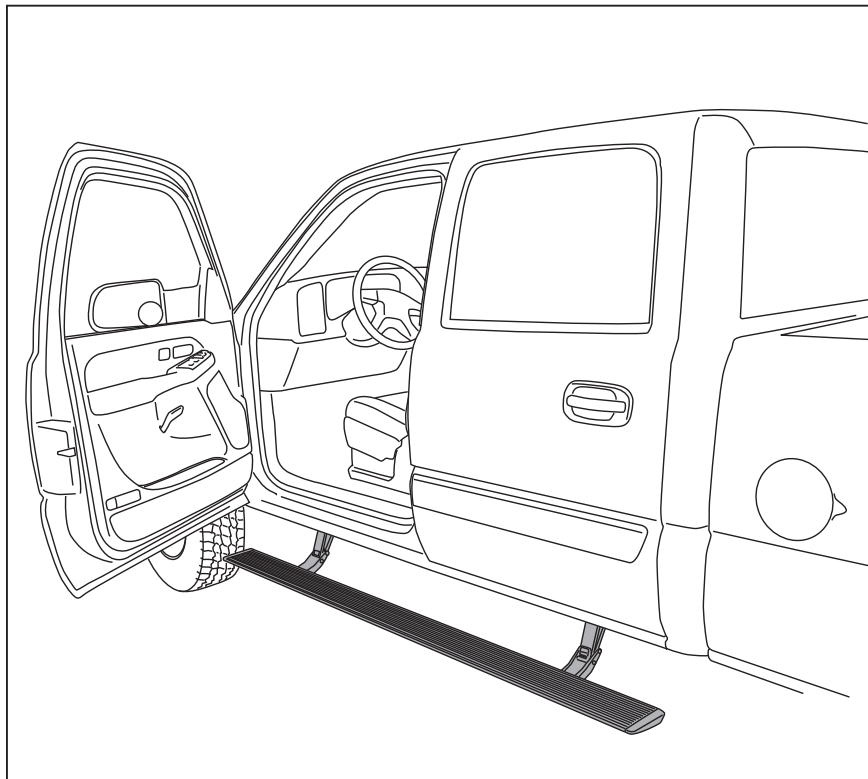


INSTALLATION GUIDE

AMP RESEARCH Power Step

Nationally Distributed by Bestop

APPLICATION	MODEL YR	PART #
Chevrolet Silverado / GMC Sierra	1999–2006 (Crew Cab)	10-03057-10
		(Extended Cab) 10-03057-11
Chevrolet Tahoe / Suburban Chevrolet Avalanche	2001-2006	10-03036-10
	2001-2006 (without cladding)	10-03036-10
	(with cladding)	10-03036-11
GMC Yukon / Yukon XL	2001-2006	10-03036-10
Cadillac Escalade Ext / ESV	2003–2006	10-03036-10



INSTALLATION TIME



SKILL LEVEL



4= Experienced

TOOLS REQUIRED

- Safety goggles
- Measuring tape
- Flat blade screwdriver
- Phillips head screwdriver
- Right angle drill
- 1/8" drill bit q 3/16" drill bit
- 9/32" drill bit q 21/64" drill bit
- 17mm socket q 13 mm socket
- 10 mm socket q 7 mm socket
- T 20 Torx driver
- Ratchet wrench and extension
- 13mm end wrench
- Wire crimpers
- Wire stripper / cutter
- Vise grip pliers
- Corrosion inhibitor
- 3/16" hex key wrench (allen wrench)
- 5mm hex key wrench (allen wrench)
- 4mm hex key wrench (allen wrench)
- Electrical tape
- Weather proof caulking (silicone sealer)

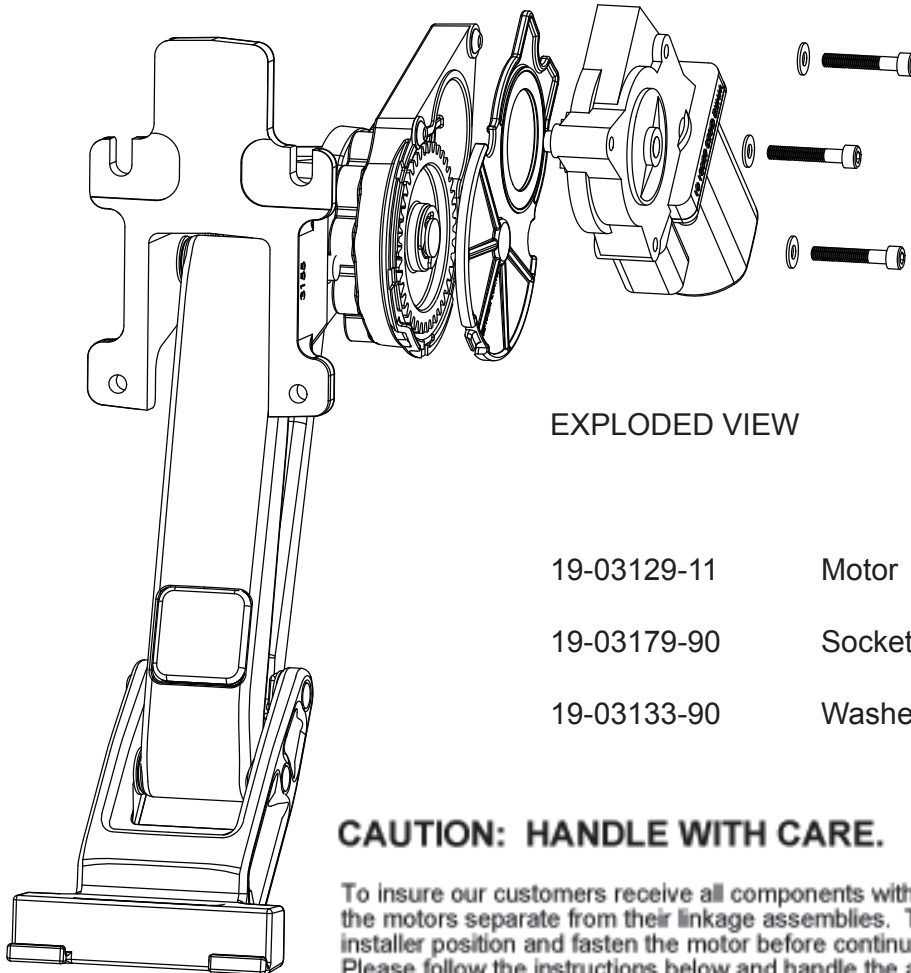
TECH SUPPORT 1-888-983-2206 Monday - Friday, 8:00 AM - 5:00 PM PST

Designed and manufactured by AMP Research. Patent 6,830,257 / 6,641,158 / 6,834,875 / 6,938,909 / 6,942,233 / 7,007,961 Other US and worldwide patents pending. Three-year limited warranty. Professional installation is recommended. Nationally Distributed by Bestop.

INSTALLATION GUIDE

Attaching motor to linkage assembly

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



EXPLODED VIEW

19-03129-11	Motor
19-03179-90	Socket cap screw
19-03133-90	Washer

CAUTION: HANDLE WITH CARE.

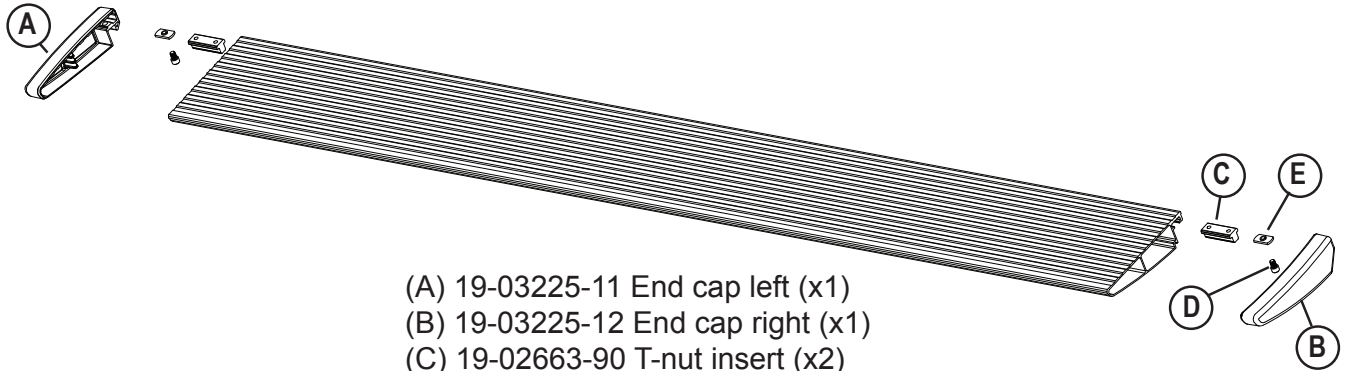
To insure our customers receive all components with full integrity, we pack the motors separate from their linkage assemblies. This requires that the installer position and fasten the motor before continuing with the install. Please follow the instructions below and handle the assembly carefully.

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. The motor mounts will sit flush to all 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.

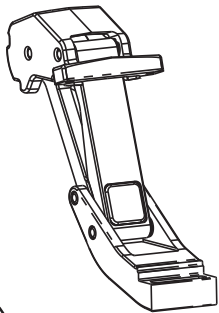
PARTS LIST AND HARDWARE IDENTIFICATION



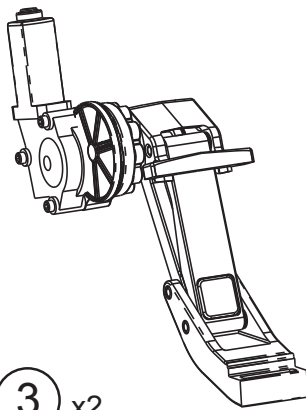
- (A) 19-03225-11 End cap left (x1)
- (B) 19-03225-12 End cap right (x1)
- (C) 19-02663-90 T-nut insert (x2)
- (D) 19-03236-90 Socket cap screw (x2)
- (E) 19-03237-90 Nut plate (x2)

1 x2

20-03314-XX
Running board assembly



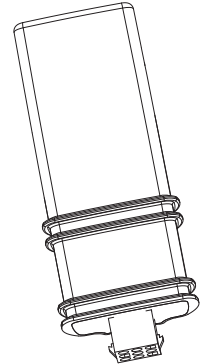
2 x2
10-03035-10 SUV
10-03058-11 Truck
Idler linkage assembly



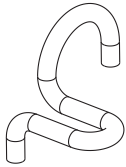
3 x2
10-03034-11 SUV
10-03059-12 Truck
Motor linkage assembly



4
19-03067-93 SUV
19-03067-91 Truck
Wire harness



5
19-03297-93
Controller



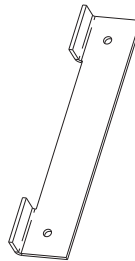
USED ON SILVERADO
AND SIERRA
HEAVY DUTIES ONLY.

6 x2
16-03079-90
Cable Bracket

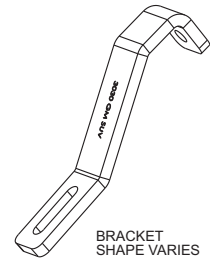


USED ON SILVERADO
AND SIERRA
HEAVY DUTIES ONLY.

7
19-03088-90
Brake Cable Ring

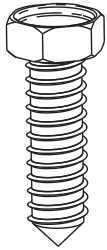


8
19-03044-90
Drill Template

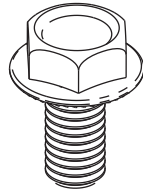


9 x4

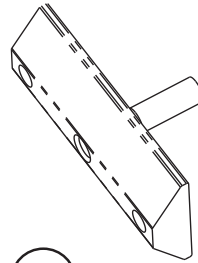
PARTS LIST AND
HARDWARE
IDENTIFICATION



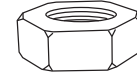
10 x8
19-02812-90
Hex Head Screw



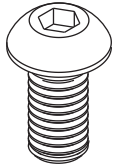
11 x4
19-03037-90 SUV
19-03248-90 Truck
Hex Flange Bolt



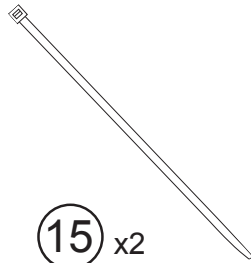
12 x4
19-03032-90
Upper Sill Mount
with 19-03033-90
Stud



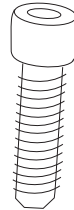
13 x4
10-00115-60
Nylock Nut



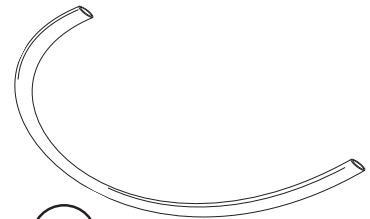
14 x8
19-02634-90
Button Head Bolt



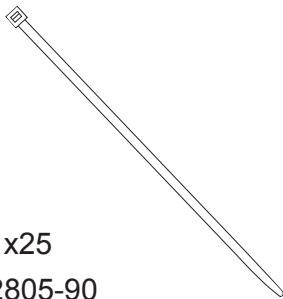
15 x2
19-03339-90
Cable tie (11")



16 x8
19-02802-90
Socket Cap Screw



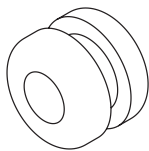
17 x2
19-02992-90
Tubing (Installation Tool)



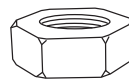
18 x25
19-02805-90
Cable tie (7")



19 x4
19-03354-90
Posi-Tap™ (Red/Grey)



20
19-02640-90
Grommet



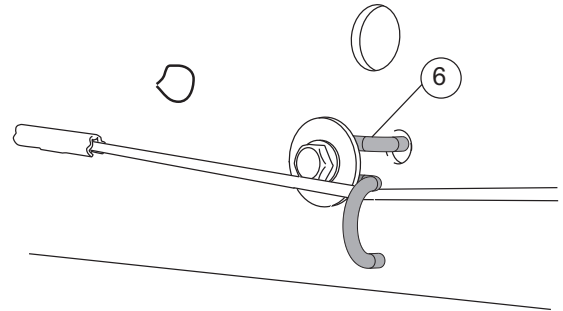
21 x8
19-03021-90
Hex Nut
(for Truck only- Step 8)

Steps 1-3 for Heavy Duty Trucks only! For all other vehicles skip to Step 4.

HD - Short Bed: Remove forward most brake cable guide.

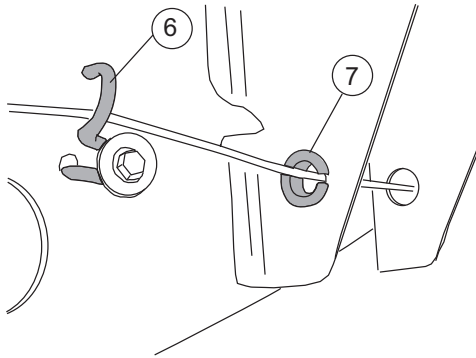
HD - Long Bed: Remove first and third brake cable guide.

1



2

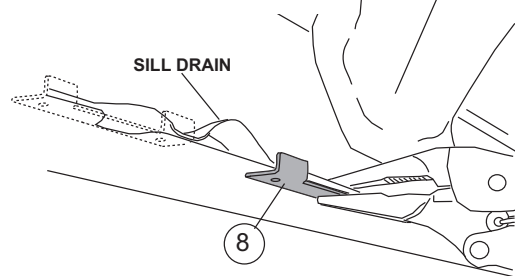
Install replacement brake cable guides.



HD - Long Bed: Install plastic brake cable guide in forward hole of rear body mount.

3

Rear linkage assembly. Template position for Tahoe and Yukon shown in hidden lines.

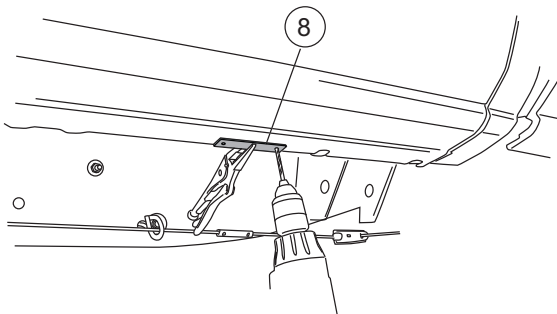


Clamp drill template about 1/16" forward of the rearmost sill drain.

4

Tahoe and Yukon: Clamp Template 1/8" behind second rearmost sill drain.

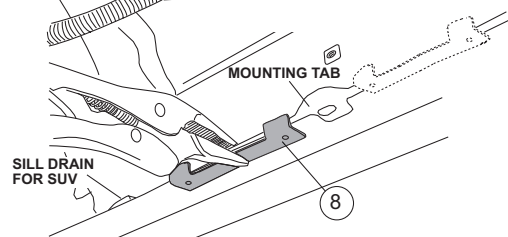
With drill template secured with vise grips, drill 1/8" starter holes. Remove template and drill holes to 21/64".



5

Tahoe and Yukon: Clamp Template 1/8" behind second rearmost sill drain.

Front linkage assembly. Template position for SUV driver side shown in hidden lines.



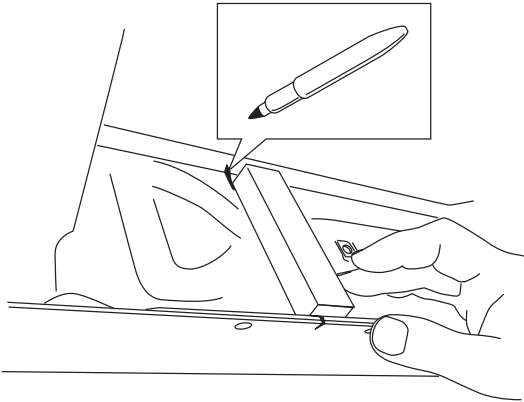
Clamp drill template to pinch weld about 1/8" behind the forward most mounting tab.

Then repeat Step 5.

SUV's: On driver side only, clamp template 1/8" in front of forward most mounting tab.

6

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

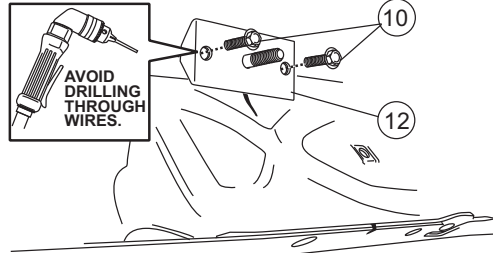


7

Use a straight edge to make a vertical line centered between drilled mounting holes.

READ THE ABOVE CAUTION NOTE!

Center the upper support mount and drill 1/8" starter holes, then remove mount and drill 3/16" holes. Drill through first layer of sheet metal only. Attach with #14 sheet metal screws.

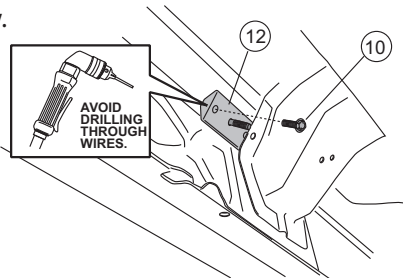


8

File down any exposed screw tips from inside and cover with silicone.

READ THE ABOVE CAUTION NOTE!

Repeat Steps 7 & 8 for rear mount. Drill through first layer of sheet metal only. This mount support will mount partially behind frame support and will require only one sheet metal screw.



9

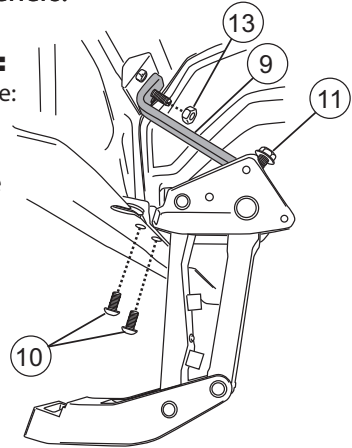
File down any exposed screw tips from inside and cover with silicone.

Mount linkage assembly and upper bracket and finger tighten all fasteners.

IMPORTANT NOTE:

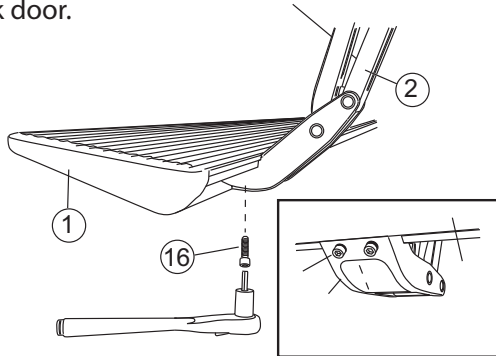
For Truck and HD Avalanche: The motorized linkage assembly goes to the front location on the drivers side and to the rear location on the passenger side.

For SUV & 1500 Avalanche: The motorized linkages assembly go to the front location on both sides.



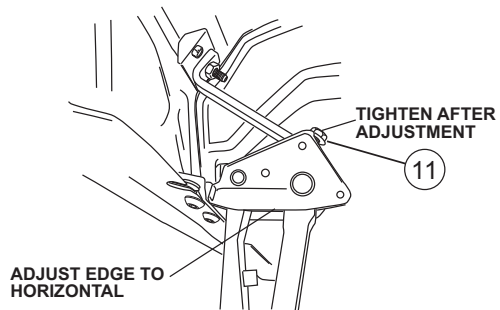
10

Slide mounting T-nut into position. Mount board and tighten fasteners to 10 ft-lbs. Align the end of the board with the rear edge of the back door.



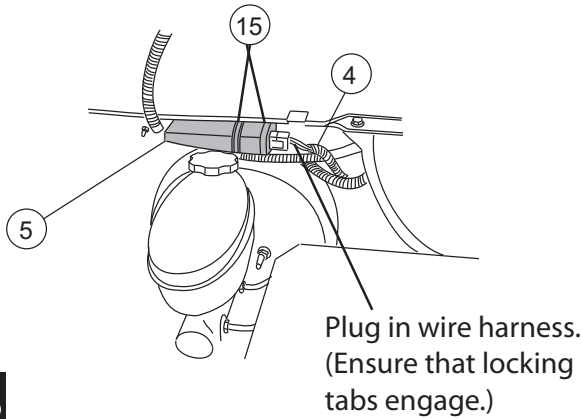
11

Tighten button head fasteners and upper nut to 16 ft-lbs. Then adjust the bottom edge to horizontal and tighten hex bolt to 16ft-lbs.



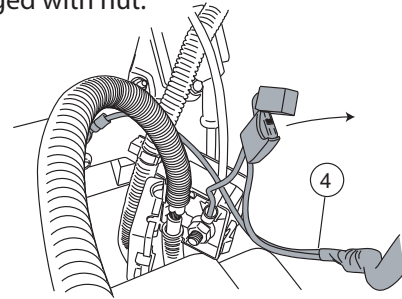
12

Using the two 11" cable ties, mount controller to factory wire conduit above brake booster on drivers side of truck.



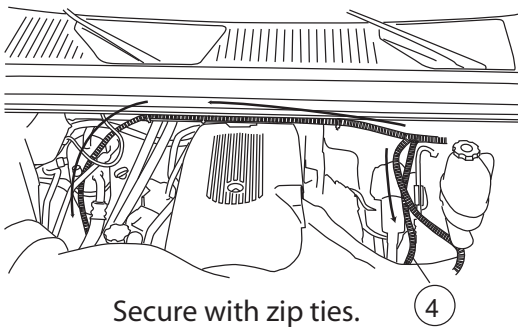
13

Remove power fuse. Attach power lead RED wire to positive lead in the junction box. CAUTION: Do not ground wrench when engaged with nut.



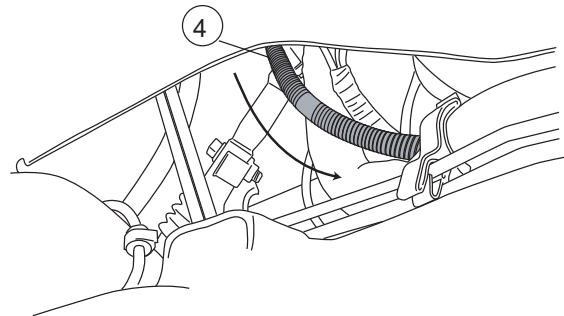
14

Route long end of wire harness above engine and down through passenger side wheel well. Zip tie harness to cowlings clips on fire wall. Route short end down drivers side.



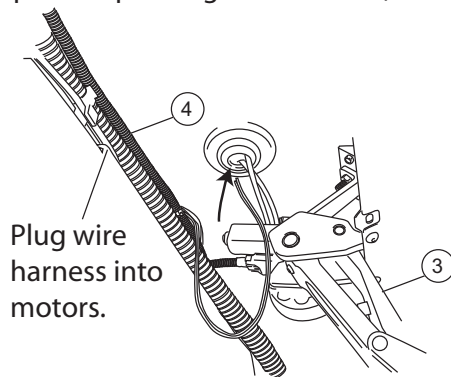
15

Route wire harness along the frame. Secure with zip ties.



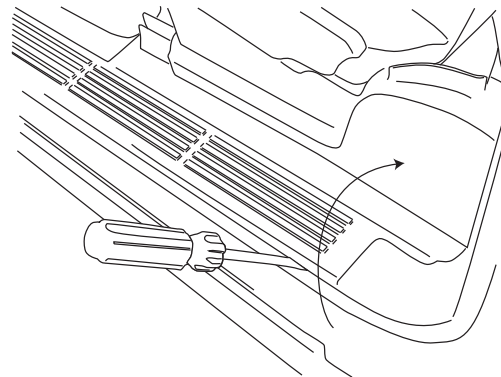
16

Poke hole through rubber grommet near front door on underside of floor panel with small phillips screwdriver. Push both wires through hole. (See Step 19 for passenger side notes.)



17

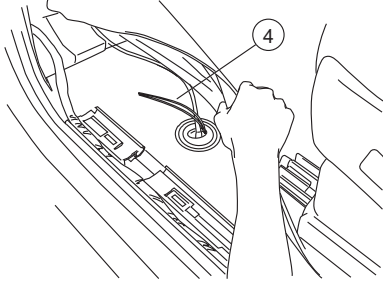
Pop off the threshold cover with screwdriver and remove the kick panel. The panel will slide out from under the seat after fasteners give way.



18

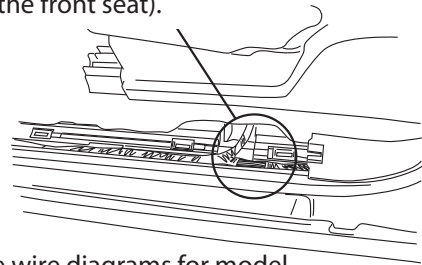
IMPORTANT: Steps 20 and 21 are for Crew Cabs only. Light blue and Green wires will not be used otherwise. See wire diagrams for model years previous to 2003.

Pull up the carpet and thread both wires through the floor panel (same steps on passenger side EXCEPT drill 9/32" hole in metal and add rubber grommet).



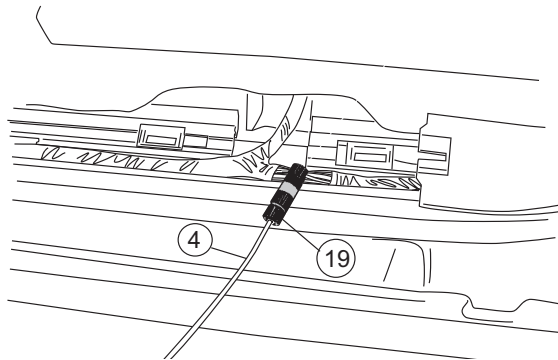
19 Seal holes with silicon glue.

On Crew Cab carefully remove wire wrap and find LIGHT BLUE wire with BLACK STRIPE (on passenger side find GREEN wire with BLACK STRIPE rear of the "T" junction where wires cross under the front seat).



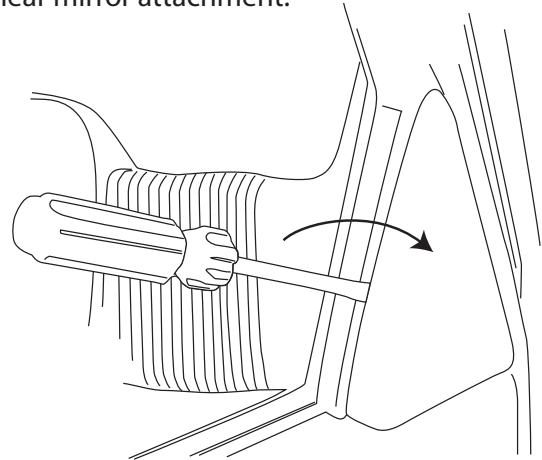
20 See wire diagrams for model years previous to 2003.

Using supplied Posi-Taps™ splice shorter trigger wire into wire found in step 20.



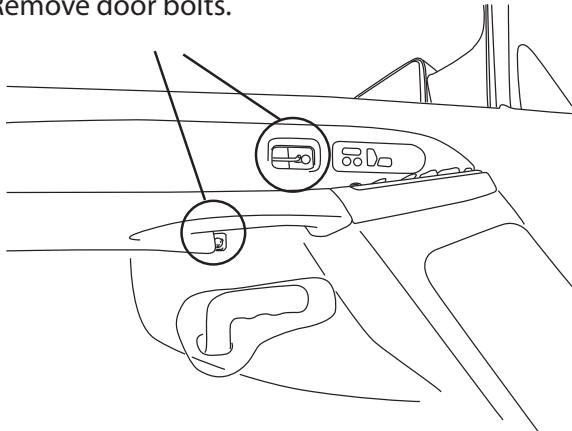
21 Note: Crew Cab only; Tape off these extra wires otherwise.

Remove plastic trim on door near mirror attachment.



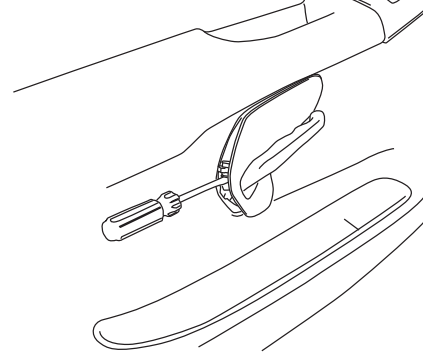
22

To remove door, first pry off door lock. Remove door bolts.



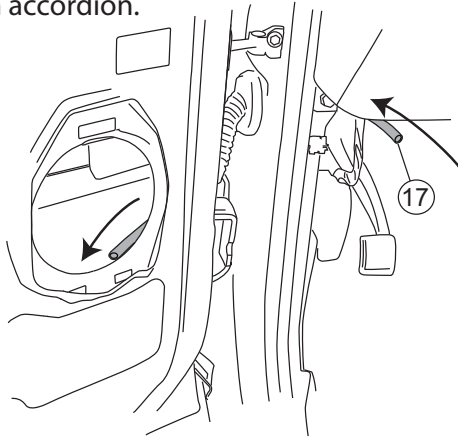
23

Pry off door handle plate and any remaining panel fasteners. Then remove door panel.



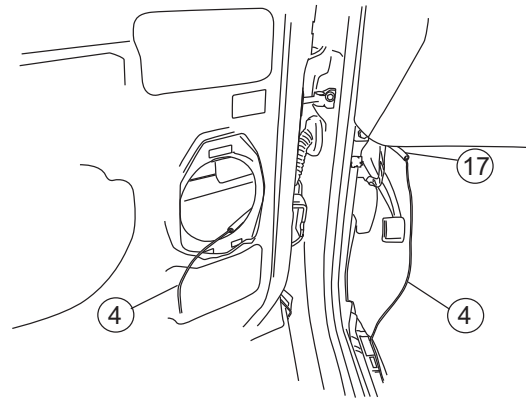
24 NOTE: Remove door light while removing door panel.

Pull back the door weather guard. Pry off speaker and unplug. Thread plastic tube through accordion.



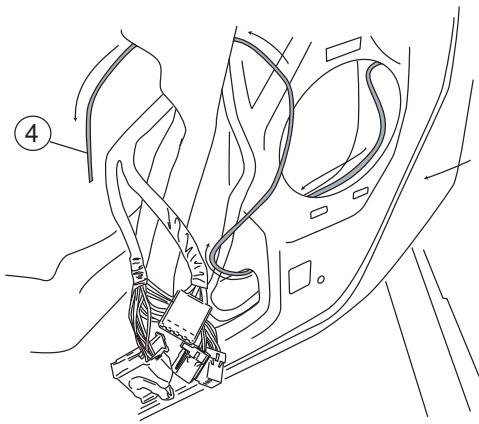
25

Feed longer wire of Step 19 through tube into door and pull out plastic tube on door side.



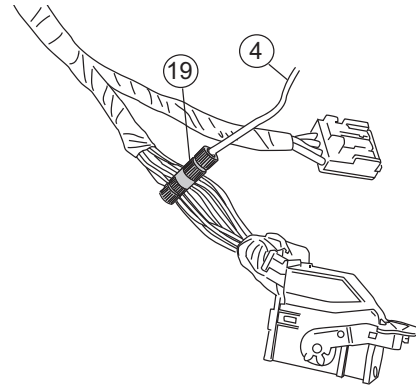
26

Route wire along harness going to switch plate.



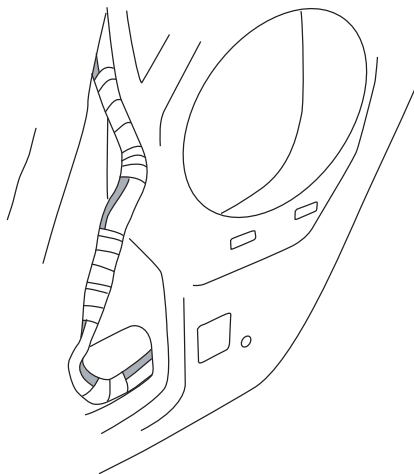
27

Using supplied Posi-Taps™ splice trigger wire into door ajar wire (Driver side: Gray with Black Stripe; Passenger side: Black with White Stripe). The wire leads to the connector with a cam-release lever.



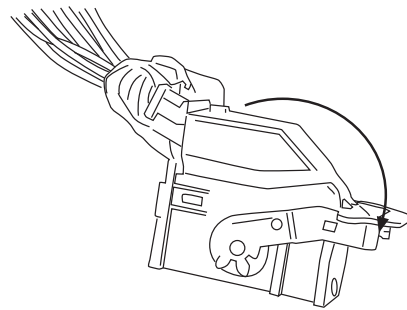
28

Secure all wires with zip ties and electrical tape.



29

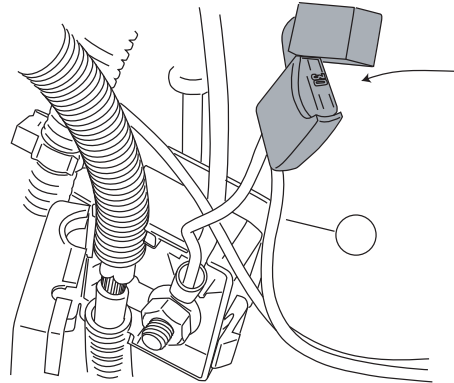
Make sure that plug lever is fully opened before reinstalling. Failure to do this will adversely affect the operation of the powerstep and window controls.



30

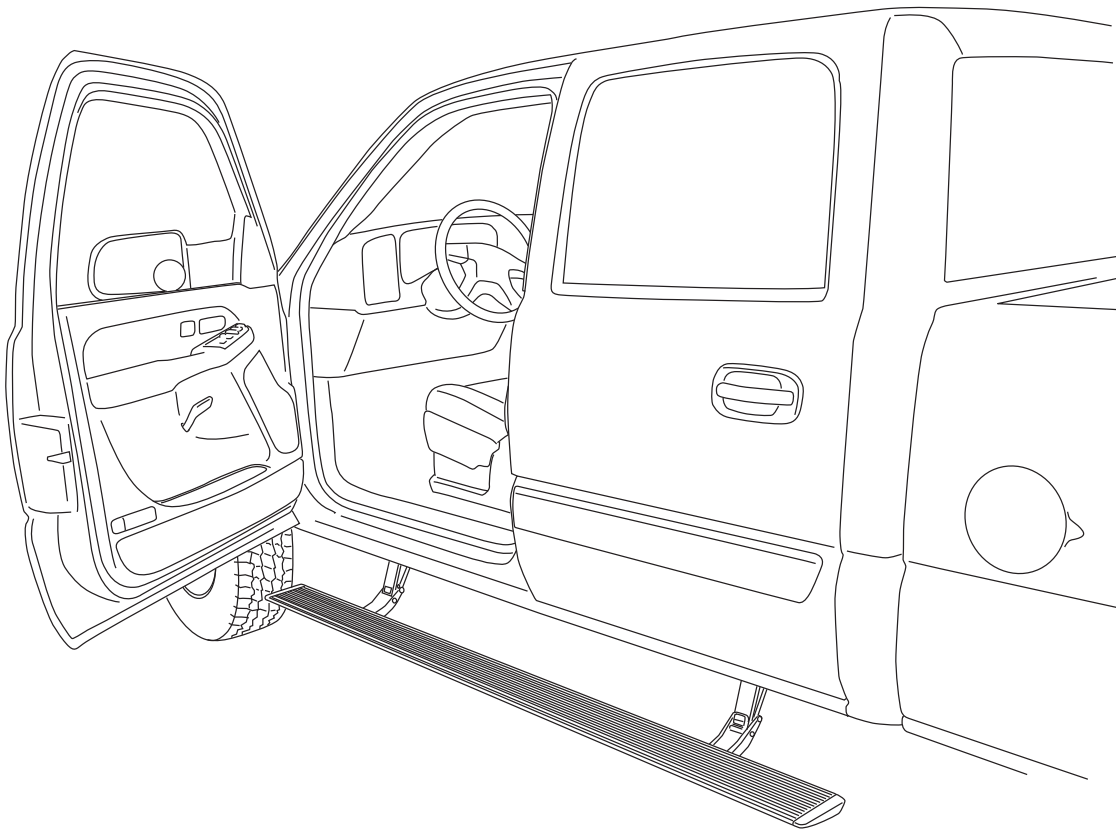
Reinstall door panel.

Replace power fuse.



31

Check that both doors activate the powerstep. Reinstall any remaining trim panels. Repeat the adjustments of Step 12 if the stowed step position is not even.



32

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. This warranty applies to the original purchaser only. 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: THREE 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.

For further information or request for warranty work, please contact AMP RESEARCH Customer Service toll-free 1-888-983-2204

WARNING

The manufacturer strongly recommends that this product be professionally installed.

Failure to carefully follow the electrical installation steps could result in severe electrical shock that could harm the installer and/or damage the vehicle.

This product is designed to enhance the appearance of the vehicle. Do not rely in any way on the components of this product to contain occupants within the vehicle, or to protect against injury or death in the event of an accident. Never operate vehicle in excess of manufacturer's specifications.

WEAR SEAT BELTS AT ALL TIMES

Read and follow, precisely, all installation instructions provided when installing this product. Failure to do so could place occupants of the vehicle in a potentially dangerous situation. After installing or reinstalling, check to make sure it has been properly installed.