super Cab
Super Crew

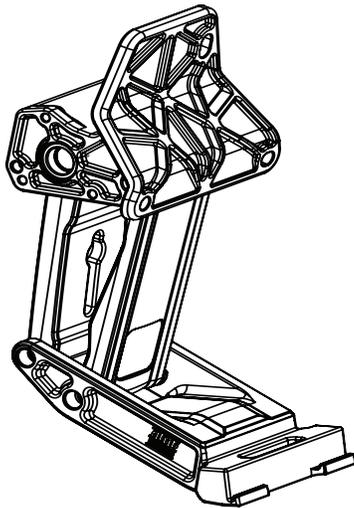
75" (Trim 10")
85" (No Modification Required)



① x2

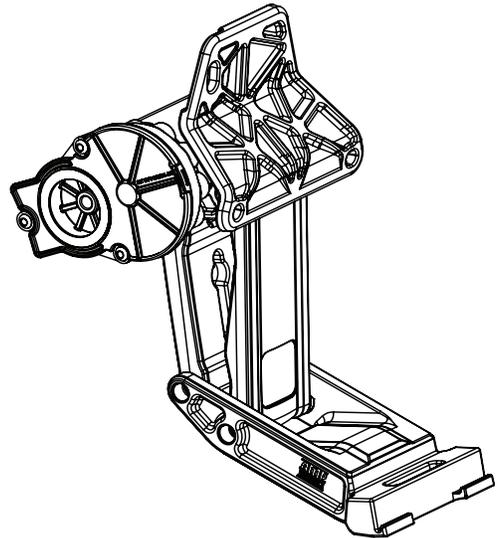
Running board assembly

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



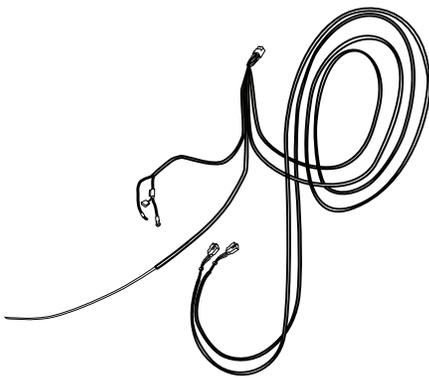
② x2

Idler linkage assembly



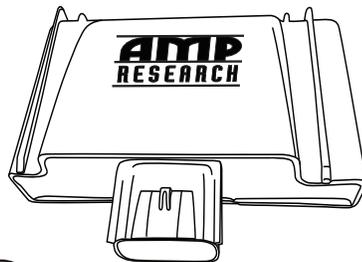
③ x2

Motor linkage assembly



④

Wire harness



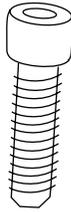
⑤

Controller SSA

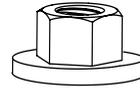
PARTS LIST AND
HARDWARE
IDENTIFICATION



6
Posi-Lock™ (Grey)



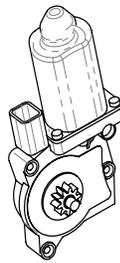
7 x8
Socket cap screw



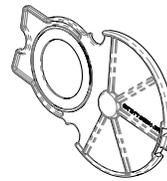
8 x12
Nut with Conical Washer



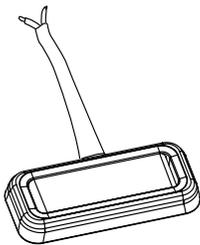
9
Grommet (Only needed
on SuperCab)



10 x2
Motor



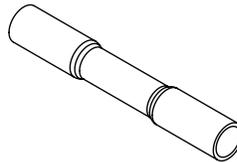
11 x2
Gear Cover



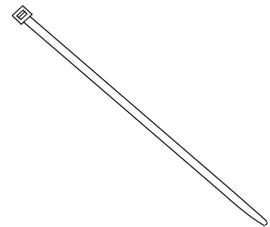
12 x4
LED Light



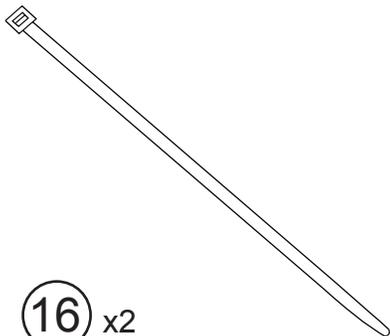
13 x4
Grommet



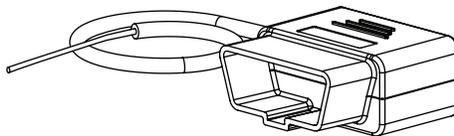
14 x8
Butt Connector



15 x20
Cable Ties 7"



16 x2
Cable Ties 11"

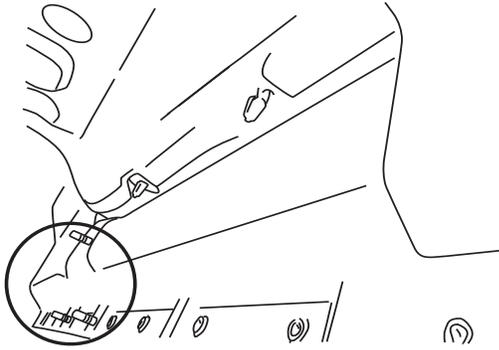


17
ODB II Plug FD15 (smart series)

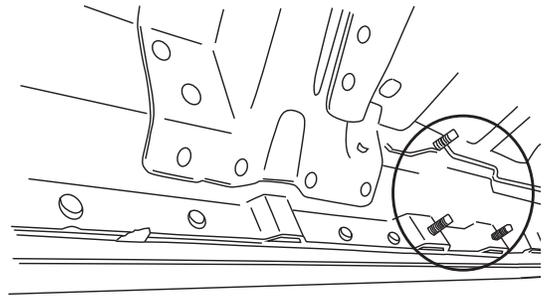


18 x2
(S) Style Clip (Only used
when trimming board length)

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.

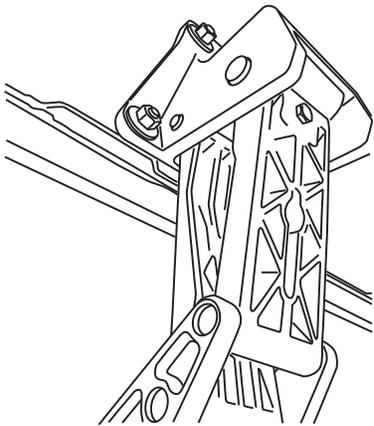


1 Driver Side Rear Stud Location

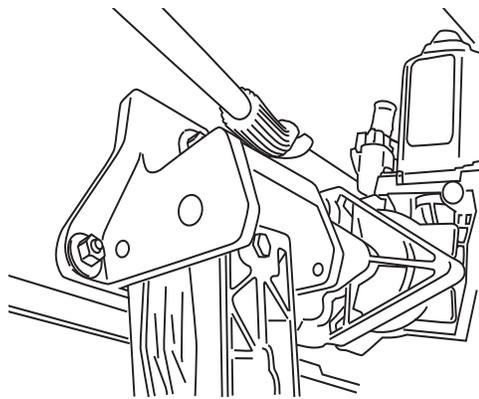


Driver Side Front Stud Location

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)

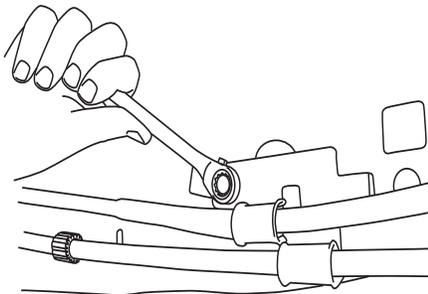


2 Idler Linkage (Rear)

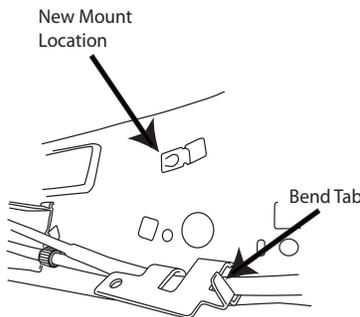


Drive Linkage (Front)

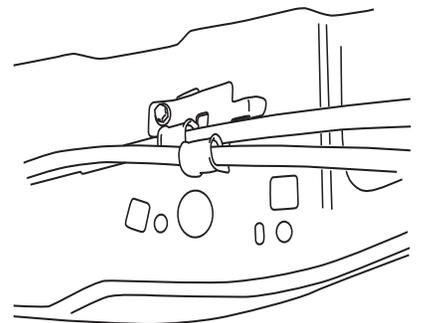
Relocate Brake Cable Guide as shown in following steps.



A. Remove bolt with 13mm box wrench or socket.



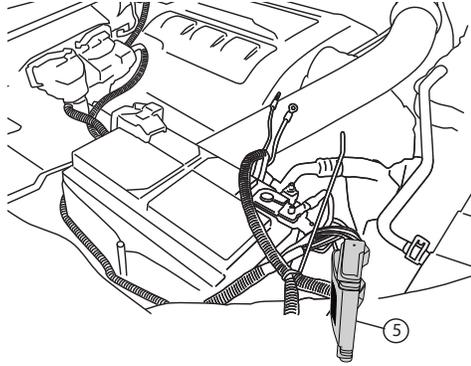
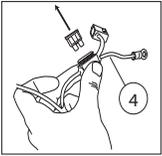
B. Remove and relocate J-Clip to location shown above. Bend bracket tab flat to reinstall.



C. New location of Brake Cable Guide installed shown above.

3

Remove fuse from wire harness

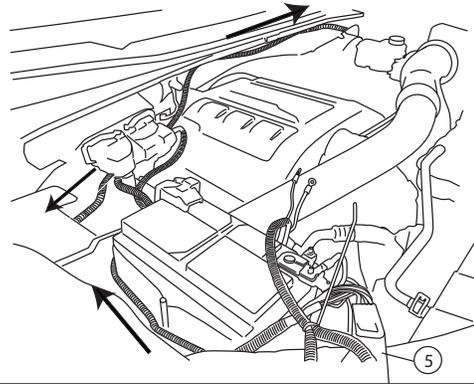


4

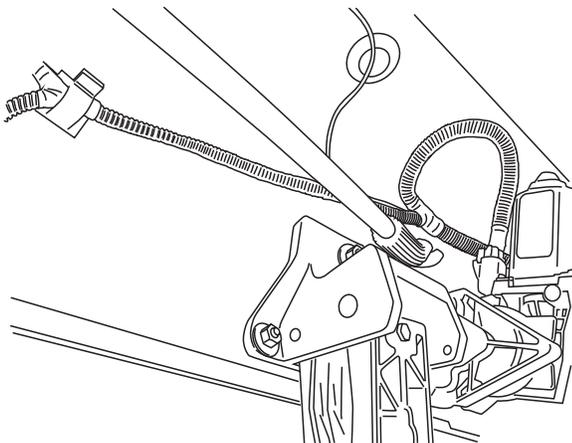
Attach wire harness to controller (make sure connector locking tabs fully engage). Mount controller with the two 11" tie wraps to factory conduit, just forward of battery.

5

Connect red and black power leads to battery. Red lead goes to positive. Route shorter leg of harness down passenger-side wheel well and longer leg of harness down along driver side wheel well. Secure with tie wraps.

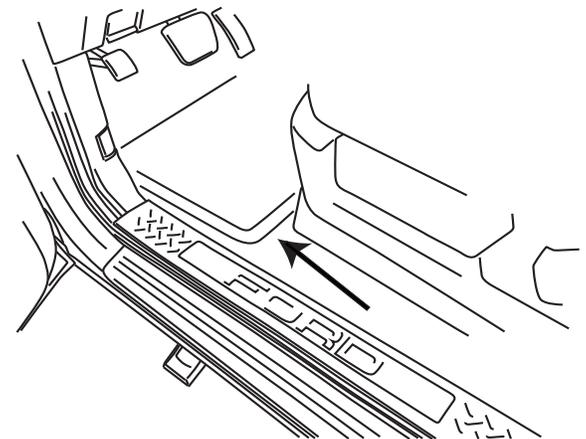


Route factory harness underneath vehicle and plug in motors (both sides). Route remaining LED light wires back towards rear of vehicle.



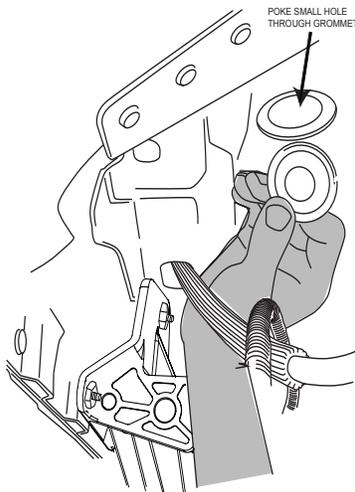
6

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



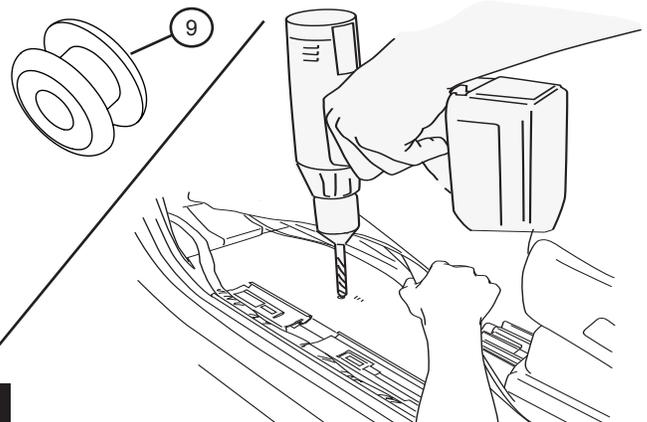
7

On Supercrew models, 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.



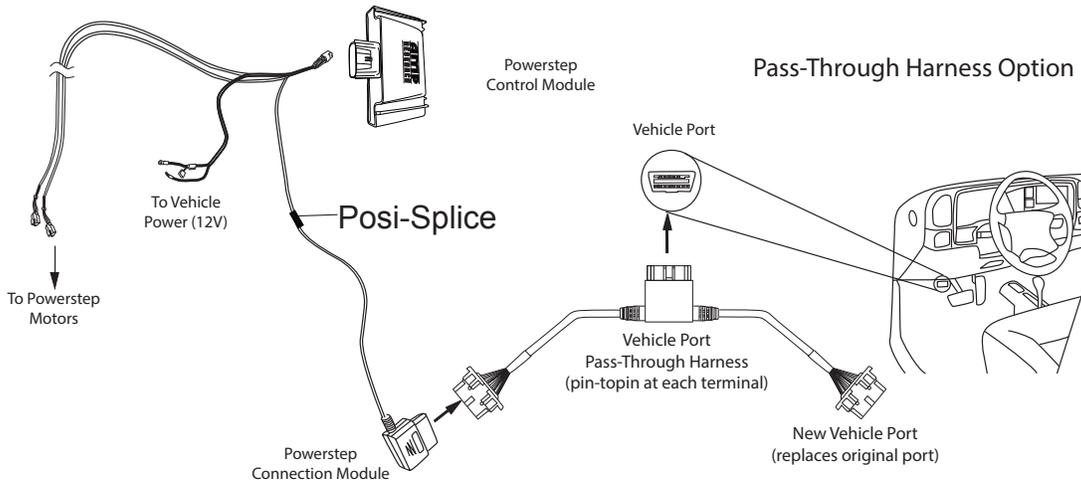
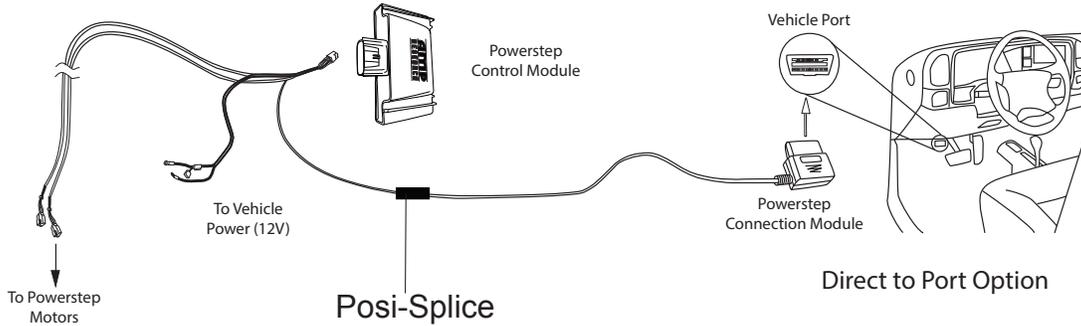
8

On Super Cab models, use a 9/32" drill bit to drill hole through floor and insert grommet (#9) that is supplied with kit. Thread the wire through and apply silicone sealant.



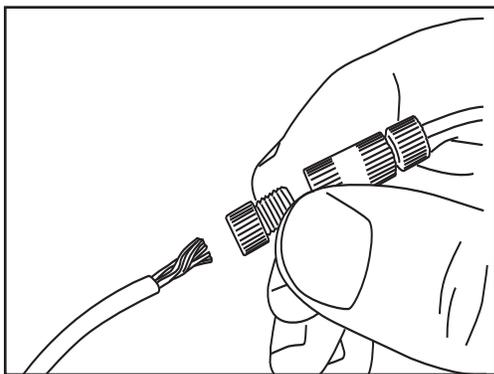
9

OBD II install: Use Supplied Posi-Lock™ connector to attach the Plug and Play Module to the Harness. Attach yellow wire on the harness to the yellow wire on the module. Plug in module to OBD II port on the vehicle. Secure harness with supplied tie wraps.

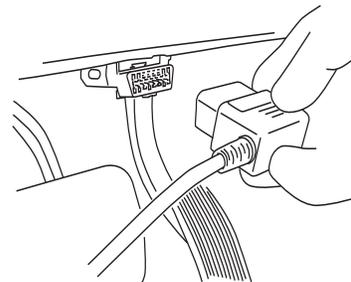


10

Wire OBD II connector with Posi-Lock™.

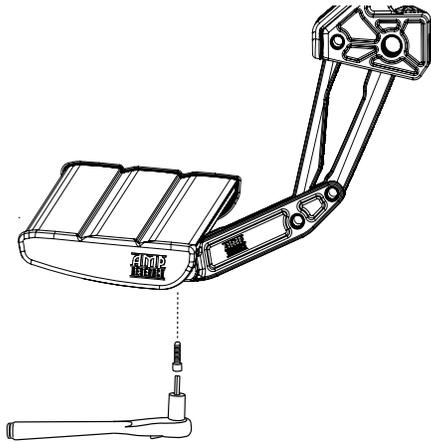


OBD II Connector located below steering column.



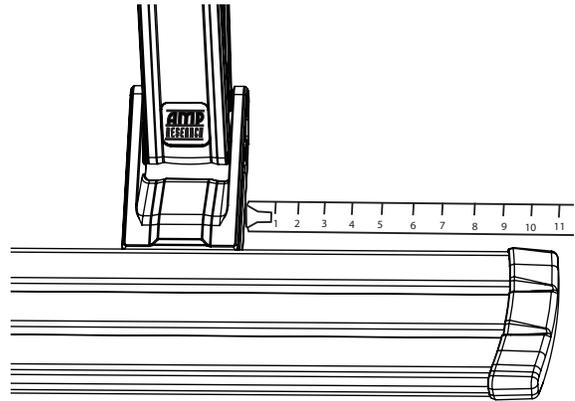
11

Attach step, sliding the mounting T-nut into position. Torque to 10 ft lbs (13.5 Nm)



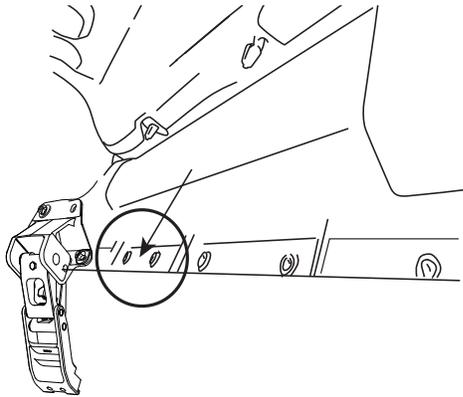
12

On each side of the vehicle measure from the rear linkage to end of the board. Measurement should be approximately 11" as shown below.



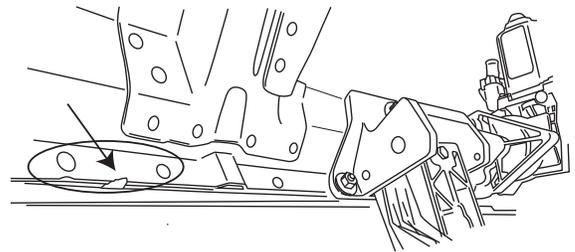
13

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 22" & 66" from front door edge.



Drive Side Rear Mounted

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

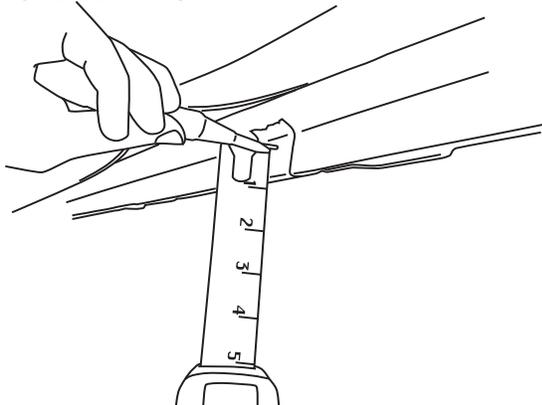


Drive Side Front Mounted

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

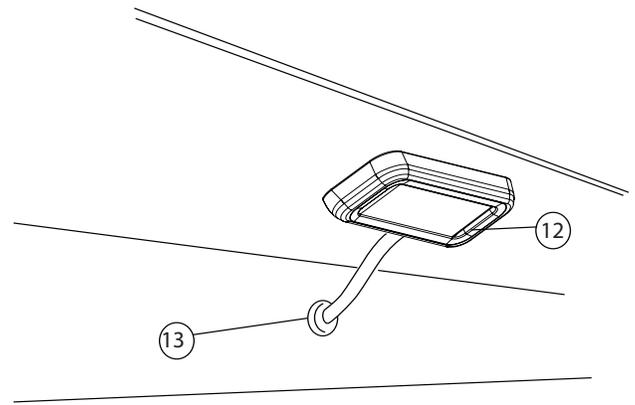
14

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 (#13) for LED Wire.



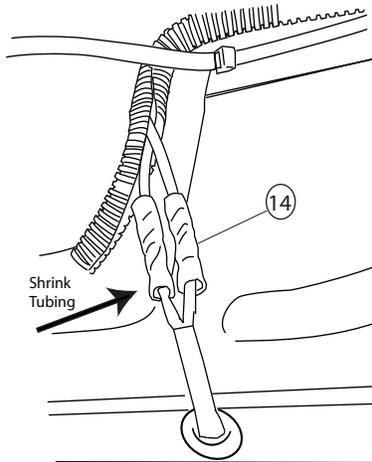
15

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

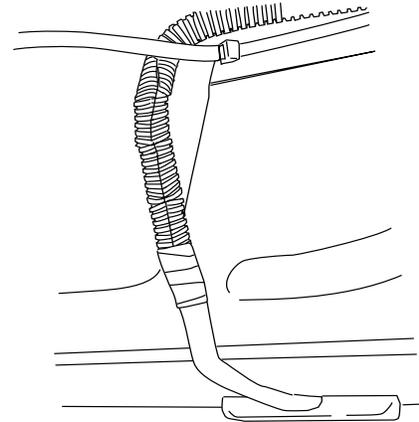


16

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



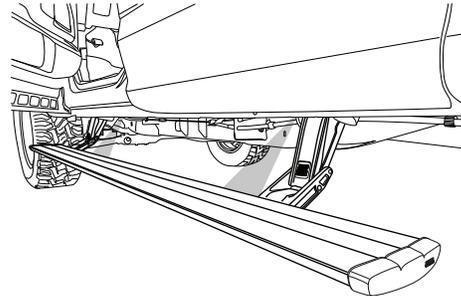
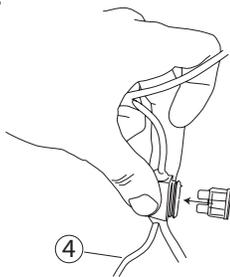
Close and wrap with conduit and electrical tape. Secure all loose wires with cable ties with lamp wires pulled upward to avoid any wire snagging.



17

18

Reinstall fuse.



FINAL SYSTEM CHECK

Check that all doors activate the PowerStep and the LED lights work when doors open and close.

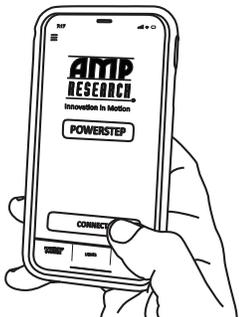
NORMAL OPERATION: When the doors open, PowerStep automatically deploys from under the vehicle.

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.

19

Download our Smart Series App on your Android phone or iPhone by scanning the QR code below and follow the instructions. Or visit your app store and search “AMP Research Powerstep” to download app.



AMP RESEARCH **Power Step**™

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Please visit: www.amp-research.com

Rev 01.05.21



PowerStep™

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

POWER-DEPLOYABLE RUNNING BOARDS OPERATION: 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.

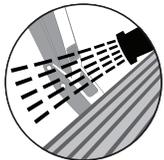
Automatic stop:

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

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 of God, 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 AMP RESEARCH CUSTOMER SERVICE 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.

