# INSTALLATION GUIDE

# PowerStep XIreme

**APPLICATION** MODEL YR PART#

Chevrolet Silverado/ GMC Sierra - Crew Cab (1500 Only) 2019 78254-01A

Chevrolet Silverado/ GMC Sierra - Double Cab (1500 Only) 2019 78254-01A

\* Modification required to running board assembly. See Item 1 on page 3.

# **INSTALLATION TIME** 3-5 Hours

# SKILL LEVEL





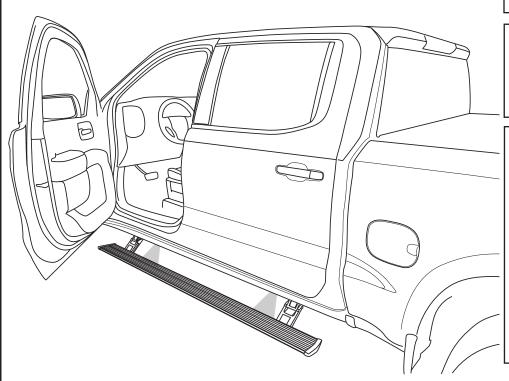




4= Experienced

#### **TOOLS REQUIRED**

- Safety goggles
- Measuring tape
- □ 1/8", 19/64" Drill bits
- ☐ 10 mm socket
- □ 13 mm socket
- ☐ 13 mm ratchet wrench
- ☐ Ratchet wrench and extension
- Wire crimpers
- ☐ Wire stripper / cutter
- □ 3/16" hex key wrench (allen wrench)
- □ 4mm allen wrench
- □ Electrical tape
- ☐ Weather proof caulking (silicone sealer)
- □ Drillheat
- ☐ Heat Gun

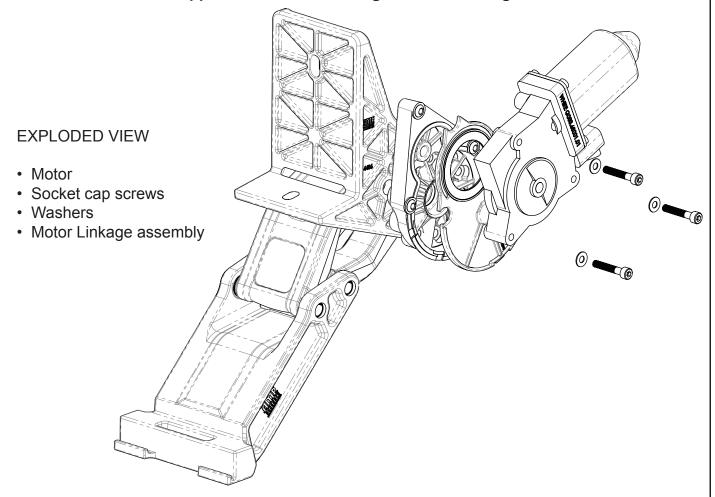


Invented, engineered and manufactured exclusively by AMP Research in the USA. May be covered by one of the following patents: 6,641,158; 6,830,257; 6,834,875; 6,938,909; 7,055,839; 7,380,807; 7,398,985; 7,584,975 ©2012 AMP Research. All rights reserved. Printed in USA.

#### **INSTALLATION GUIDE**

Attaching motor to Linkage assembly

The motors must be attached to the front Linkages before installation. The Drivers side motor mounts on the opposite side of the linkage as the Passenger side motor does.



#### **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.**

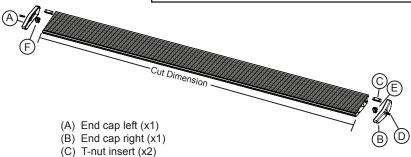
# PARTS LIST AND HARDWARE IDENTIFICATION

Note: Some Applications require modification.

**Cut Length** Application

Crew Cab 79" (No Modification Required)

Double Cab (Trim 10")

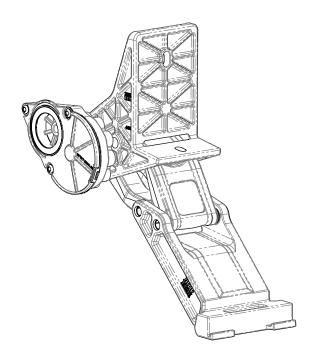


(D) Socket cap screw (x2)

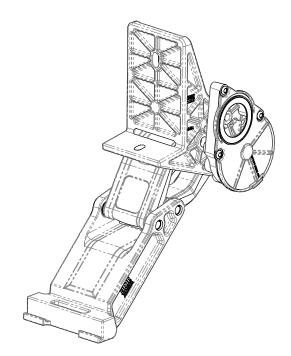
(E) End cap wedge right (x1)

(F) End cap wedge left (x1)

Running board assembly

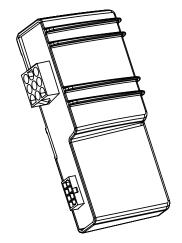


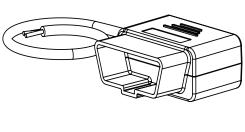
Driver linkage (Motor on left side)



Driver linkage (Motor on right side)



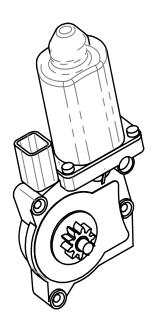




Wire Harness

Controller XTA

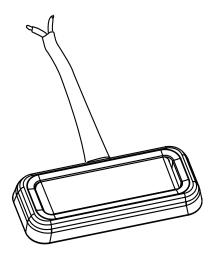
6 OBD II Plug



7 x4 Motor



8 x4 Motor Cover

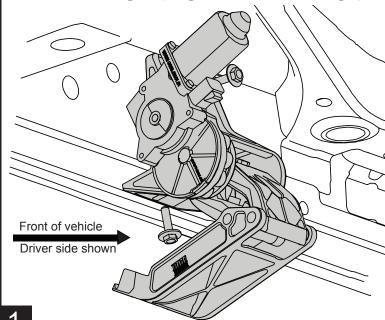


9 x4 LED Lamp

# AMP RESEARCH POWERSTEPTM - CHEVROLET / GMC Socket Cap Screw Posi-Lock Connector Conical Washer Bolt Cable Tie 7" **Butt Connector** Cable Tie 11" Grommet 5/14

# **Installing Linkages (Driver Side)**

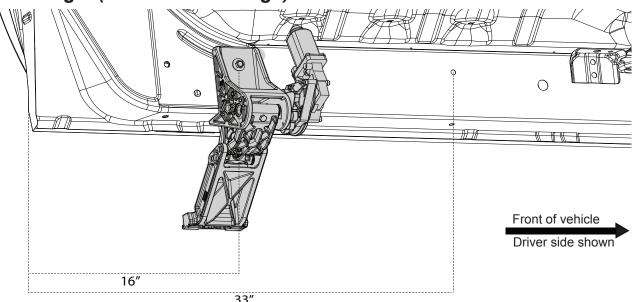
# Front Linkage (Right Motor Linkage)



Install the Right Motor linkage in the the First mount position at the front of the truck on the Driver side, using the bolts supplied (12). All plastic or rubber hole plugs need to be removed that are next to the linkage mounts. Torque fasteners to 16 ft-lbs. (22 N m).

Assemble the motor to the linkage like the picture before installation shown on page 2. **Position the motor so the linkage is in the mid extension position.** This way the lower bolt can still be installed.

# Rear Linkage (Left Motor Linkage)

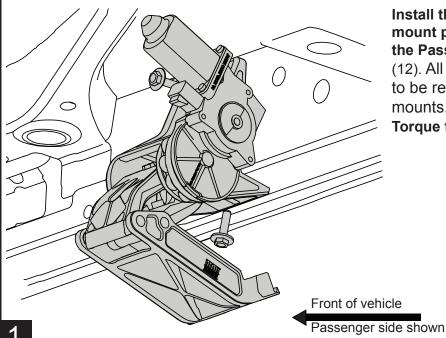


Assemble the motor to the linkage like the picture before installation shown on page 2. **Position the motor so the linkage is in the mid extension position.** This way the lower bolt can still be installed.

Install the motor linkage with provided Conical washer bolts (12) in the second to last set of holes. Approx 16" from rear of cab. Note: On some models these holes are not present. If so use next set of holes forward. Approx 33" from rear or cab. Keep the linkage held up to the angled surface and the vertical surface. Some structural adhesive remnants may need to be chipped off at the rocker seam. **Torque fasteners to 16 ft-lbs. (22 N m).** 

# **Installing Linkages (Passenger Side)**

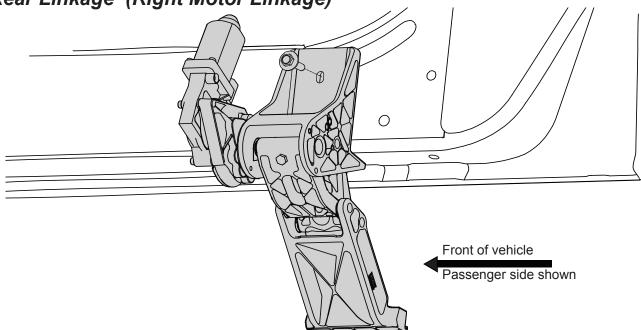
# Front Linkage (Left Motor Linkage)



Install the Left Motor linkage in the the First mount position at the front of the truck on the Passenger side, using the bolts supplied (12). All plastic or rubber hole plugs need to be removed that are next to the linkage mounts.

Torque fasteners to 16 ft-lbs. (22 N m).

Rear Linkage (Right Motor Linkage)



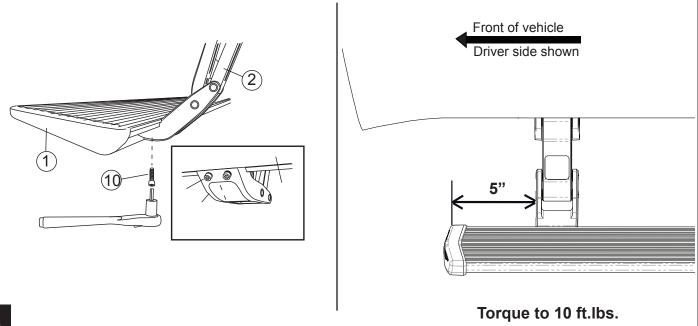
Assemble the motor to the linkage like the picture before installation. **Position the motor so the linkage is in the mid extension position.** This way the lower bolt can still be installed.

Install the motor linkage with the Conical Washer Bolts(12) in the second to last set of holes on the Crew Cab. Keep the linkage held up to the angled surface and the vertical surface. If any seam sealer is present clean surface so any proud edges are knocked off and mounting surface is flat.

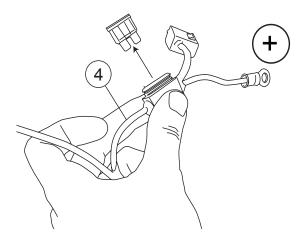
Torque fasteners to 16 ft-lbs. (22 N m).

# **Installing Step Extrusion**

Slide the front mounting T-nut into position, place the board(1) about 5 inches from the front edge of the front door. Use fasteners(7) to attach boards, finger tighten only. Align the rear T-nut and bolt it to the rear linkage. Then tighten all 4 fasteners to 10 ft-lbs.



Remove the fuse from the Powerstep wire harness.

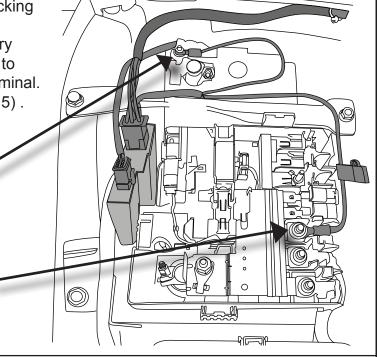


# **Installing Electrical Components**

Attach wire harness to controller and ensure locking tabs engage. Remove the cover on the battery top box and connect the Black wire to the battery terminal accessory stud. Connect the Red wire to the stud on the positive power battery cable terminal. Secure controller with supplied 11" cable Ties(15).

Battery terminal accessory stud, install under factory nut.

Positive terminal accessory stud to attach red wire with Nut(17).

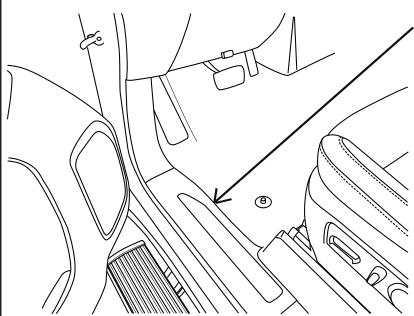


Cowl Edge

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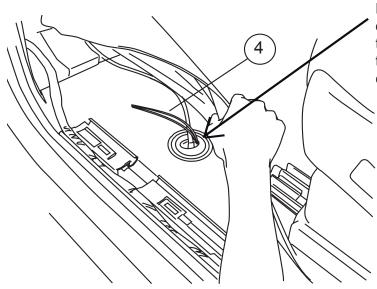
Controller

Route the long wire harness leg across the truck under the edge of the cowl (zip tied thru the push rivet slots on the bottom), and then down to the outside of the frame away from the exhaust and steering, cable tie(14) it in place. The other leg shall go down immediately away from the exhaust and to the frame area. Cable tie as needed.



Remove the driver side door sill trim and and kick panel carefully. Pull up the carpet, and poke a small screwdriver through the rubber insulation material.

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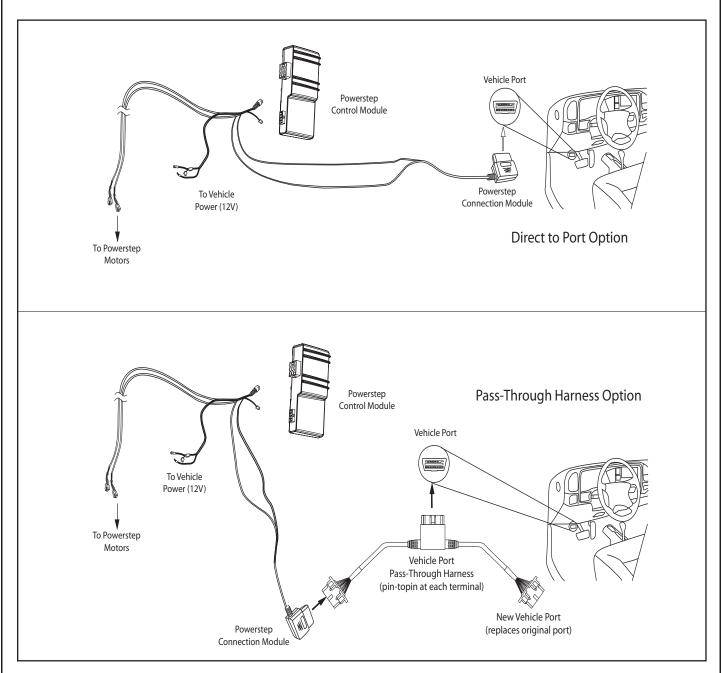


Route the two trigger wires towards the rear of the vehicle above the body mounts, and up through the hole made in the rubber grommet in the previous step. Secure harness with supplied cable ties.

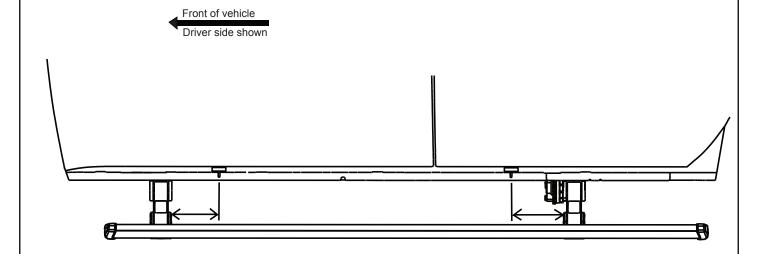
NOTE: Seal holes with silicone glue and cover with tape so carpet does not stick to glue.

On the Driver side, Do Not Ziptie the Wire Harness to the Brake Lines.

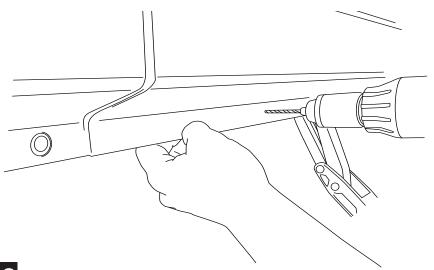
**OBD II install:** Use Supplied Posi Twist connectors to attach the Plug and Play Module to the Harness. Attach matching colors on the harness to the wires on the module. Plug in module to OBD II port on the vehicle. Secure harness with supplied tie wraps. *Note: If the OBD II pass thru harness (76405-01A) was purchased see install sheet supplied in packaging. The pass through harness allows for an open port for other accessories. See below for a brief description.* 



On each side of the vehicle mark the center of each door on the pinch weld and marlk for drilling for the light wires in the next step. Make sure there is a clear path to the back of the pinchweld for the wire to enter.



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Center punch and drill a 1/8" pilot hole then drill a 19/64" hole through the pinch weld at marked locations. Deburr all holes. After drilling apply paint to holes to prevent rusting.

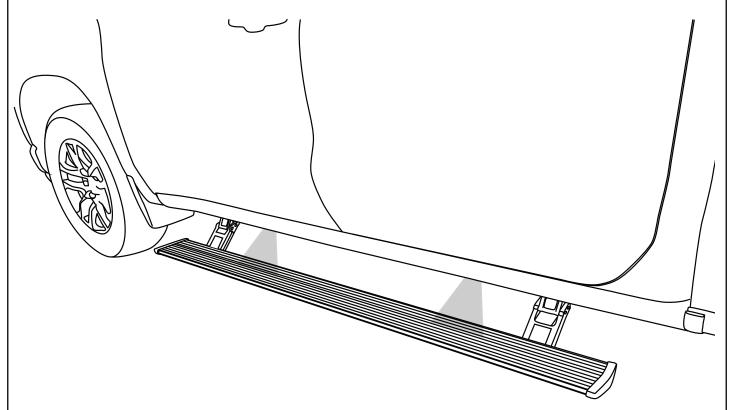


# AMP RESEARCH POWERSTEP™ - CHEVROLET / GMC Insert grommet(6) into drilled holes. Insert lamp(9) wires through the grommets. (Silicon lube will help wires slip through grommets) 13 Affix lamp to rocker panel surface. Make sure lamp is affixed to a flat, clean surface. 14 Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube. 15 Close and wrap with conduit and electrical tape. Secure all loose wires with cable ties, with lamp wires pulled upward to avoid any wire snagging. 16 13/14

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



Reinstall fuse.



#### 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.



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. Avoid spraying the motors directly. 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.