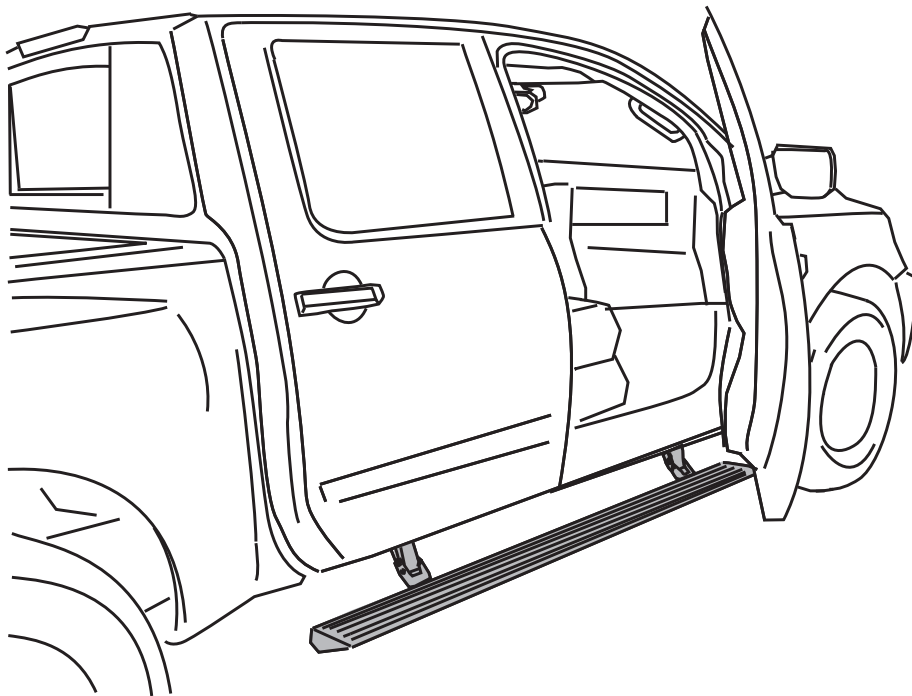


# INSTALLATION GUIDE

# 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

**3-5 Hours**

Professional installation recommended

## SKILL LEVEL



4= Experienced

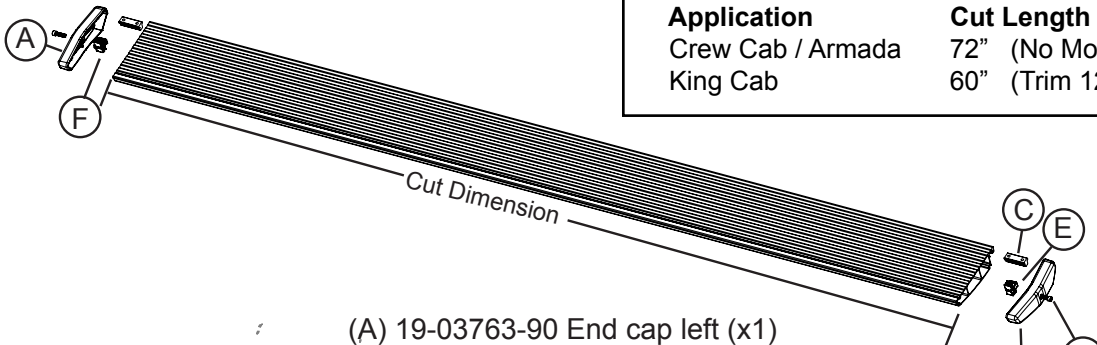
## TOOLS REQUIRED

- 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 POWERSTEP™ – NISSAN

**Note: Some Applications require modification.**

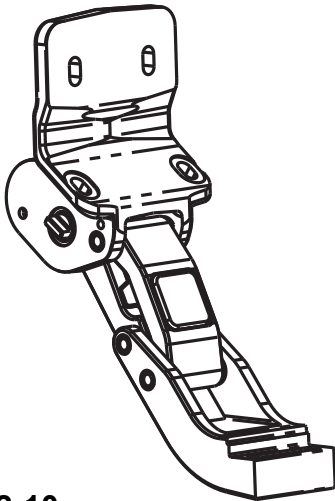
Application	Cut Length
Crew Cab / Armada	72" (No Modification Required)
King Cab	60" (Trim 12")



- (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)

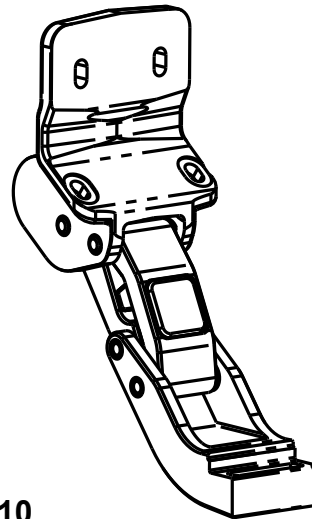
**1** x2

Running board assembly



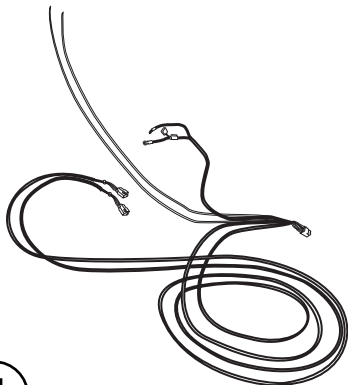
**2** x2

10-03072-10  
Motor Linkage Assembly



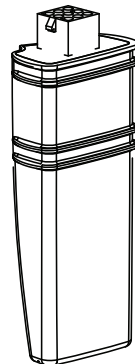
**3** x2

10-03073-10  
Idler Linkage Assembly



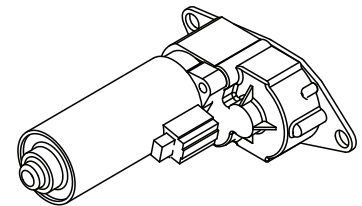
**4**

19-03082-91  
Wire Harness



**5**

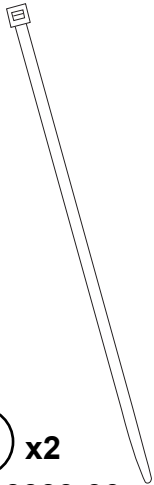
19-03297-A06  
Controller



**6** x2

20-03289-92  
Motor

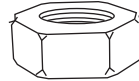
**PARTS LIST AND  
HARDWARE  
IDENTIFICATION**



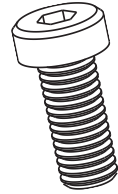
**7** x2  
19-03339-90  
Cable Tie 11"



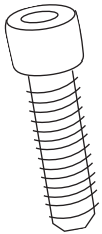
**8** x4  
16-03014-90  
Washer Block



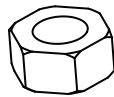
**9** x4  
19-02845-90  
Hex Nut



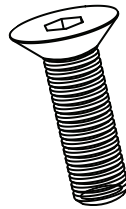
**10** x6  
19-03076-90  
Socket Cap Screw



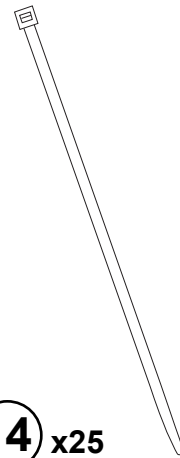
**11** x8  
19-02802-90  
Socket Cap Screw



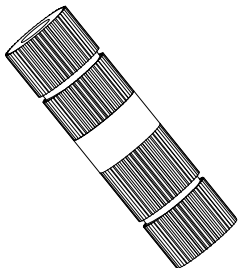
**12** x4  
19-03353-90  
Nylock Nut



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



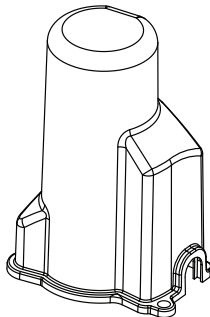
**14** x25  
19-02805-90  
Cable Tie 7"



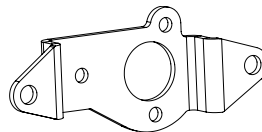
**15** x4  
19-03354-90  
Posi-Tap™



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



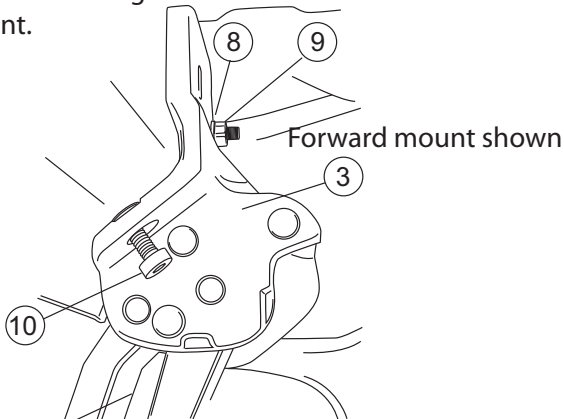
**17** x2  
19-03238-90  
Motor Cover



**18** x2  
19-03349-90  
Motor Bracket

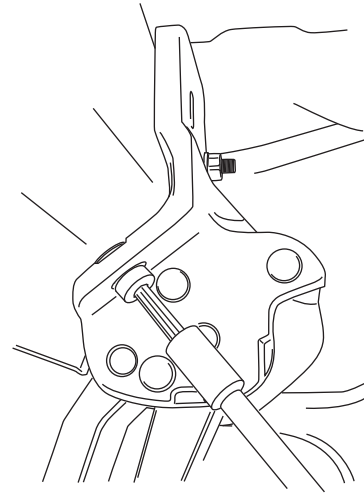
# AMP RESEARCH POWERSTEP™ – NISSAN

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.



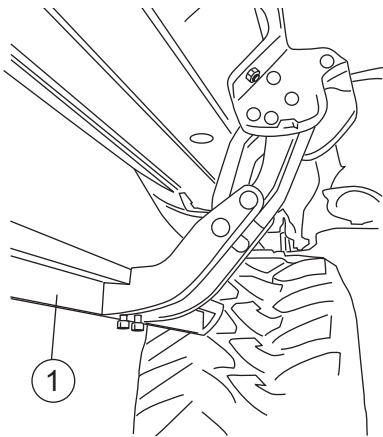
**1** The rear mount will have the large upper shaft for the motor.

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



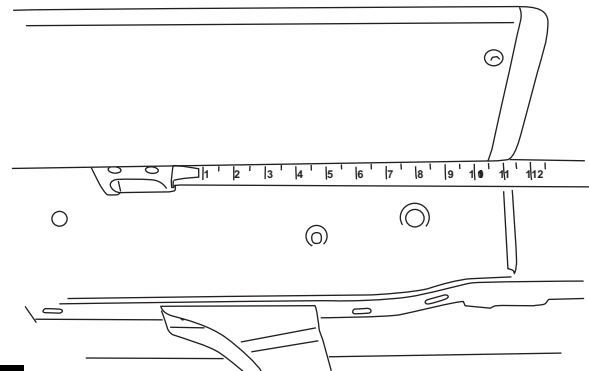
**2**

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



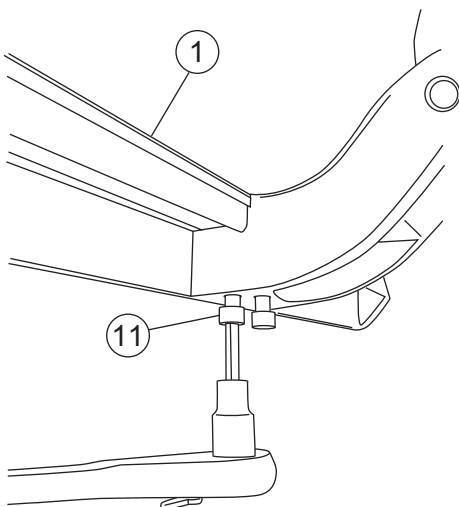
**3**

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



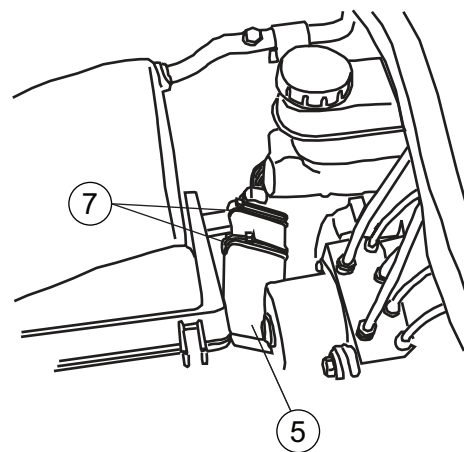
**4**

Tighten 4 screws with 3/16" allen wrench.



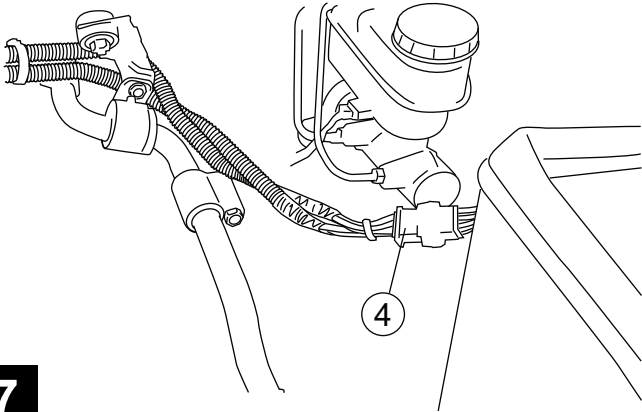
**5**

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



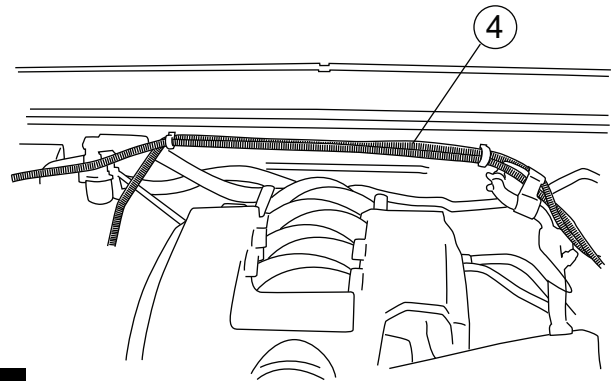
**6**

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



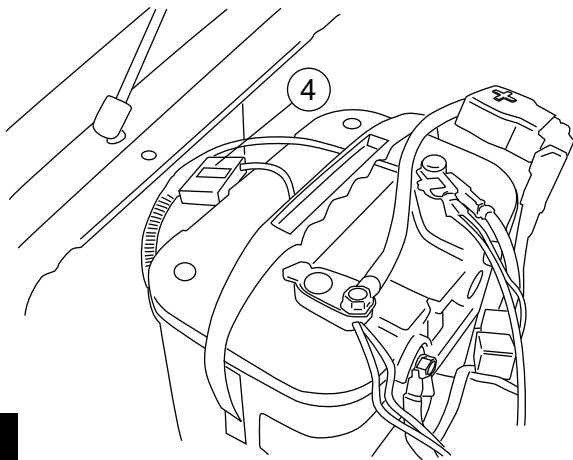
7

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



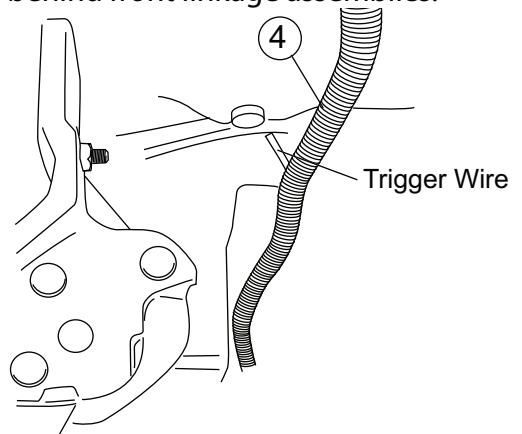
8

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



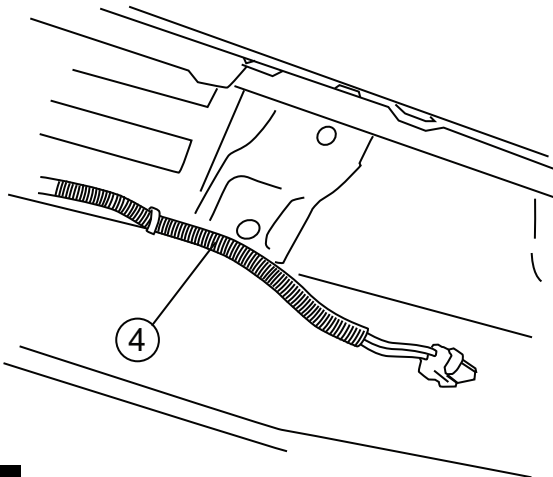
9

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.



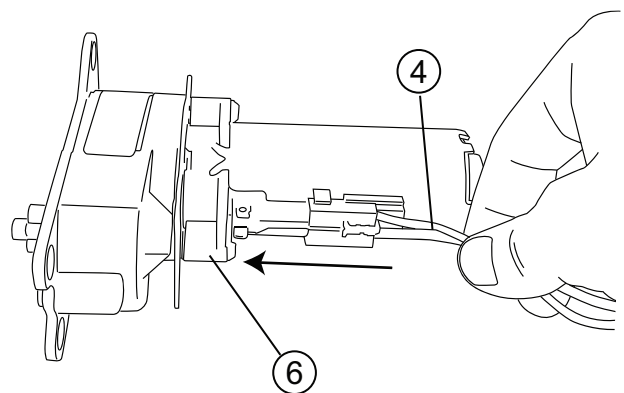
10

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



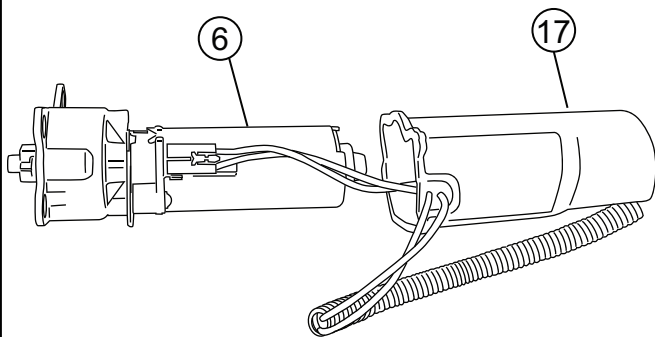
11

Insert plug from wire harness onto motor.

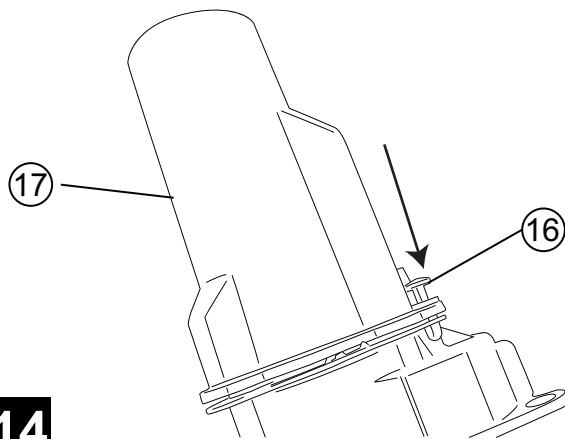


12

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



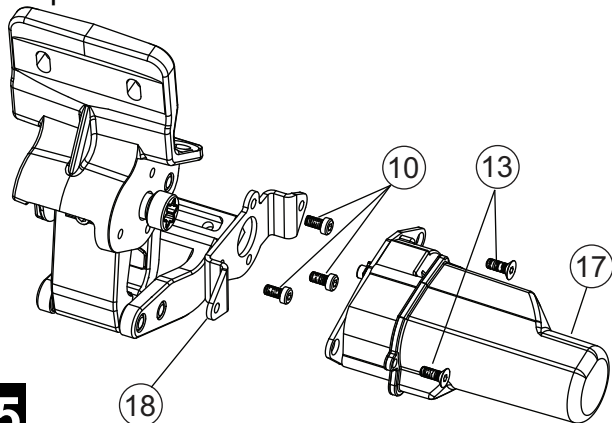
Insert plastic push pin rivets in mounting holes of motor cover.



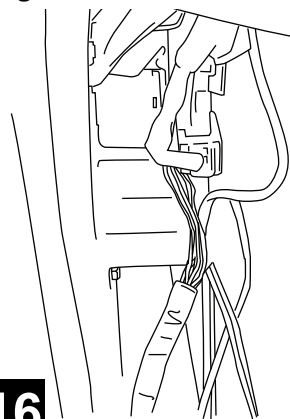
13

14

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



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)

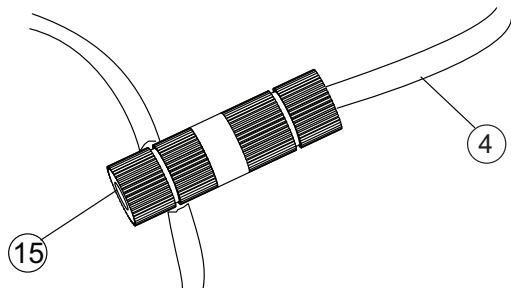
PASSENGER SIDE:

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

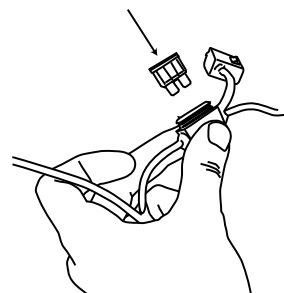
15

16

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

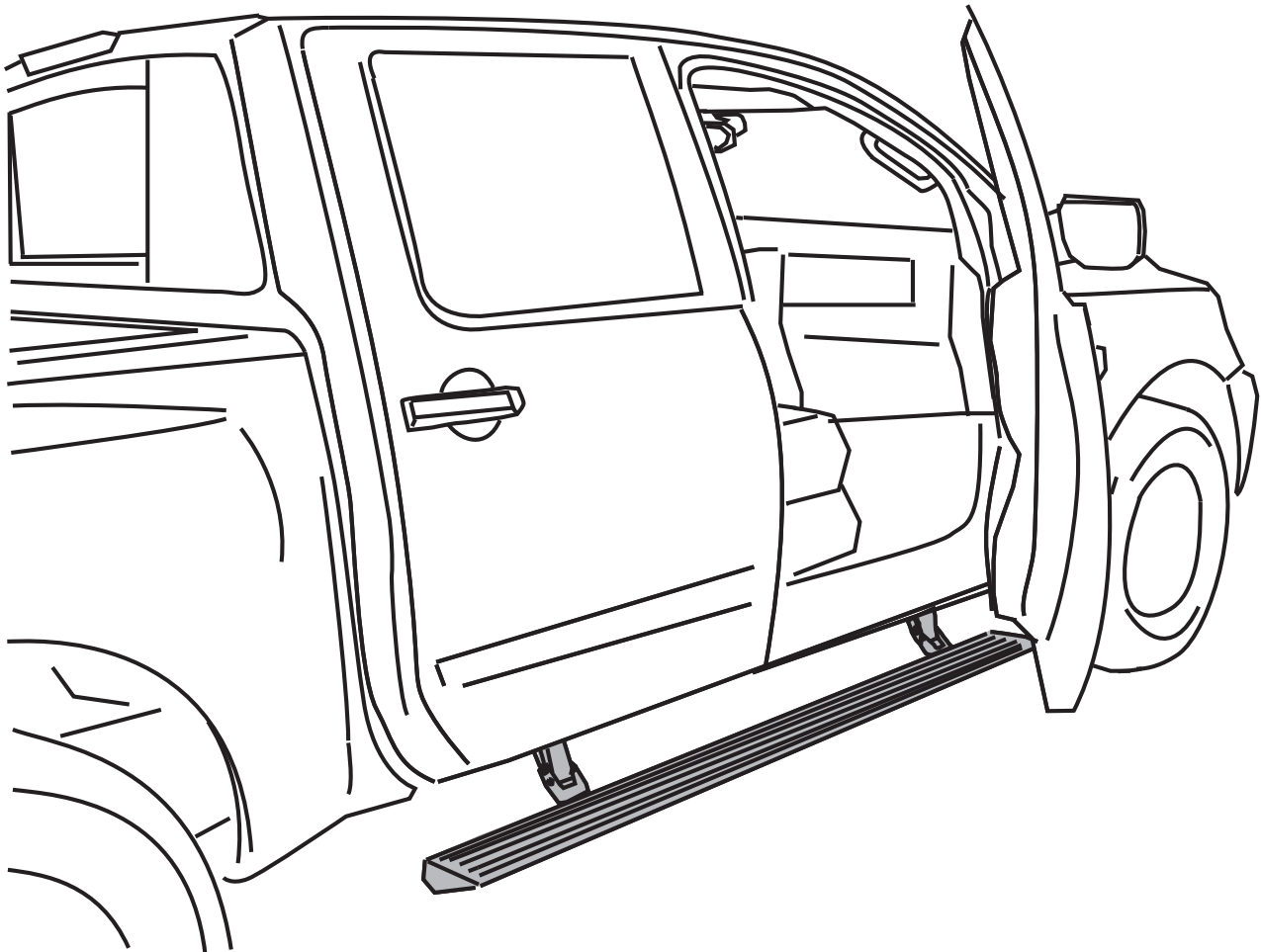


Reinstall fuse. Check that all doors activate the Power Step and the LED Lights work when doors open and close. Reinstall any remaining trim panels.



17

18



### 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.