

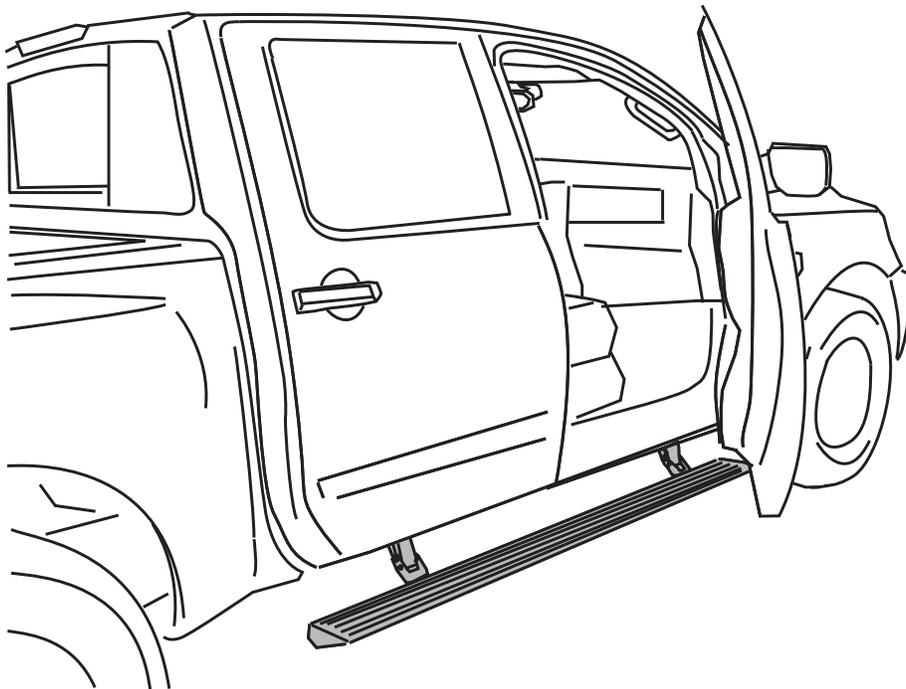
# INSTALLATION GUIDE

# AMP RESEARCH Power Step

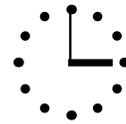
MADE IN USA

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

**\*Modification required to running board assembly. See Item 1 on page 2.**



### INSTALLATION TIME



**3:00 hrs**

### SKILL LEVEL



4= Experienced

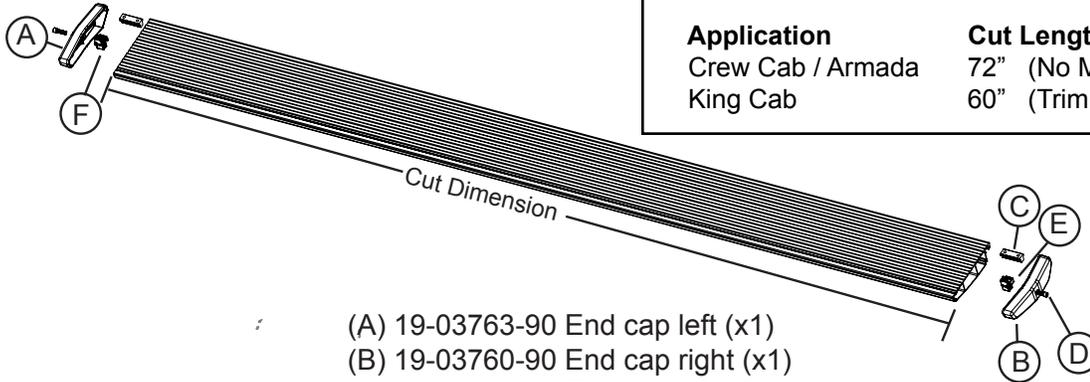
### TOOLS REQUIRED

- 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.

**Note: Some Applications require modification.**

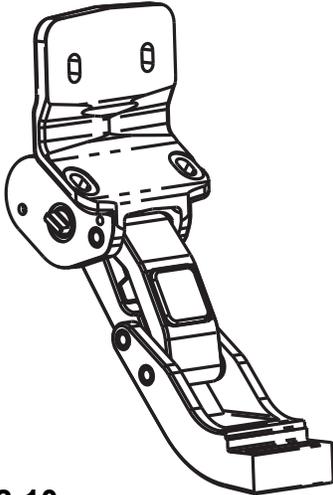


Application	Cut Length
Crew Cab / Armada	72" (No Modification Required)
King Cab	60" (Trim 12")

- (A) 19-03763-90 End cap left (x1)
- (B) 19-03760-90 End cap right (x1)
- (C) 19-02663-90 T-nut insert (x2)
- (D) 19-02802-90 Socket cap screw (x2)
- (E) 19-03761-90 End cap wedge right (x1)
- (F) 19-03764-90 End cap wedge left (x1)

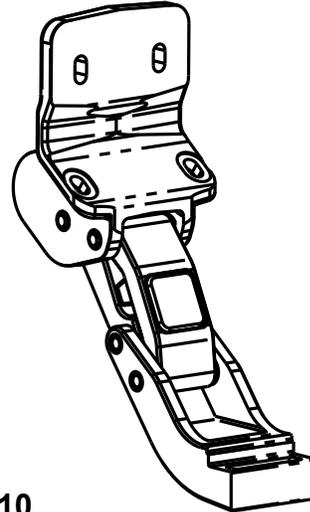
**1** x2

Running board assembly



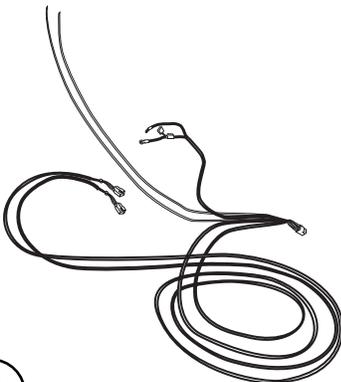
**2** x2

10-03072-10  
Motor Linkage Assembly



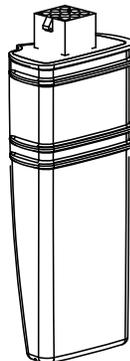
**3** x2

10-03073-10  
Idler Linkage Assembly



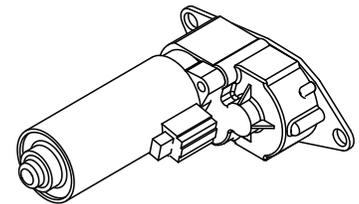
**4**

19-03082-91  
Wire Harness



**5**

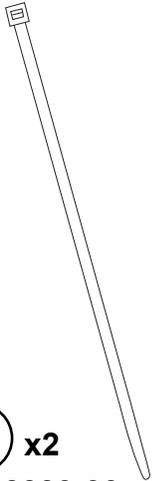
19-03297-93  
Controller



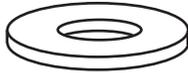
**6** x2

19-03289-90  
Motor

**PARTS LIST AND  
HARDWARE  
IDENTIFICATION**



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



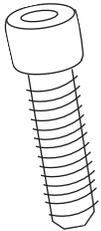
**8** x4  
16-03014-90  
Washer Block



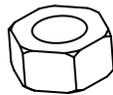
**9** x4  
19-02845-90  
Hex Nut



**10** x6  
19-03076-90  
Socket Cap Screw



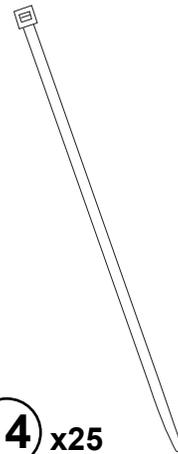
**11** x8  
19-02802-90  
Socket Cap Screw



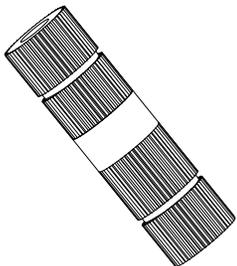
**12** x4  
19-03353-90  
Nylock Nut



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



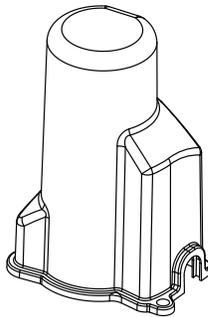
**14** x25  
19-02805-90  
Cable Tie 7"



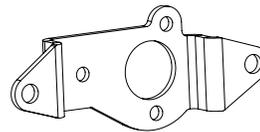
**15** x4  
19-03354-90  
Posi-Tap™



**16** x4  
19-02822-90  
Rivet



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



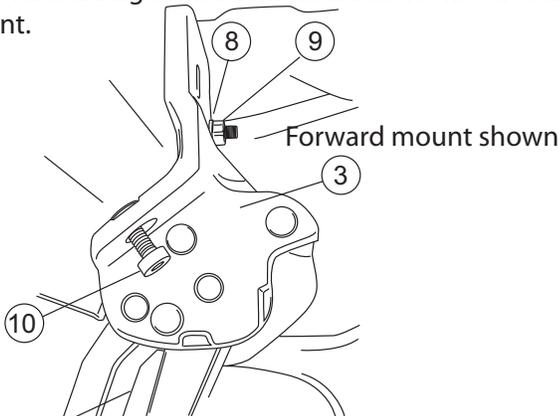
**18** x2  
19-02903-90  
Motor Bracket



**19** x6  
19-02903-90  
Socket Cap Screw

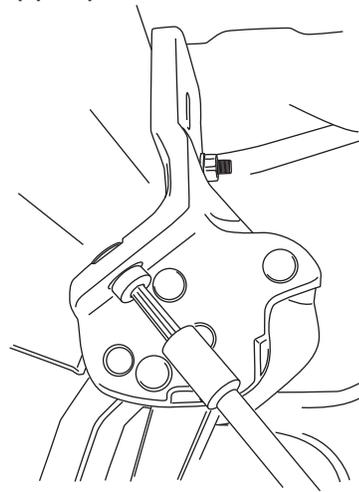
AMP RESEARCH POWER STEP – NISSAN

Attach the linkage assemblies with supplied hardware at the first and third set of attachment points. The Idler linkage will be mounted in the first attachment point.



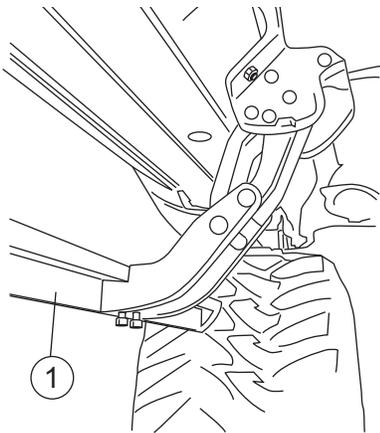
**1** The rear mount will have the large upper shaft for the motor.

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



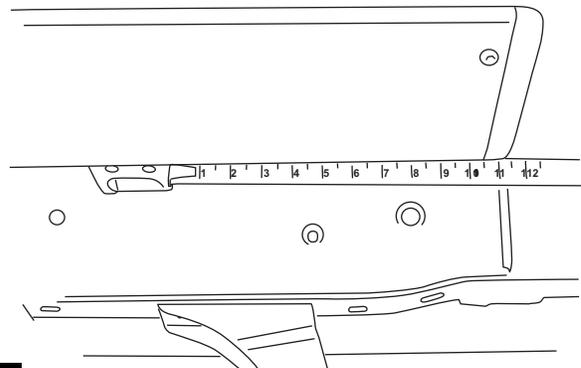
**2**

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



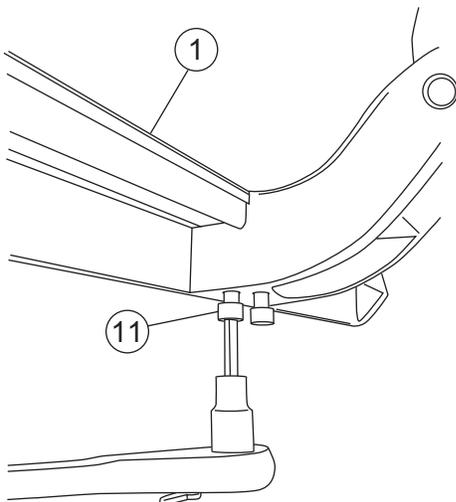
**3**

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



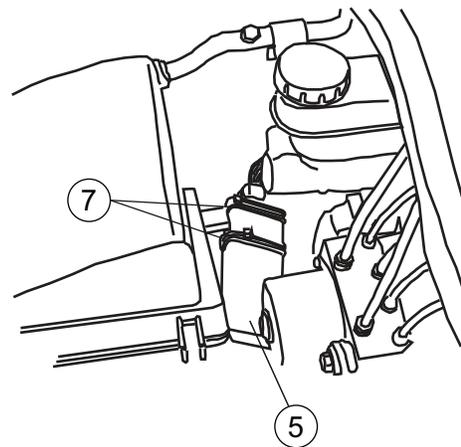
**4**

Tighten 4 screws with 3/16" allen wrench.



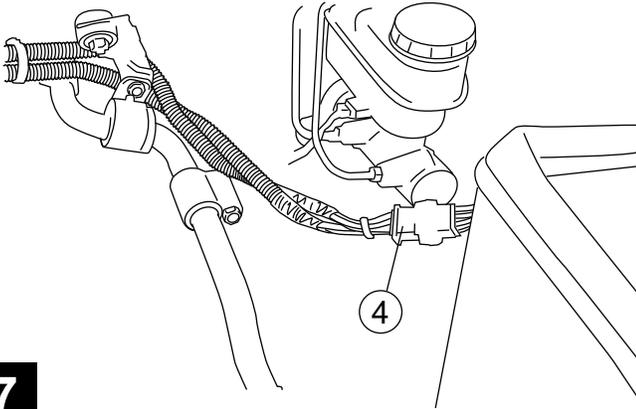
**5**

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



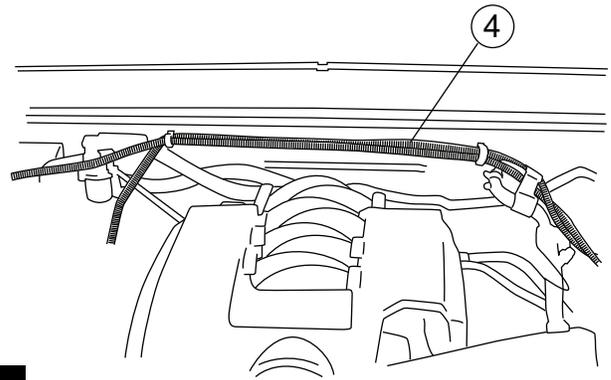
**6**

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



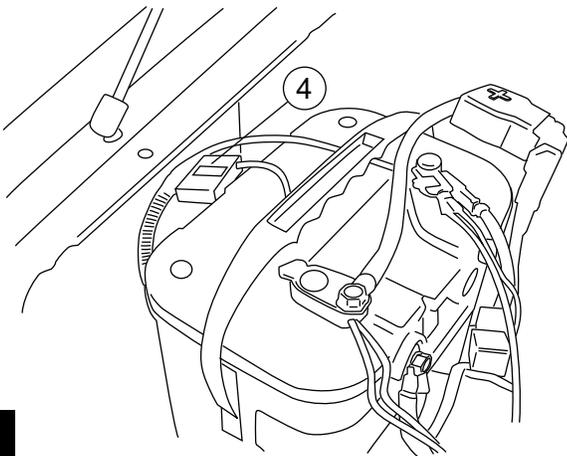
7

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



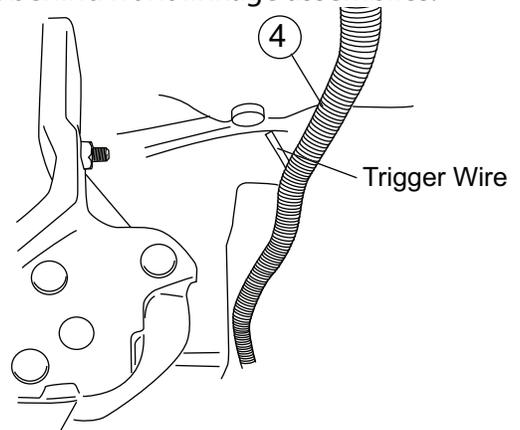
8

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



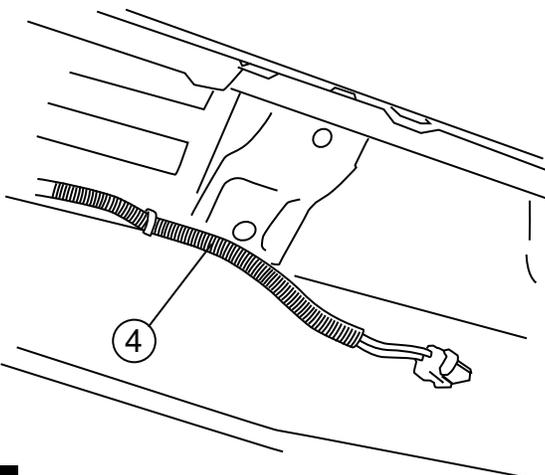
9

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.



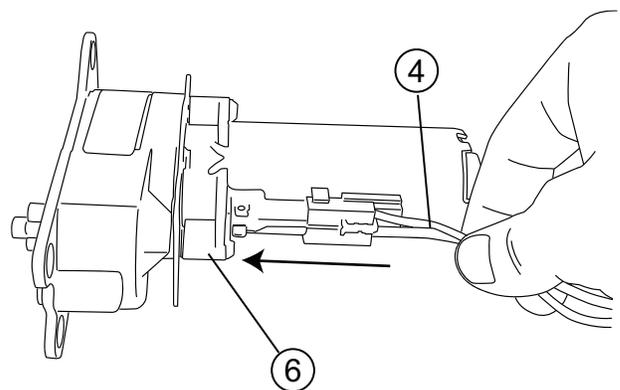
10

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



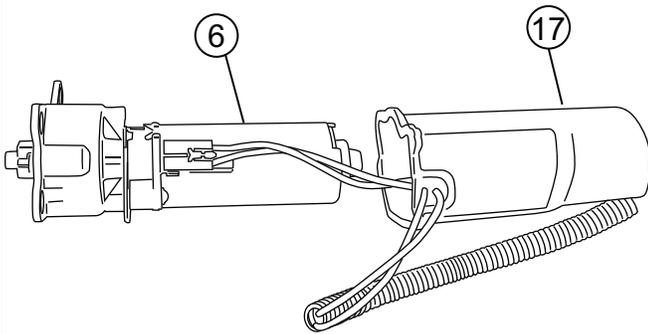
11

Insert plug from wire harness onto motor.



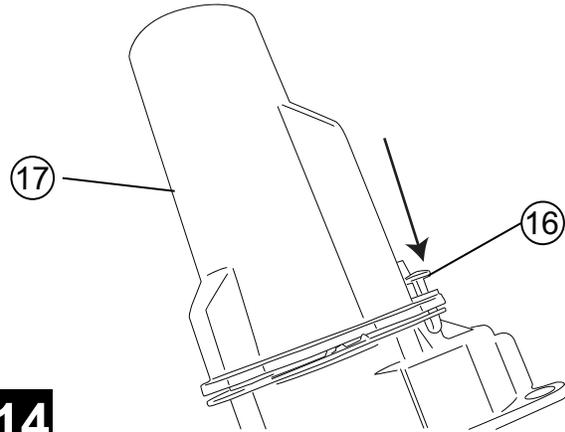
12

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



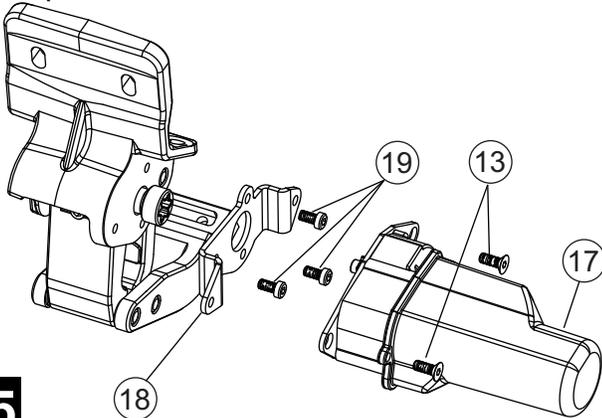
13

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



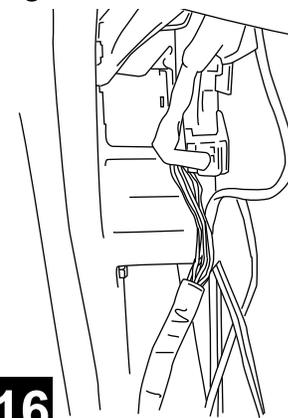
14

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



DRIVER SIDE:

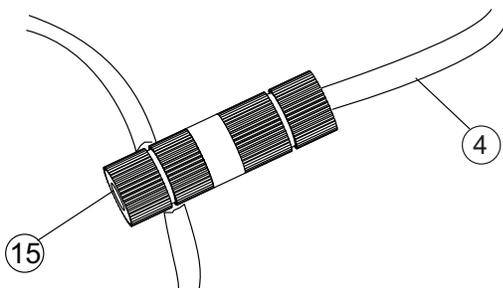
- Light Blue
- Red w/ yellow stripe  
(Crew Cab and Armada Only)

PASSENGER SIDE:

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

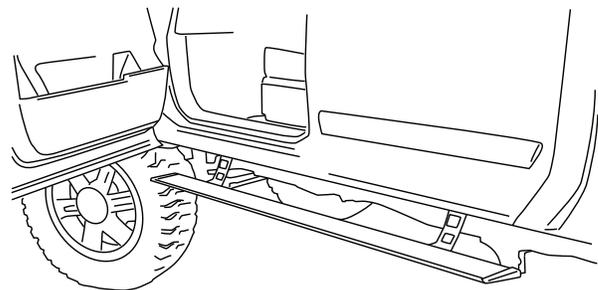
16

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

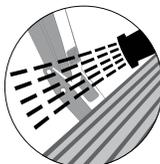
# AMP RESEARCH PowerStep™

Congratulations on your purchase of the genuine AMP Research PowerStep!  
Here's what you should know...



**POWERSTEP™ OPERATION** - The AMP Research PowerStep™ automatically deploys when any door is opened. When both front and rear doors are closed, it retracts automatically under your vehicle.

**The drive system is designed to automatically stop if resistance, blockage or icing occurs.**  
To reset, clear any obstruction, then simply open and close the door and normal operation will resume.



**MAINTENANCE TIPS** - The stepping surface and linkages should be periodically washed with mild soap and water using a soft brush or sponge to dislodge any mud, dirt or accumulated road grime.

**In severe driving conditions, pressure washing the linkages is strongly recommended.**  
Avoid spraying the motors directly with high-pressure water. After washing, apply Silicone spray lubricant to the pivot pins of each linkage assembly. Remove any excess lubricant with a soft clean cloth. Do not apply Silicone spray, waxes or protectants like Armor All® to the stepping surfaces.



**KEEPING POWERSTEP™ DEPLOYED** - When washing your vehicle, the PowerStep can be set to remain in the deployed position with the doors closed. **DO THIS...**

1. With the PowerStep deployed, firmly press and hold the step down with your foot.
2. Close the door while continuing to press down on the step. *(This will not harm the motor.)*
3. To resume normal operation, simply open and close the door. *(Repeat for both sides of the vehicle.)*

**CAUTION! KEEP HANDS AWAY WHEN THE POWERSTEP IS IN MOTION**

## AMP RESEARCH 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 CUSTOMER SERVICE 1-800-315-9697**

## 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.