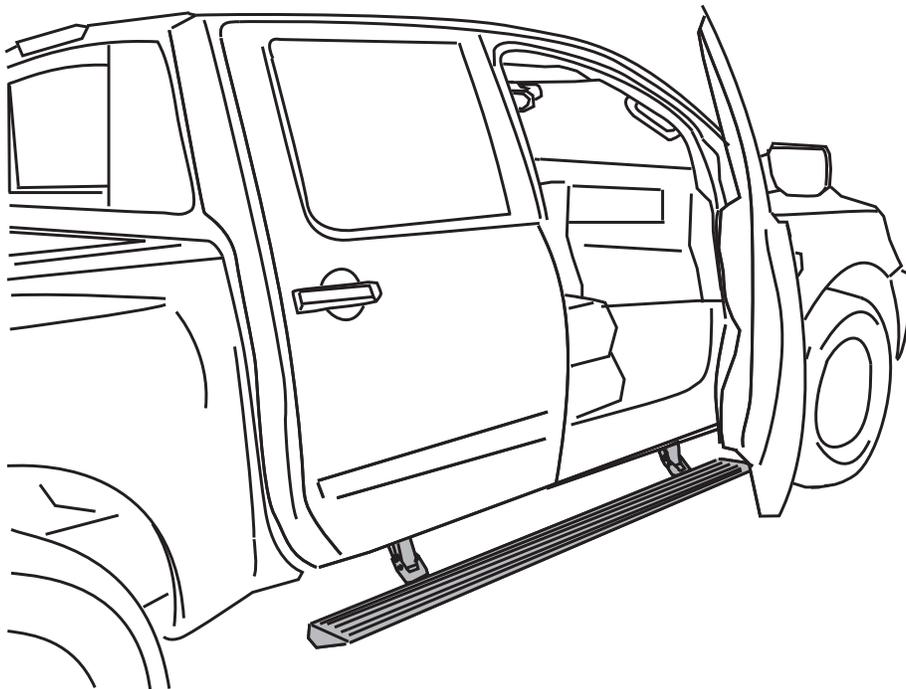


# INSTALLATION GUIDE

# AMP RESEARCH Power Step

MADE IN USA

| APPLICATION           | MODEL YR  | PART #    |
|-----------------------|-----------|-----------|
| Nissan Armada         | 2004 - up | 75110-01A |
| Nissan Titan Crew Cab | 2004 - up | 75110-01A |
| Nissan Titan King Cab | 2004 - up | 75110-01A |



### INSTALLATION TIME



### SKILL LEVEL



4= Experienced

### TOOLS REQUIRED

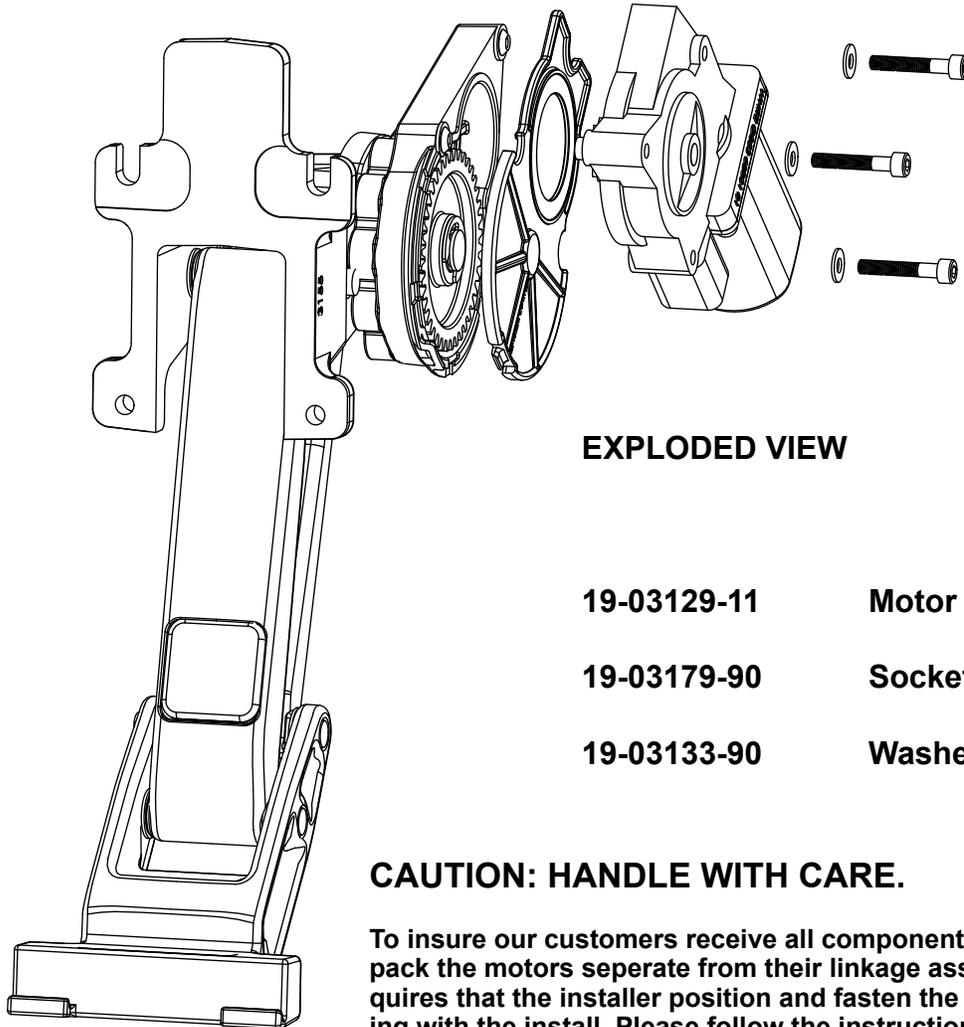
- Safety goggles
- Measuring tape
- Flat blade screwdriver
- Phillips head screwdriver
- 13 mm socket
- 12 mm socket
- 10 mm socket
- 14 mm end wrench
- 13 mm end wrench
- Ratchet wrench and extension
- Wire crimpers
- Wire stripper/cutter
- 3/16" hex key wrench (allen wrench )
- 5 mm hex key wrench (allen wrench )
- 4 mm 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.

**INSTALLATION GUIDE****Attaching motor to linkage assembly**

The motors need to be installed before continuing with the rest of the Power Step install.

**EXPLODED VIEW**

|                    |                         |
|--------------------|-------------------------|
| <b>19-03129-11</b> | <b>Motor</b>            |
| <b>19-03179-90</b> | <b>Socket cap screw</b> |
| <b>19-03133-90</b> | <b>Washer</b>           |

**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.

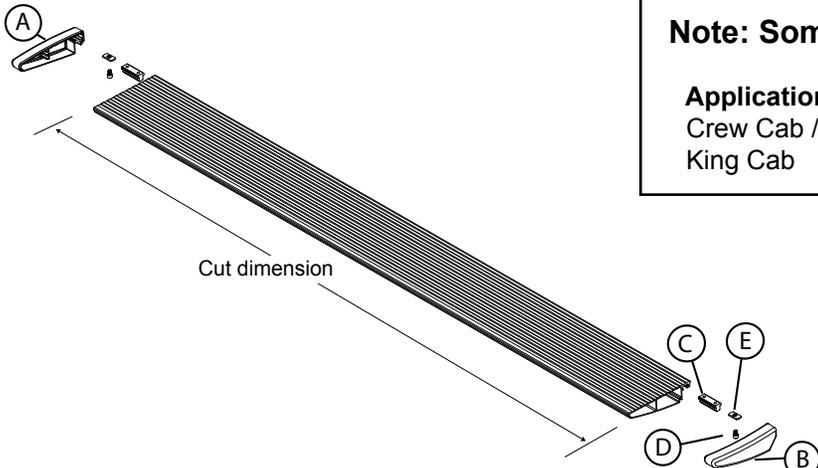
**CAUTION:** Dropping the assembly or any excessive impact MAY cause damage to the motor.

**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 T30 Torx. Tighten screws to 80 in-lbs (9N-m). Do not over torque.

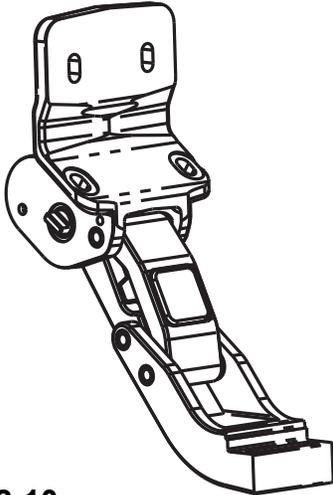
**Note: Some Applications require modification.**

| Application       | Cut Length                     |
|-------------------|--------------------------------|
| Crew Cab / Armada | 72" (No Modification Required) |
| King Cab          | 60" (Trim 12")                 |

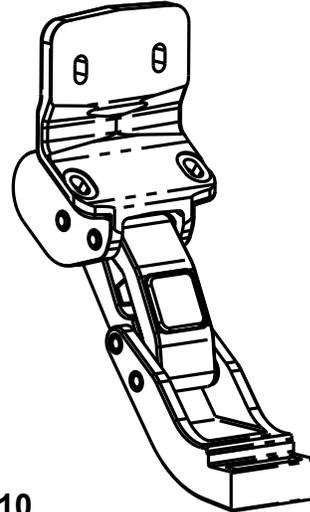


**1** x2  
Step assembly

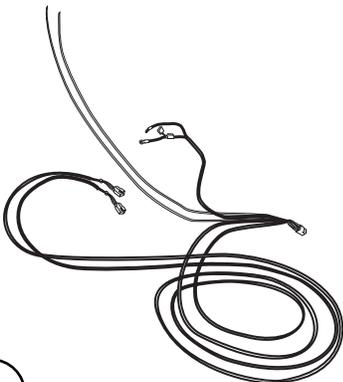
- (A) 19-03225-11 End cap left (x1)
- (B) 19-03225-12 End cap right (x1)
- (C) 19-02663-90 T-nut insert (x2)
- (D) 19-03236-90 Socket cap screw (x2)
- (E) 19-03237-90 Nut plate (x2)



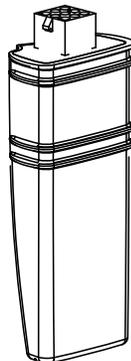
**2** x2  
10-03072-10  
Motor Linkage



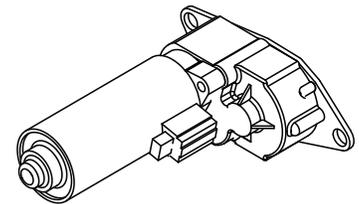
**3** x2  
10-03073-10  
Idler Linkage



**4**  
19-03082-91  
Wire Harness

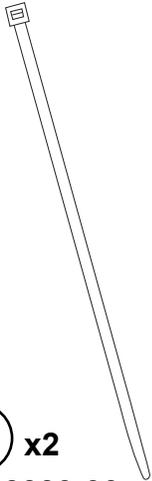


**5**  
19-03297-91  
Controller

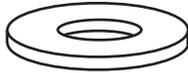


**6** x2  
19-03289-90  
Motor

**PARTS LIST AND  
HARDWARE  
IDENTIFICATION**



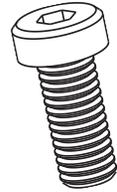
**7** x2  
19-03339-90  
Cable Tie 11"



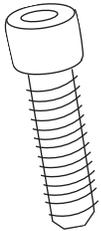
**8** x4  
16-03014-90  
Washer Block



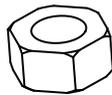
**9** x4  
19-02845-90  
Hex Nut



**10** x4  
19-03076-90  
Socket Cap Screw



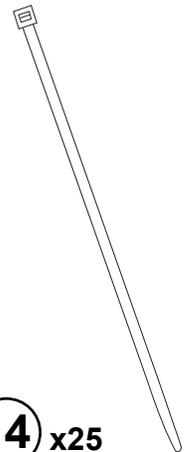
**11** x8  
19-02802-90  
Socket Cap Screw



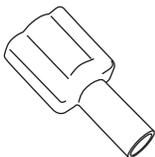
**12** x4  
19-03353-90  
Nylock Nut



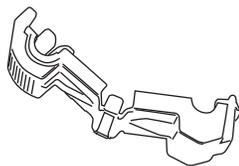
**13** x4  
19-03352-90  
Flat Head Cap Screw



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



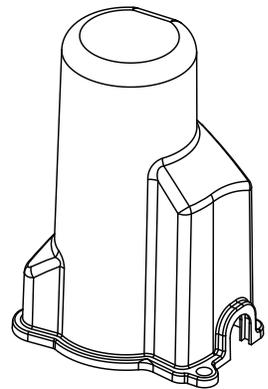
**15** x4  
19-02988-90  
Spade Male



**16** x4  
19-02987-90  
T-Top Terminal



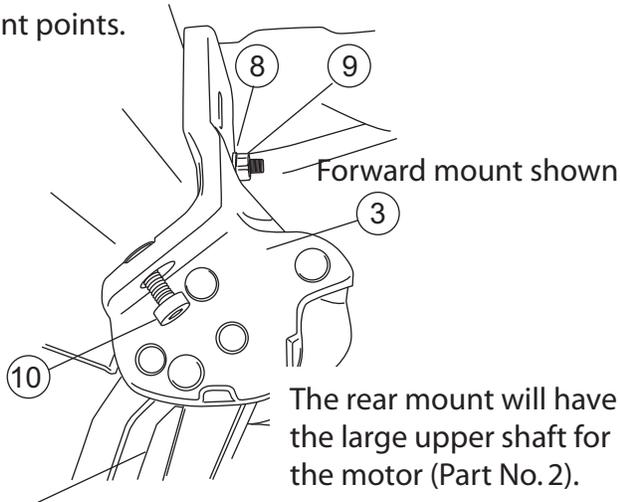
**17** x4  
19-02822-90  
Rivet



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

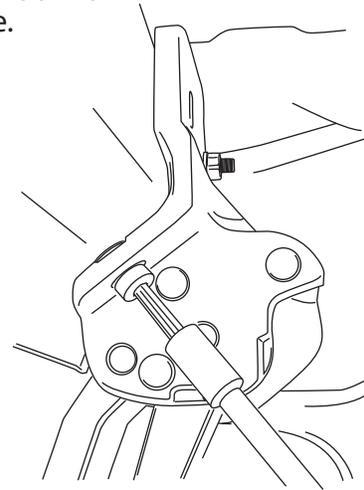
AMP RESEARCH POWER STEP – NISSAN

Attach the linkage assemblies with supplied hardware at the first and third set of attachment points.



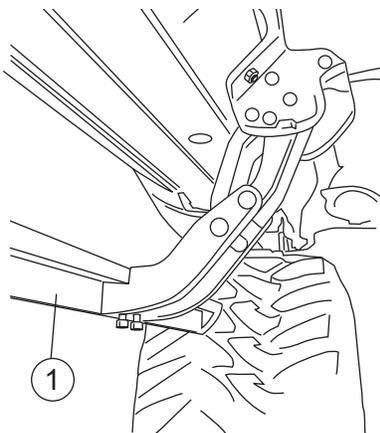
1

Tighten bolts. Attach rear linkage assembly (with large upper pivot shaft) with the same procedure.



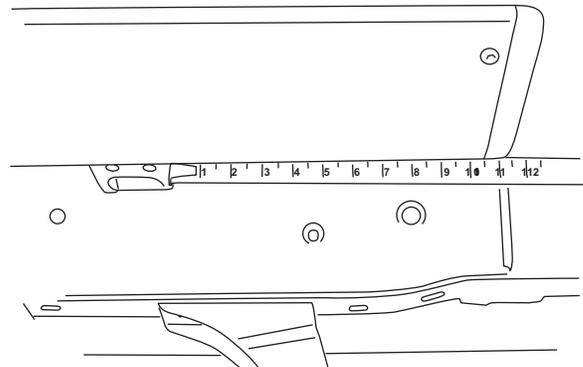
2

After both linkage assemblies are securely mounted, attach step extrusion to lower linkage by aligning t-nuts with slots.



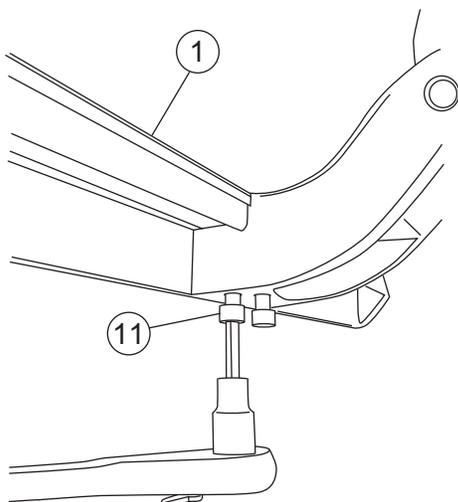
3

Adjust step extrusion so that the overhang off the rear linkage is about 11.5 inches.



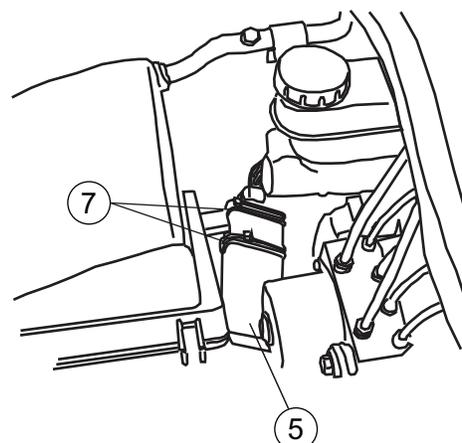
4

Tighten 4 screws with 3/16" allen wrench.



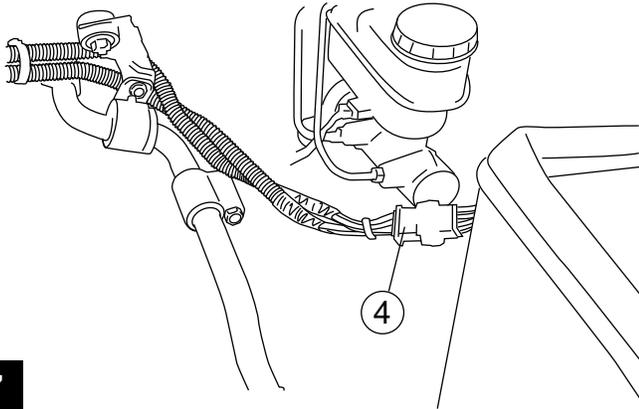
5

Mount controller just rearward of air-intake box using two 11" wire ties. Attach to factory conduit running between airbox and master cylinder.



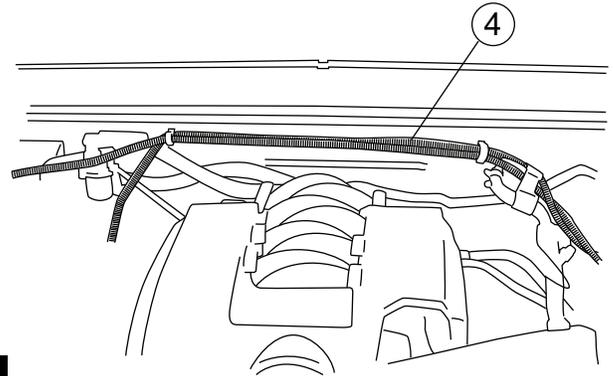
6

Connect Power Step wire harness to the controller. Make sure that the locking tabs engage on the connector.



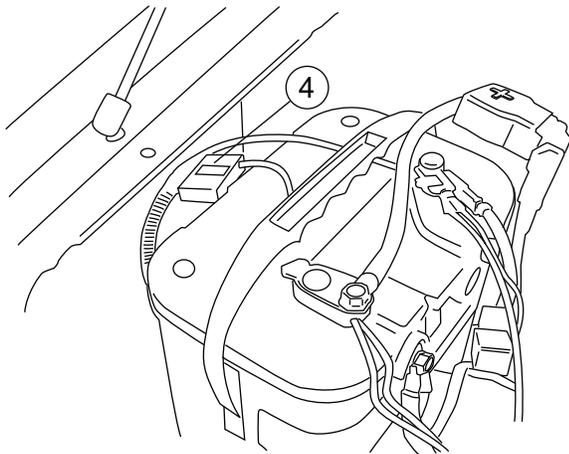
7

Route long end of harness and red and black power lines across to the other side. Secure with wire wraps along the fire wall.



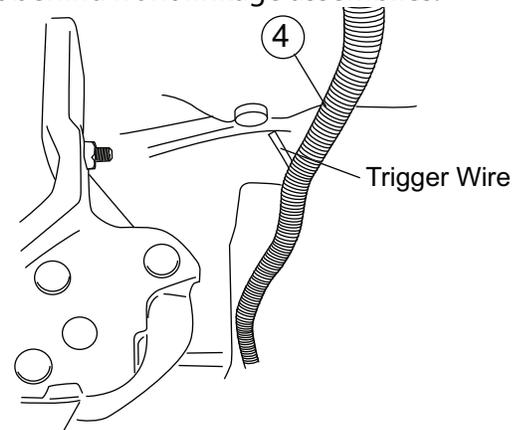
8

Remove fuse. Attach eyelet of red wire to positive terminal. Attach eyelet of black wire to negative terminal of battery.



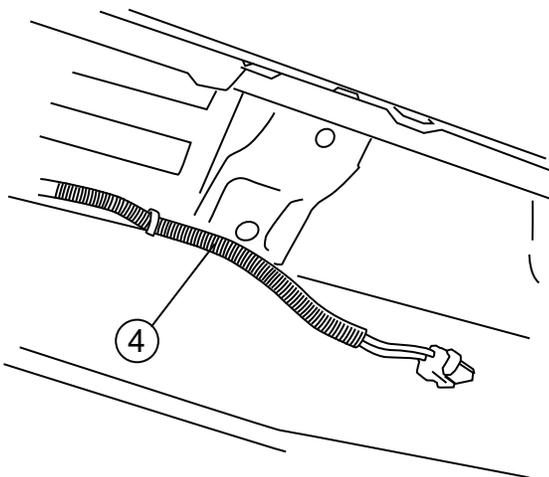
9

Long end to passenger side and short end to driver side, route harness under vehicle toward motors. Run trigger wires through floor board grommet behind front linkage assemblies.



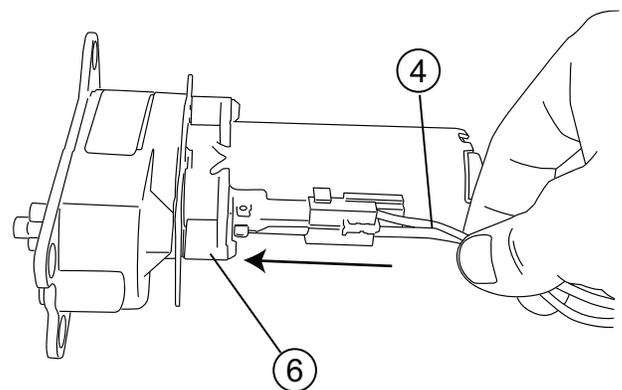
10

Route harness back to rear linkages. Secure with wire wraps.



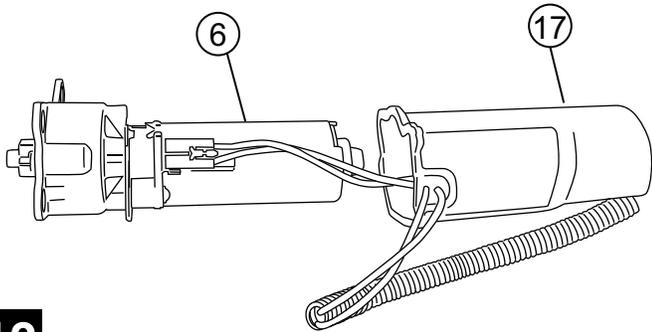
11

Insert plug from wire harness onto motor.



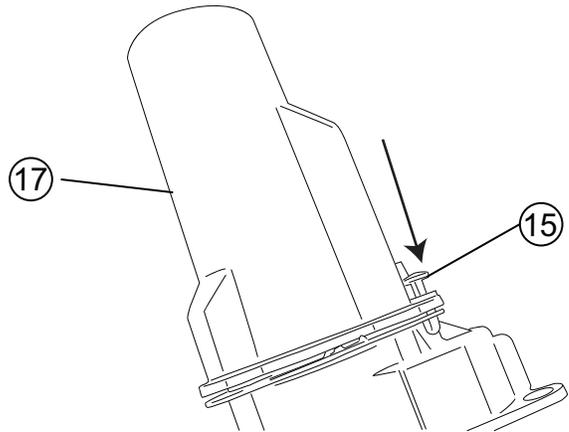
12

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



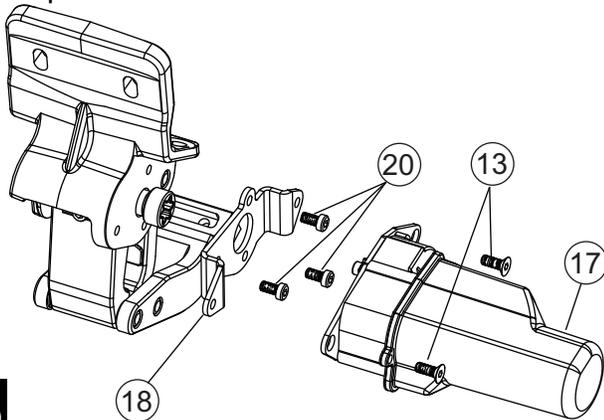
13

Insert plastic push pin rivets in mounting holes of motor cover.



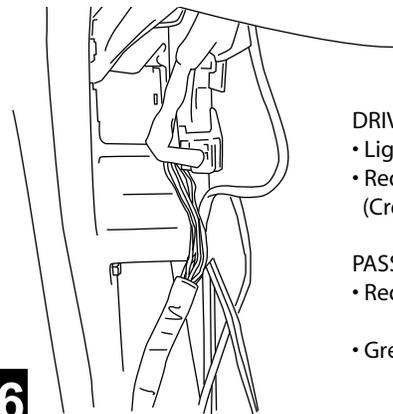
14

Install motor mounting bracket using the three M6x12 bolts. Then mount motor using the two M6x16 countersink bolts. Use thread locking compound.



15

After removing step plate of front door of vehicle cabin, lift carpet and pull trigger wires through grommet. Remove kick panel and locate the appropriate signal wires (will match trigger wires).



DRIVER SIDE:

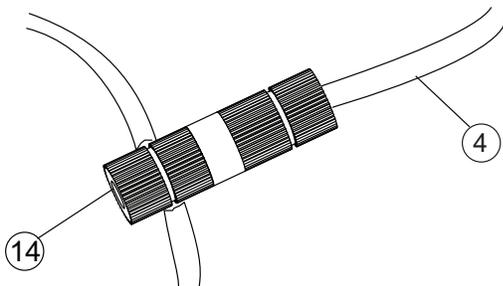
- Light Blue
- Red w/ yellow stripe (Crew Cab and Armada Only)

PASSENGER SIDE:

- Red with Blue Stripe & Silver Dashes
- Grey (Crew Cab and Armada Only)

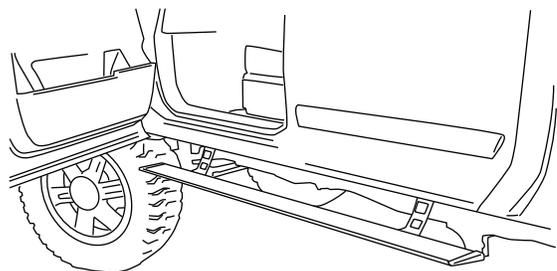
16

Using supplied Posi-Tap™ connector, splice Power Step trigger wires into the corresponding signal wires located in step 16.



17

Replace fuse. Open doors to activate steps. Driver side doors should only activate the drive side step; passenger side doors should only activate the step on the passenger side



18



# 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