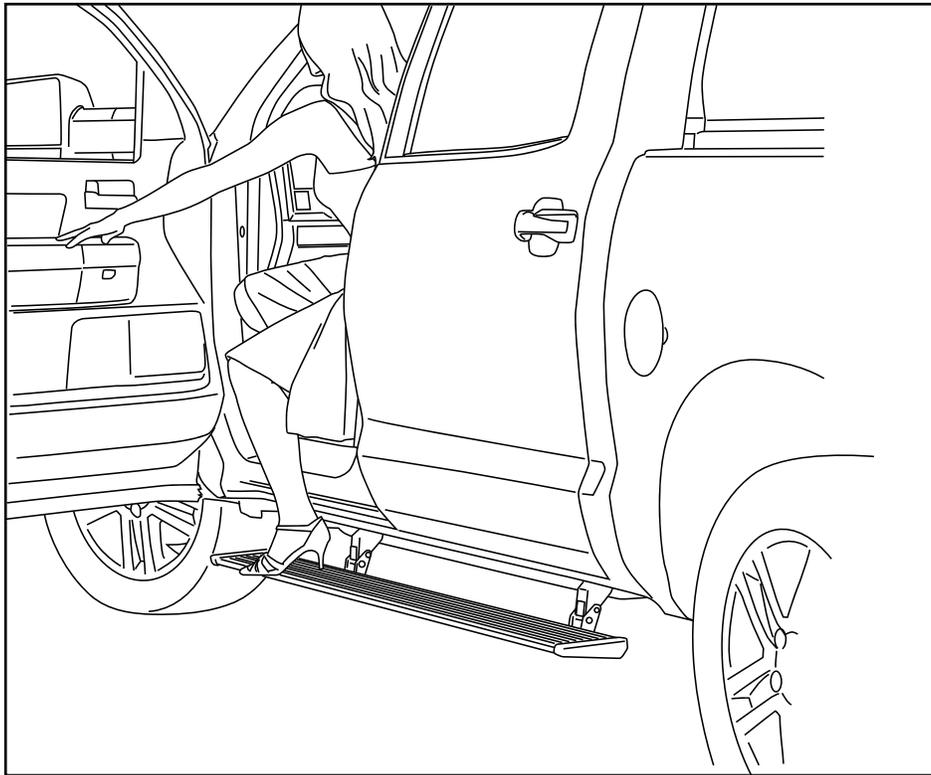


# INSTALLATION GUIDE

# AMP RESEARCH Power Step

MADE IN USA

APPLICATION	MODEL YR	PART #
Toyota Tundra Double Cab	2007 - up	75137-01A
Toyota Tundra CrewMax	2007 - up	75137-01A
Toyota Sequoia	2008 - up	75137-01A



## INSTALLATION TIME



## SKILL LEVEL



## TOOLS REQUIRED

- Measuring tape
- 13 mm socket
- 10 mm socket
- Ratchet wrench and extension
- 13mm end wrench
- Wire stripper / cutter
- 3/16" hex key wrench (allen wrench)
- 5mm hex key wrench (allen wrench)
- 4mm hex key wrench ( allen wrench )
- Electrical tape

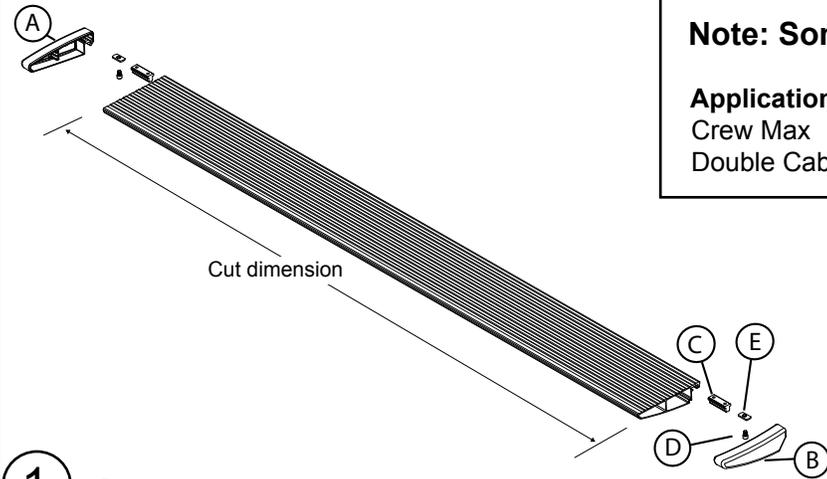
AMP RESEARCH TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 6:00 AM - 5:00 PM PST

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.

**AMP RESEARCH POWER STEP – TOYOTA TUNDRA / SEQUOIA**

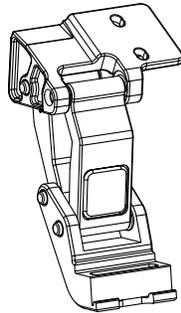
**Note: Some Applications require modification.**

Application	Cut Length
Crew Max	79" (No Modification Required)
Double Cab / Sequoia	63.5" (Trim 15.5")

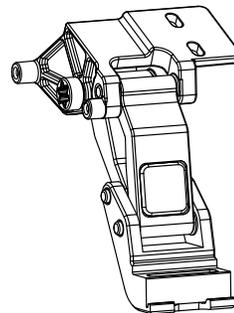


**1** x2  
20-03314-XX  
Running board assembly

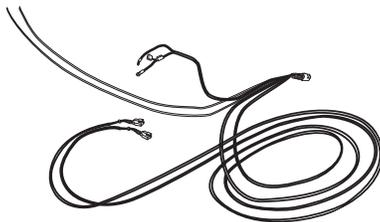
- (A) 19-03225-11 End cap left (x2)
- (B) 19-03225-12 End cap right (x2)
- (C) 19-02663-90 T-nut insert (x4)
- (D) 19-03236-90 Socket cap screw (x4)
- (E) 19-03237-90 Nut plate (x4)



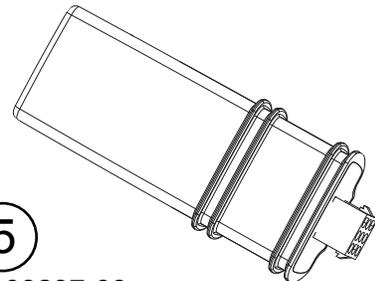
**2** x2  
10-03565-10  
Idler linkage assembly



**3** x2  
10-03564-10  
Motor linkage assembly

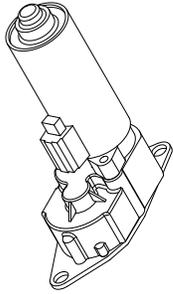


**4**  
19-03568-91  
Wire harness

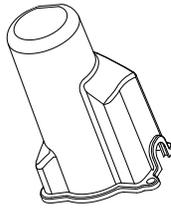


**5**  
19-03297-93  
Controller

AMP RESEARCH POWER STEP – TOYOTA TUNDRA / SEQUOIA



**6** x2  
19-03289-90  
Motor



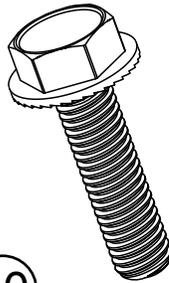
**7** x2  
19-03238-90  
Motor Cover



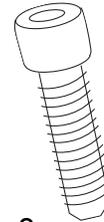
**8** x6  
19-02721-90  
Cinch Fastener



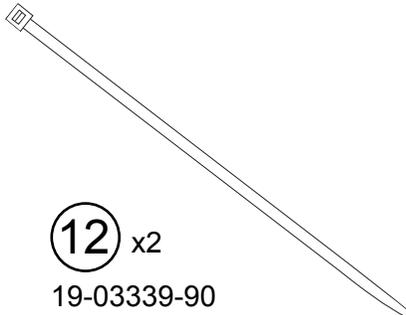
**9** x4  
19-03352-90  
Socket Cap Screw



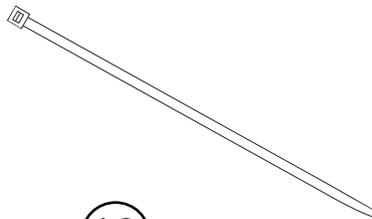
**10** x8  
19-03563-90  
Hex Flange Bolt



**11** x8  
19-02802-90  
Socket Cap Screw



**12** x2  
19-03339-90  
Cable tie (11")



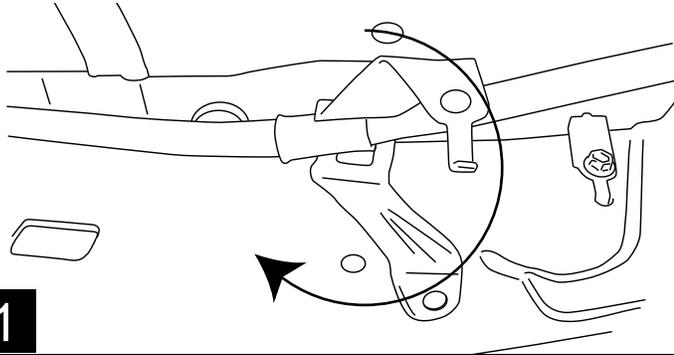
**13** x25  
19-02805-90  
Cable tie (7")



**14** x4  
19-03354-90  
Posi-Tap™

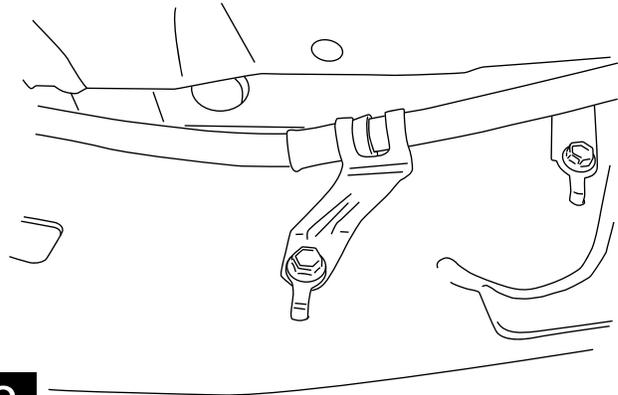
**STEP 1 & 2 for CREW MAX ONLY.  
All others skip to step 3**

Remove parking brake cable support from frame. Separate bracket and remove bracket from brake cable. Flip bracket 180 degrees to cable.



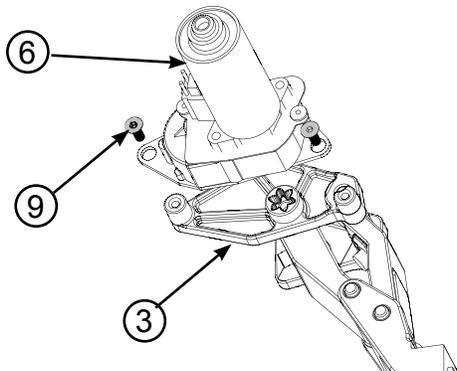
**1**

Secure parking brake cable support to frame so that the bolt is now below the cable.



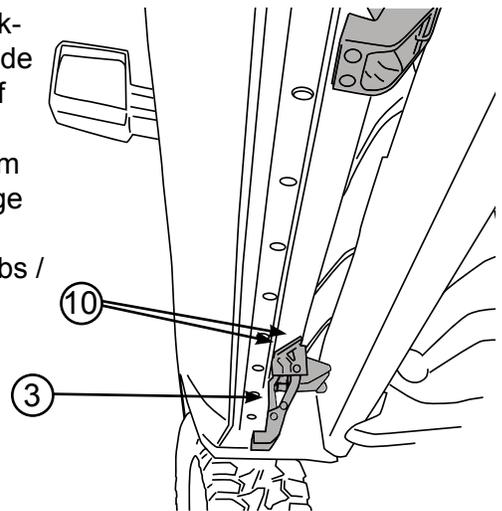
**2**

Slide motor assembly onto drive shaft and mounting bosses of driving linkage assembly. Use socket head cap screws (9) and tighten to 8 ft-lbs / 11Nm.



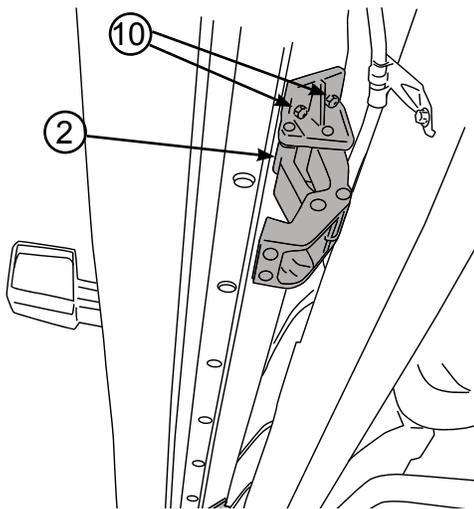
**3**

Install motor linkage on driver side in second set of factory running board holes from front. Use flange bolts (10) and torque to 22 ft-lbs / 30Nm.



**4**

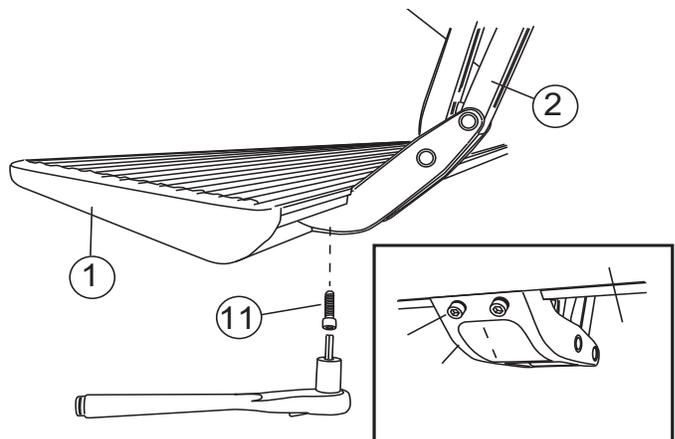
Install idler linkage in last set of factory running board holes from front. Use flange bolts (10) and torque to 22 ft-lbs / 30Nm.



**5**

Repeat linkage installation on passenger side.

Install running board. See step 7 for alignment.



**6**

## AMP RESEARCH POWER STEP – TOYOTA TUNDRA / SEQUOIA

Running board alignment.

Tundra:

Slide mounting T-nut into position. Align rear of running board with back edge of rear door.

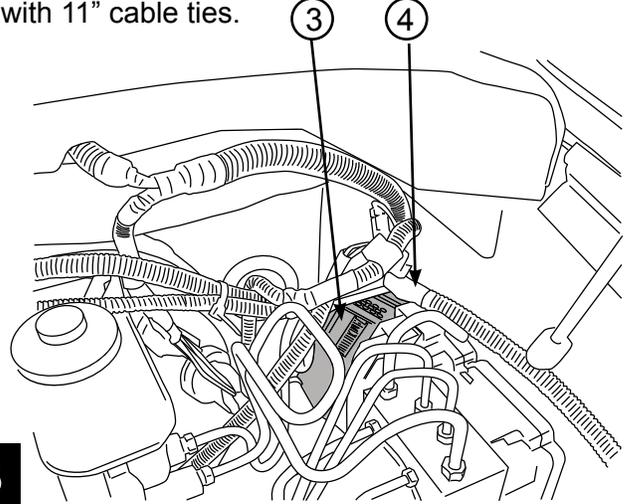
Sequoia:

Slide mounting T-nut into position. Align rear of running board 21" from rear of idler linkage on driver side and 18" from rear of idler linkage on passengers side.

Mount running board and tighten fasteners to 10 ft-lbs / 14Nm. Insure linkages are squared to body prior to torquing fasteners.

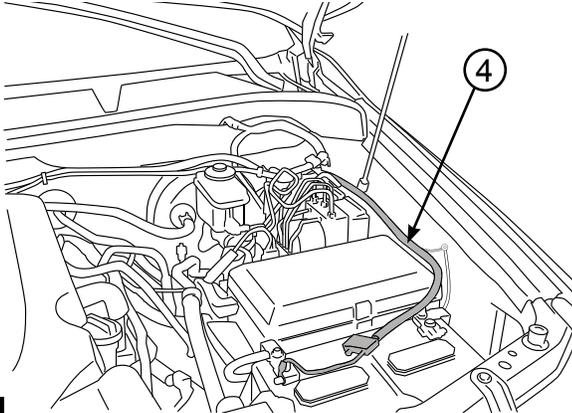
7

Install controller under hood on driver side fender apron. Secure to factory wiring loom with 11" cable ties. ③ ④



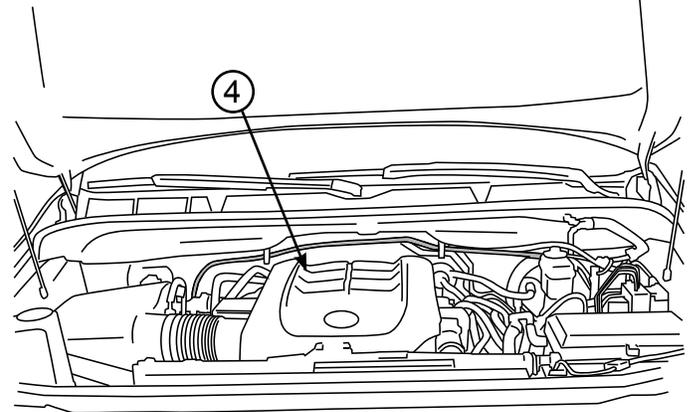
8

Remove power fuse. Connect wire harness to controller and secure locking clip. Connect red power lead to positive battery terminal and black ground lead to grounding lug on fender apron.



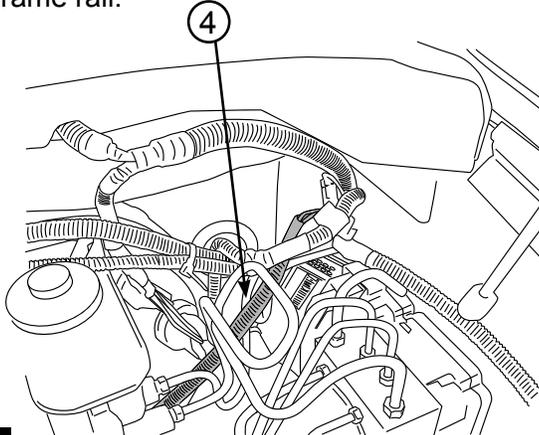
9

Route longest leg of wire harness across fire wall to passenger side and under vehicle outside of frame rail.



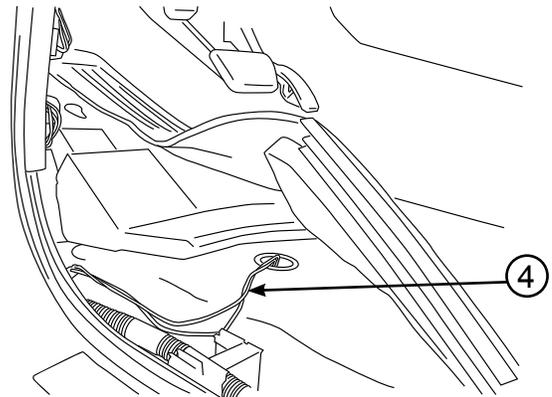
10

Route shorter leg of wire harness down driver side fender well and under vehicle outside of frame rail.

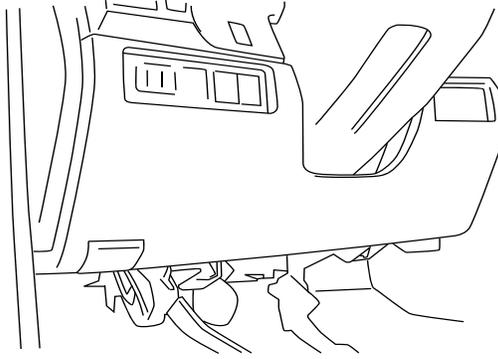


11

Remove driver and passenger front sill plates and kick panels. Pull up carpet. Locate rubber grommet under carpet in forward floorboard. Cut a slit in the rubber grommet and pass the trigger wires up through grommet under carpet to wire loom in door sill.



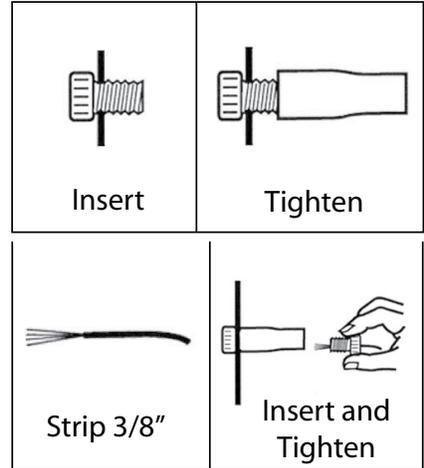
12



Remove trim panel below steering column

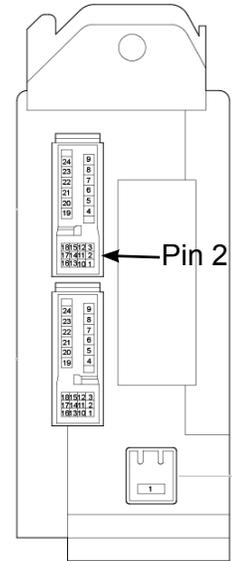
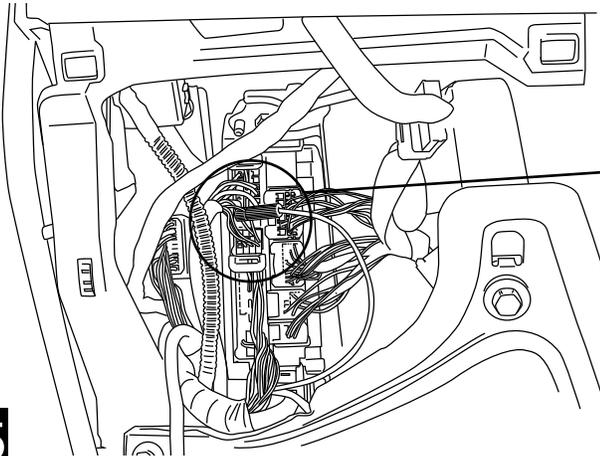
13

Posi-Tap™ instructions



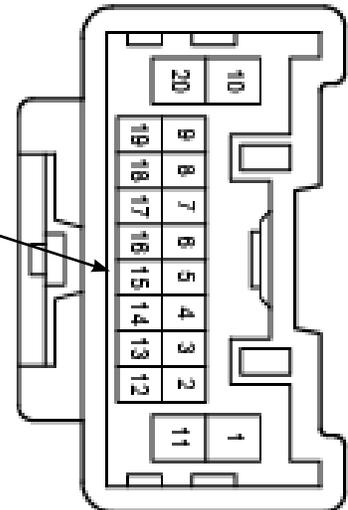
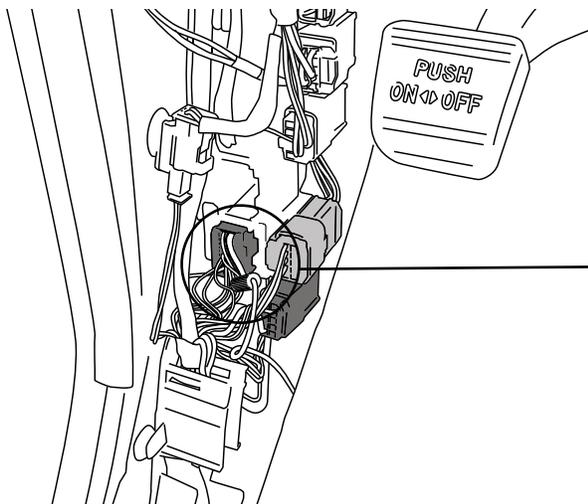
14

Locate main electrical junction box on left of steering column. Connect black Power Step wire to 18 gage charcoal wire in pin 2 of connector shown.



15

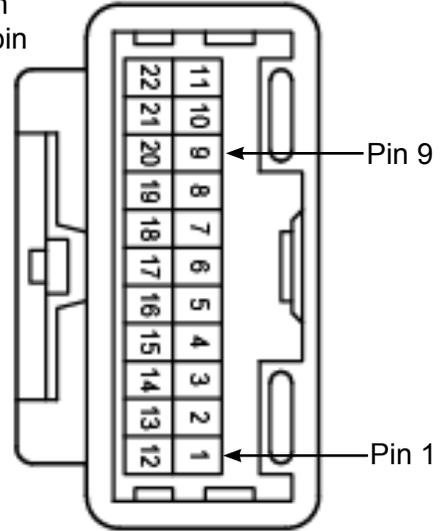
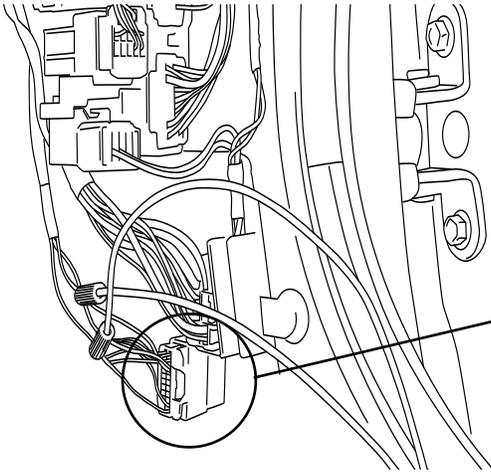
Locate black 20 pin connector at bottom of panel on left. Connect blue Power Step wire to 18 gage light blue wire in pin 15 of connector shown.



16

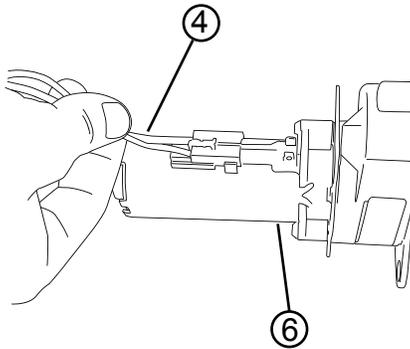
## AMP RESEARCH POWER STEP – TOYOTA TUNDRA / SEQUOIA

Locate the grey 22 pin connector at the bottom of the passenger side kick panel area. Connect blue Power Step wire to 18 gage light blue wire in pin 1 and connect white Power Step wire to the 18 gage white wire in pin 9 of connector shown

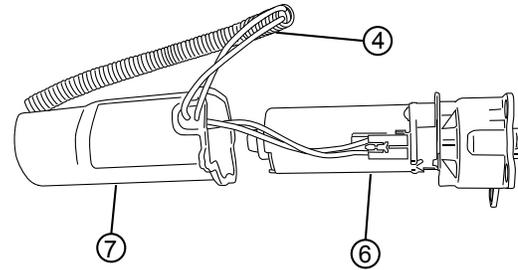


17

Insert plug from wire harness onto motor.



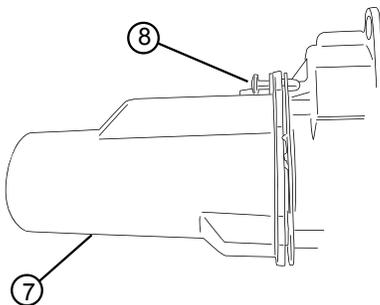
18



Slide rubber grommet on wire harness into slot of motor cover. Install motor cover onto motor.

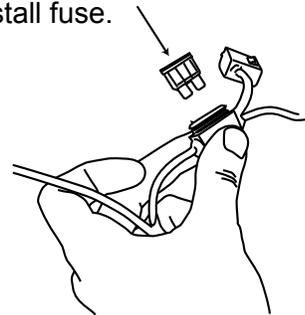
19

Partially separate the plastic rivet from the pin by bending the pin back and forth. Slide motor cover over motor and insert plastic push pin rivets in mounting holes of motor cover. Drive pin flush with rivet head. Use pliers to ease installation.



20

Reinstall fuse.



Test all four doors. Re-install any remaining trim panels.

21



# 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 wash 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.

## 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