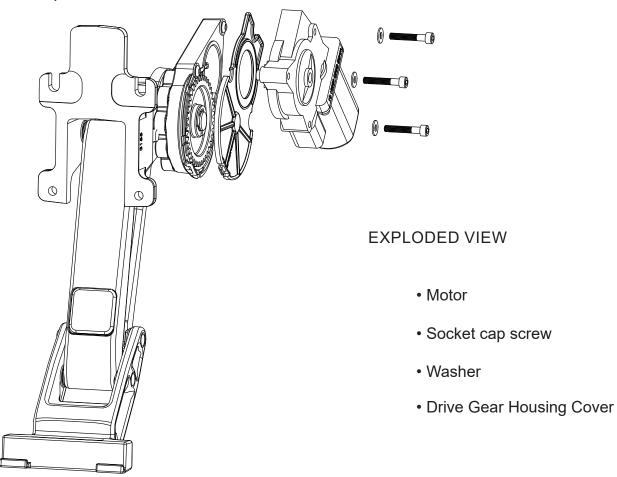


Attaching motor to linkage assembly

The motors must be attached to the linkage assemblies before continuing the installation process.



CAUTION: HANDLE WITH CARE.

To ensure 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.

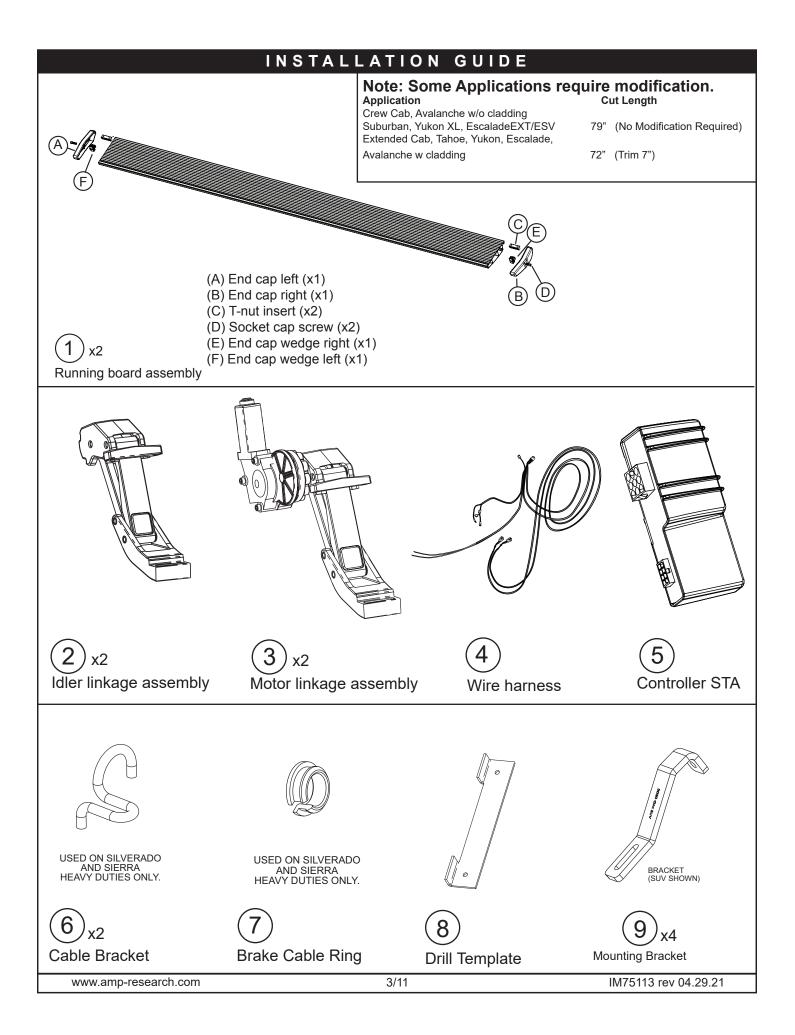
Instructions:

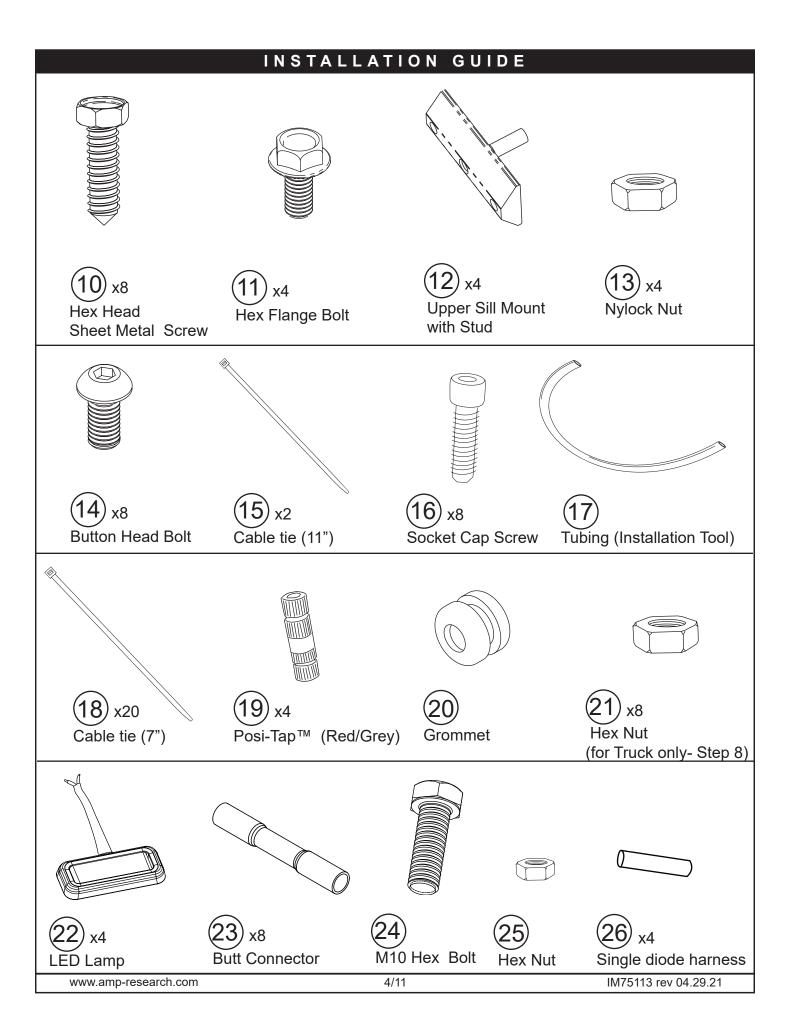
1. Position the gear cover in place as shown if not already in place.

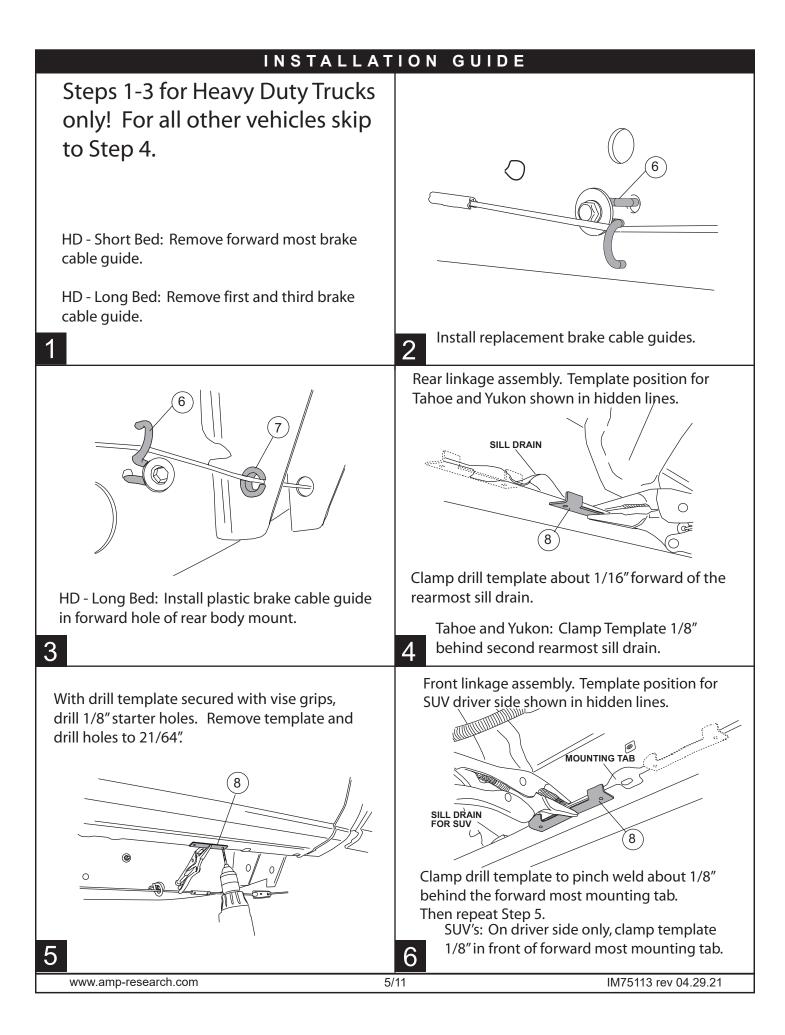
2. Seat motor into position on the three mounting bosses. This may require an adjustment of the gear by moving the swing arms.

3. After seating into place, fasten the motor with the three motor mount screws with 4mm Hex Head. Tighten screws to 36 in-lbs (4N-m). **Do not over torque.**

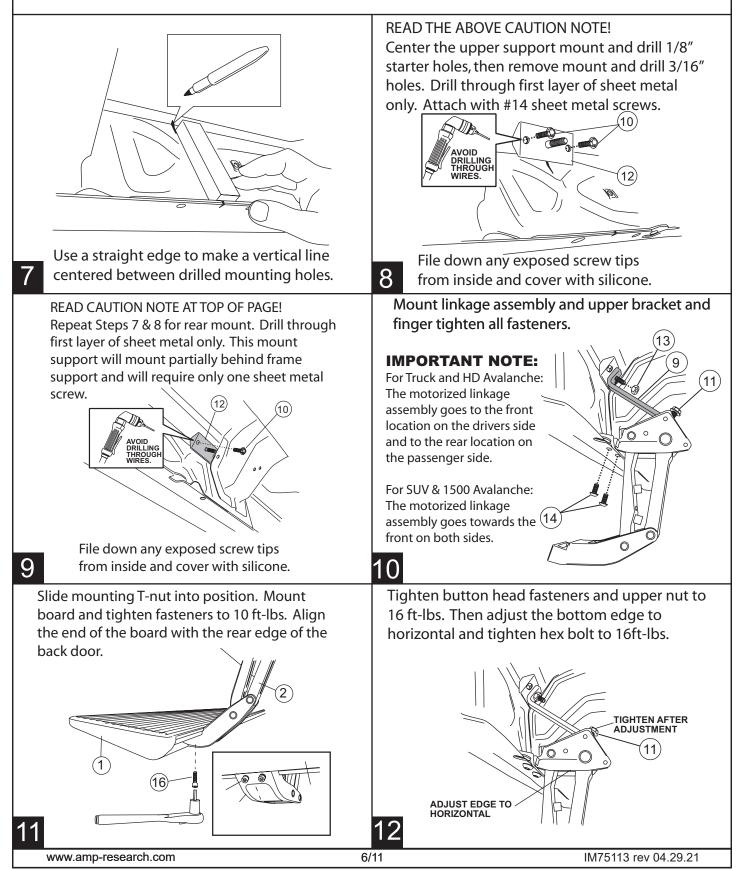
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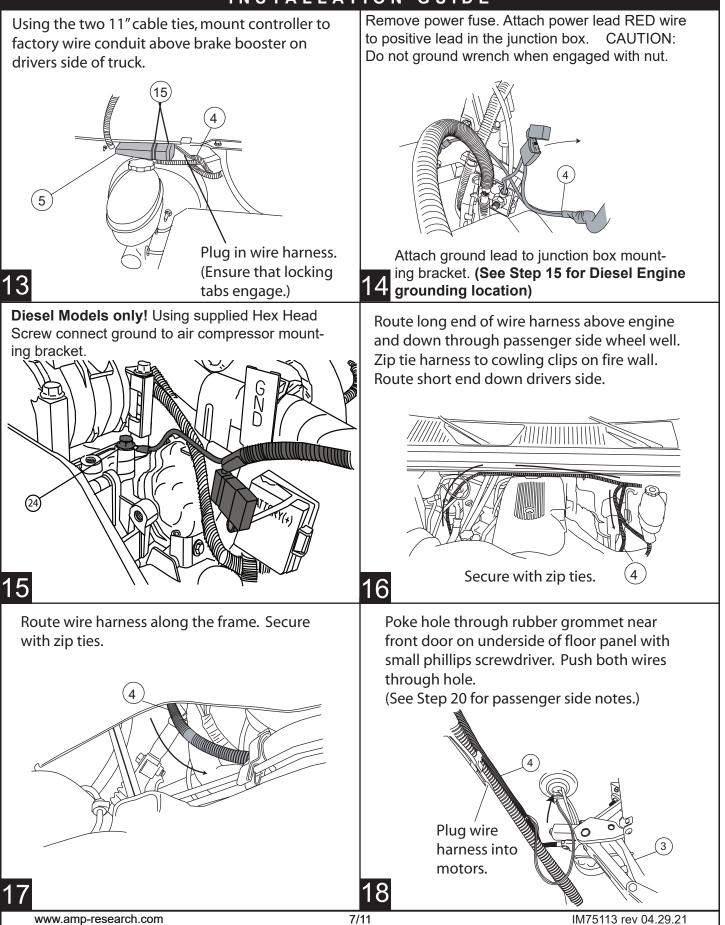




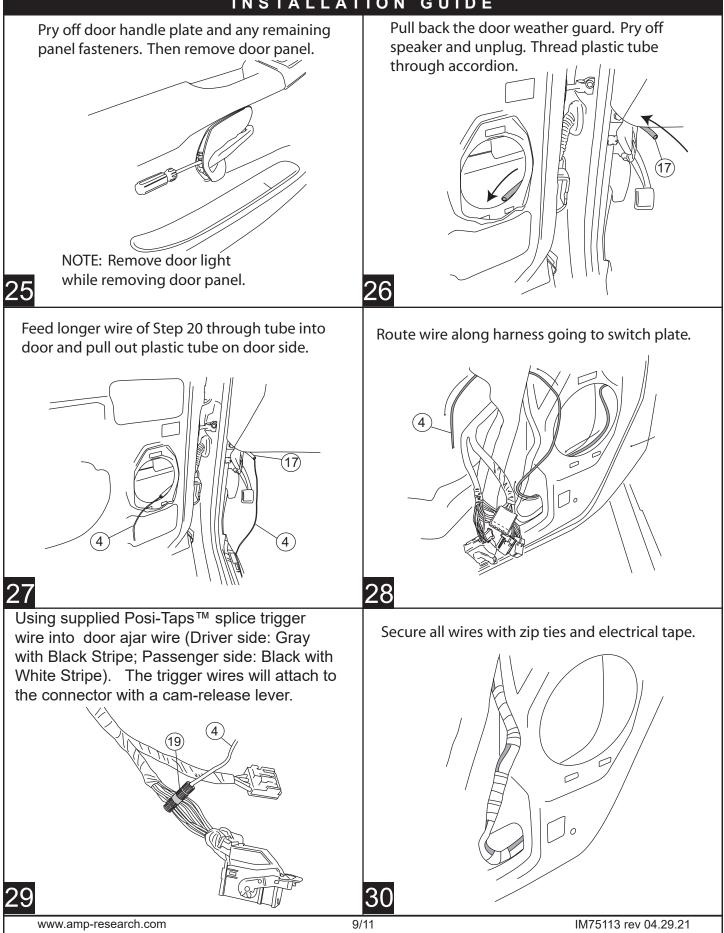


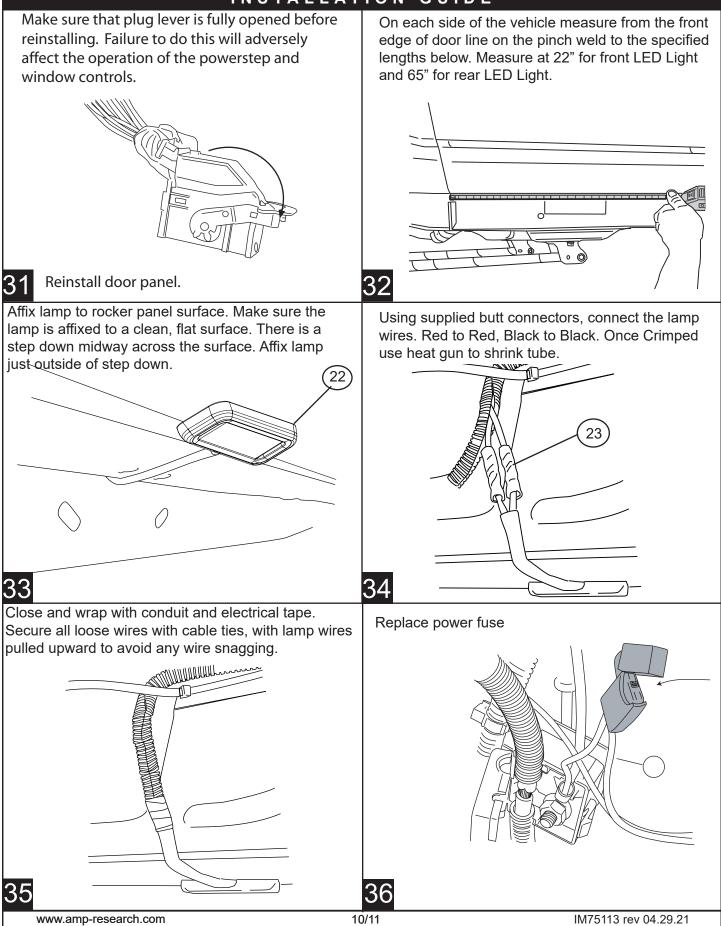
CAUTION: Remove step plates on inside of cab and move vehicle wire harnesses out of the way before drilling in Steps 8 & 9.



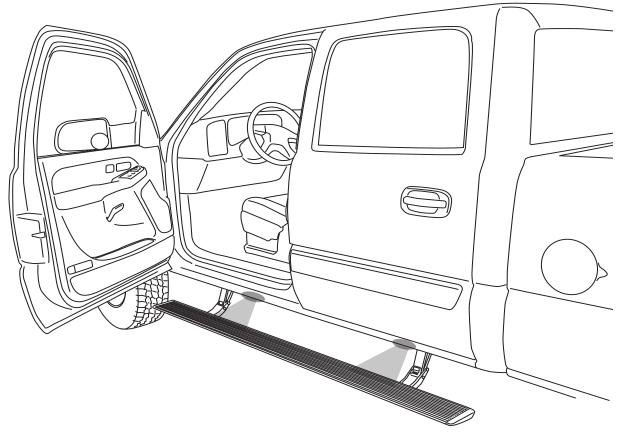


IMPORTANT: Steps 21 and 22 are for Crew Cabs and SUV's only. Light blue and Green wires will not be used otherwise. See end of install sheet for 1999-2002 model year wiring Pop off the threshold cover with screwdriver and Pull up the carpet and thread both wires through the floor panel (same steps on passenremove the kick panel. The panel will slide out ger side EXCEPT drill 9/32" hole in metal and from under the seat after fasteners give way. add rubber grommet). Seal holes with silicone glue. 19 20Using supplied Posi-Taps[™] splice shorter trigger wire into wire found in step 21. On Crew Cab's and SUV's carefully remove wire wrap. On drivers side find the LIGHT BLUE wire with BLACK STRIPE. On the passenger side find GREEN wire with BLACK STRIPE rear of the "T" junction where wires cross under the front seat). (4)19) Note: Crew Cab and SUV's only; these See wire diagrams for model wires not used for Extended Cabs, Cut years previous to 2003. 21 22 and tape off. Remove plastic trim on door To remove door, first pry off door lock near mirror attachment. tab. Remove door bolts. 20 Do 8/11 IM75113 rev 04.29.21 www.amp-research.com





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

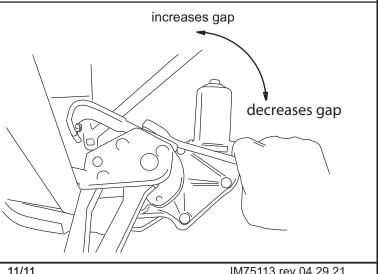


FINAL SYSTEM CHECK

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.

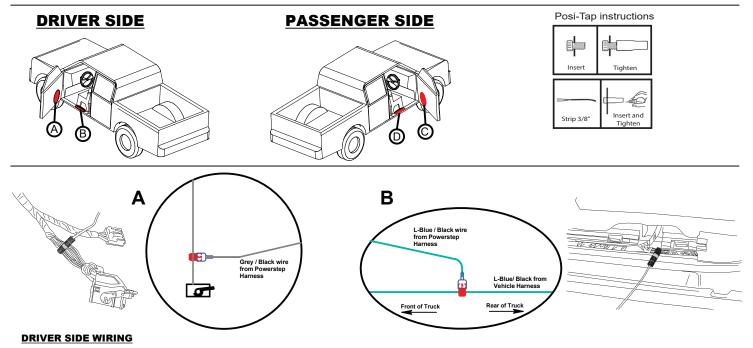
CORRECT OPERATION OF LIGHTS: All four lamps will illuminate upon opening any door of vehicle. Lamps will stay on until restowing of both Power Steps or until 5 minutes has expired with the doors open. When the lights timeout after 5 minutes, they can be reillumintated by closing and opening any door of vehicle.

Slight adjustments to the upper mount can be made to adjust stow positon. With the board extended, loosen hex bolt as shown, adjust as needed, and retighten hex bolt to 16 ft-lbs. The adjustments will be made to either increase or decrease the gap between the board and rocker panel when stowed.





GM POWERSTEP ('03-'06) Truck & SUV, ('07 Classic Truck)



1. After removing the front door step plate, lift carpet and pull Powerstep trigger wires through floor of truck.

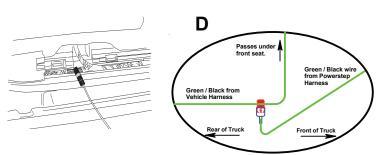
2. Open wire bundle located under front door step plate and locate the 18Ga. rear door-ajar signal wire (light blue with a black stripe). 3. Apply Posi-Tap connector to the above found wire.

4. Strip wire back approx 3/8" and attach to Posi-Tap connector.

5. After removing the door panel, you will access the wire bundle at the black cam-plug from window control panel (Area-A). Undo wire wrap and locate the 18Ga. door-ajar signal wire (grey with a black stripe).

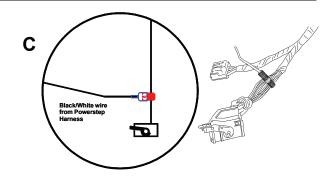
6. Apply Posi-Tap connector to the above found wire.

7. The longer of the two wires from step-1 will be routed to the door panel through front door accordian. Attach routed wire from Powerstep harness to Posi-Tap connector.



PASSENGER SIDE WIRING

- 1. After removing the front door step plate, lift carpet and pull Powerstep trigger wires through floor of truck.
- 2. Open wire bundle located under front door step plate and locate
- the 18Ga. rear door-ajar signal wire (green with a black stripe).
- 3. Apply Posi-Tap connector to the above found wire.
- 4. Strip wire back approx 3/8" and attach to Posi-Tap connector.



5. After removing the door panel, you will access the wire bundle at the black cam-plug from window control panel (Area -C). Undo wire wrap and locate the 18Ga. door-ajar signal wire (black with a white stripe).

6. Apply Posi-Tap connector to the above found wire.

7. The longer of the two wires from step-1 will be routed to the door panel through front door accordian. Attach routed wire from Powerstep harness to Posi-Tap connector.

Notes:

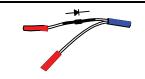
^{1.} All of the signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gage than this.

^{2.} Occassionally the wire colors do not match the wire schematics. Under these circumstances you will need to locate the door-ajar signal wires.

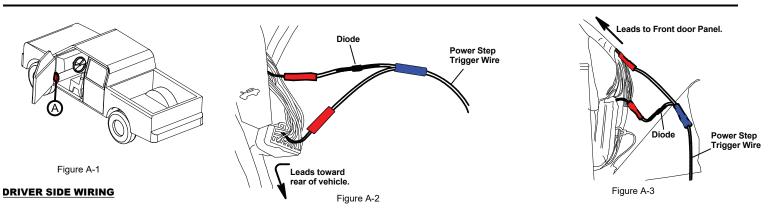


GM POWERSTEP

1999-2002 Truck & SUV - LUXURY & UP LEVEL



ATTENTION: Pay close attention to the orientation of the diode harnesses. The Power-Step will not work with a incorrectly installed diode harness.



1. After removing the front door step plate and kick plate, lift carpet and pull Powerstep trigger wires through floor of truck.

2. Locate the rear door-ajar signal wire (dark blue with white stripe) on black connector below the hood-release lever (Area-A in Figure A -1). There should be two wires of this color; use the wire located on the row closest to the plug release.

3. Cut this wire and install Single Diode Harness as oriented in Figure A-2.

4. After timming to correct length, connect the light blue with black stripe trigger wire from step one to the blue connector of Single Diode Harness installed in previous step.

5. Locate the front door-ajar signal wire **(tan)** on large connector located behind the connector of step 2.

6. Cut this wire and install Single Diode Harness as oriented in Figure A-3.

7. After timming to correct length, connect the grey with black stripe trigger wire from step one to the blue connector of Single Diode Harness installed in previous step.

8. Wrap all connections with electrical tape and secure any loose wires.

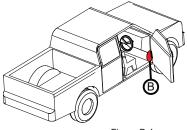


Figure B-1

Diode Diode Figure B-2

PASSENGER SIDE WIRING

1. After removing the front door step plate, lift carpet and pull Powerstep trigger wires through floor of truck.

 Locate the two wire bundles running up along kick panel area underneith glove compartment as shown in the above figures.
 Open wire wrap of the bundles and locate the front and rear doorajar signal wires (dark blue with white stripe), one found in each bundle. **4.** Cut each wire and install the Single Diode Harnesses as oriented in Figure B-2. Make certain that the leg with the diode is towards the top.

5. Wrap all connections with electrical tape and secure any loose wires.

Notes:

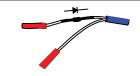
2. Occassionally the wire colors do not match the wire schematics. Under these circumstances you will need to locate the door-ajar signal wires.

3. Make sure to secure all wires after install. Loose wires can be damaged and may cause a failure in the Powerstep's function.

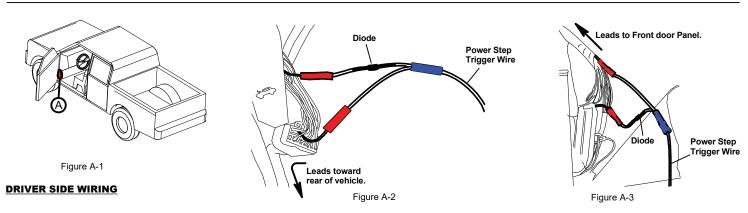
^{1.} All of the signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gage than this.



GM POWERSTEP 1999-2002 Truck & SUV - BASE LEVEL



ATTENTION: Pay close attention to the orientation of the diode harnesses. The Power-Step will not work with a incorrectly installed diode harness.



1. After removing the front door step plate and kick plate, lift carpet and pull Powerstep trigger wires through floor of truck.

2. Locate the rear door-ajar signal wire **(orange)** on black connector below the hood-release lever (Area-A in Figure A-1). There should be two wires of this color; use the wire located on the row closest to the plug release.

3. Cut this wire and install Single Diode Harness as oriented in Figure A-2.

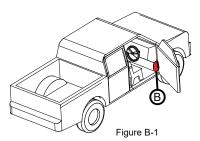
4. After timming to correct length, connect the light blue with black stripe trigger wire from step one to the blue connector of Single Diode Harness installed in previous step.

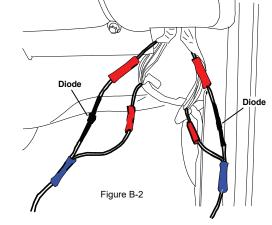
5. Locate the front door-ajar signal wire **(tan)** on large connector located behind the connector of step 2.

6. Cut this wire and install Single Diode Harness as oriented in Figure A-3.

7. After timming to correct length, connect the grey with black stripe trigger wire from step one to the blue connector of Single Diode Harness installed in previous step.

8. Wrap all connections with electrical tape and secure any loose wires.





4. Cut each wire and install the Single Diode Harnesses as oriented in Figure B-2. Make certain that the leg with the diode is towards the top.

5. Wrap all connections with electrical tape and secure any loose wires.

PASSENGER SIDE WIRING

- 1. After removing the front door step plate, lift carpet and pull
- Powerstep trigger wires through floor of truck.

2. Locate the two wire bundles running up along kick panel area underneith glove compartment as shown in the above figures.

 Open wire wrap of the bundles and locate the front and rear doorajar signal wires (dark blue with white stripe), one found in each bundle.

Notes:

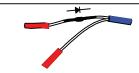
3. Make sure to secure all wires after install. Loose wires can be damaged and may cause a failure in the Powerstep's function.

^{1.} All of the signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gage than this.

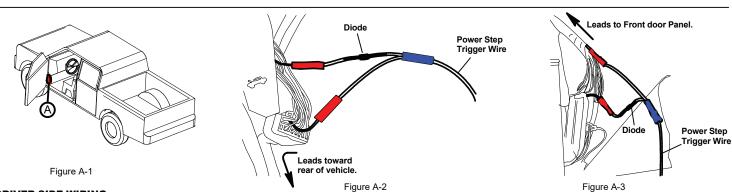
^{2.} Occassionally the wire colors do not match the wire schematics. Under these circumstances you will need to locate the door-ajar signal wires.



GM POWERSTEP 1999-2002 Sierra Denali Only



ATTENTION: Pay close attention to the orientation of the diode harnesses. The Power-Step will not work with a incorrectly installed diode harness.



DRIVER SIDE WIRING

1. After removing the front door step plate and kick plate, lift carpet and pull Powerstep trigger wires through floor of truck.

2. Locate the rear door-ajar signal wire (dark blue with white stripe) wire on black connector below the hood-release lever (Area-A in Figure A-1). There should be two wires of this color; use the wire located on the row closest to the plug release.

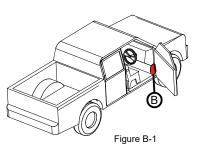
3. Cut this wire and install Single Diode Harness as oriented in Figure A-2.

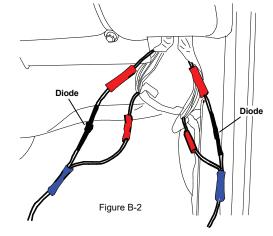
4. After timming to correct length, connect the light blue with black stripe trigger wire from step one to the blue connector of Single Diode Harness installed in previous step.

5. Locate the front door-ajar signal wire (light green with black stripe) on large connector located behind the connector of step 2.
6. Cut this wire and install Single Diode Harness as oriented in Figure A-3.

7. After timming to correct length, connect the grey with black stripe trigger wire from step one to the blue connector of Single Diode Harness installed in previous step.

8. Wrap all connections with electrical tape and secure any loose wires.





4. Cut each wire and install the Single Diode Harnesses as oriented in Figure B-2. Make certain that the leg with the diode is towards the top.

5. Wrap all connections with electrical tape and secure any loose wires.

PASSENGER SIDE WIRING

- 1. After removing the front door step plate, lift carpet and pull
- Powerstep trigger wires through floor of truck.

2. Locate the two wire bundles running up along kick panel area

underneith glove compartment as shown in the above figures.

3. Open wire wrap of the bundles and locate the rear door-ajar signal wire (dark blue with white stripe) in one bundle and the front door-ajar signal wire (light green with black stripe) in the other bundle.

Notes:

2. Occassionally the wire colors do not match the wire schematics. Under these circumstances you will need to locate the door-ajar signal wires.

3. Make sure to secure all wires after install. Loose wires can be damaged and may cause a failure in the Powerstep's function.

^{1.} All of the signal wires tapped into will be 18Ga. Do not tap into anything with a thicker gage than this.



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Rev 01.05.21

атр Reserrer Power Step

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

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. <u>Avoid spraying the motors directly.</u> 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.

5-YEAR 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 1-888-983-2204

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.