

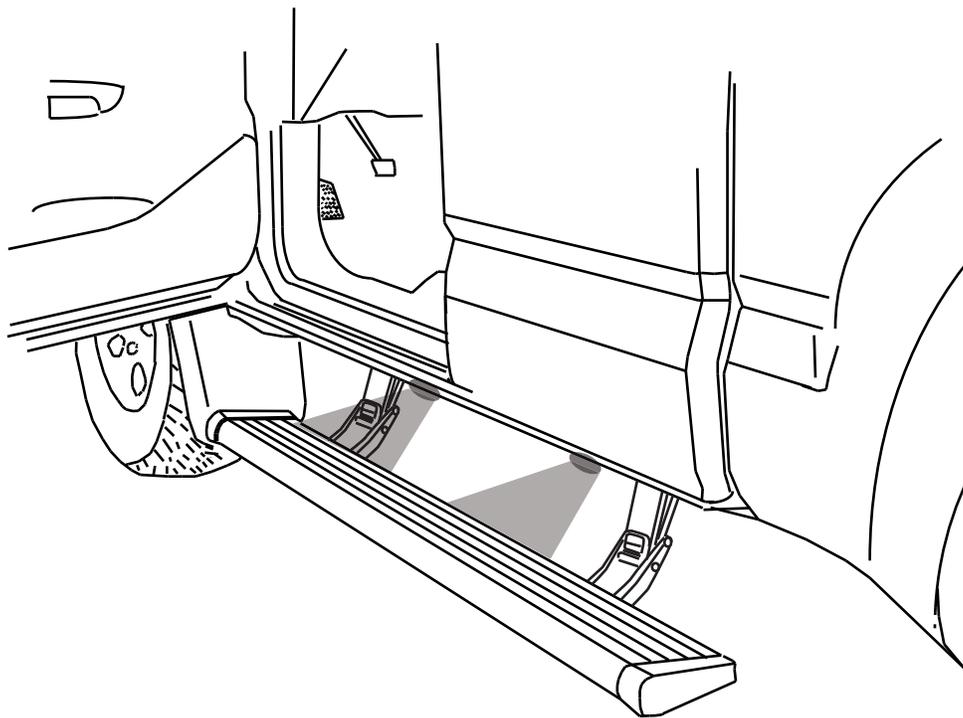
# INSTALLATION GUIDE

# **AMP** RESEARCH **Power Step** MADE IN USA

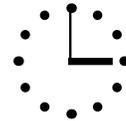
APPLICATION  
Toyota Tacoma

MODEL YR  
2005 - up

PART #  
75142-01A



## INSTALLATION TIME



**3:00** hrs

## SKILL LEVEL



3= Experienced

## TOOLS REQUIRED

- Safety goggles
- Measuring tape
- 19 mm socket
- 10 mm socket
- 12 mm socket
- Ratchet wrench and extension
- Pliers
- Wire crimpers
- Wire stripper / cutter
- 3/16" hex key wrench ( allen wrench )
- 4mm hex key wrench ( allen wrench )
- Electrical tape
- Weather proof caulking ( silicone sealer )
- 9/32 drill bit
- Drill

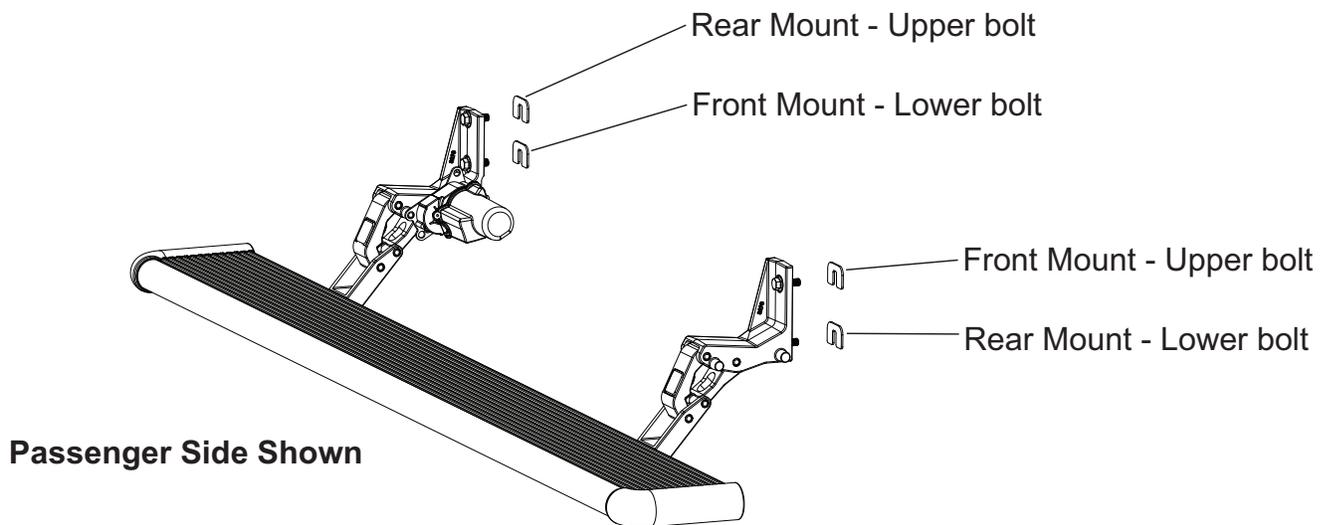
AMP RESEARCH TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 6:00 AM - 5:00 PM PST

Designed and manufactured by AMP Research®. Patent Number 6,830,257; 6,641,158; 6,834,875; 6,938,909; 6,942,233; 7,007,961; 7,055,839; 7,163,221; 7,367,574; 7,380,807; 7,398,985; 7,413,204; 7,487,986. Other US and Worldwide patents pending. Made in USA © 2010 AMP Research  
5-year limited warranty. Professional installation is recommended.

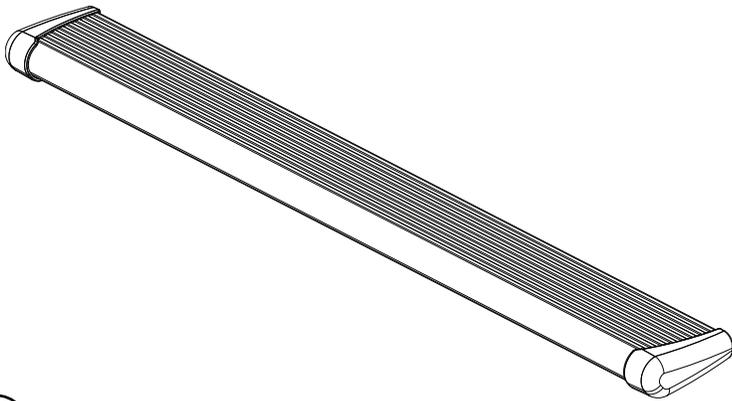
Purpose: Due to vehicle-build variations the Power Step may not correctly align with vehicle cladding. Using supplied shims, please follow the instructions below to correct the alignment.

Misalignment:	Shim Correction:
The gap between board and vehicle cladding is too large toward rear of running board.	Shim rear mount at lower bolt. (diagram below)
The gap between board and vehicle cladding is too small toward rear of running board.	Shim rear mount at upper bolt. (diagram below)
The gap between board and vehicle cladding is too large toward front end of running board.	Shim front mount at lower bolt. (diagram below)
The gap between board and vehicle cladding is too small toward front end of running board.	Shim front mount at upper bolt. (diagram below)

**Shim Placement:** Place shim(s) **ONLY WHERE NEEDED** as indicated above in “Misalignment/ Shim Correction” chart.

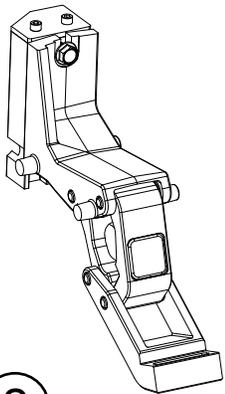


COMPONENT/PARTS IDENTIFICATION

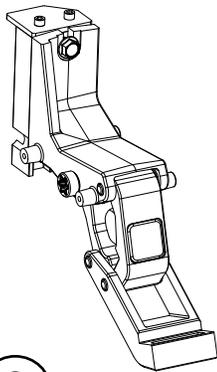


① x2  
20-03318-70  
Running Board Assembly

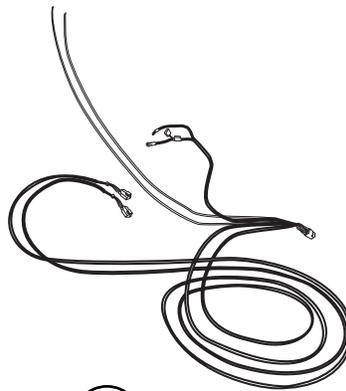
Step Assembly Includes:  
19-03199-11 End Cap left (x1)  
19-03199-12 End Cap right (x1)  
19-02663-90 T-Nut Insert (x2)  
19-03236-90 Socket Cap Screw (x2)  
19-03237-90 Nut Plate (x2)



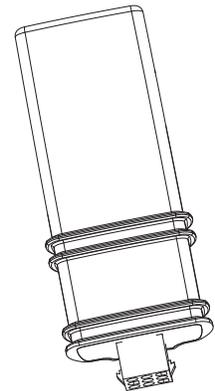
② x2  
10-03685-10  
Idler Linkage Assembly



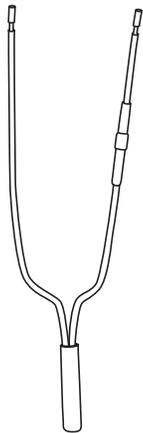
③ x2  
10-03686-10  
Motor Linkage Assembly



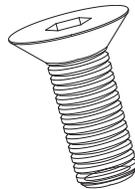
④  
19-03692-90L  
Wire Harness



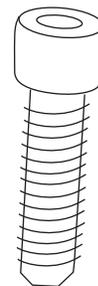
⑤  
19-03297-93  
Controller



⑥ x2  
19-02727-90  
Single Diode

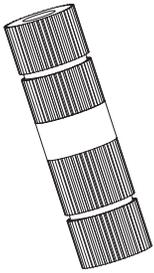


⑧ x4  
19-03352-90  
Flat Head Cap Screw

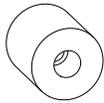


⑨ x8  
19-02802-90  
Socket Cap Screw

PARTS LIST AND  
HARDWARE  
IDENTIFICATION



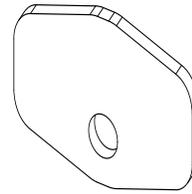
**10** x2  
19-03354-90  
Posi-Tap™ (Red/Grey)



**11**  
19-03706-90



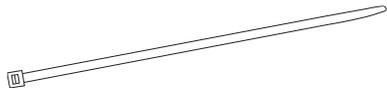
**12** x6  
19-02721-90  
Cinch Fastener



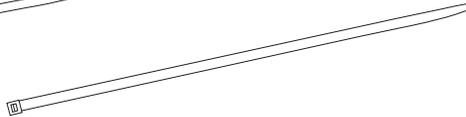
**13** x4  
19-03702-90



**14** Includes x4  
19-03142-90  
Shim Kit

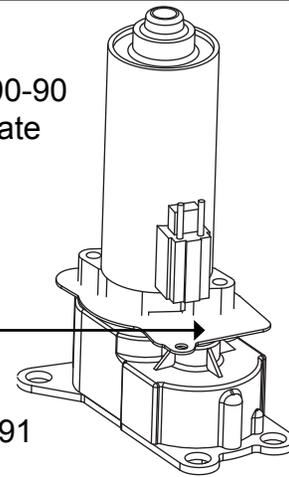


**15** x25  
19-02805-90  
Cable Tie 7"

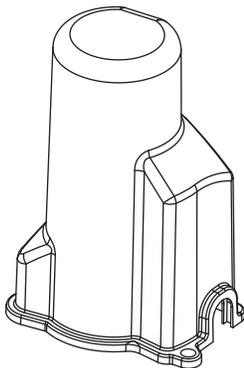


**16** x2  
19-03339-90  
Cable Tie 11"

19-03290-90  
Base Plate



**17** x2  
19-03289-91  
Motor



**18** x2  
19-03238-90  
Motor Cover



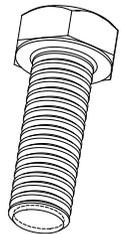
**19**  
16-02634-90  
Button Head Bolt



**20** x4  
16-03014-90  
M8 Washer



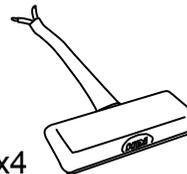
**21** x4  
19-03705-90  
Spring Washer



**22** x4  
19-03704-90  
M12 Bolt



**23** x4  
19-02640-90  
Grommet

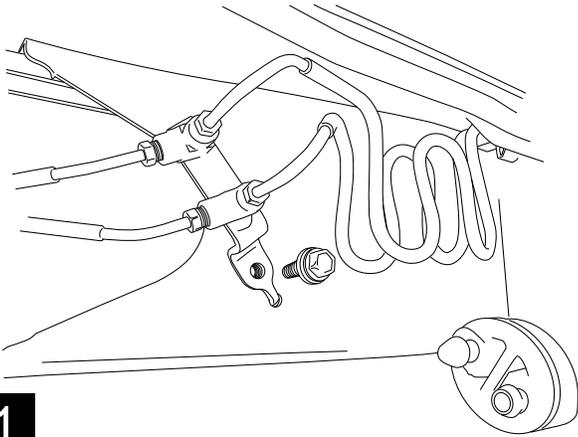


**24** x4  
19-03302-90  
LED Lamp



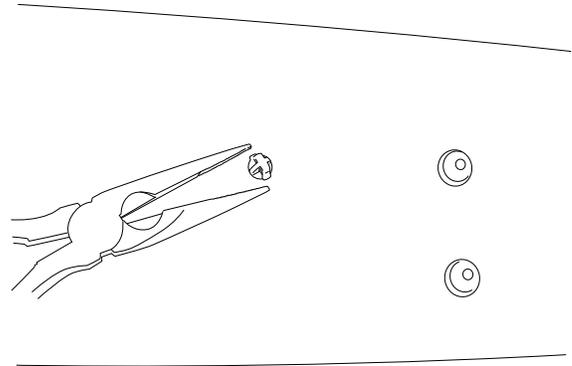
**25** x8  
19-02989-90  
Butt Connector

Remove brake line retainer bolt from driver side front inside frame rail to provide access inside frame.



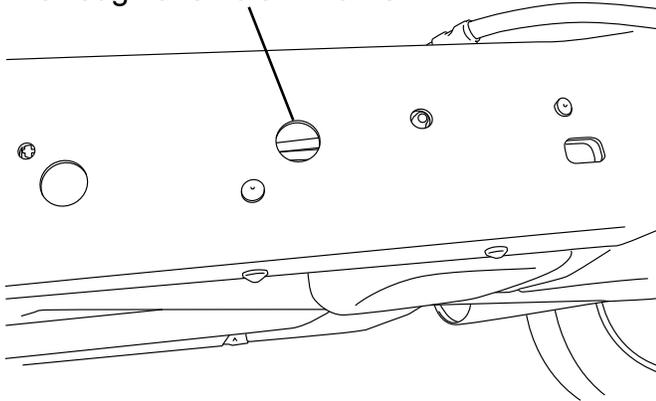
1

Disconnect brake lines from frame by squeezing outside of plastic fastener. CAUTION: Do not break plastic fastener. Disconnect first and third fastener from front.



2

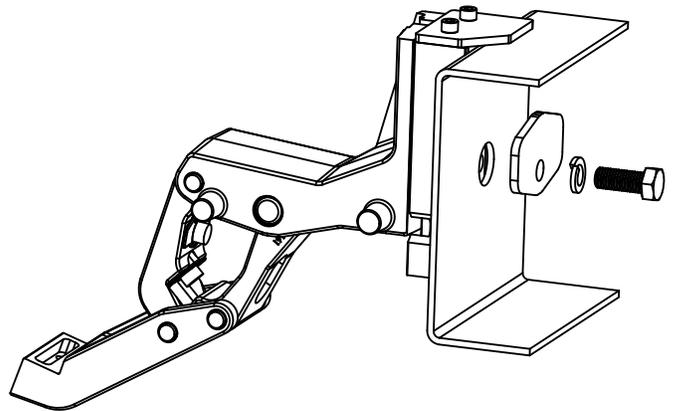
Install driver side rear motor linkage through this hole in frame.



3

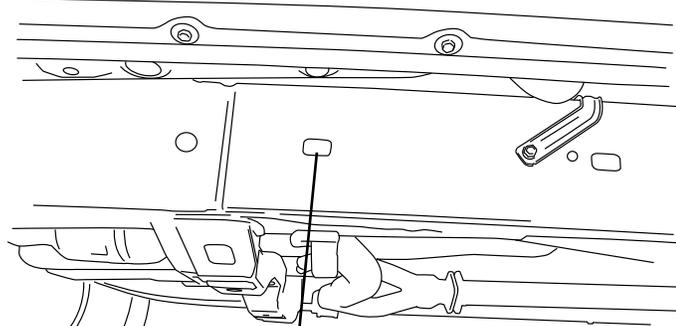
Through-bolt linkage to frame as shown in next step.

Secure Linkage Assembly to frame. FINGER TIGHTEN ONLY.



4

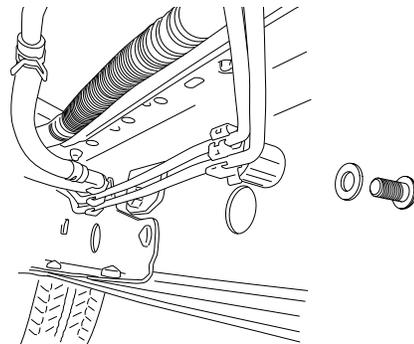
Install Driver Side Front Idler Linkage. Insert top plate between frame and body and slide into forward position. See step 6 for passenger side installation.



5

Through-bolt linkage to frame using this hole.

Install brake line stand-off inside driver rear frame rail as shown.

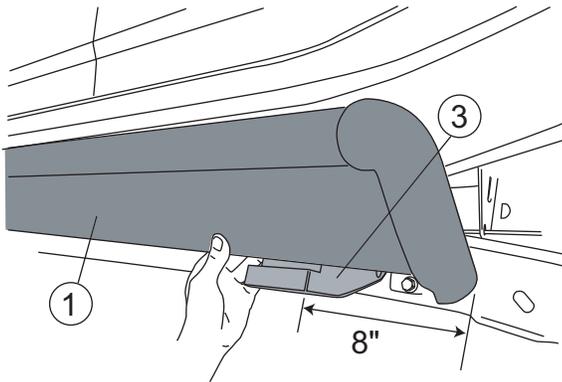


Replace all brake line fasteners.

**Install linkages on passenger side MOTOR LINKAGE IN FRONT.**

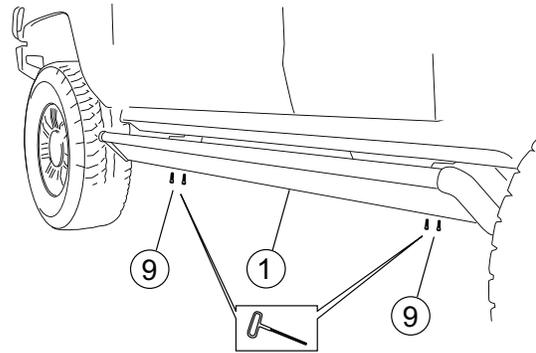
6

Center running board to doors and mount onto linkages by sliding T-nuts into position.



7

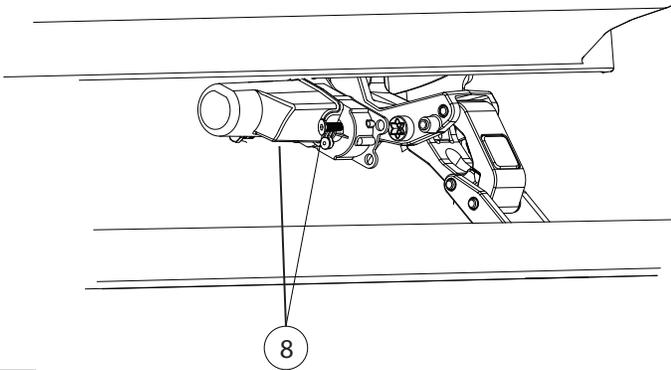
Torque 3/16" Allen bolts to 10ft-lbs. (13.5Nm)



8

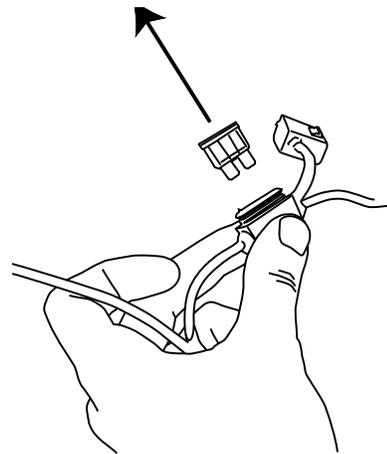
Torque linkage to frame through bolts from step 4 to 40 ft-lbs(54Nm)

Attach motor onto Motor Linkage Assembly using two M6x16 flat head screws on both drive and passenger sides



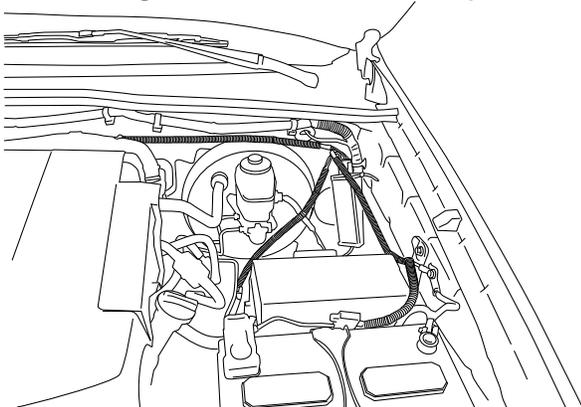
9

Remove fuse.



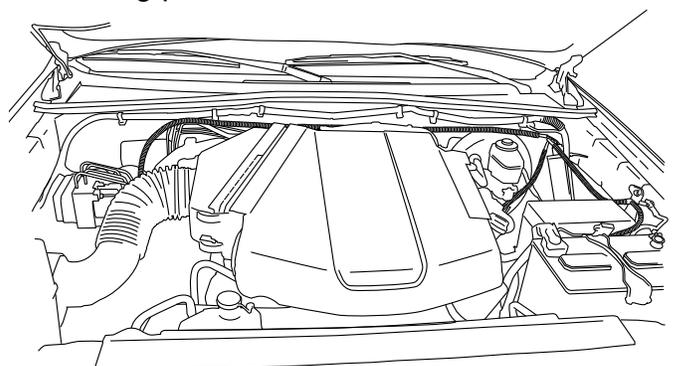
10

Secure controller to factory wire loom using supplied 11" wire ties. Connect Red fused wire to stud on battery positive terminal. Connect Black wire to ground on inner fender panel.



11

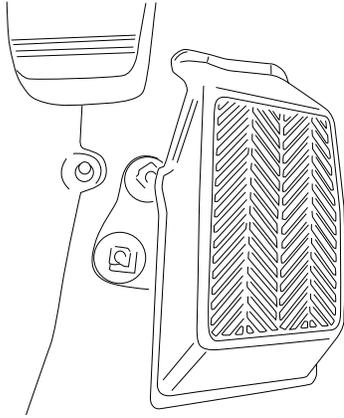
Run wire harness as shown outside the frame rails on both sides. Avoid hot, sharp or moving parts! Secure with 7" wire ties.



Note: Run loom with Green/Yellow and Pink/Black Trigger wires down drivers side of vehicle.

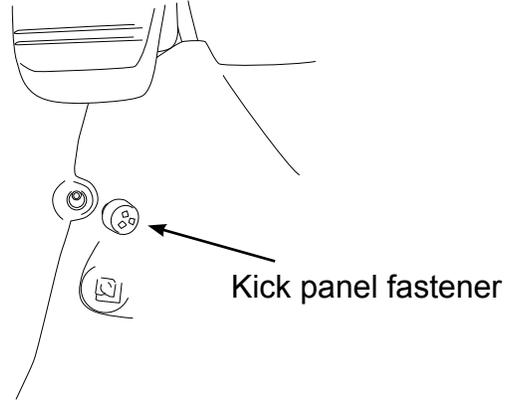
12

Pry left foot rest loose at driver side kick panel.



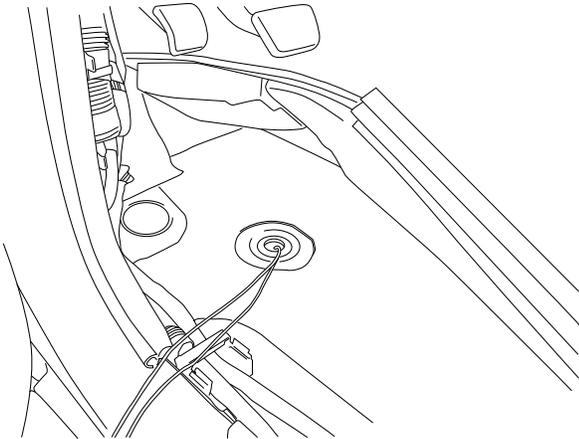
13

Pry up front door sill plates and remove kick panel fasteners and panels on driver and passenger side.



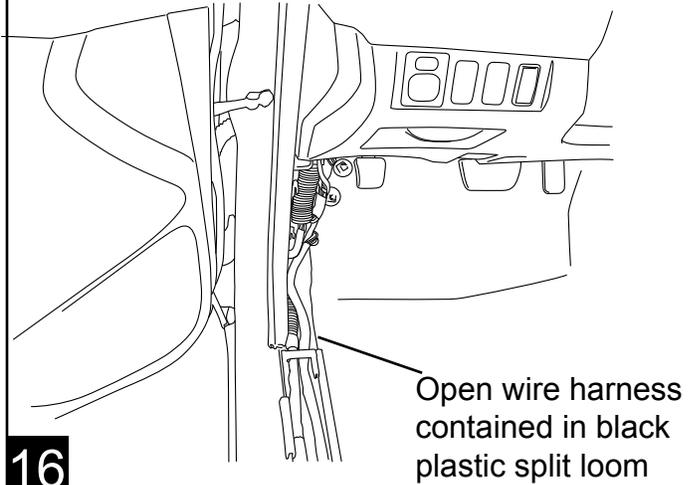
14

Pull up carpet and locate rubber grommet. Slice the grommet and pass trigger wires from under the vehicle and into the cab.



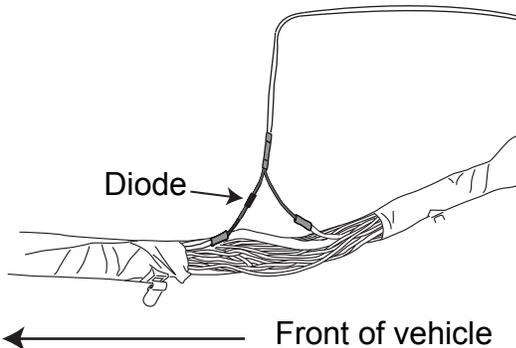
15

Locate door ajar signal wires on driver side. Front Green/Yellow, rear Pink/Black.



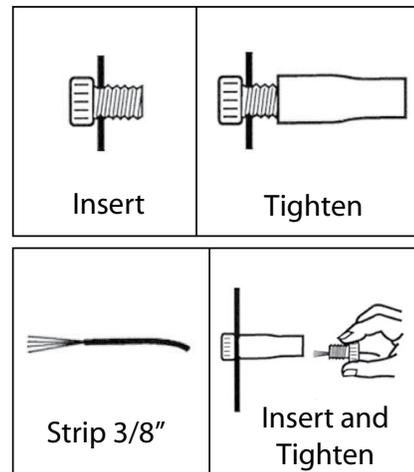
16

Install Single Diode Harness as shown on Pink/Black wire (12 volt negative with door open) and connect to Power Step Pink/Black trigger wire. Make sure to install the diode toward the front of the vehicle.



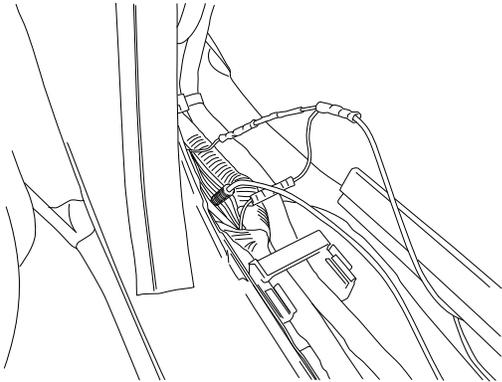
17

Posi-Tap Instructions



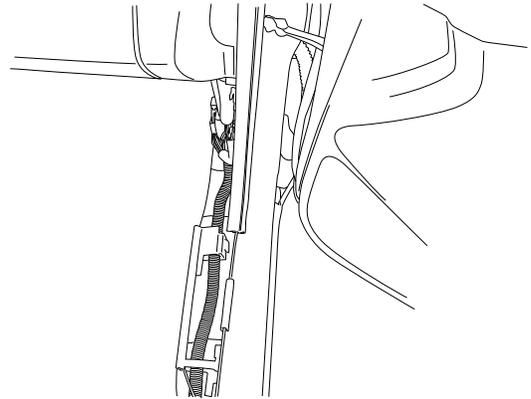
18

Connect Green/Yellow Power Step trigger wire to Green/Yellow factory Door Ajar signal wire (12 volt negative with door open) using supplied Posi-Tap.



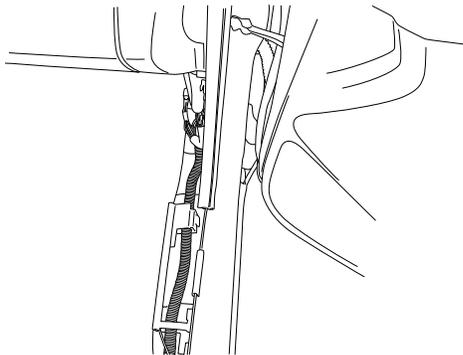
19

In passenger-side front door sill, locate Door Ajar signal wires inside Black plastic split loom. Front Red/Black rear Pink/Black



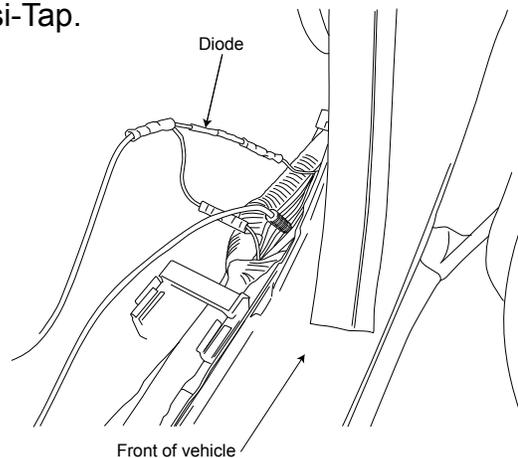
20

Install Single Diode harness as shown in step 16 on Pink/Black wire (12 volt negative with door open) and connect to Power Step Pink/Black trigger wire. Make sure to install the diode toward the front of the vehicle.



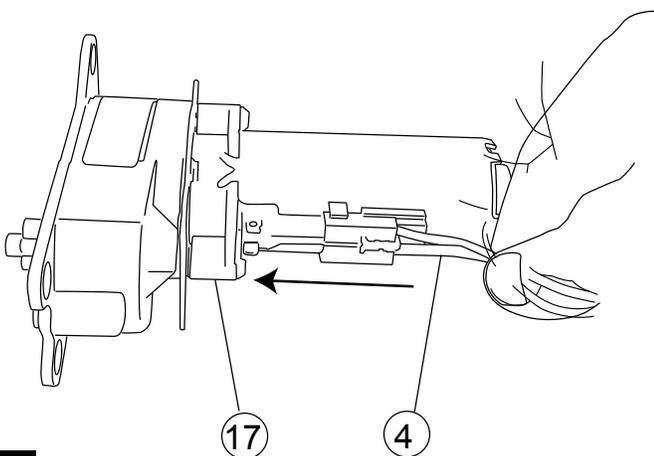
21

Connect Red/Black Power Step trigger wire to Red/Black factory Door Ajar signal wire (12 volt negative with door open) using supplied Posi-Tap.



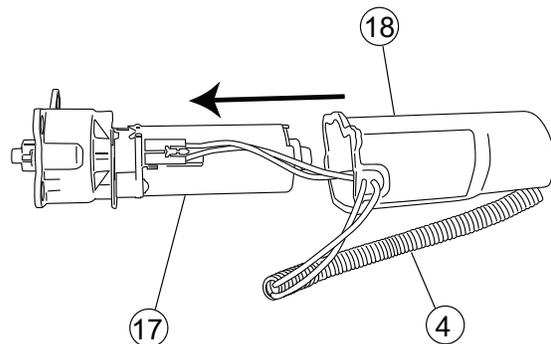
22

Connect Wire Harness to Motor.



23

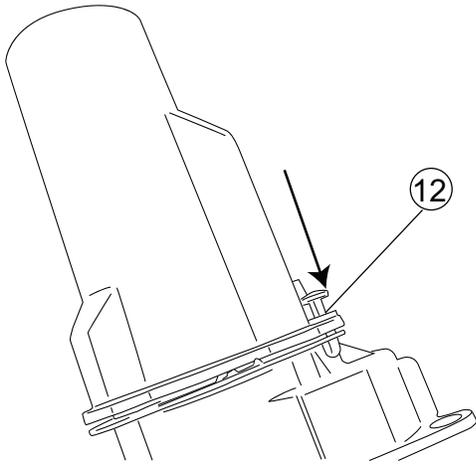
Slide rubber grommet on Wire Harness into slot of Motor Cover. Slide Motor Cover over Motor.



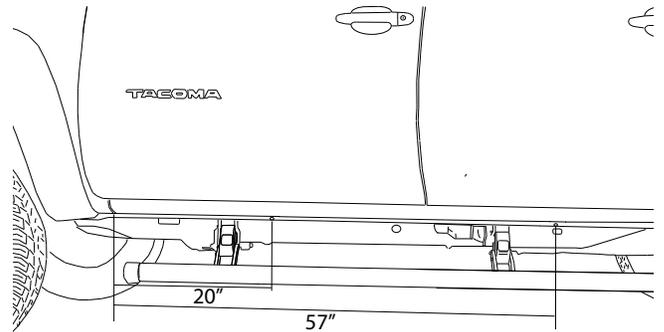
24

AMP RESEARCH POWER STEP – TACOMA

Insert plastic push pin rivets in mounting holes of Motor Cover.



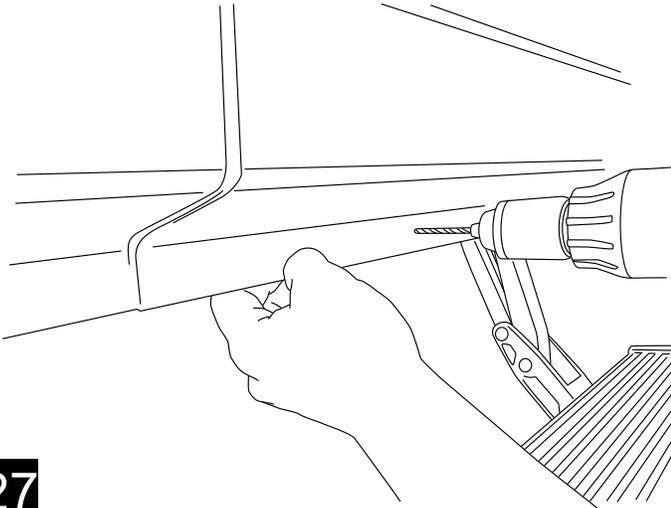
On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 20" for front LED Light and 57" for rear LED Light.



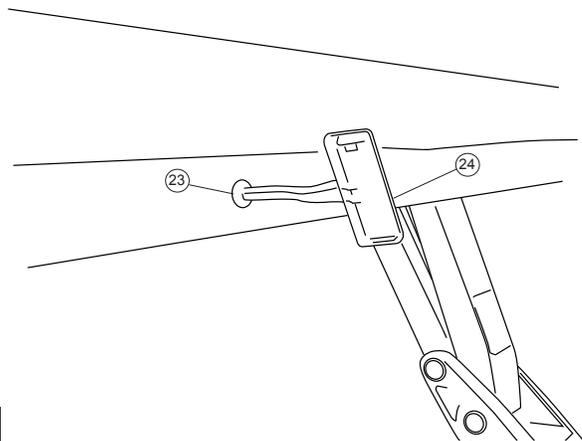
25

26

Drill a 9/32" hole through the pinch weld at marked locations. Debur all holes.



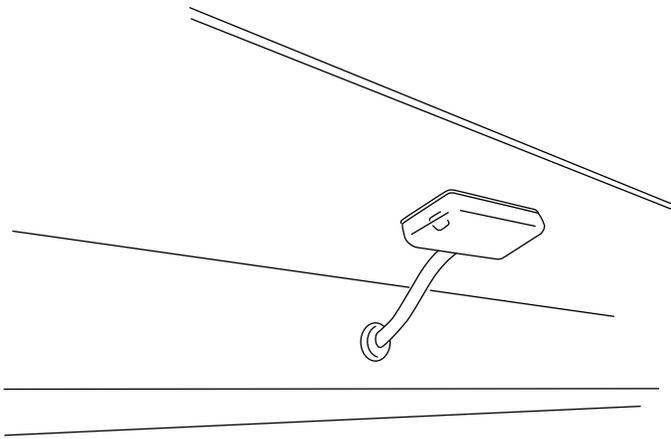
Insert grommet into drilled holes. Insert lamp wires through the grommets. (Silicon lube will help wires slip through grommets.)



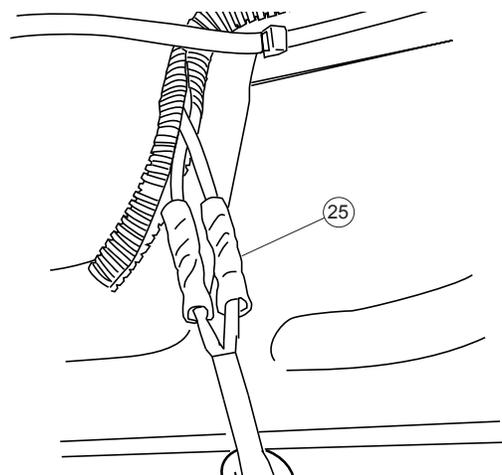
27

28

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



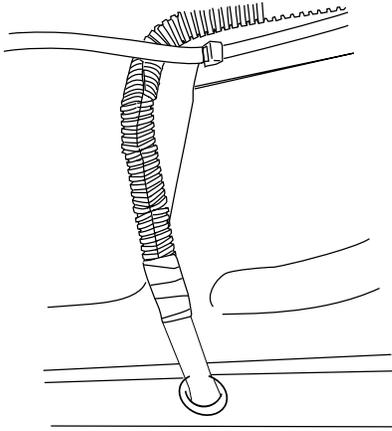
Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black



29

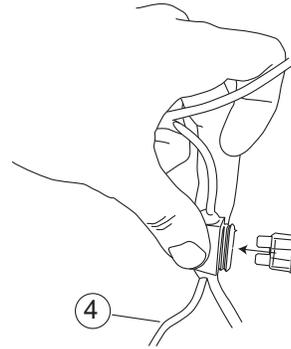
30

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.



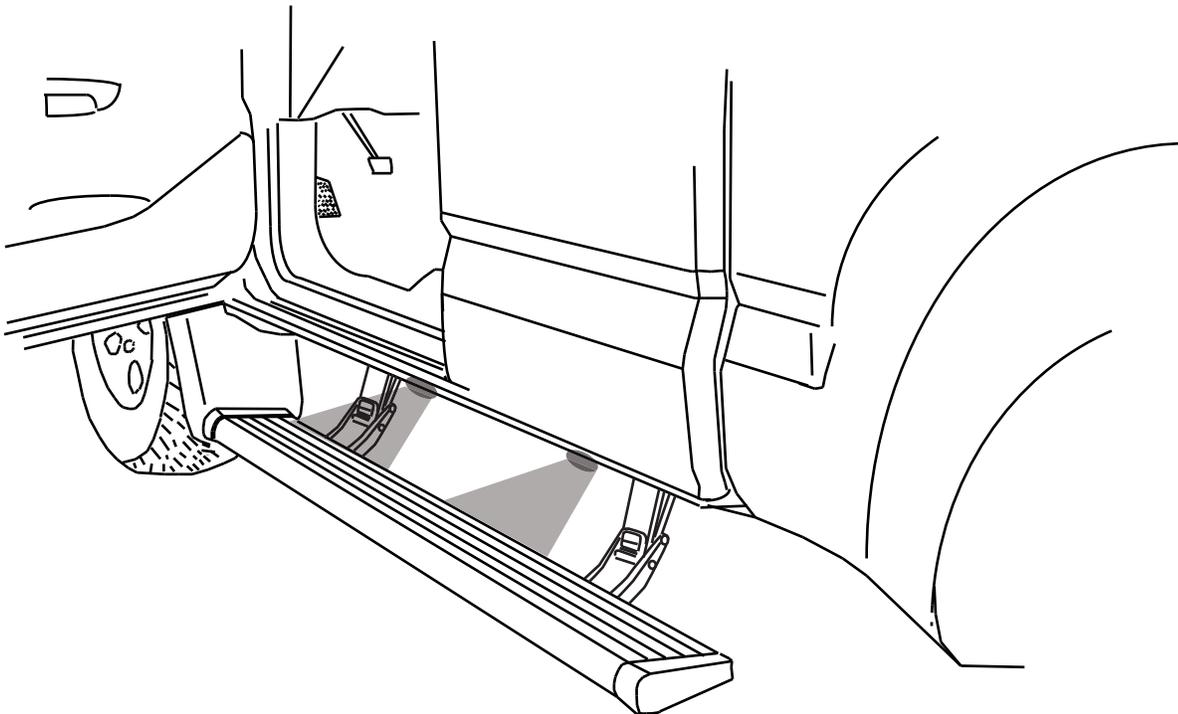
31

Reinstall the fuse.



32

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



**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.

# Congratulations on the purchase of your AMP Research Power Step



Here's what you should know...

## OPERATION

The AMP Research Power Step automatically deploys when at least one door opens and automatically retracts under your vehicle when both front and rear doors close. If resistance or blockage is encountered while the Power Step is in motion, the drive system is designed to automatically stop. To reset, simply open or close the vehicle door and the Power Step will resume normal operation.

## MAINTENANCE TIPS

The stepping surface and drive mechanism can be washed with mild soap and water using a soft brush or sponge to dislodge any mud, dirt or accumulated road grime. Rinse with fresh water.

To prevent slipping, avoid applying waxes, lubricants or protectants like Armor All® to the step surface.

When washing your vehicle, the Power Steps can be set to remain deployed with the doors closed for easy cleaning. Do this...

- 1** With the Power Step deployed, press and hold the board down with your foot.
- 2** Close the door while continuing to press down the board. (This will not harm motor.)
- 3** To reset the Power Step, simply open and close the door. (Repeat for both sides of vehicle.)

**CAUTION! BE SURE TO KEEP HANDS AWAY WHEN THE POWER STEP IS IN MOTION.**

[amp-research.com](http://amp-research.com)

## LIMITED WARRANTY

AMP RESEARCH warrants product to be free from defects in material and workmanship, for terms specified below, provided there has been normal use and proper maintenance. All remedies under this warranty are limited to the repair or replacement of any item found by the factory to be defective within the time period specified.

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.

THE WARRANTY TIME PERIOD IS AS FOLLOWS: 5-YEARS FROM DATE OF PURCHASE.

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.