

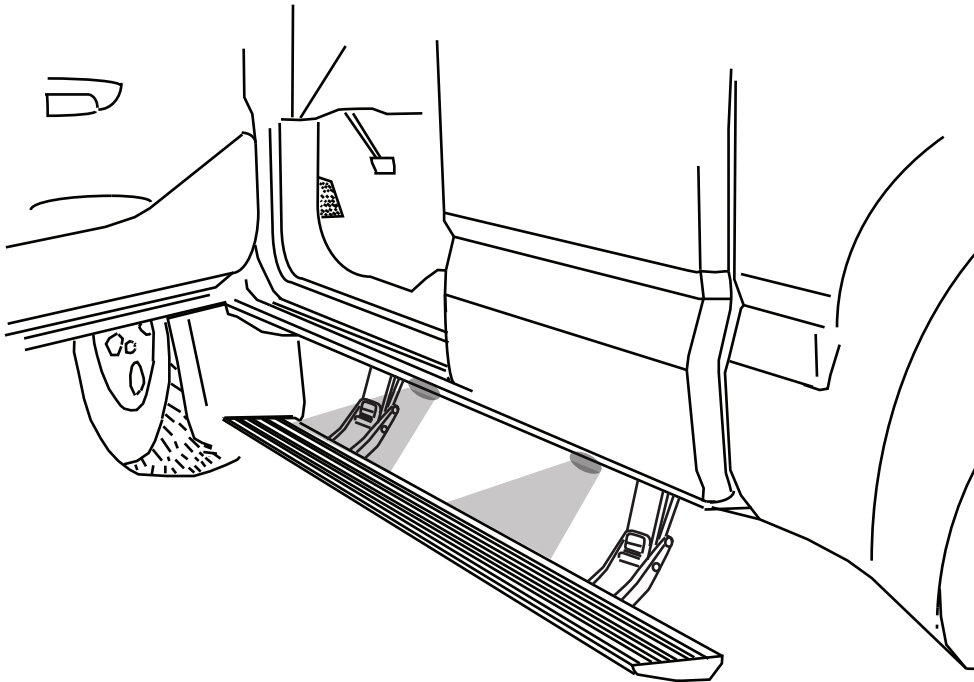
# INSTALLATION GUIDE

# AMP RESEARCH Power Step

MADE IN USA

APPLICATION	MODEL YR	PART #
Toyota Tacoma Double Cab	2016	75162-01A
Toyota Tacoma Access Cab*	2016	75162-01A

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



## INSTALLATION TIME

**3-5 Hours**

Professional installation recommended

## SKILL LEVEL



3= Experienced

## TOOLS REQUIRED

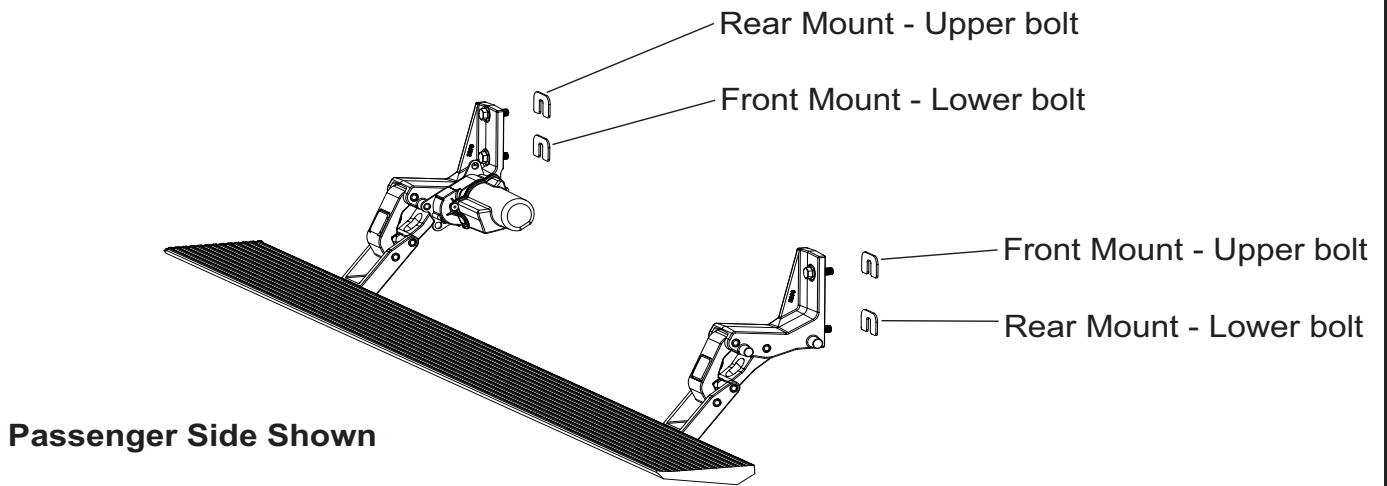
- Safety goggles
- Measuring tape
- 19 mm socket
- 10 mm socket
- 12 mm socket
- Ratchet wrench and extension
- Pliers
- Wire crimpers
- Wire stripper / cutter
- 3/16" hex key wrench ( allen wrench )
- 4mm hex key wrench ( allen wrench )
- Electrical tape
- Weather proof caulking ( silicone sealer )
- 1/8", 9/32" & 9/16" drill bit
- Drill

Invented, engineered and manufactured exclusively by AMP Research in the USA. May be covered by one of the following patents: 6,641,158; 6,830,257; 6,834,875; 6,938,909; 7,055,839; 7,380,807; 7,398,985; 7,584,975 ©2012 AMP Research. All rights reserved. Printed in USA.

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.

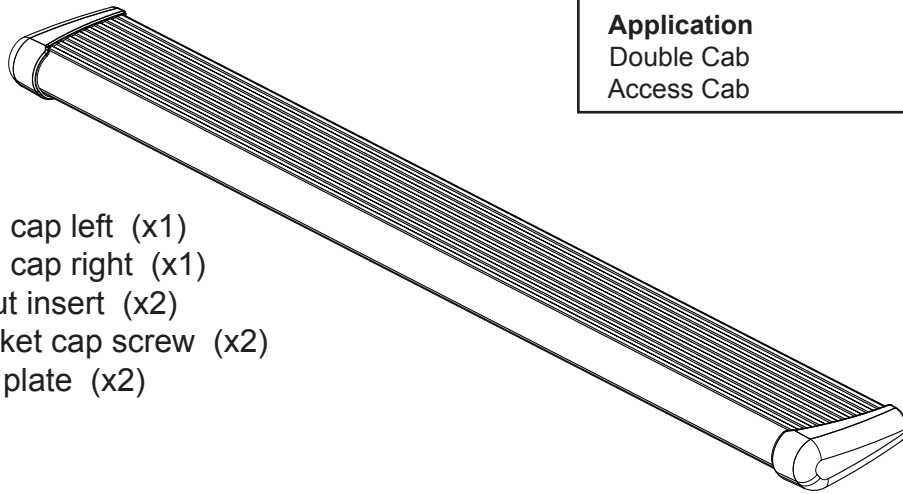
Misalignment:	Shim Correction:
The gap between board and vehicle cladding is too large toward rear of running board.	Shim rear mount at lower bolt. (diagram below)
The gap between board and vehicle cladding is too small toward rear of running board.	Shim rear mount at upper bolt. (diagram below)
The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



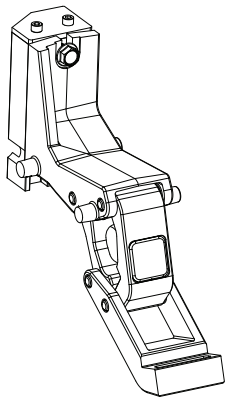
**Note: Some Applications require modification.**

Application	Cut Length
Double Cab	70" (No Modification Required)
Access Cab	60" (Trim 10")

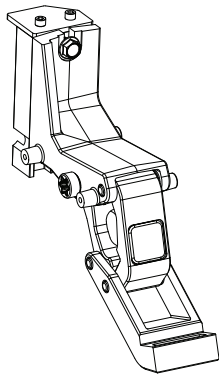


- End cap left (x1)
- End cap right (x1)
- T-nut insert (x2)
- Socket cap screw (x2)
- Nut plate (x2)

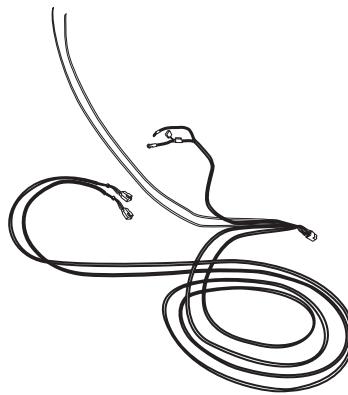
COMPONENT/PARTS IDENTIFICATION



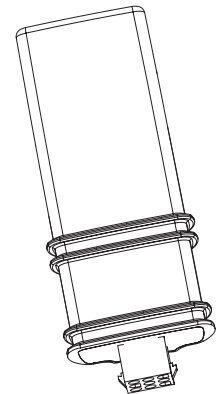
**2** x2  
Idler Linkage Assembly



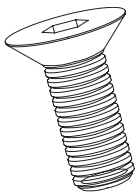
**3** x2  
Motor Linkage Assembly



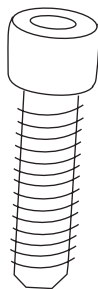
**4**  
Wire Harness



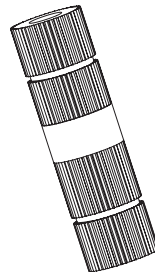
**5**  
Controller



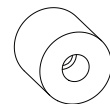
**6** x4  
Flat Head Cap Screw



**7** x8  
Socket Cap Screw



**8** x4  
Posi-Tap™ (Red/Grey)

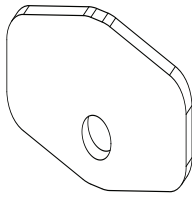


**9**  
Stand-off

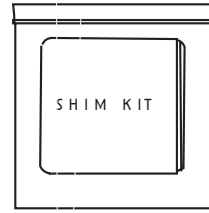
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**10** x6  
Cinch Fastener



**11** x4  
Step Shims

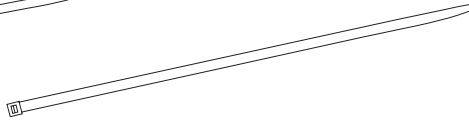


Includes x4

**12**  
Shim Kit

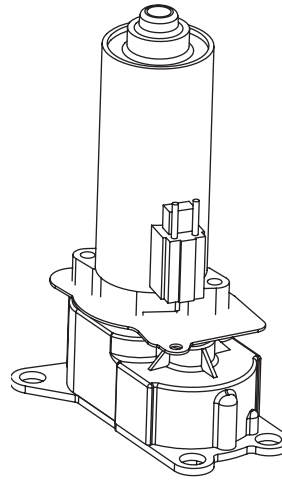


**13** x20  
Cable Tie 7"

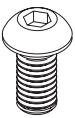
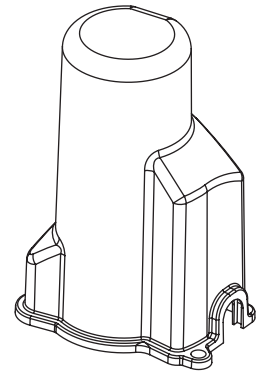


**14** x2  
Cable Tie 11"

**15** x2  
Motor



**16** x2  
Motor Cover



**17**  
Button Head Bolt



**18**  
M8 Washer



**19** x4  
Spring Washer

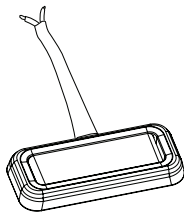


**20** x4  
M12 Bolt

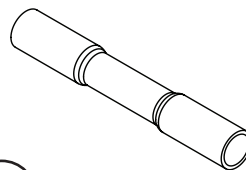


**21** x4  
Grommet

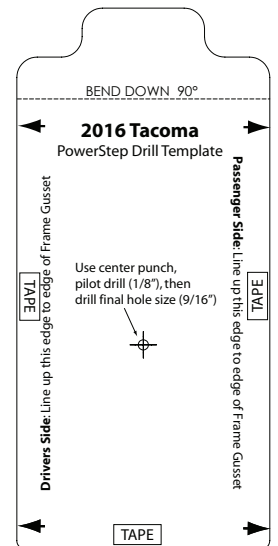
**22** x4  
LED Lamp



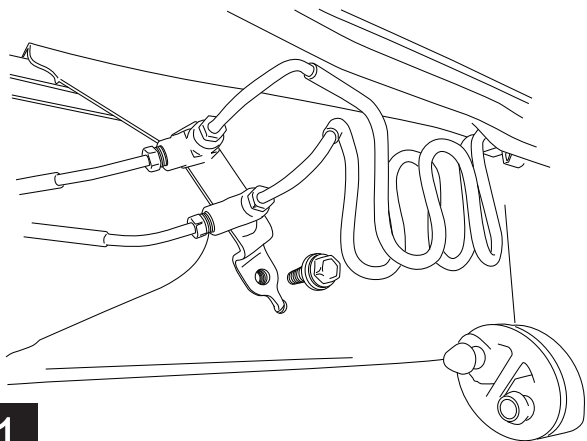
**23** x8  
Butt Connector



**24**  
Tacoma Drill Tem-  
plate

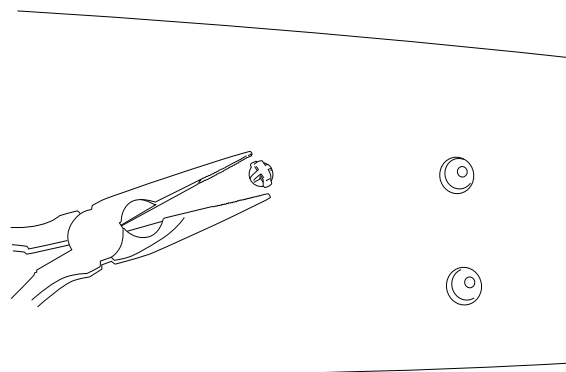


Remove brake line retainer bolt from driver side front inside frame rail to provide access inside frame.



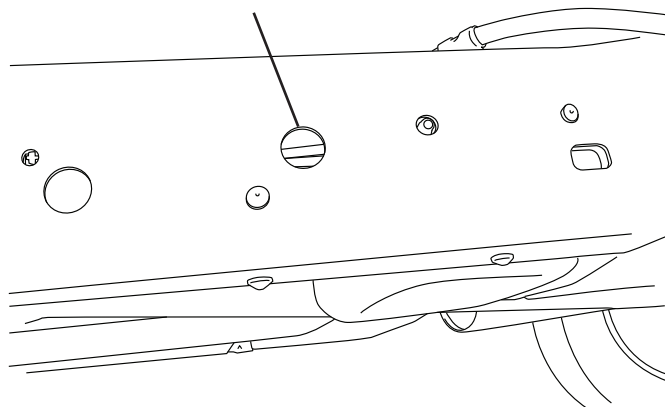
1

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

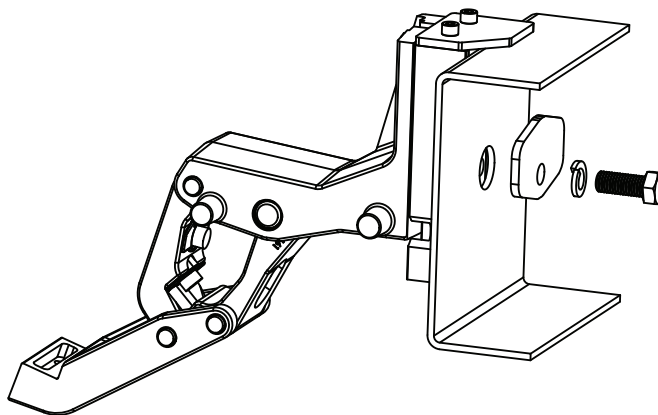
Install driver side rear motor linkage through this hole in frame.



3

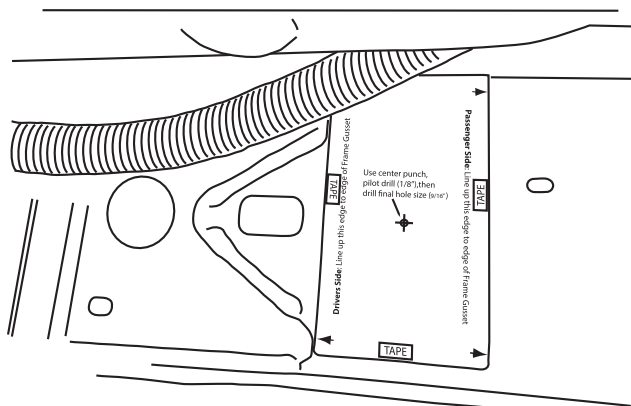
Through-bolt linkage to frame as shown in next step.

Secure Linkage Assembly to frame. FINGER TIGHTEN ONLY.



4

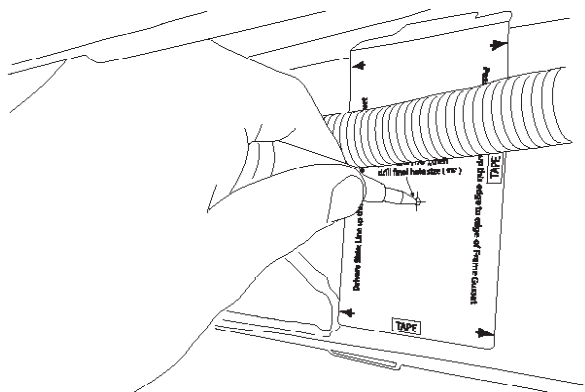
Use supplied template to mark a hole for front idler installation as shown below. Use tape to hold template in place.



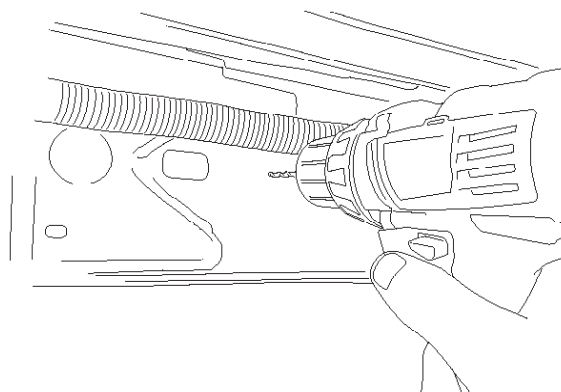
5

Note: Harness clip will need to be removed to allow harness to be moved out of the way

Center Punch hole and pilot drill with an 1/8" drill bit. Then drill final hole size to 9/16". Repeat steps for passenger side of vehicle.

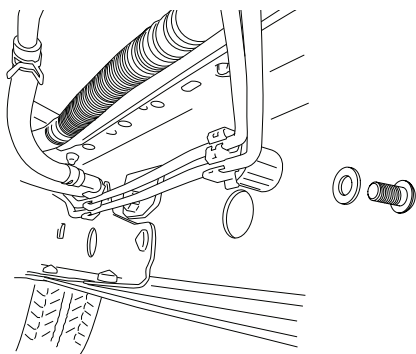


6



**Note: Keep harness away from drill to prevent damage.**

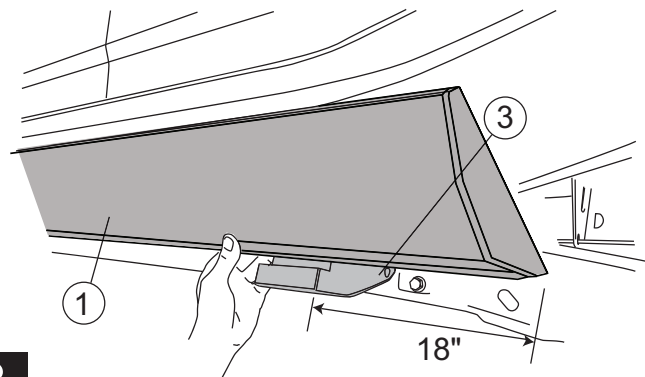
Install brake line stand-off inside driver rear frame rail as shown.



Replace all brake line fasteners.

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

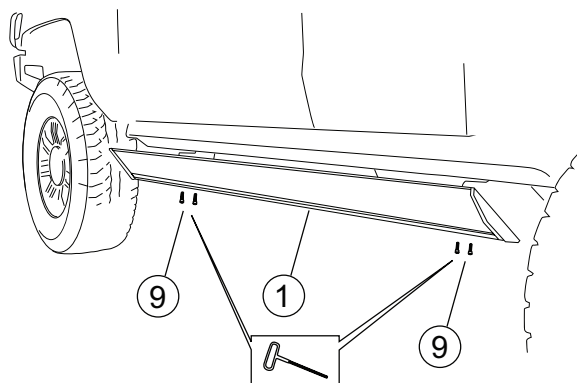
Center running board to doors and mount onto linkages by sliding T-nuts into position. Measure 18 inches from end of board to side of linkage, as shown below.



8

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

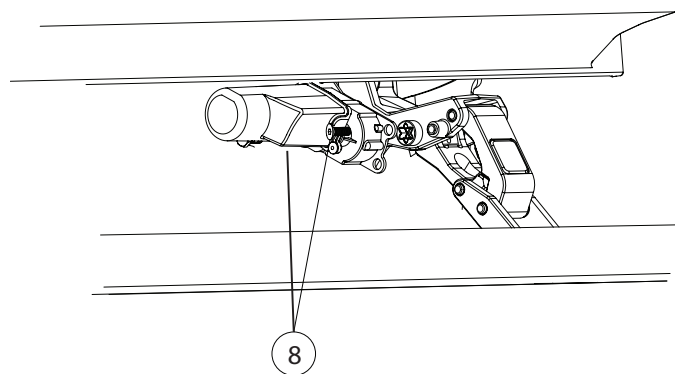
Attach motor onto Motor Linkage Assembly using two M6x16 flat head screws on both drive and passenger sides



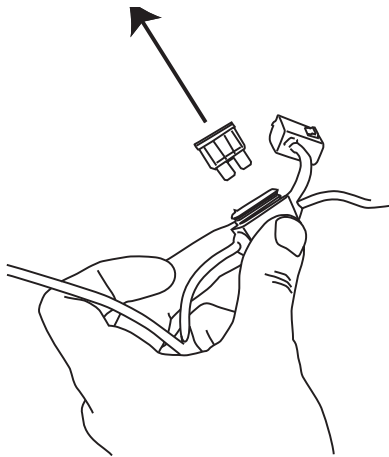
9

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

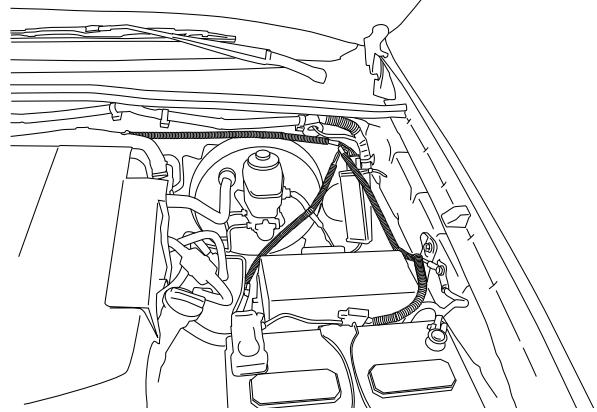
10



Remove fuse.



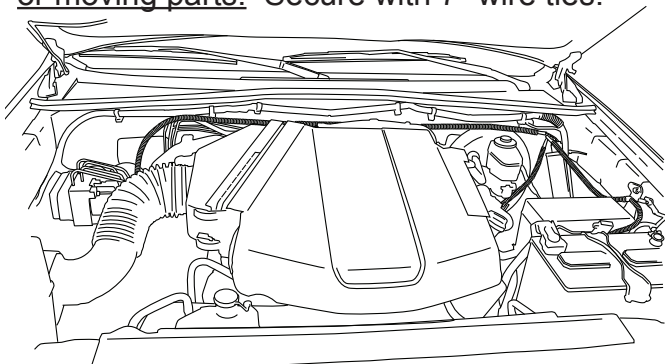
Secure controller to factory wire loom using supplied 11" wire ties. Connect Red fused wire to stud on battery positive terminal. Connect Black wire to ground on inner fender panel.



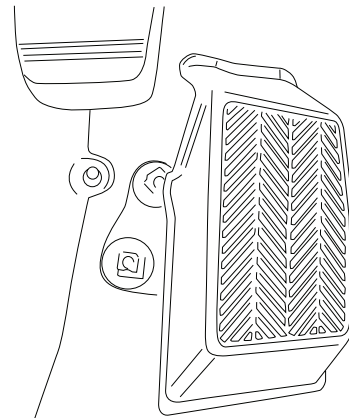
11

12

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



Pry left foot rest loose at driver side kick panel.



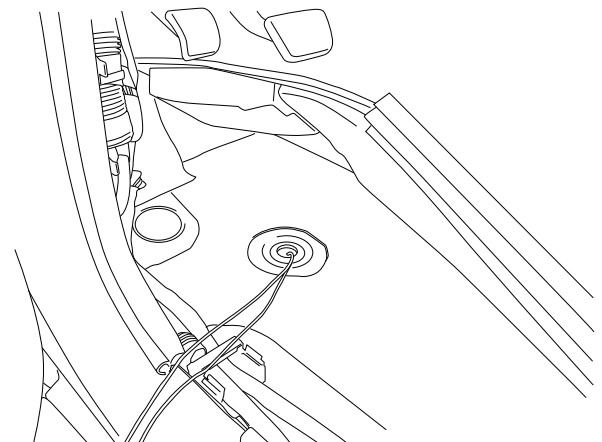
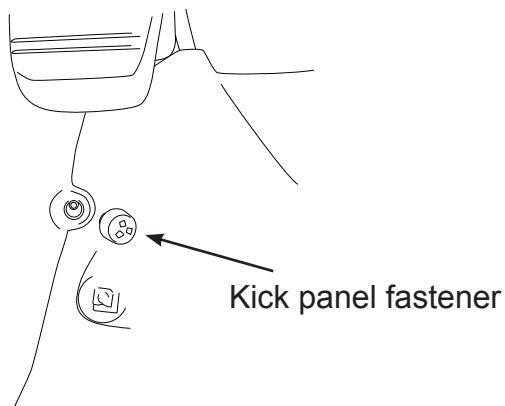
Note: Run loom with Green/Yellow and Pink/Black Trigger wires down drivers side of vehicle.

13

14

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

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

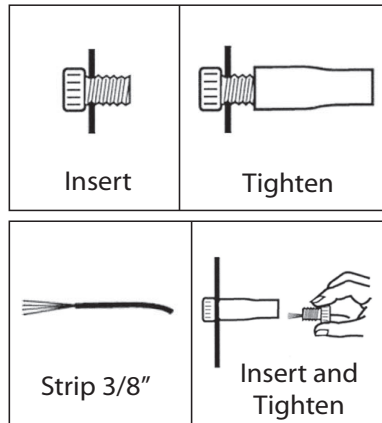


15

16

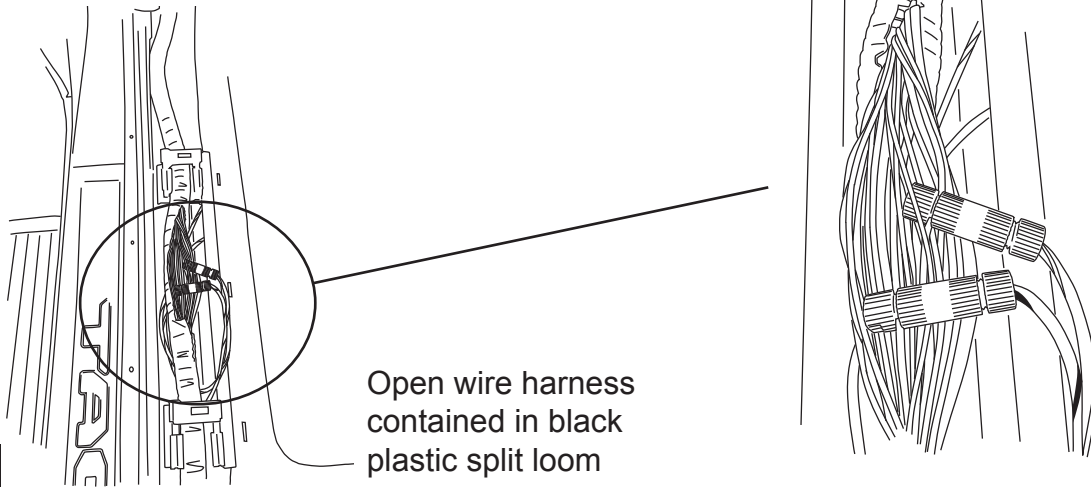


Posi-Tap Instructions



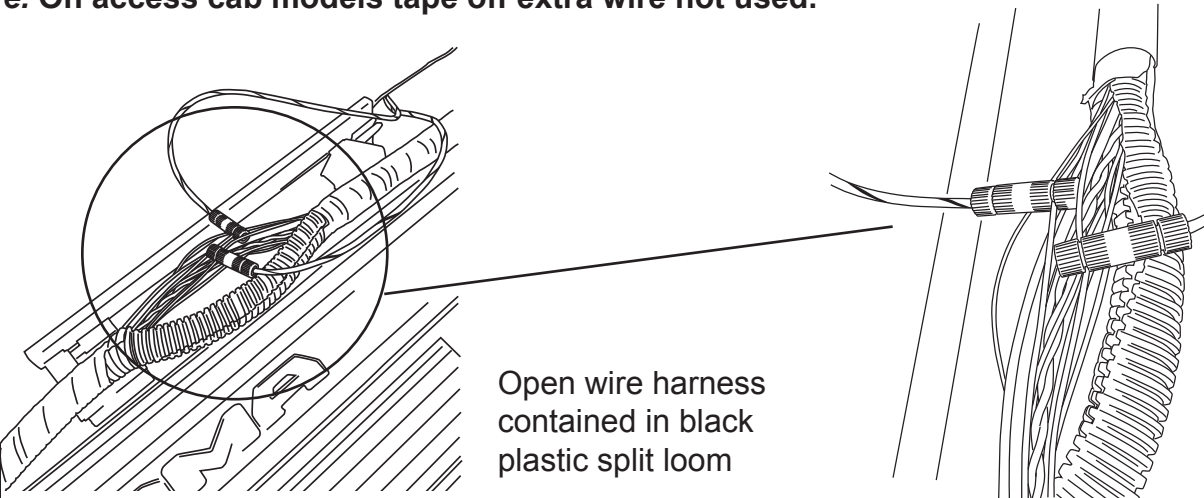
17

**Driver side:** Locate door ajar signal wires on driver side. Front: Solid Yellow, Rear: Solid Red or Solid Pink. **On access cab models tape off extra wire not used.**



18

**Passenger side:** Locate door ajar signal wires on Passenger side. Front: Solid Green, Rear: Solid Purple. **Note: Three green wires are located in the loom. Look for the lighter shaded wire.** **On access cab models tape off extra wire not used.**

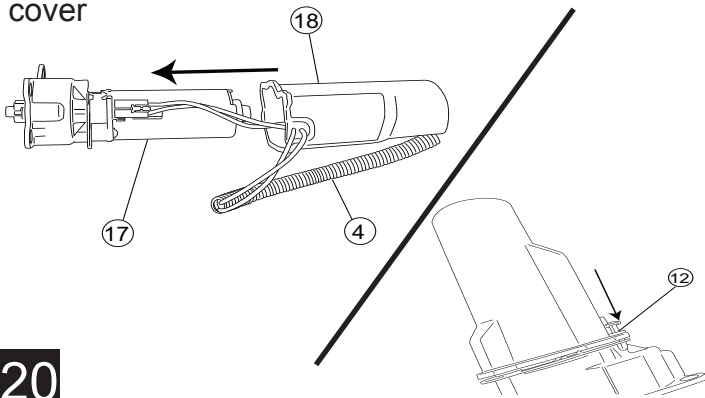


19

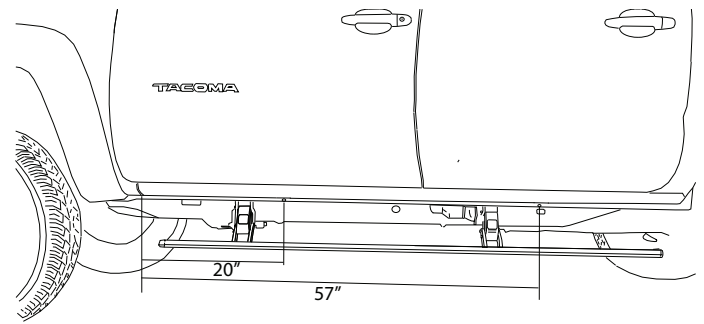


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Connect wire harness to motor. Slide rubber grommet on Wire Harness into slot of Motor Cover. Slide Motor Cover over Motor. Insert plastic push pin rivets in mounting holes of motor cover



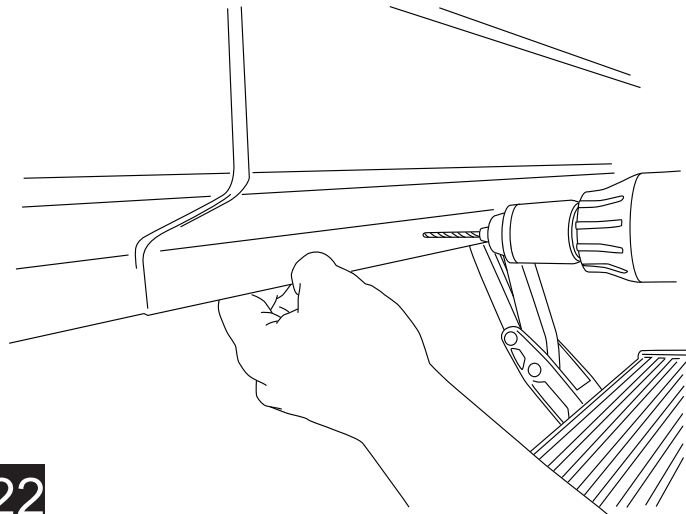
On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 20" for front LED Light and 57" for rear LED Light.



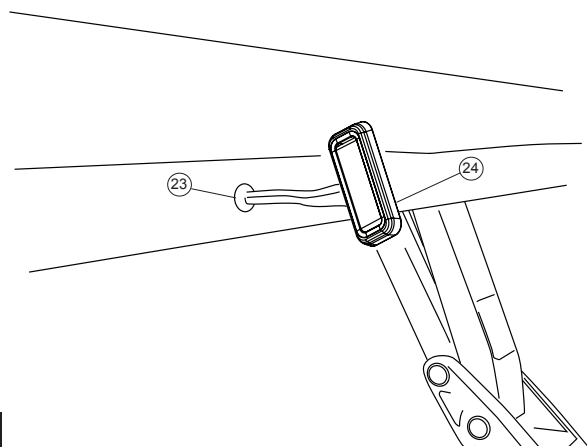
20

21

Drill a pilot hole followed by a 9/32" hole through the pinch weld at marked locations. Deburr all holes.



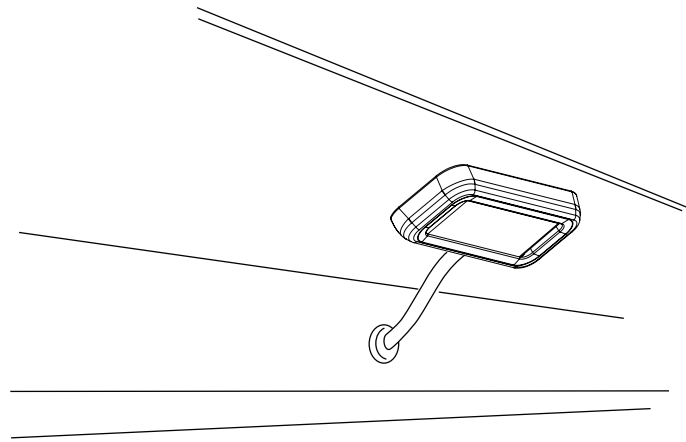
Insert grommet into drilled holes. Insert lamp wires through the grommets. (Silicon lube will help wires slip through grommets.)



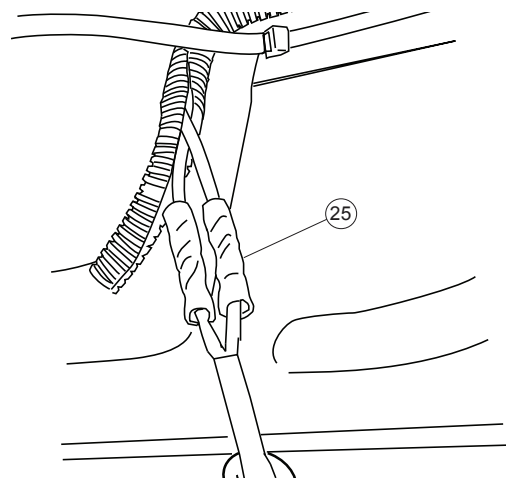
22

23

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



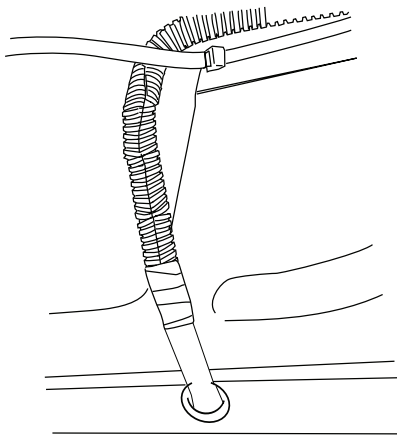
Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube.



24

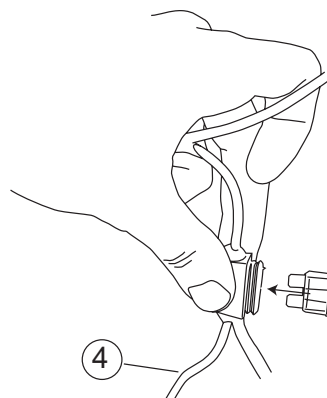
25

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.



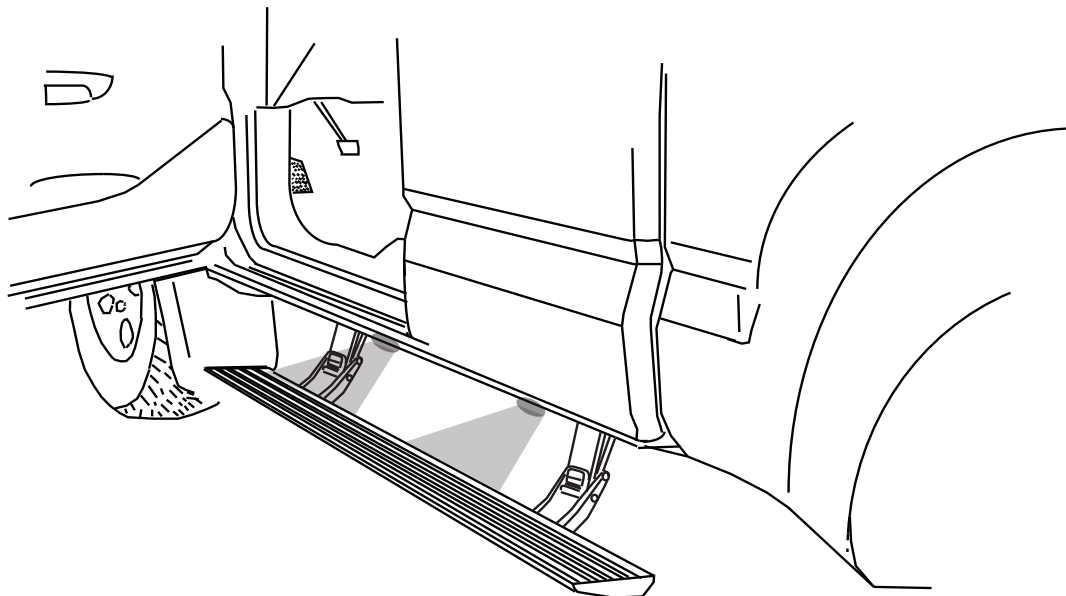
26

Reinstall the fuse.



27

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 reilluminated by closing and opening any door of vehicle.

**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.

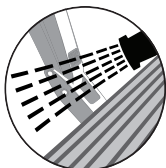
**Automatic stop:**

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.

**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.