



AMP RESEARCH 76152-01A Running Board Assembly Installation Guide

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**Power Step
75152-01A Running Board Assembly
Installation Guide**

APPLICATION

Ford F150 – All Cabs (Includes Raptor & Raptor R)

2021-2023

(Excludes F150 Lightning and Power boost)

Modification required to running board assembly. See item 1 on page 3.

MODEL YR

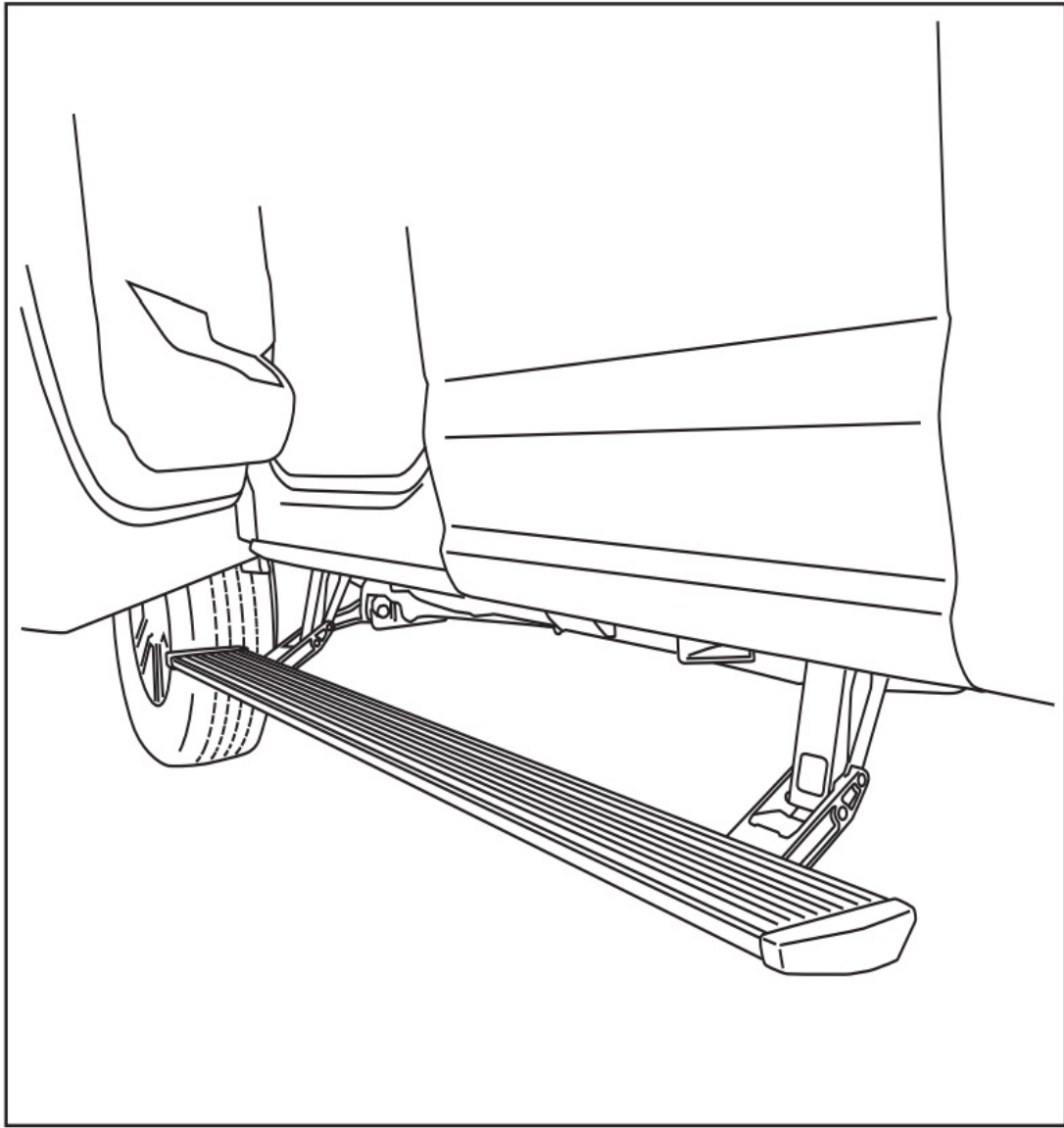
2021-2023

PART

76152-01A

(Excludes all 2011-up models with Diesel engine.)

* Modification required to running board assembly. See Item 1 on page 3.



INSTALLATION TIME

3-5 Hours

Professional installation recommended

SKILL LEVEL

1 2 3 4

4= Experienced

TOOLS REQUIRED

- Safety goggles
- Measuring tape
- Flat blade screwdriver
- Power Drill
- 9/32" drill bit
- 13 mm socket
- 10 mm socket
- Ratchet wrench and extension
- 13mm end wrench
- Wire crimpers
- Wire stripper / cutter

- 3/16" hex key wrench (allen wrench)
- 5mm hex key wrench (allen wrench)
- 4mm hex key wrench (allen wrench)
- Electrical tape
- Weather proof caulking (silicone sealer)
- Silicone spray

WARRANTY

5-Year Limited Warranty

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

Invented, engineered and manufactured exclusively by AMP Research in the USA. May be covered by one OR MORE of the following patents:

6,641,158; 6,830,257; 6,834,875; 6,938,909; 7,055,839; 7,380,807; 7,413,204; 7,398,985; 7,584,975; 7,566,064; 7,487,986; 8,157,277;

8,408,571; 9,302,626; 9,561,751; 10,053,017; CA2463717 ©2023 AMP Research. All rights reserved. Printed in USA.

AMP RESEARCH POWERSTEP™ – CHEVROLET / GMC

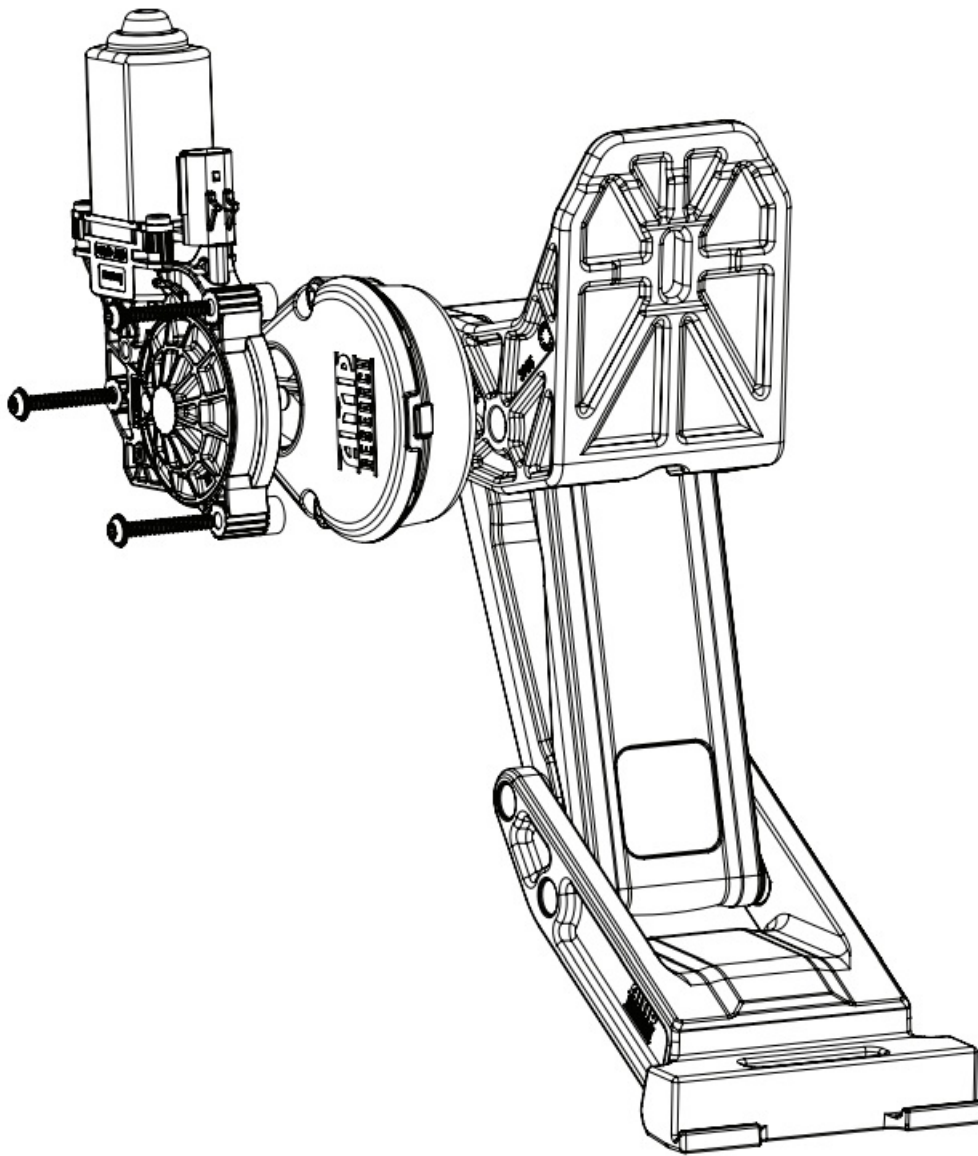
INSTALLATION GUIDE

Attaching motor to Linkage assembly

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

EXPLODED VIEW

- Motor
- Gear Cover
- Socket cap screw
- Washer



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. 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 Hex Head. Tighten screws to 36 in-lbs (4N-m). Do not over torque.

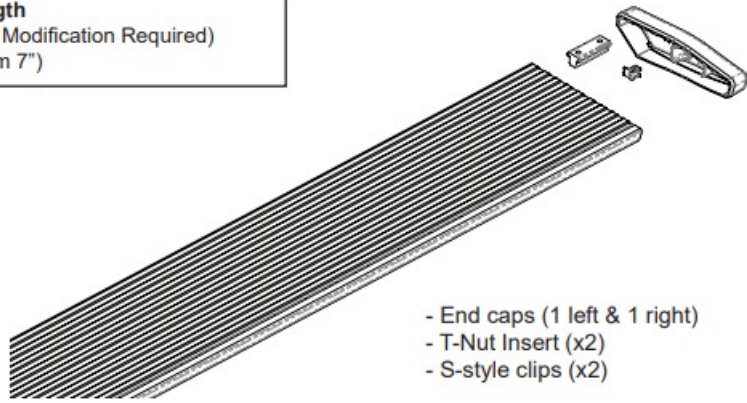
Note: Some Applications require modification.

PARTS LIST AND HARDWARE IDENTIFICATION

Application	Cut Length
Crew Cab	79" (No Modification Required)
Extended Cab	72" (Trim 7")

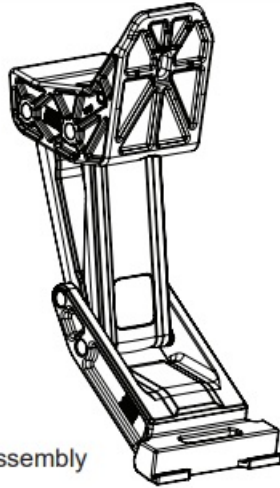
① x2

Running Board assembly



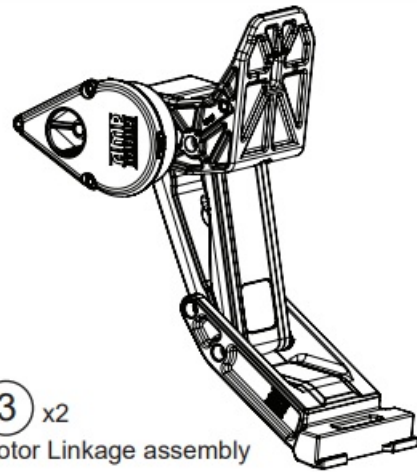
② x2

Idler Linkage assembly



③ x2

Motor Linkage assembly



④

Wire harness



⑤

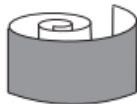
Controller STA



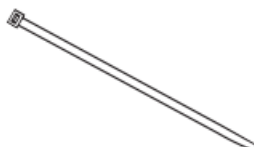
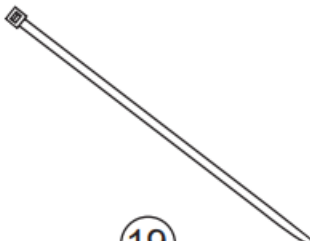
⑥ x2

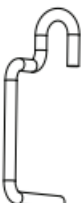
Motor kit



			
USED ON SILVERADO AND SIERRA HEAVY DUTY ONLY.		USED ON SILVERADO AND SIERRA HEAVY DUTY ONLY.	
7	8	9	10 x5
Cable Bracket	Rubber	Brake Cable Ring	Hex Bolt with Conical Washer

				
11 x6	12 x5	13 x4	14 x6	15 x4
M5 Socket Cap Screw	Threaded nut	Hex Bolt with Conical Washer	M5 Washer	U-nut

			
16 x8	17 x20	18	19 x2
Socket Cap Screw	Cable tie (7")	Tubing (Installation Tool)	Cable tie (11")

				
20 x4	21	22	23 x4	24 x8
Posi-Tap™	Grommet	Cable Bracket	LED Lamp	Butt Connector

AMP RESEARCH POWERSTEP™ – CHEVROLET / GMC

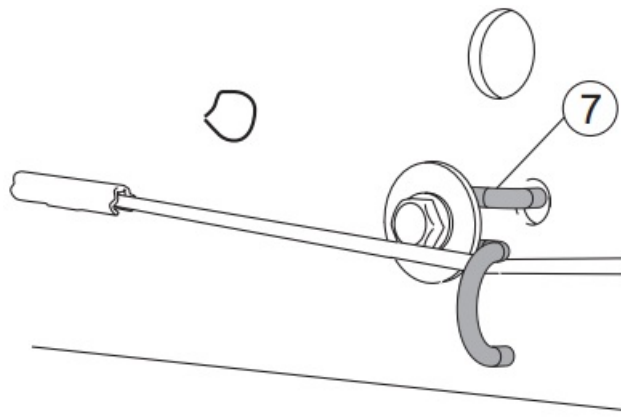
Steps 2-3 for 2007-2010 HD 2500 and 3500 only! For all other vehicles skip to Step 4.

Short Bed: Step 2 only

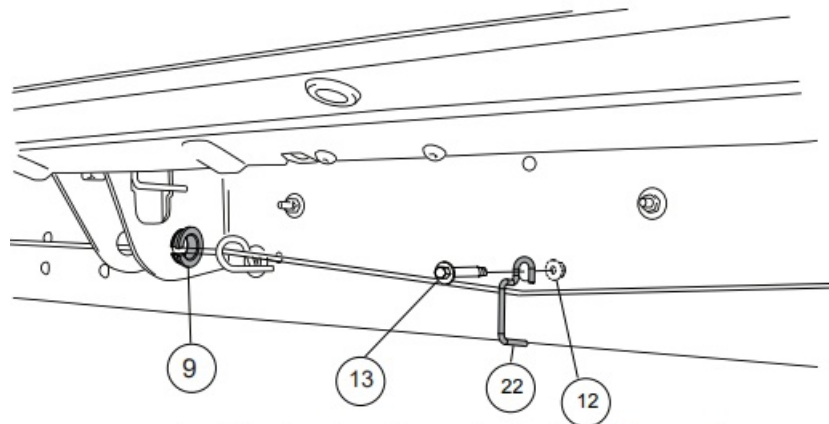
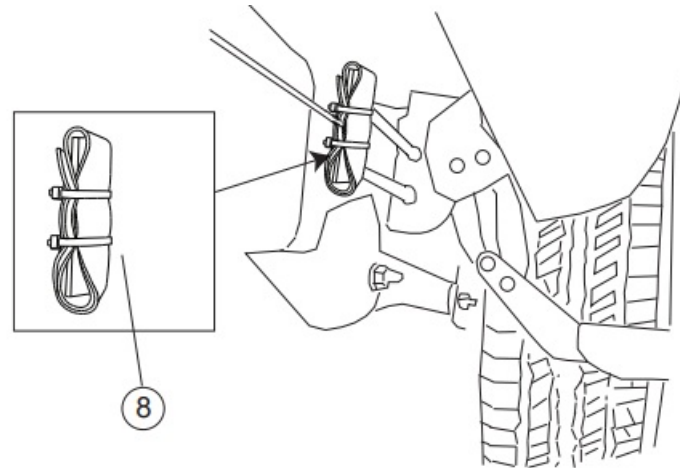
Long Bed: Steps 2 and 3.

Remove forward most parking brake cable guide and replace with new guide (7).

Note: Factory bracket will need to be bent or cut to remove from cable.



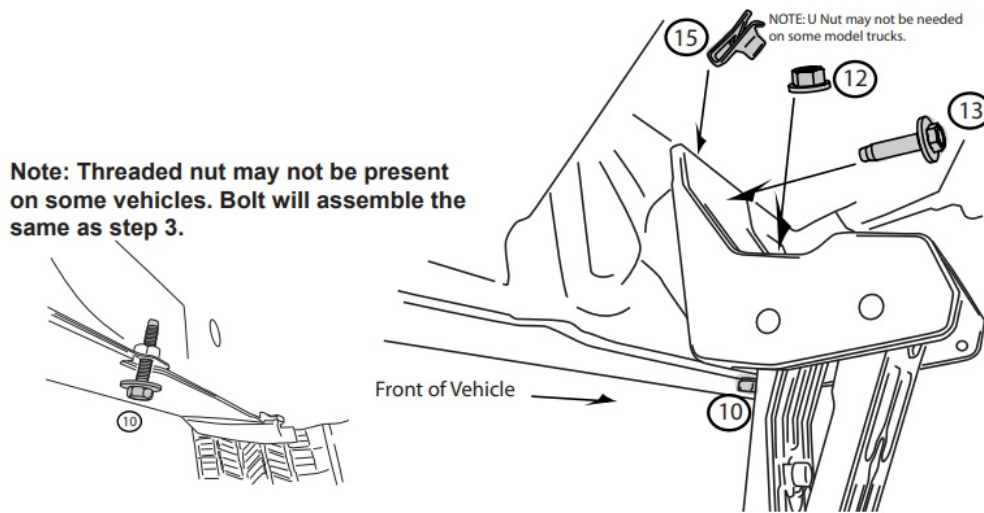
On some models that do not utilize this guide rubber tape (8) is included. Wrap tape around bracket.



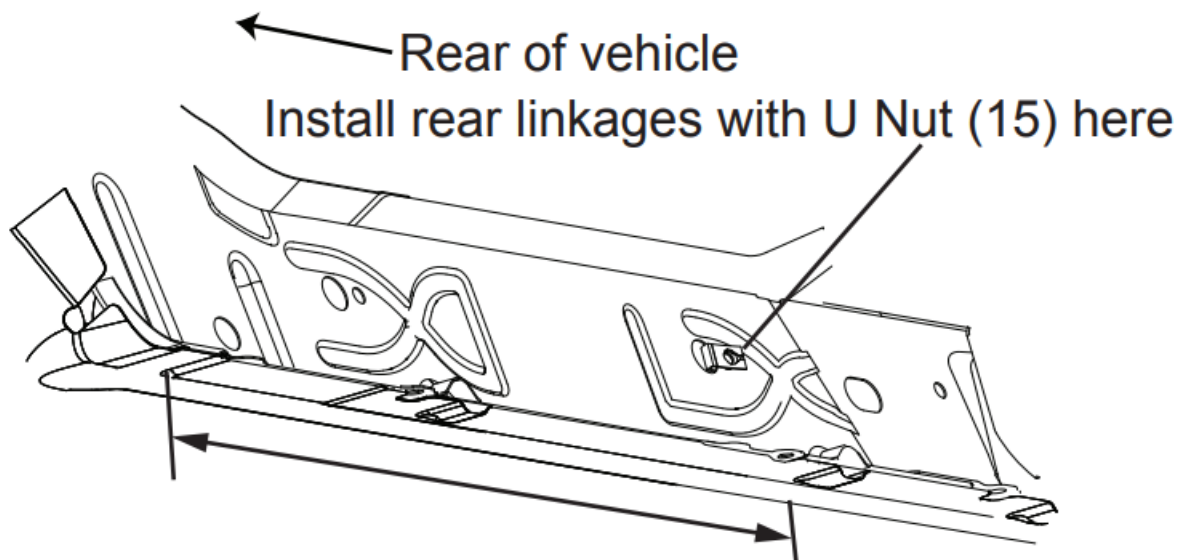
Install nut and washer on back side of frame rail

Install plastic brake cable ring (9) in rear of middle body mount. Install new parking brake cable guide (22) in existing frame hole as shown.

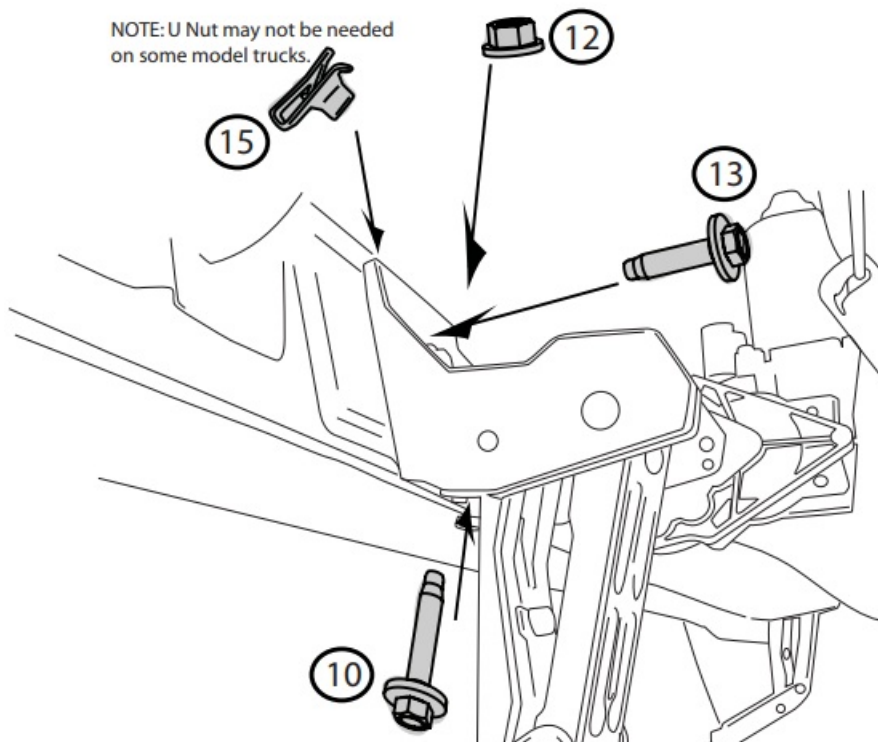
Front Idler Linkage: Thread supplied bolt (10) in about half way into the first Sheetmetal tab / hole from front. Set linkage over bolt and Tighten lower bolt (10) to 16ft-lbs (22N m). Finger tighten nut (12) onto bolt (10). Install bolt (13) and torque to 16 ft-lb (22N m). Next torque lower nut (12) to 16 ft-lb (22N m) using wrench to hold lower bolt in place.



Rear Drive Linkage: Install driver side Motor Linkage in fourth Sheetmetal tab / hole from front. Linkage will then clear parking brake cable.

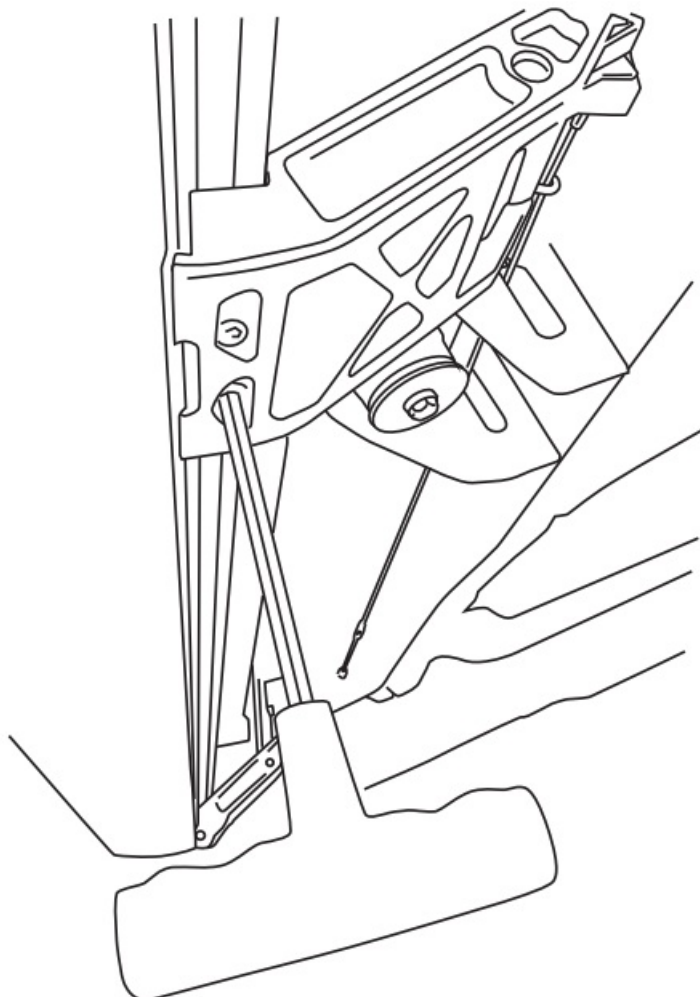


Crew Cab- Approx 26 $\frac{1}{4}$ " from back of cab
Extended Cab- Approx 11" from back of cab

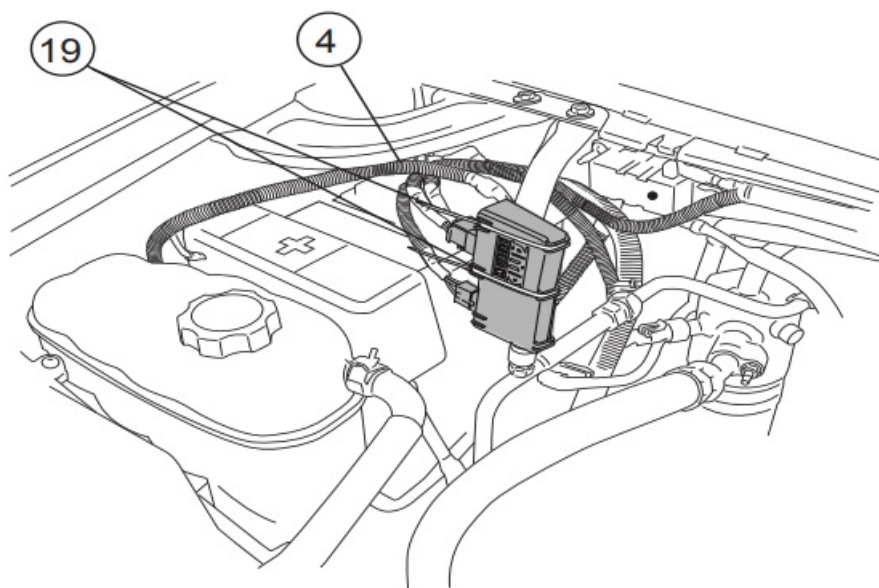


Set linkage into second to last Sheetmetal tab / hole from rear. Use supplied bolt (10) and nut(12) to hold in position. Install bolt (13) into upper mounting hole and snug both bolts. Torque upper bolt (13) to 16ft-lbs(22N m) first and then torque lower bolt (10) and nut (12) to 16 ft-lb (22N m). Repeat linkage installation on Passenger side.

Slide mounting T-nut into position, aligning the end of the board with the rear edge of the back door. Mount board and tighten fasteners to 10 ft-lbs. Insure linkages are squared to body prior to torqueing fasteners.



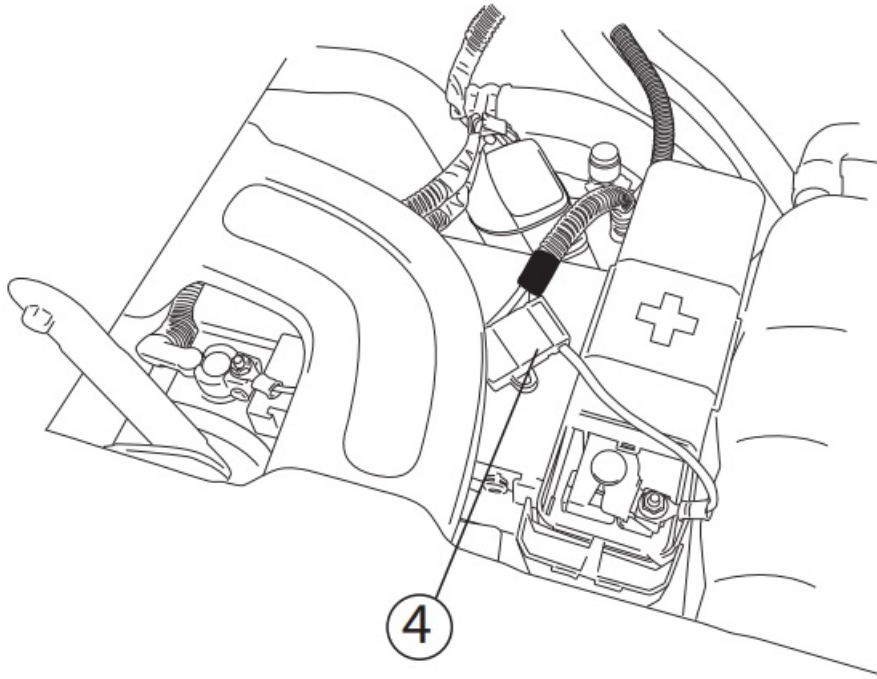
Using the two 11" cable ties, mount controller to support arm next to battery. (Behind support arm on diesel engine) **On Hybrid models: Mount controller on driver's side of engine compartment.**



Plug in wire harness. (Ensure that locking tabs engage.)

Remove power fuse. Attach power lead (RED wire) to positive pole on the battery.

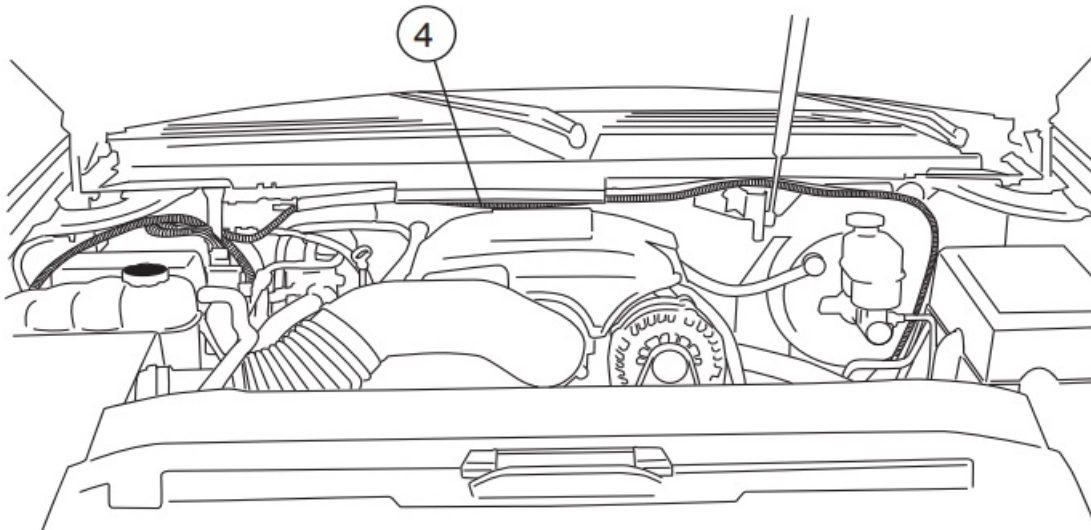
CAUTION: Do not ground wrench when engaged with nut.



Attach ground lead to negative battery pole.

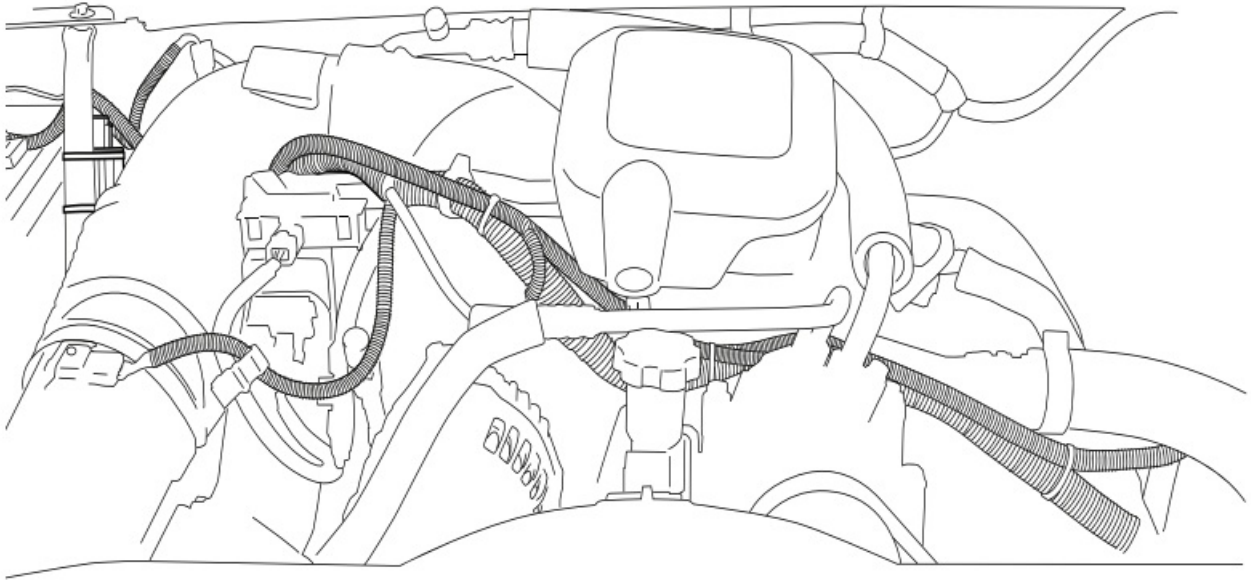
GAS ENGINE WIRE ROUTING

Route long end of wire harness above engine and down through drivers side wheel well. Zip tie harness to cowl clips on fire wall. Route short end down passengers side. On Hybrid models: Long end of wires will be routed down through passenger side wheel well and short end down drivers side.



DIESEL ENGINE WIRE ROUTING

Route long end of wire harness under intake and along factory engine harness to driver side wheel well. Route short end down passenger's side.

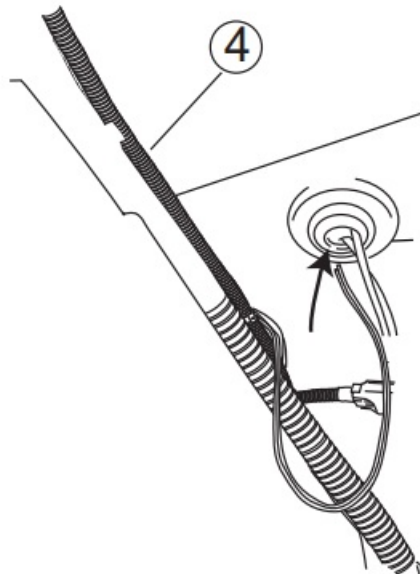


Secure with zip ties.

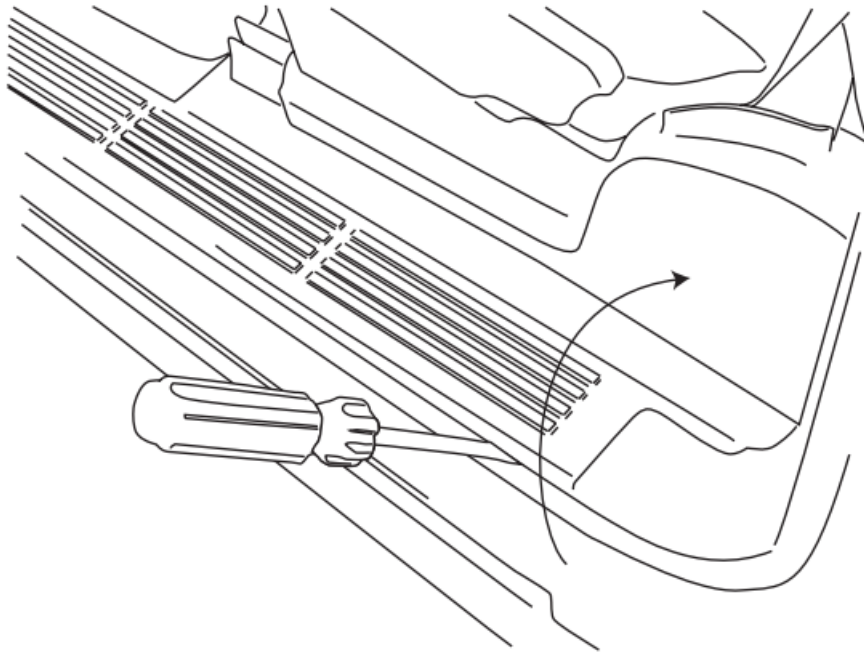
IMPORTANT: Steps 14 and 15 are for Crew Cab trucks only.

(Light Blue and Green wires are only used with Crew Cab trucks.)

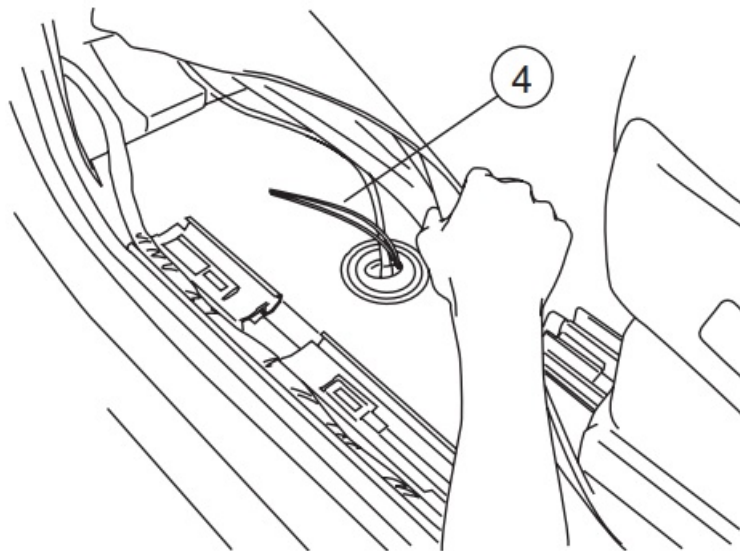
Route wire harness along the frame and back towards rear linkage. Secure with zip ties. Poke hole through rubber grommet near front door on underside of floor panel with small Philips screwdriver. Push both wires through hole. (See Step 14 for passenger's side notes.)



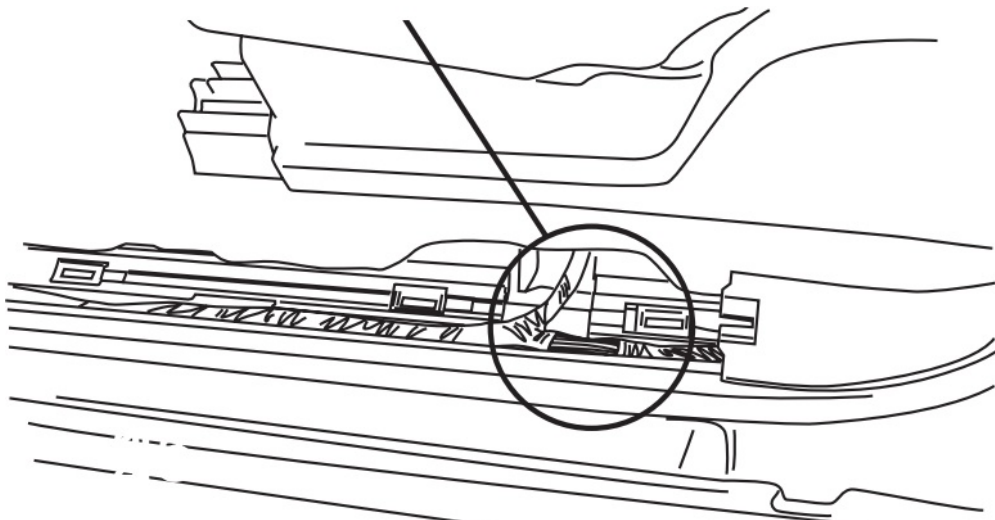
Pop off the threshold cover with screwdriver and remove the kick panel. Repeat step on passenger side.



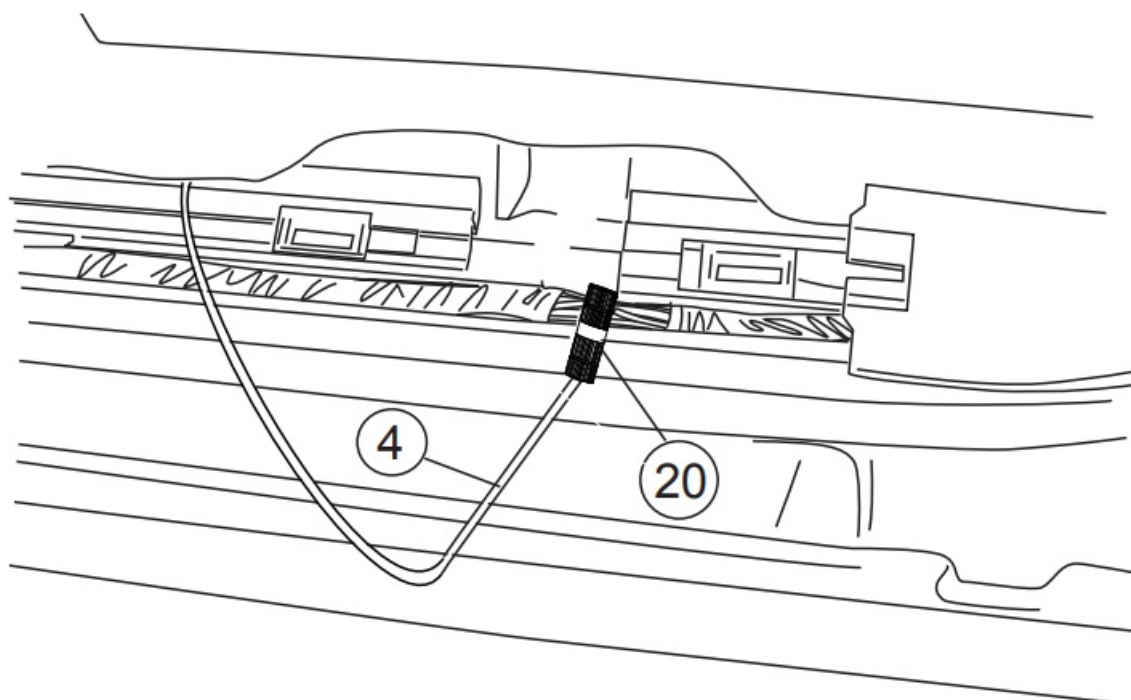
Pull up the carpet and thread both wires through the floor panel (same steps on passenger side EXCEPT drill 9/32" hole in metal and add rubber grommet). For all vehicles except Crew Cabs skip to step 18.



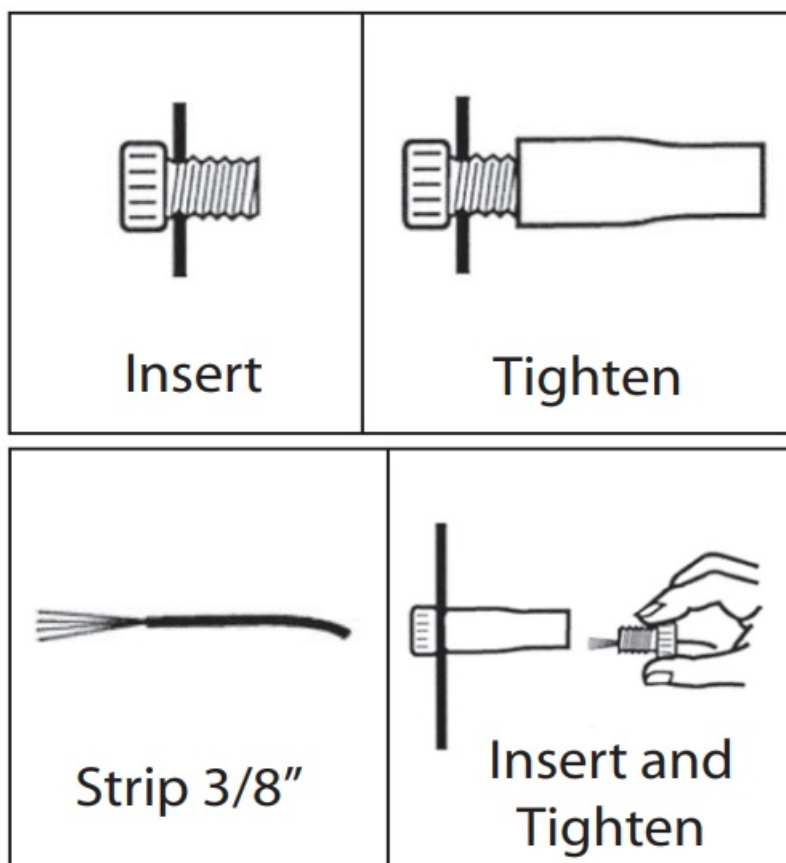
Seal holes with silicone glue and cover with tape so carpet does not stick to glue.
 Crew Cab Only – Carefully remove wire wrap on driver side and find LIGHT BLUE wire with BLACK STRIPE. On passenger side find GREEN wire with BLACK STRIPE. The wire is located rear of the "T" junction where wires cross under the front seat.



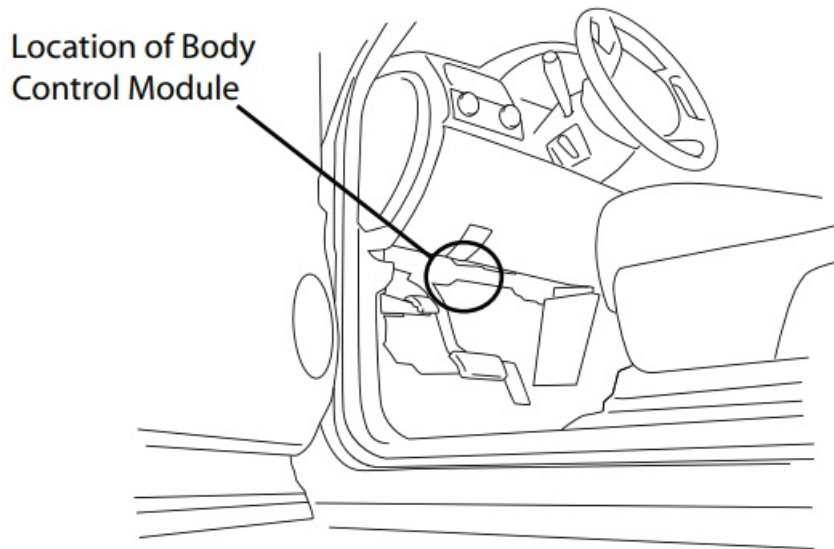
Crew Cab Only. Using supplied Posi-Tap™ connector, splice shorter trigger wire into wire found in Step 16. Otherwise tape off short wire.



Posi-Tap™ instructions

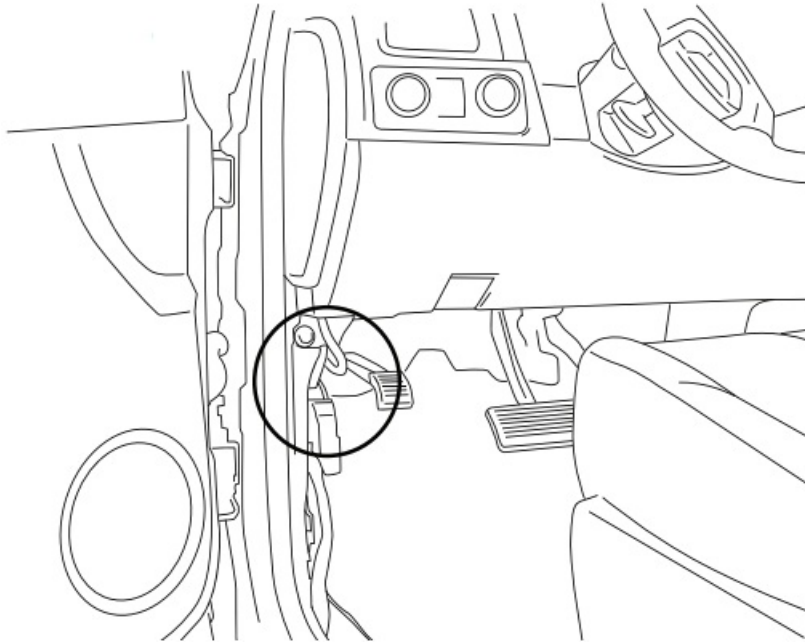


For model years 2007-2010 locate and inspect the Body Control Module above the brake pedal under the dashboard. The BCM is the only module with a pink connector. Check to see if the front door ajar signal wires are present in the pink connector: Grey/ Black, Tan/White. If you do not see these wires the front door panels must be removed.

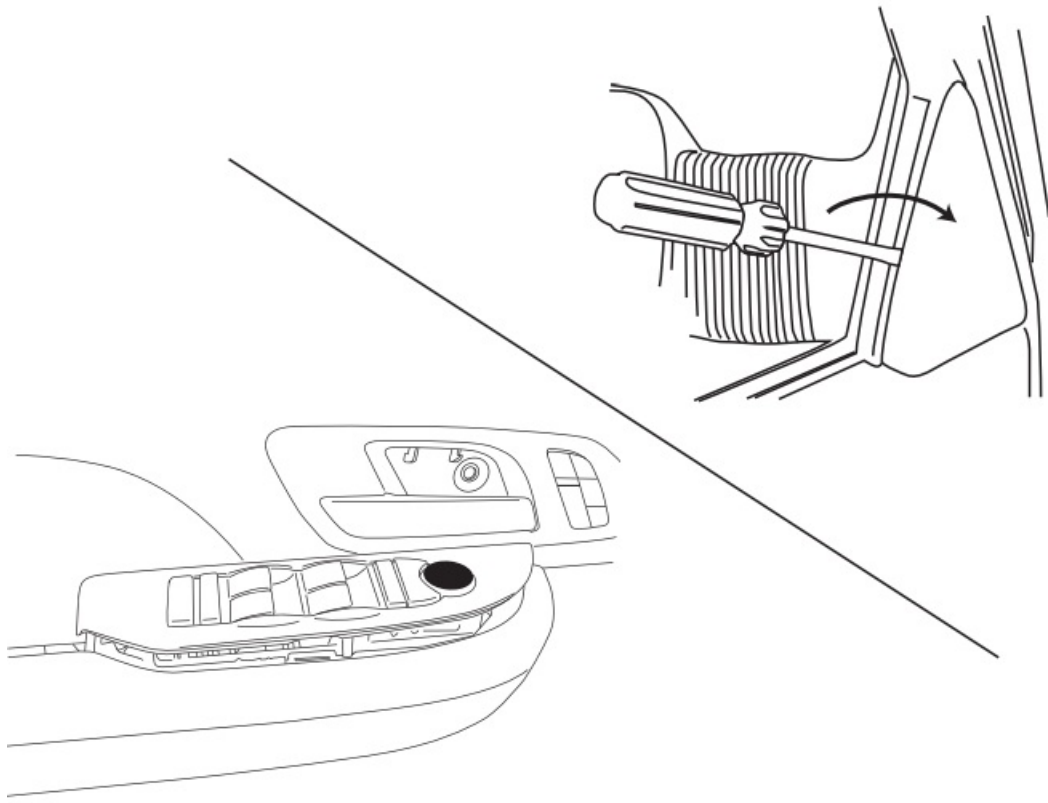


Vehicles that do not have the front door ajar signal wires in the pink connector of the BCM must have the front door panels removed in order to access the front door ajar signal wires. For these and all Hybrid models go to step 20.

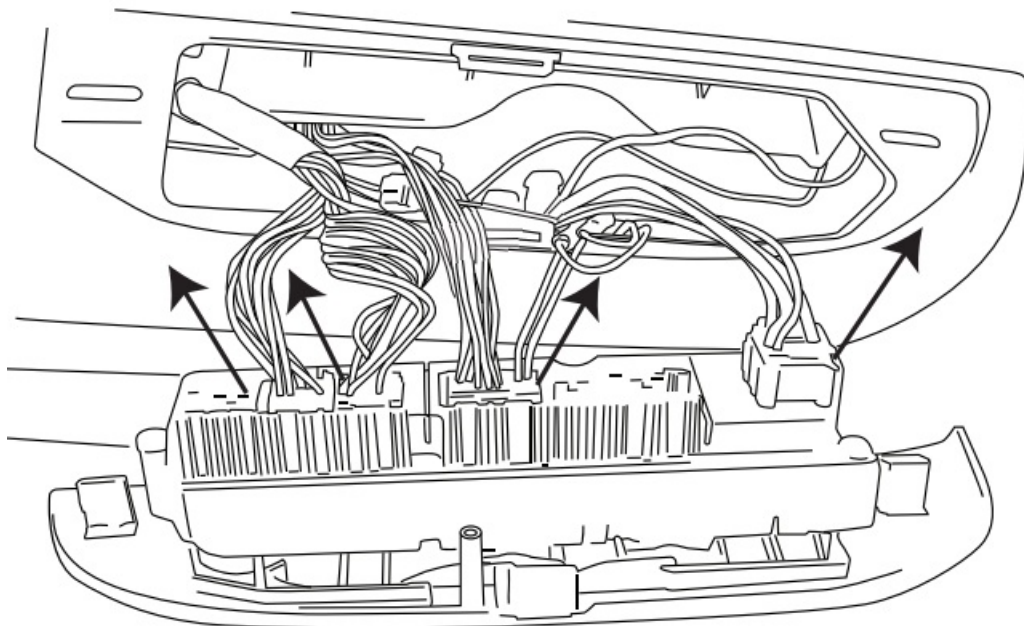
Remove driver side kick panel and open the loom wrapped in grey or black tape to access the Grey / Black stripe wire. In the passenger side kick panel the loom wrapped in green or black tape will have a Tan / White stripe wire. Connect Power Step Grey / Black and Tan / White wires to like colored factory wires. Go to step 27



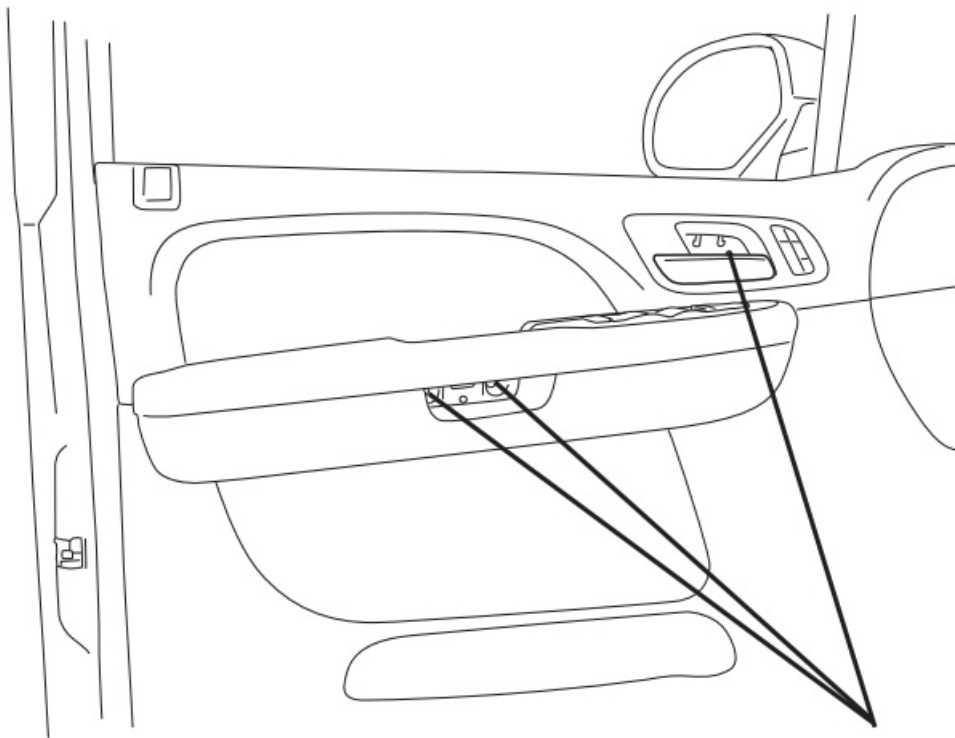
Remove plastic trim on door near mirror attachment. Then carefully pry up window/ door lock switch plate.



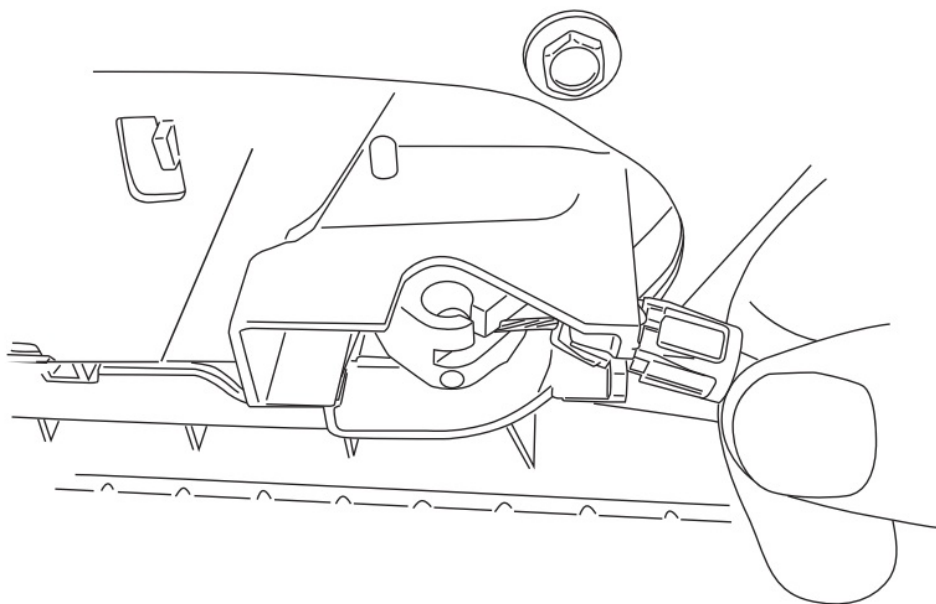
Remove all plugs from switchplate



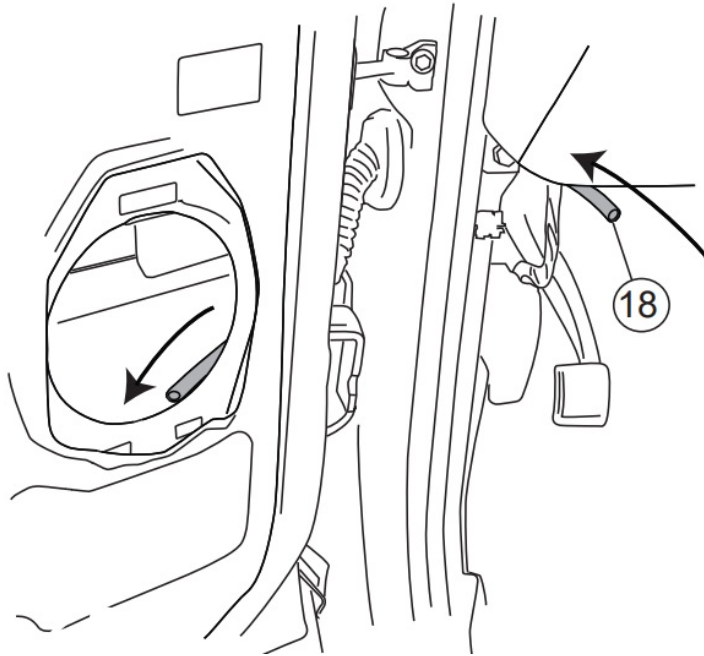
To remove door panel, first pry back tab on door lock to remove then pry off plastic covers by handle and door latch. Remove the 3 door bolts and then remove door panel by prying loose all panel fasteners.



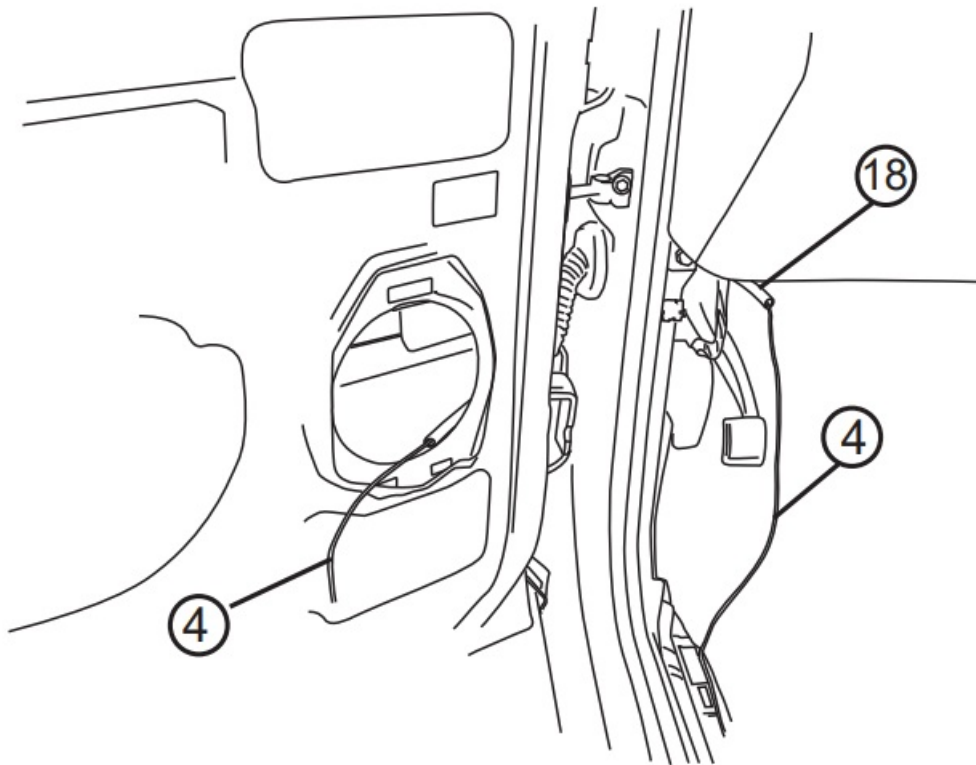
Remove door latch cable from door panel.



Pull back the door weather guard, unbolt speaker and unplug. Thread plastic tube through accordion.



Feed longer wire of Step 13 through tube into door and pull out plastic tube on door side. Route wire along harness to switchplate.

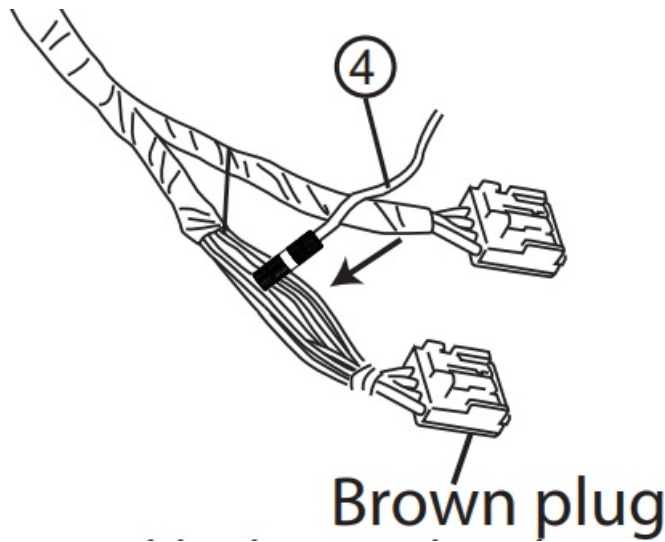


For 2007-2009 Models:

Locate the brown plug in doors and using supplied Posi-Tap™ connector, splice into trigger wire.

Driver's side: Grey / Black wire Passenger's side: Tan / White wire

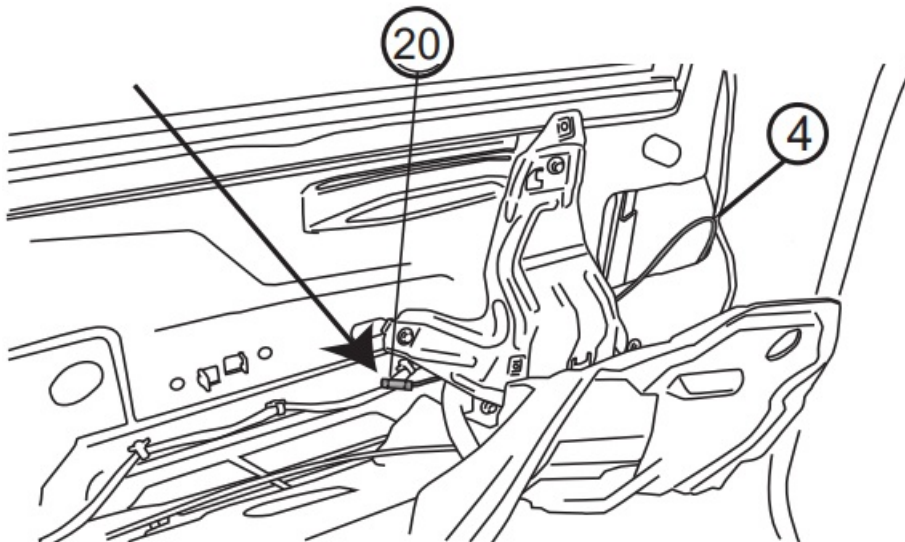
Note: On Hybrid models trigger wire colors will not match up because wire harness is flipped.



Reassemble door and replace plugs. Plugs must be replaced for Power Step to operate.

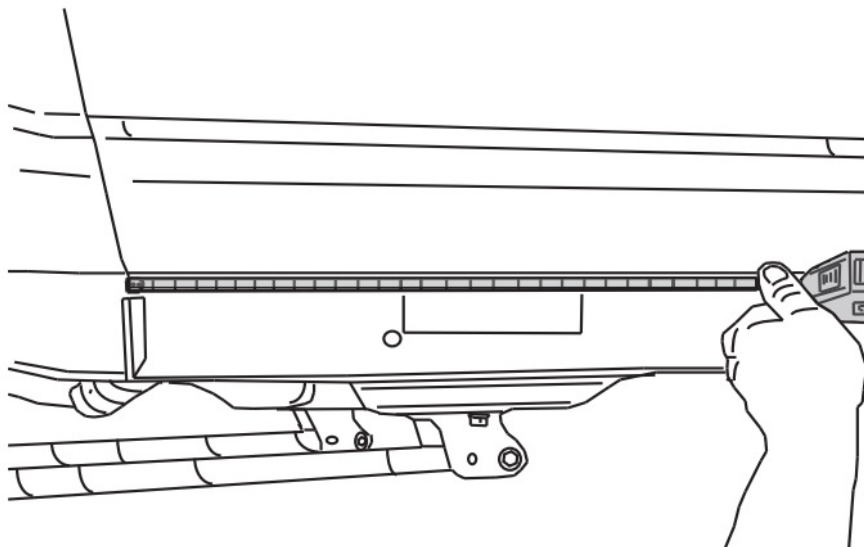
For 2010-Current models:

Locate loom that runs across the top of the door panel. Carefully remove wire wrap and locate the following wires on either side. Driver's side: Grey/ Black wire Passenger's side: Tan / White wire Caution: Zip tie trigger wires to avoid being hung up in window linkage.

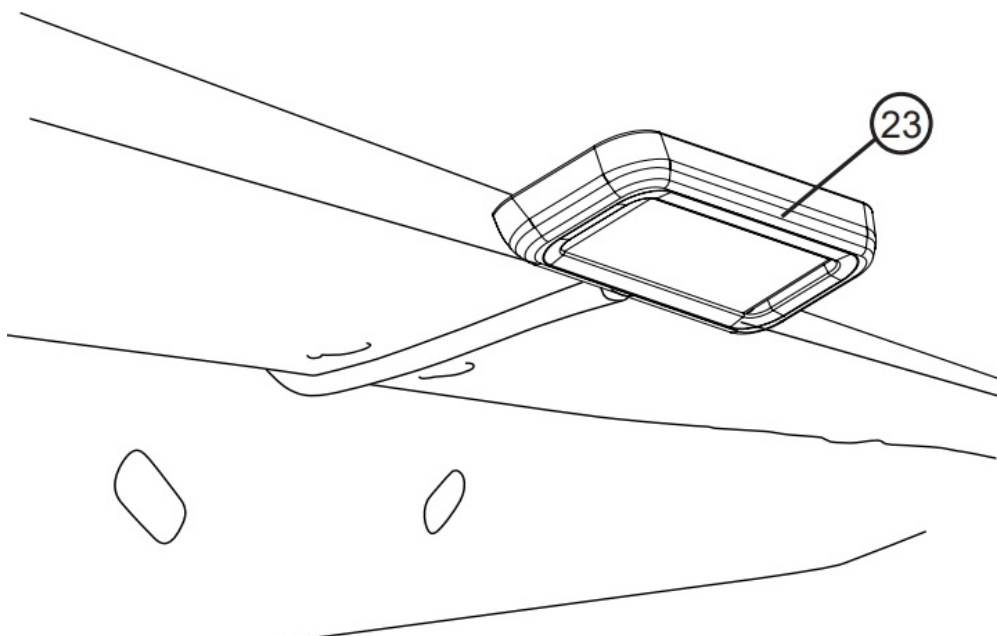


Note: On Hybrid models trigger wire colors will not match up because wire harness is flipped.

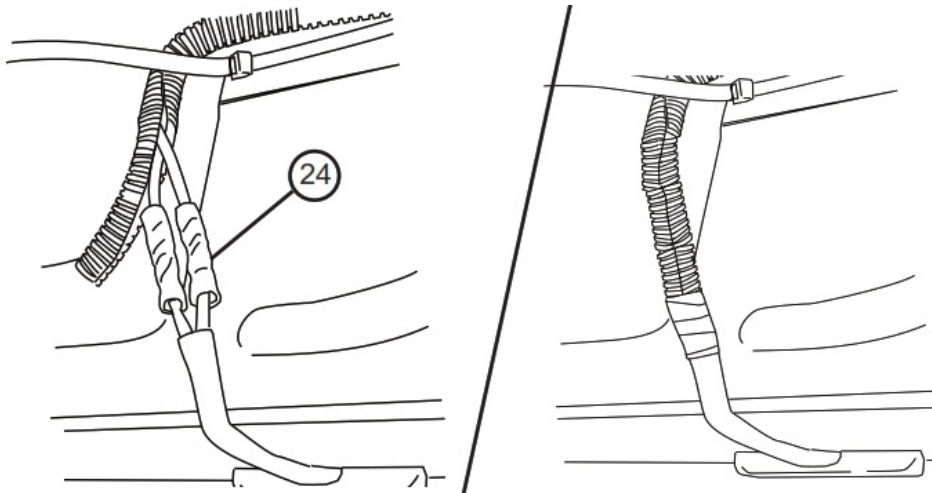
On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 22" for front LED Light and 65" for rear LED Light.



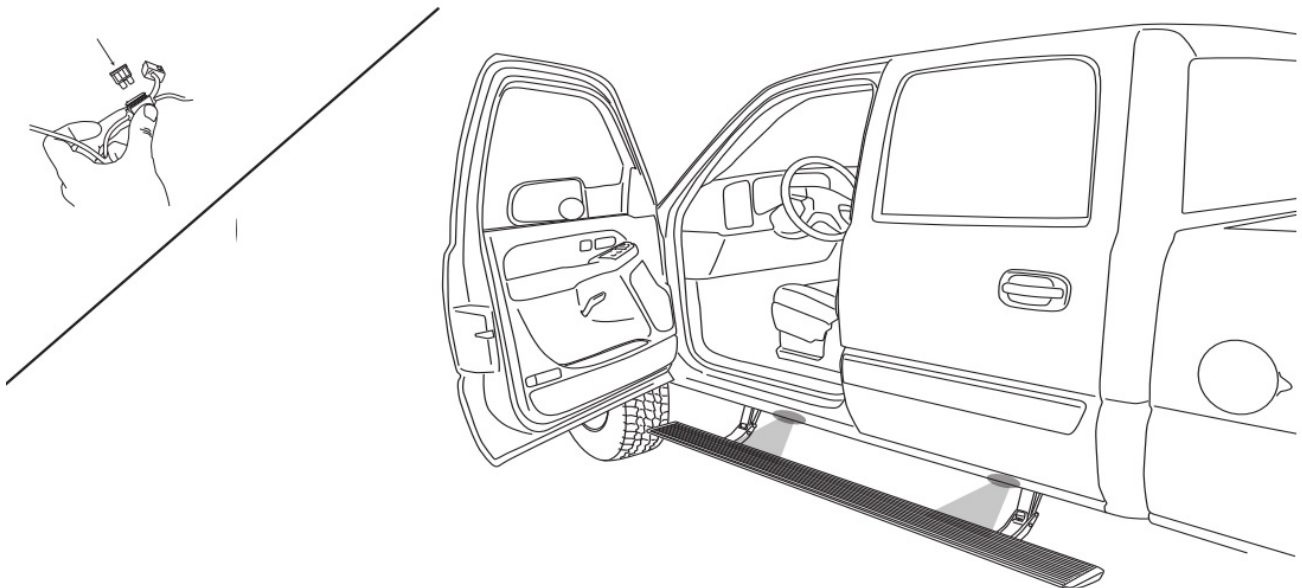
Affix lamp to rocker panel surface. Make sure the lamp is affixed to a clean, flat surface. There is a step down midway across the surface. Affix lamp just outside of step down.



'Using supplied butt connectors, 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.



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



Contents

1 FINAL SYSTEM CHECK

2 Documents / Resources

2.1 References

FINAL SYSTEM CHECK

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

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

When the doors are closed, Power Step will automatically return to the stowed/retracted position. **Note that there is a 2-second delay before the Power Step 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 restoring 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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Congratulations on your purchase of the genuine AMP Research Power Step! Here's what you should know...

POWER-DEPLOYABLE RUNNING BOARDS OPERATION: AMP Research Power Step 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.

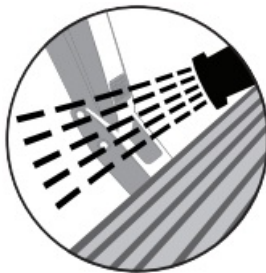
Manually set in the deployed (OUT) position for access to the roof:

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 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.

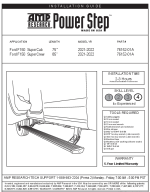


The material that your product is made from can be recycled. Please also consider recycling the packaging that your product came in.



www.amp-research.com
IM75126 rev 04.18.23

Documents / Resources

	AMP RESEARCH 76152-01A Running Board Assembly [pdf] Installation Guide 76152-01A Running Board Assembly, 76152-01A, Running Board Assembly, Board Assembly
	AMP RESEARCH 76152-01A Running Board Assembly [pdf] Instruction Manual 76152-01A Running Board Assembly, 76152-01A, Running Board Assembly, Board Assembly

References

- [AMP Research Accessories | RealTruck](#)
- [RealTruck Warranty Registration | RealTruck](#)
- [User Manual](#)