

# INSTALLATION GUIDE

# AMP RESEARCH Power Step™

MADE IN USA

APPLICATION	MODEL YR	PART #	REV
Dodge Ram Regular Cab * 1500	2009 - 2018 (2019 Classic)	75138-01A	REV B
Dodge Ram Quad Cab * 1500	2009 - 2018 (2019 Classic)	75138-01A	REV B
Dodge Ram Crew Cab 1500	2009 - 2018 (2019 Classic)	75138-01A	REV B
Dodge Ram Regular Cab * 2500/3500	2010 - 2018	75138-01A	REV B
Dodge Ram Crew Cab 2500/3500	2010 - 2018	75138-01A	REV B
Dodge Ram Mega Cab 2500/3500	2010 - 2018	75138-01A	REV B

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

**NOTE: EXCLUDES CHASSIS CAB MODELS WITH DIESEL ENGINES.**

**NOTE: Wiring on the 2013-2018 models (1500/2500/3500) and 2019 Classic, has changed. See Page 11 for details.**

### INSTALLATION TIME

**3-5 Hours**

Professional installation recommended

### SKILL LEVEL



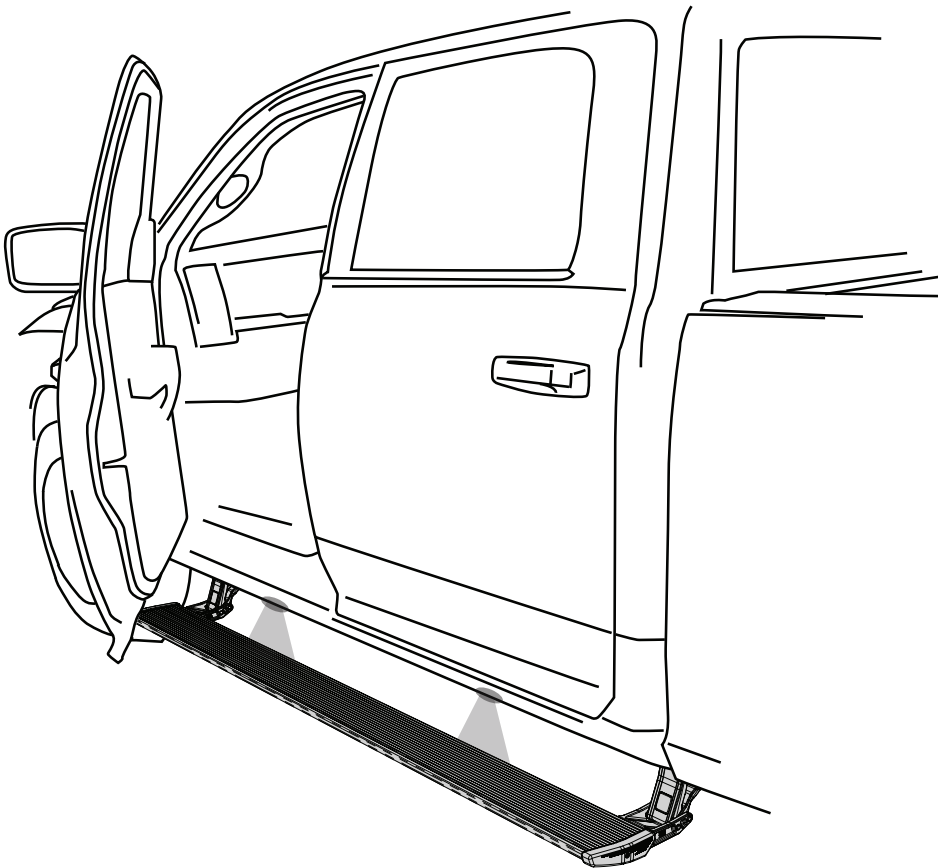
4= Experienced

### TOOLS REQUIRED

- Safety goggles
- Measuring tape
- 13mm wrench
- 19mm wrench
- 13mm socket
- 10mm socket
- Ratchet wrench and extension
- Wire stripper / cutter
- 3/16" hex key ( allen wrench )
- 4mm hex key ( allen wrench )
- Rivet Tool
- 1/8", 9/32" and 3/16" Drill Bit
- T27 torx Bit
- Center Punch
- Anti Corrosion Paint
- Electrical tape

### WARRANTY

**5-Year Limited Warranty**



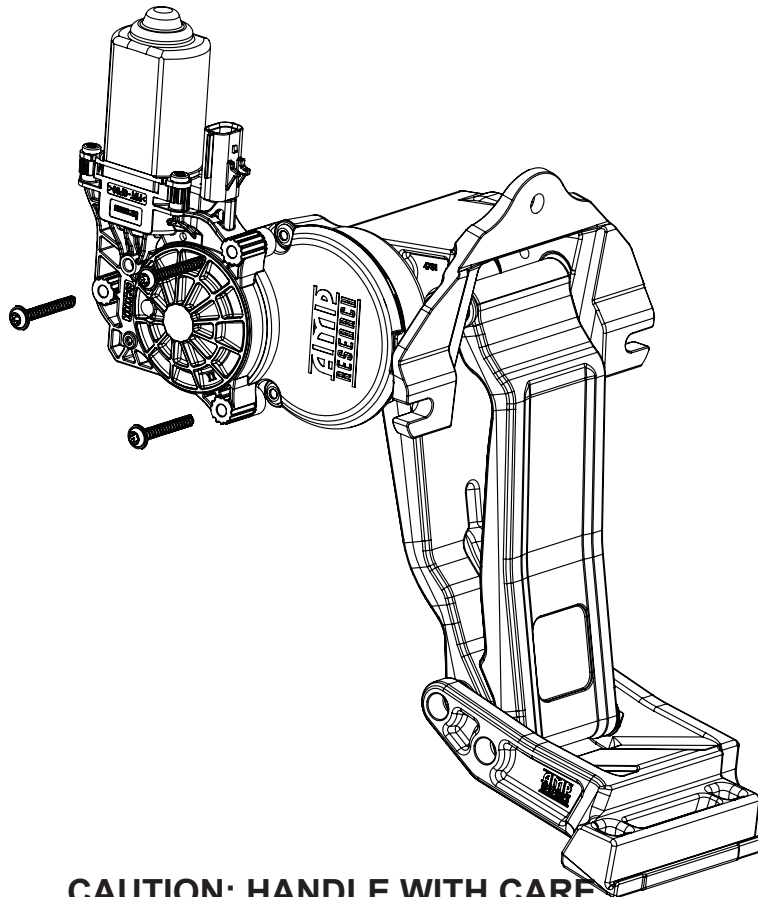
AMP RESEARCH TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 7:00 AM - 5:00 PM PST

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## INSTALLATION GUIDE

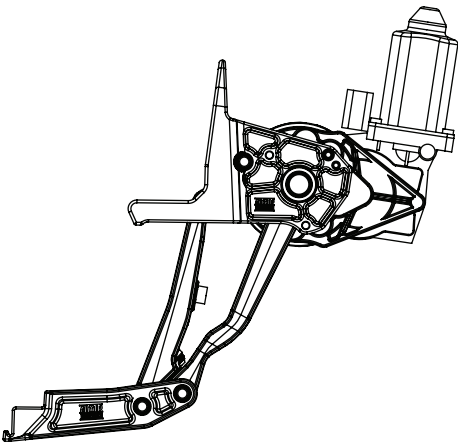
### Motor to linkage assembly

**NOTE: The motors will be attached on step 43 (page 15).**



#### EXPLODED VIEW

- Motor kit
- Socket cap screws
- Motor Linkage assembly



#### 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:

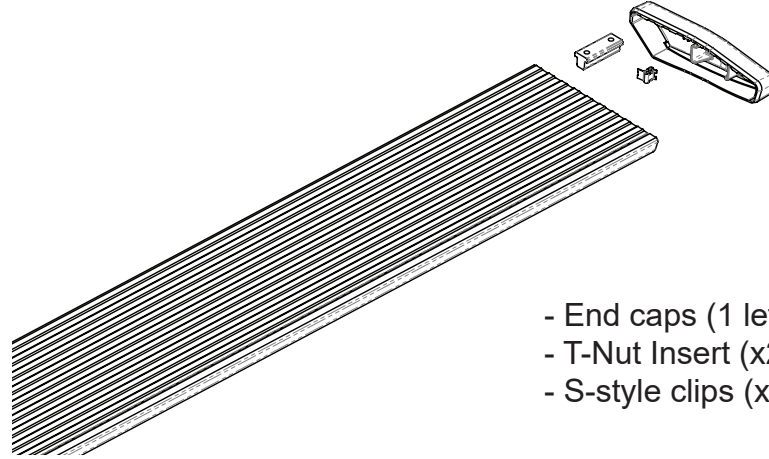
1. Position the gear cover in place as shown if not already in place.
2. Seat motor into position on the three mounting bosses. This may require an adjustment of the gear by moving the swing arms.
3. After seating into place, fasten the motor with the three motor mount screws with 4mm Hex Head. Tighten screws to 36 in-lbs (4N-m). **Do not over torque.**

PARTS LIST AND HARDWARE IDENTIFICATION

**Note: Some Applications require modification**

Application	Cut Length
Crew Cab, Mega Cab	79" (No Modification Required)
Quad Cab	72" (Trim 7")
Regular Cab	50" (Trim 29")

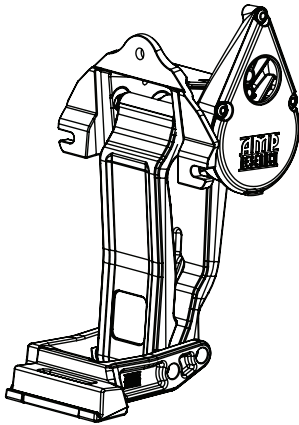
**1** x2  
Running Board assembly



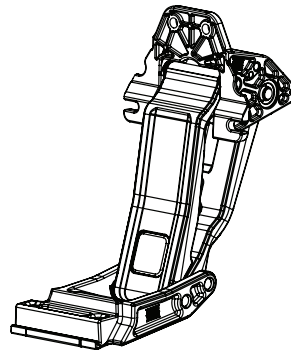
- End caps (1 left & 1 right)
- T-Nut Insert (x2)
- S-style clips (x2)

Driver Side Linkages

**2a**  
Motor Linkage Assembly - Driver Side

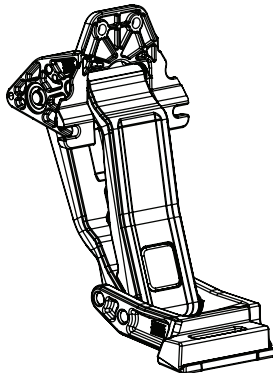


**3a**  
Idler Linkage Assembly - Driver Side

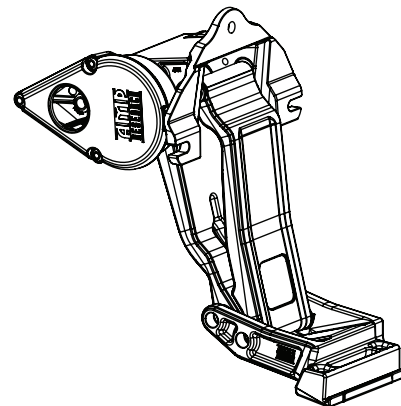


Passenger Side Linkages

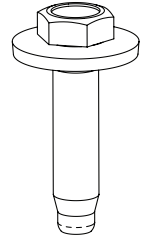
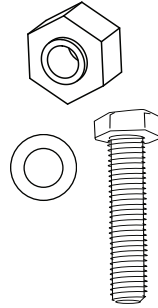
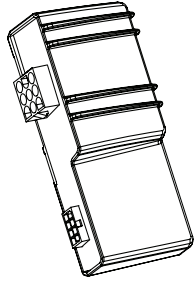
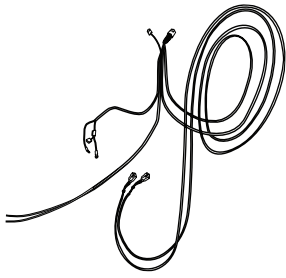
**3b**  
Idler Linkage Assembly - Passenger Side



**2b**  
Motor Linkage Assembly - Passenger Side



PARTS LIST AND HARDWARE IDENTIFICATION



④

Wire Harness

⑤

Controller STA

⑥ x8

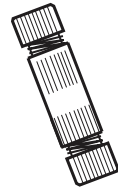
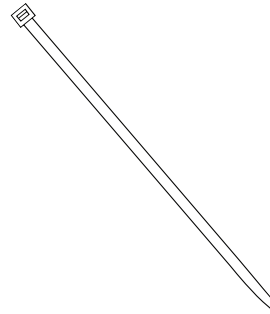
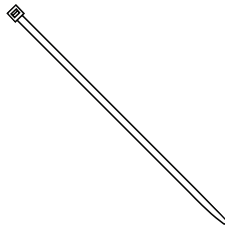
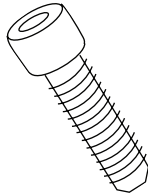
Rivet Nut

⑦

Rivet Nut Tool

⑧ x20

Conicle Washer Bolt



⑨ x8

Blind Rivet

⑩ x8

Socket Cap Screw

⑪ x20

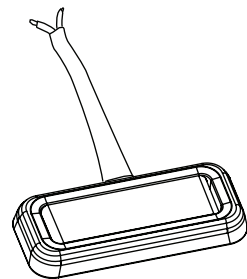
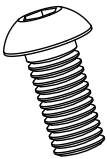
Cable Tie (7")

⑫ x2

Cable Tie (11")

⑬ x4

Posi-Tap™ Connector



⑭ x8

Button Head Torx  
Screw

⑮ x8

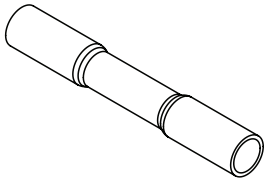
Washer

⑯ x4

Grommet

⑰ x4

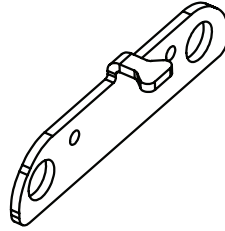
LED Lamp



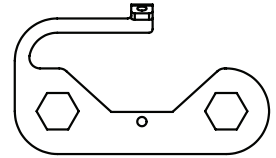
**18** x8  
Butt Connector



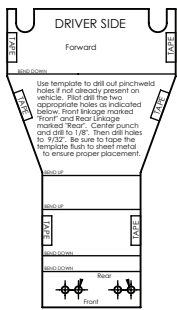
**19** x4  
Blind Rivet



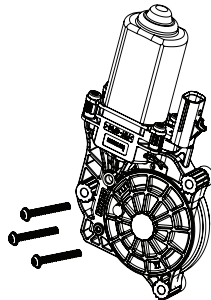
**20** x2  
Spacer (front drive linkage)



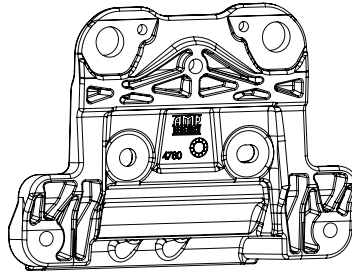
**21** x4  
Reinforcement Bracket



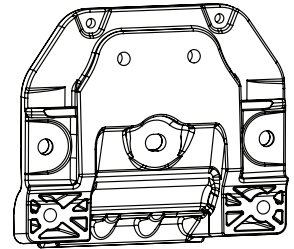
**22** x2  
Driver / Passenger  
Drill Template



**23** x2  
Motor kit

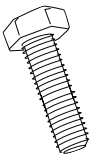


**24** x2  
Front Body Mount

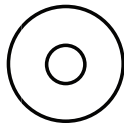


**25** x2  
Rear Body Mount

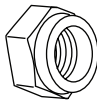
**FOR 1500 MODELS ONLY!**



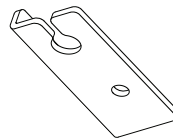
**26**  
Short Hex Bolt



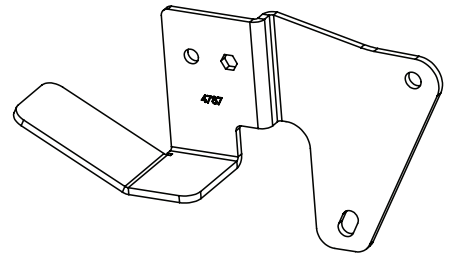
**27**  
Large Washer



**28**  
Nylock Nut



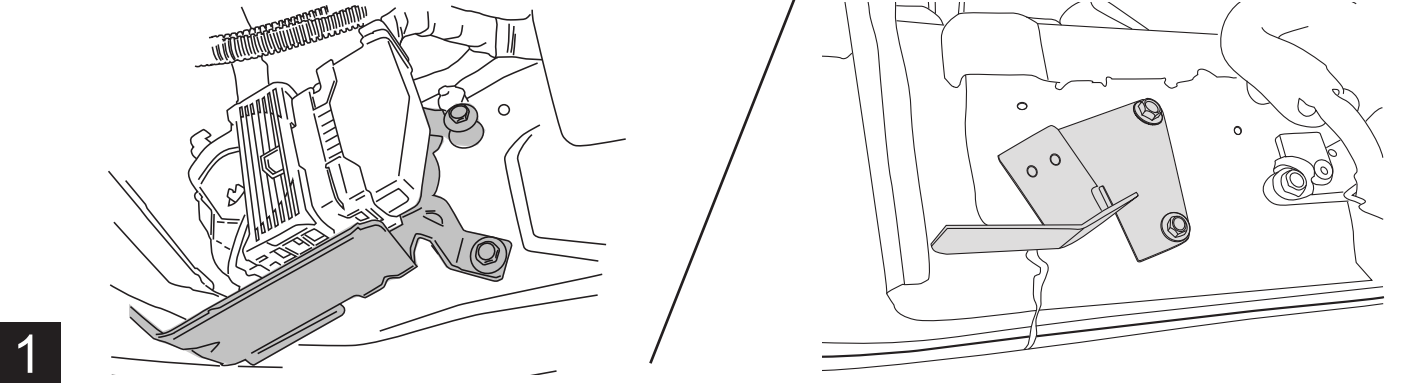
**29**  
Bracket



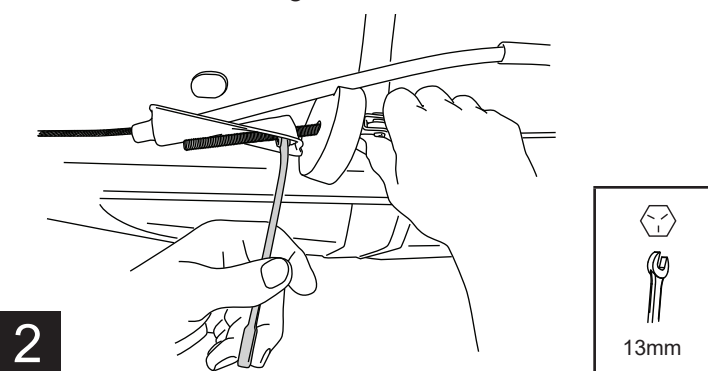
**30**  
Harness Relocation  
Bracket

**NOTE: 1500 RAM Only! Powerstep installations require additional steps and come with the required additional hardware. Please read and carefully follow the instructions in Step 1 for your vehicle model.** Follow Steps 1-5 to relocate brake cable and wire harness plug and then proceed with the Power Step installation. **For Ram 2500/3500 Skip to step 6.**

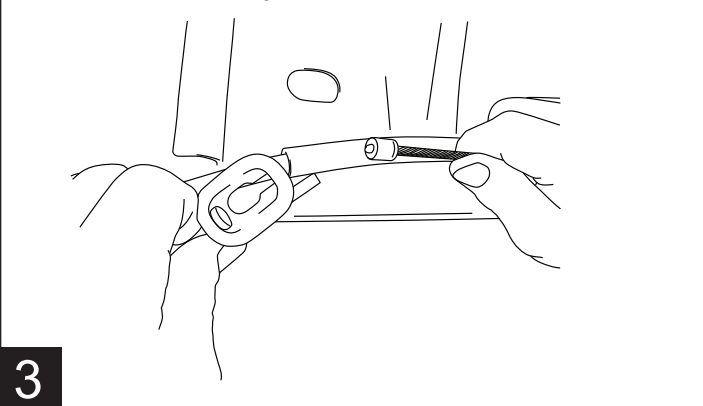
**2015 MODELS ONLY:** On Drivers side of vehicle towards front of body remove harness bracket with 10mm socket or wrench. Remove plug from bracket. And replace with supplied bracket (30) using two of the three factory screws.



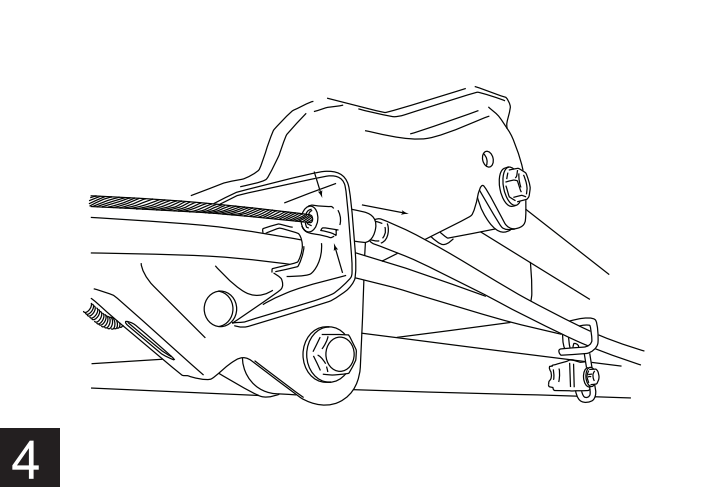
**2** While holding brake cable adjustment nut with wrench (located on driverside along frame, towards the rear), loosen brake cable to allow for slack. Mark position of nut before loosening.



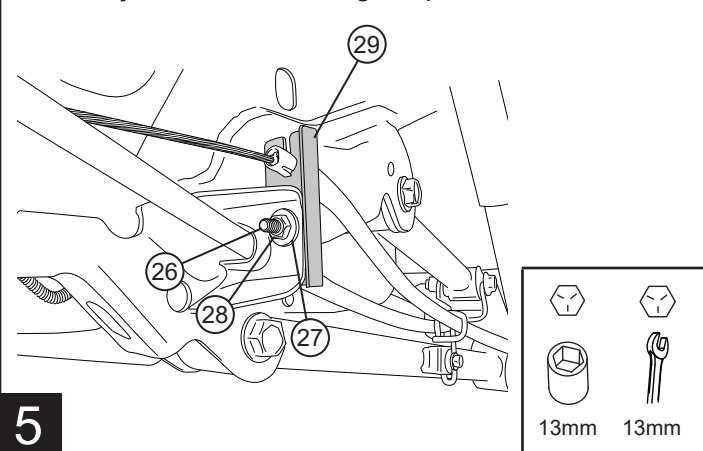
**3** After gaining enough slack, detach brake cable as shown below. This detachment point is located just to the rear of the adjustment nut.



**4** Remove brake cable guide from frame by depressing locking tabs and sliding guide out through hole. Unthread brake cable from frame mount.



**5** Attach brake cable guide to supplied Brake Cable Bracket (29) and mount bracket with supplied hardware. Reattach brake cable and readjust brake cable adjustment nut to original position.

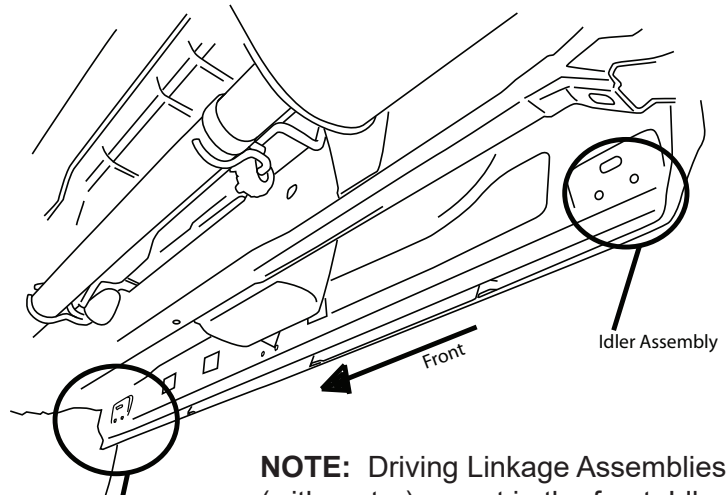




## HARDWARE MOUNTING OVERVIEW (passenger side shown)

Locate forward most and rearward most mounting provisions on inner sill of truck. Remove tape from sill drain hole at both mounting points.

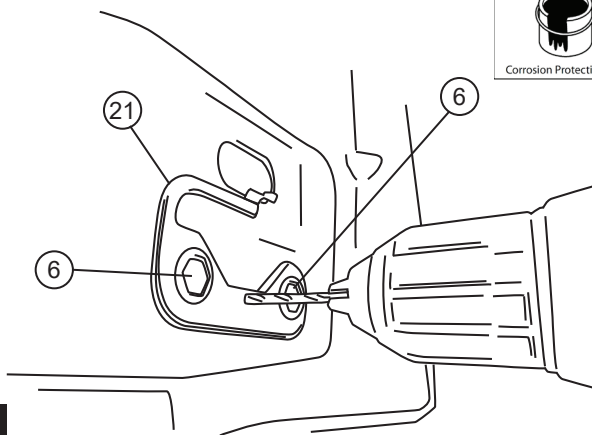
**Note: Some vehicles may have Front welded fasteners installed already. Backing plates and rivet nuts are not needed on these locations. Factory Rivet nuts will need to be removed to install backing plates.**



**NOTE:** Driving Linkage Assemblies (with motor) mount in the front; Idler Assemblies mount in the rear.

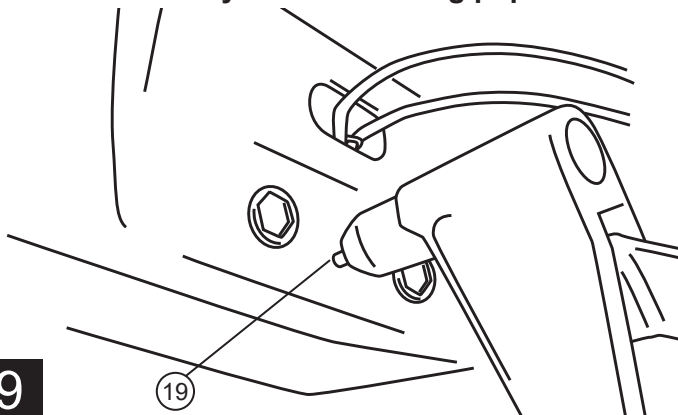
**6**

Set Reinforcement Plate in place and locate with rivet nuts. Drill hole using an 1/8" drill bit. After drilling apply paint to prevent rusting



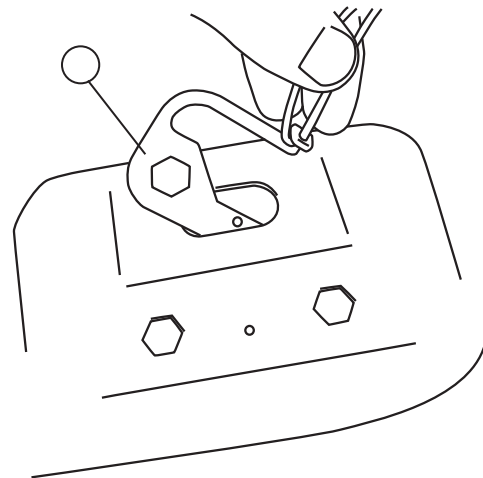
**7**

Set rivet nuts into place for alignment. Insert pop rivet through hole in plate and secure in place. Once pop rivet is installed remove string or wire from Reinforcement Plate. **NOTE: Verify plate is pulled flush to the body before securing pop rivet.**



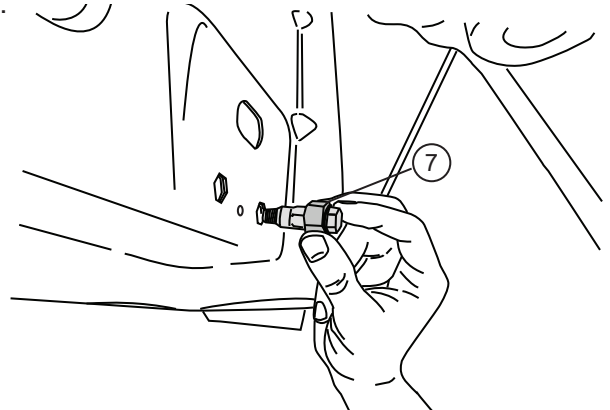
**9**

Once hole is drilled insert a piece of string or wire through hole in Reinforcement Plate. Set plate into position.



**8**

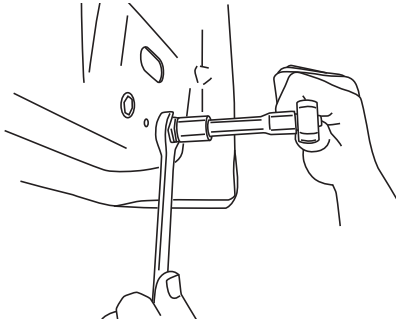
Assemble Hex Bolt (lubricated with soapy water), Washer, Rivet Tool, and Rivet Nut together as shown and place into hex cutouts in sill. An extra Hex Bolt and M8 Washer is supplied to install rivet nuts.



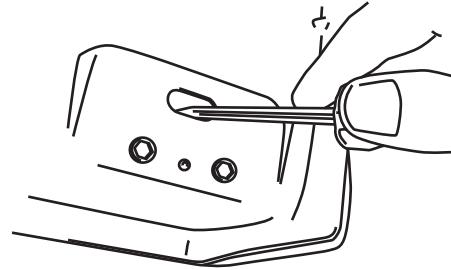
**10**

With Rivet Nut Tool held in place with 19 mm wrench, tighten Hex Bolt until Rivet Nut deforms and secures itself to the sheet metal (110 in-Lbs. or 4 turns). Remove Hex Bolt and Rivet Nut Tool. Repeat for each of the four mentioned mounting locations.

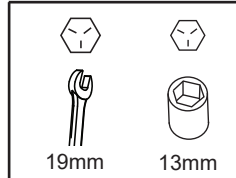
Once rivet nuts are in place use a screwdriver to push back tab in hole to avoid interference with linkage mount.



**WARNING:** Rivet Nuts not properly collapsed will not hold securely to sheet metal.



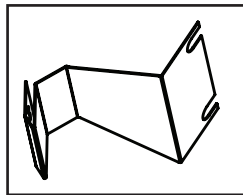
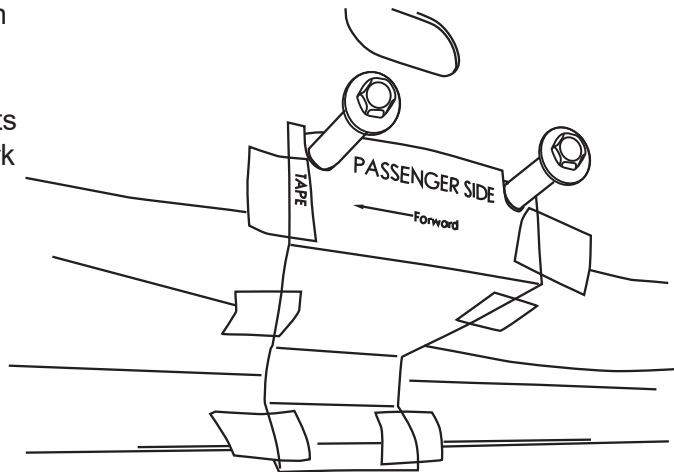
**11** NOTE: Hold Rivet tool with wrench while loosening bolt.



**12**

**NOTE: Models with holes on the pinch weld skip to Step 17. (some 2013 Models)**

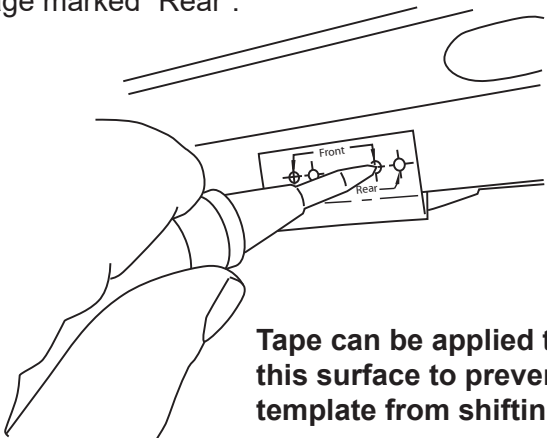
Fold both the passenger and driver side templates in the proper direction noted on the template. Thread in conicle bolts and slide slots in template up to bolts. Next use tape and apply tape on all surfaces on template (22) that is labeled "Tape". Start at Hex bolts and make sure template is flat on each surface. Work your way down and out.



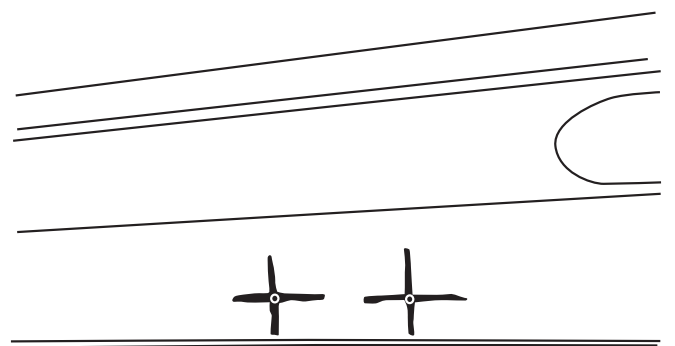
**13**

Mark appropriate holes as indicated with a center punch. Front linkage marked "Front" and Rear linkage marked "Rear".

Using a marker draw cross hatch to verify bit does not walk while drilling.



Tape can be applied to this surface to prevent the template from shifting.



**14**

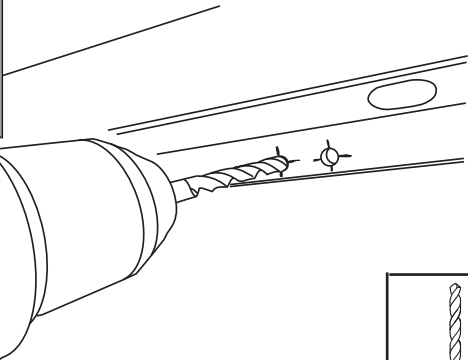
**15**



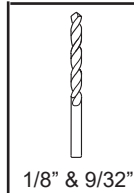
Pre drill hole using an 1/8" drill bit. Next drill holes to 9/32". Deburr all surfaces. NOTE: Filing of hole may be required if drill bit wandered. After drilling apply paint to prevent rusting.



Corrosion Protection Paint

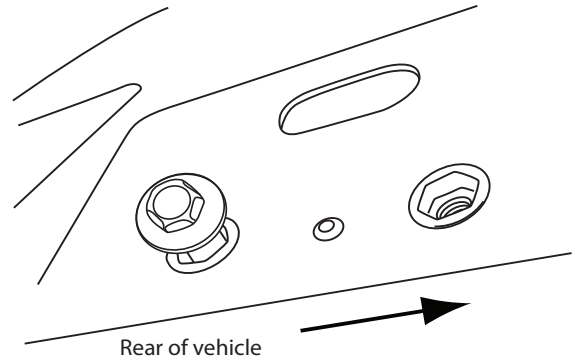


NOTE: Hold Rivet tool with wrench while loosening bolt.



1/8" & 9/32"

**Linkage Installation:** On rear linkages thread front hex bolt into rivet nut with washer. Note on Front drive linkages both hex bolts can be threaded into position.



Rear of vehicle

Passenger Side Rear mount position shown.

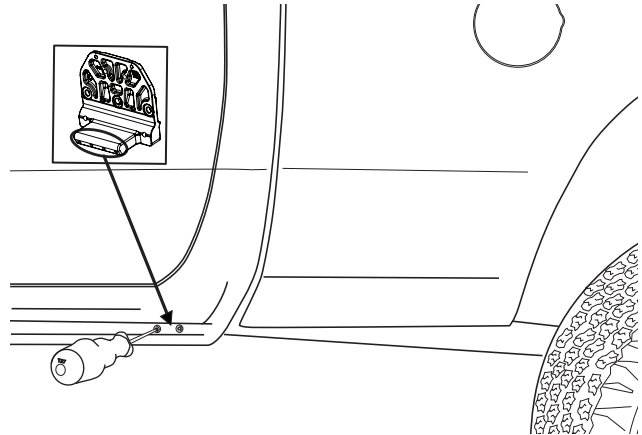
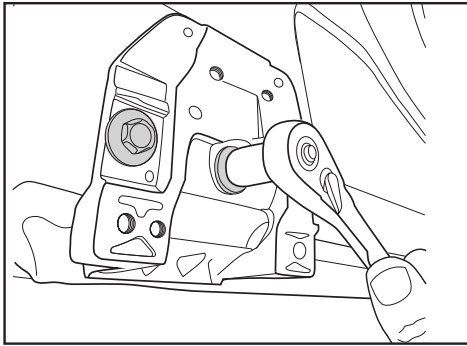
16

17

**Rear Linkage Install:** Set rear body mount plate (25) to body.

**Note:** Center and rear hole will be used. Driver side shown. Use supplied Conical washer bolts (8) to attach as shown, At the pinch weld Use a T27 Torx driver and torque bolts to 6ft-lbs.

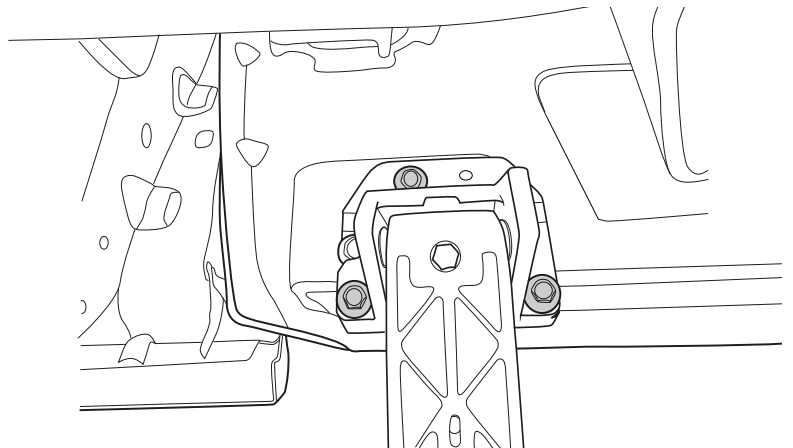
**Next torque bolts to 16 ft-lbs.**



18

**Rear Idler linkage:** Set linkage into position.

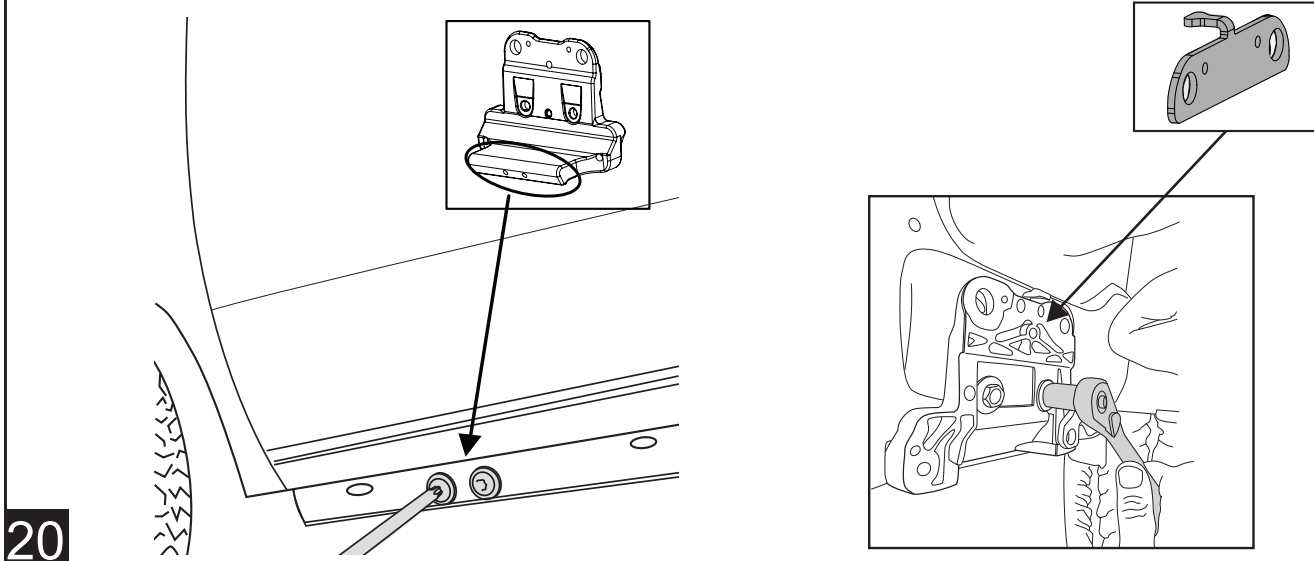
Use supplied conical washer bolts to attach linkage to body mount plate. Use rear most bolt as shown on driver side. Passenger side will use rear mount position as well. Torque bolts to 16ft-lbs.



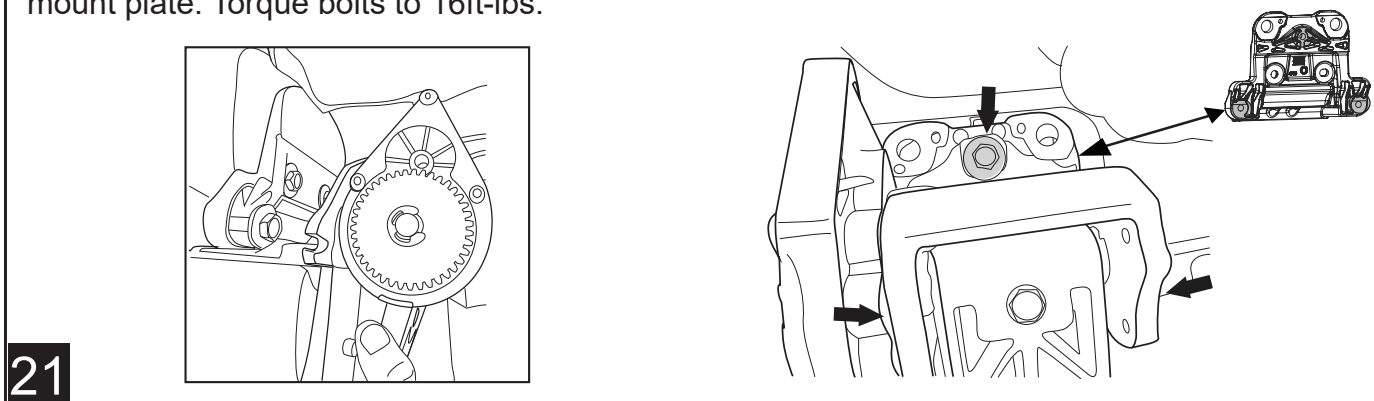
19

Set front body mount plate (24) to body. Driver side shown. Use supplied Conical washer bolts to attach as shown, At the pinch weld Use a T27 Torx driver and torque bolts to 6ft-lbs. Next torque bolts to 16 ft-lbs.

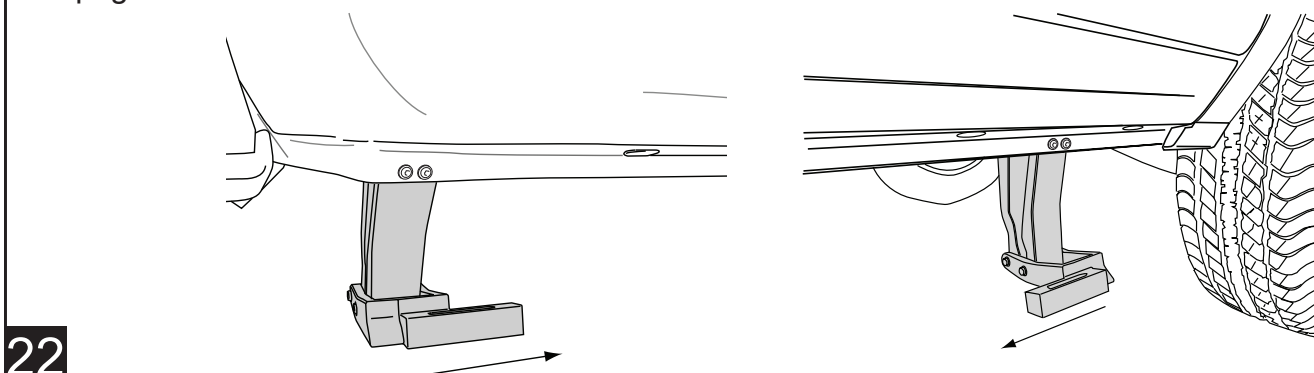
If crash bracket is not present use supplied spacer (20) in place of bracket. Spacer can be inserted after body mount is up into position. Spacer will be held in place by drilling and pop riveting into place. **Rivets will be installed in step 39 & 40.**



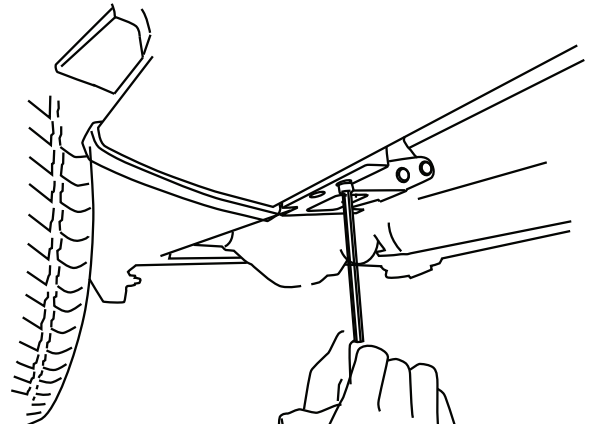
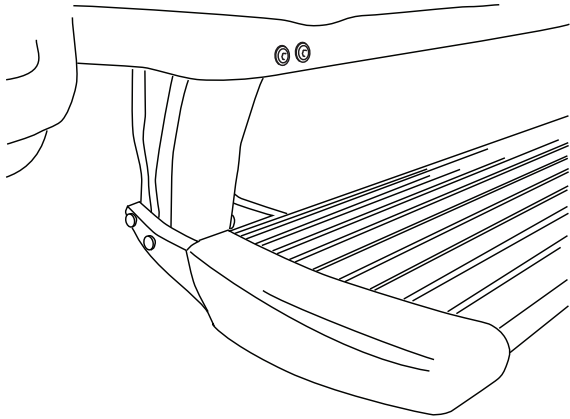
**Front Drive Linkage:** Use 3 of the supplied conical washer bolts (8) to attach linkage to body mount plate. Torque bolts to 16ft-lbs.



The jogs in the lower part of the linkages point toward one another, as shown, Drive (motor) Linkage in the Front and Idler Linkage in the Rear. Note: Linkage position described in parts list on page 3.



**Install boards:** Slide mounting T-Nut of board into position and attach to linkages. Shift board forward as much as possible for proper clearance. The end of board/end cap will nest into linkage lower mount 1/2" when positioned correctly. **With boards in extended position step on boards to seat linkages. Walk the length of the board taking bouncing steps. DO NOT JUMP ON BOARD! Verify that board end caps do not contact the pinch weld. If Endcaps make contact loosen 4 button head screws at pinch weld. Walk the length of the board and apply weight to the center of the board and while applying weight retighten button head screws at pinch weld.**



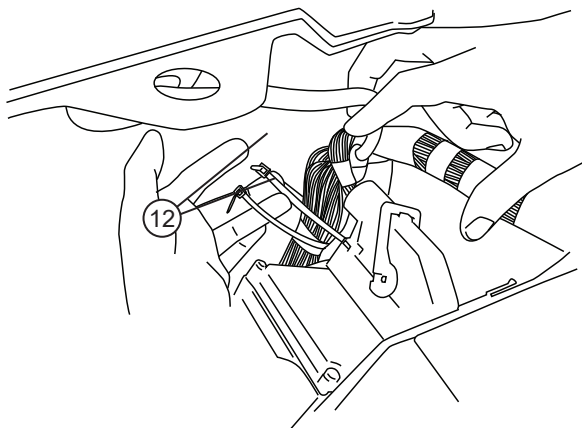
Torque to 10 ft-lbs. (13.5 Nm)

For instructions on how to adjust board due to pinchweld Interference, scan QR Code to watch video, or type the following link to your browser: <https://youtu.be/ITbAeixVKdQ>

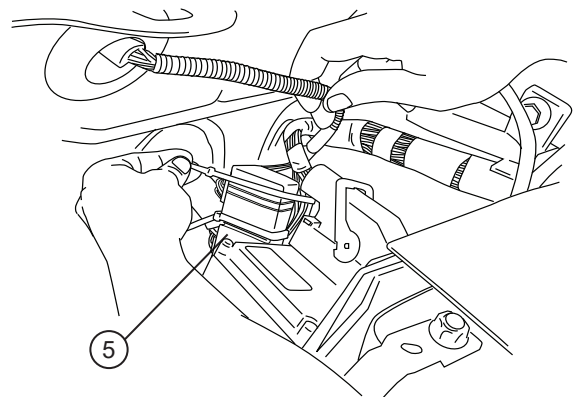


23

Prepare large tie-wraps for mounting Power Step Controller. Loosely loop tie-wraps around large bundle of wires behind battery in engine compartment.



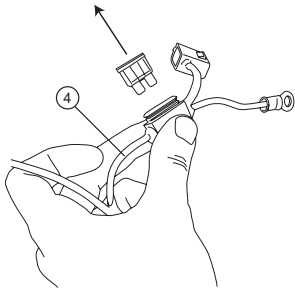
Insert controller into tie-wrap loops and cinch down securely. The tie-wraps should cinch down into channels on controller surface.



24

25

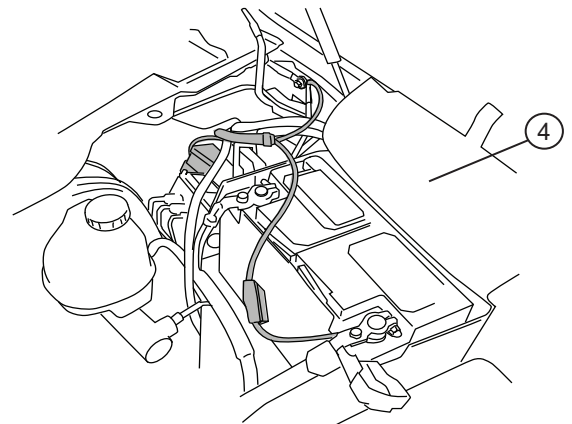
**Remove fuse from Power Step Wire Harness.**



26

Connect power leads from Controller, Red to positive battery terminal and Black to the vehicle body ground as shown.

**Note:** Do not connect Black ground wire to battery terminal! This can cause intermittent issues.



27

**Wiring to Door Ajar Wires: Important notes...**

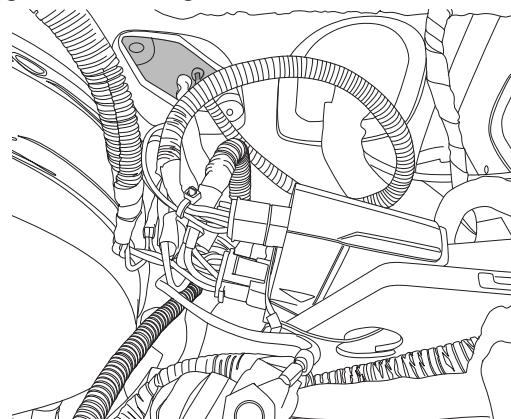
Wiring on 2013-2018 and 2019 Classic vehicles will follow steps 31-37. Wiring on 2009-2012 RAM 1500 and 2010-2012 RAM 2500/3500 vehicles will follow steps 38-43.

Factory Door Ajar Wire General Location		
Vehicle	2013-2018 RAM (all models) & 2019 Classic	2009-2012 RAM 1500 2010-2012 RAM 2500/3500
Location	Under dash on driver side, on white connector panel, located on three lower connectors.	Driver side front corner of engine compartment, on underside of fuse panel, located on a single connector.

28

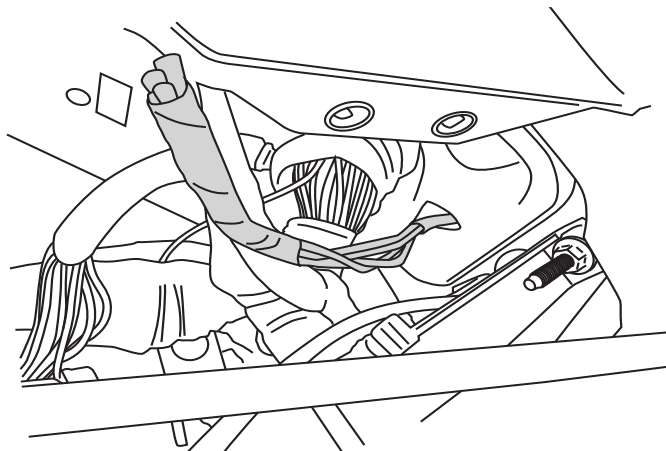
**Steps 31-35 are for 2013-18 RAM 1500/2500/3500 & '19 Classic models. Proceed to STEP 38 for all other models.**

Locate large rubber wire boot on driver side firewall as shown below. Slice small opening as shown below to run trigger wires through.



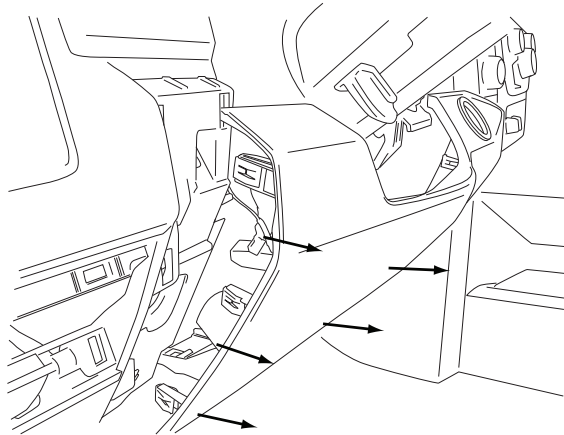
29

Tape leading end of wires together and push through rubber boot to cabin side of the firewall. Silicon lubricant may be used for ease of passage. The trigger wires will come out just above and to the left of the brake pedal.



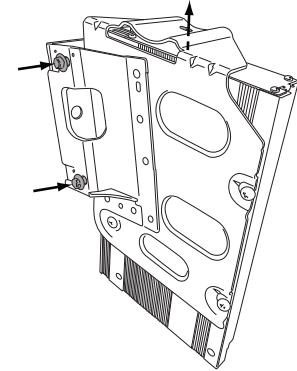
30

Remove panel below steering column to gain access to trigger wires.



31

To gain access to white connector panel against driverside firewall panel (inside cab of vehicle), just behind e-brake pedal, some vehicles will have a mounted component that will need to be removed. The component's bracket can be removed by the three fasteners indicated below.

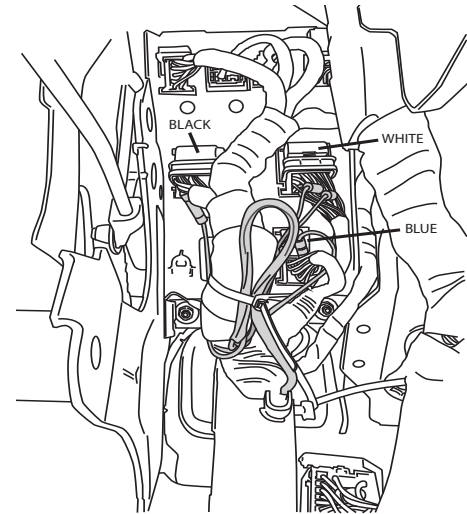


32

Locate white connector panel against driverside firewall panel, just behind e-brake pedal. Locate three connectors as shown below and connect Powerstep trigger wires as indicated in the chart.

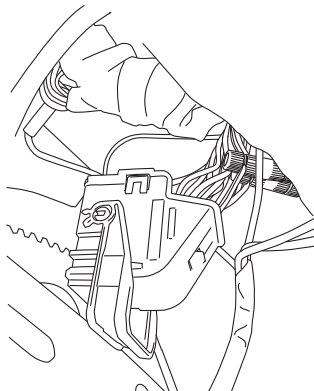
Door Ajar Wire	Wire Color/Stripe Color	Connector Color
Driver Front	Violet	White
Pass. Front	Violet/White	White
Driver Rear	Violet/Gray	Blue
Pass. Rear	Violet/Yellow	Black

NOTE: There may be two Violet/Gray wires, but only one will allow steps to trigger with driver rear door.



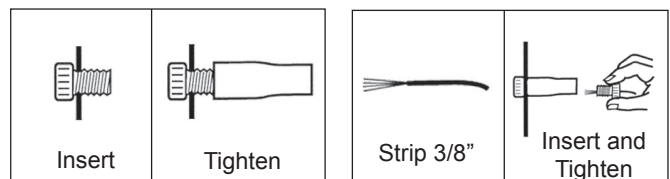
33 **NOTE: Plug reassembly is critical. Lever Arm of plug must be rotated completely locked in the open position to engage properly!**

When replacing lever arm plugs ensure lever is in the opened locked position. If lever is not in the fully opened position pins will not engage and components on the vehicle such as (radio, dash and power windows) will not operate.



34

Splice Power Step trigger wires into the Door Ajar wires with provided Posi-Tap™ splicers (13). The Power Step trigger wires color coordinate with the factory Door Ajar wires. Follow the steps below to correctly splice wires.



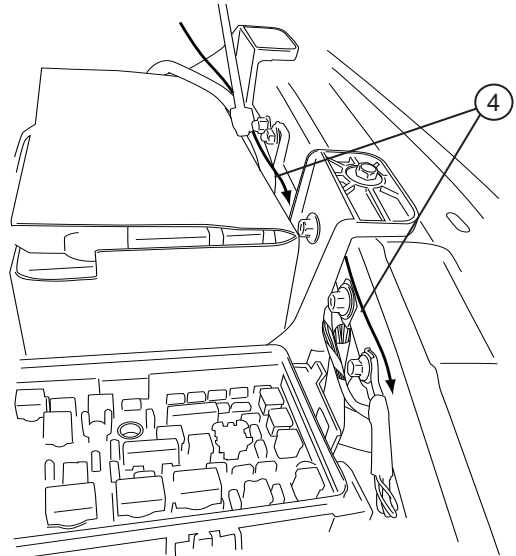
2013 vehicles proceed to STEP 44 after completing this step.

35



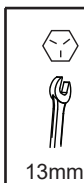
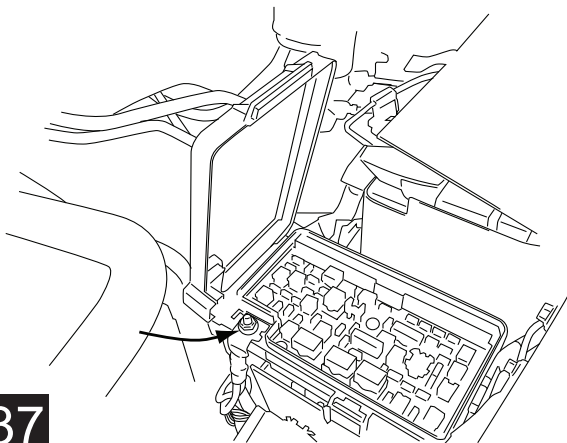
Steps 38-43 are for 2009-2012 RAM 1500 and 2010-2012 RAM 2500/3500.

Route the trigger wires of Power Step Harness (Purple wires) down toward the fuse box located in front of the battery.



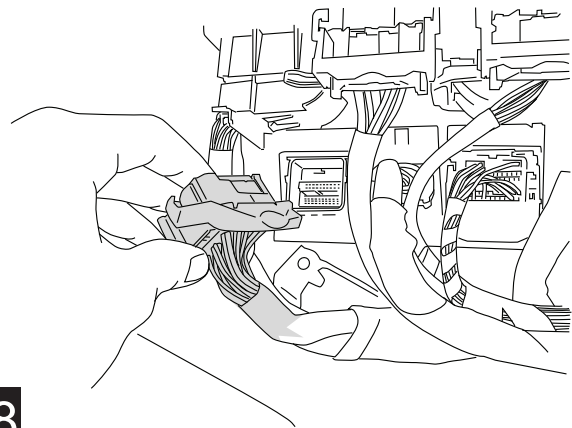
36

Remove fuse box lid and fuse box power lead with 13mm wrench. While depressing release tabs, lift fuse box to view bottom side.



37

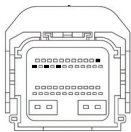
Locate and remove Black Connector with Gray latch on bottom side of fuse box (labeled "G" where connected to fuse box).



38

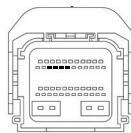
Locate the vehicle's Door Ajar Switch wires on the removed connector as indicated in chart and diagram below according to vehicle model year.

Model Year  
2011- 2012



CAVITY	COLOR	FUNCTION
11	VIOLET	DRIVER DOOR AJAR SWITCH SENSE
12	VIOLET / WHITE	PASSENGER DOOR AJAR SWITCH SENSE
16	VIOLET / GRAY	LEFT REAR DOOR AJAR SWITCH SENSE
14	VIOLET / YELLOW	RIGHT REAR DOOR AJAR SWITCH SENSE

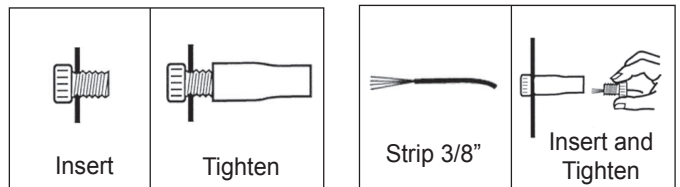
Model Year  
2009- 2010



CAVITY	COLOR	FUNCTION
14	VIOLET	DRIVER DOOR AJAR SWITCH SENSE
15	VIOLET / WHITE	PASSENGER DOOR AJAR SWITCH SENSE
16	VIOLET / GRAY	LEFT REAR DOOR AJAR SWITCH SENSE
17	VIOLET / YELLOW	RIGHT REAR DOOR AJAR SWITCH SENSE

39

Splice Power Step trigger wires into the Door Ajar wires with provided Posi-Tap™ splicers. The Power Step trigger wires color coordinate with the factory Door Ajar wires. Follow the steps below to correctly splice wires.

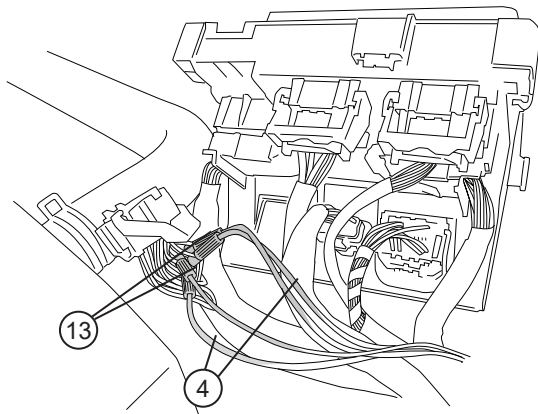


40



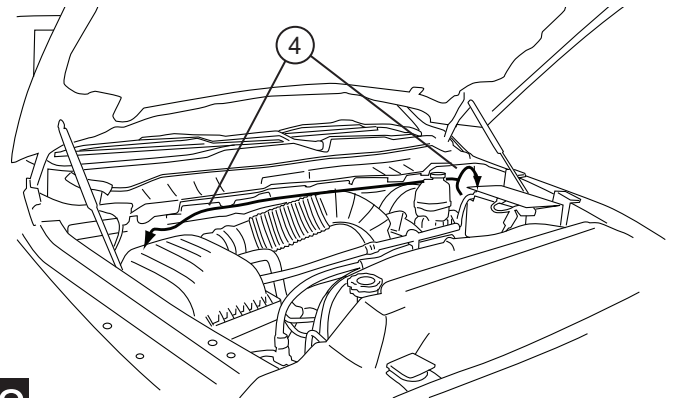
AMP RESEARCH POWERSTEP™ – DODGE RAM

With Posi-Taps securely in place, carefully replace connector and drop wire bundles and fuse box back into place. Reattach fuse box power lead that was removed in previous step.



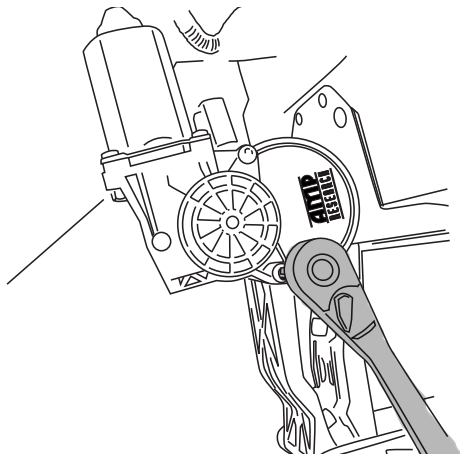
41

Route the two Wire Harness legs down over the wheel wells toward Motor Linkages, long leg across to the passenger side. Secure harness with tie wraps.



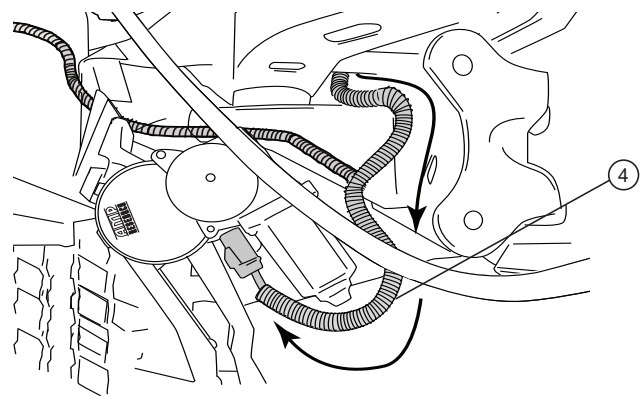
42

Using a 4mm hex key torque bolts to 36 in-lbs. See page 2 for motor installation instructions.



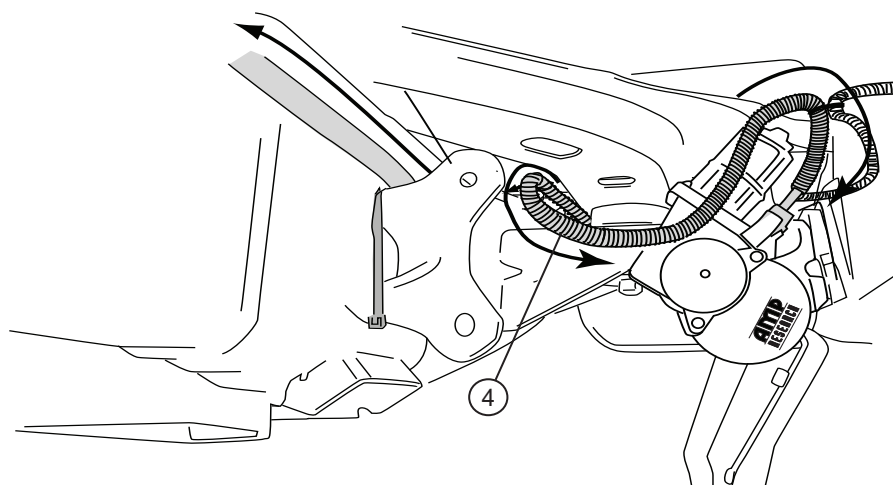
43

On driver side, run Wire Harness leg down and along underside of the vehicle floor and frame to front Drive Linkage. Connect harness to motor and secure harness with tie wraps. Route remainder of wire harness towards rear linkage assembly for LED lights.



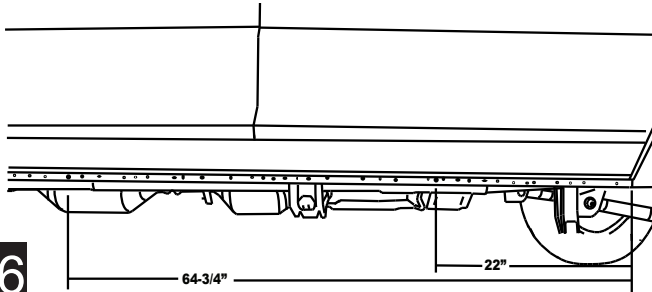
44

On Passenger Side, run Wire Harness leg down and along underside of the vehicle floor and frame to front Drive Linkage. Connect harness to motor and secure harness with tie wraps. Route remainder of wire harness towards rear linkage assembly for LED lights



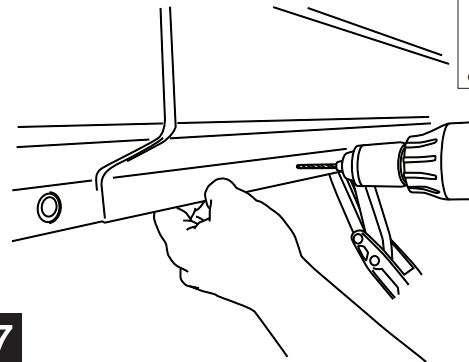
45

On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 22" for the front LED Light and 64-3/4" for the rear LED Light. **Note for Quad cabs mount lights at 22" and 54" for Regular cabs mount lights at 10" and 45".**



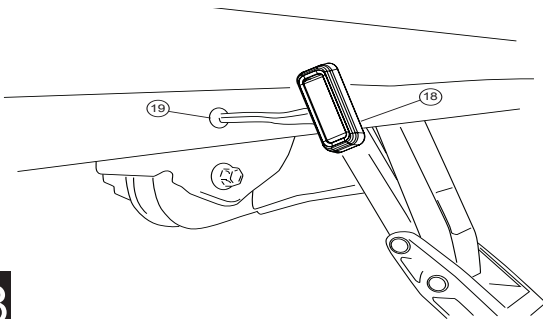
46

Drill a 9/32" hole through the pinch weld at marked locations. Deburr all holes. After drilling apply paint to holes to prevent rusting



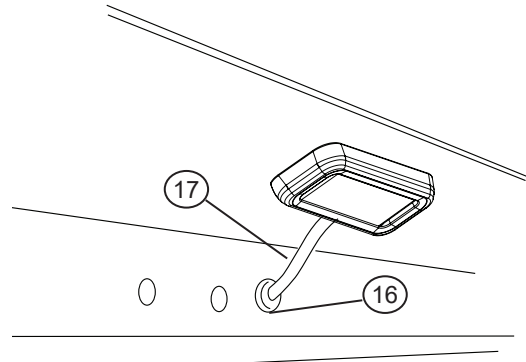
47

Insert grommet into drilled holes. Insert lamp wires through the grommets. (Silicon lube will help wires slip through grommets.)



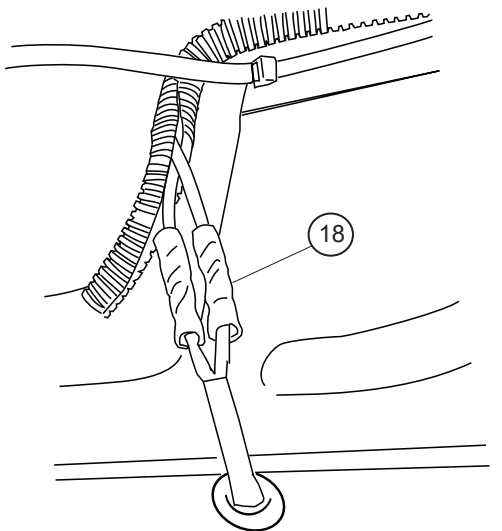
48

Affix lamp to rocker panel surface. Make sure lamp is affixed to a flat, clean surface.



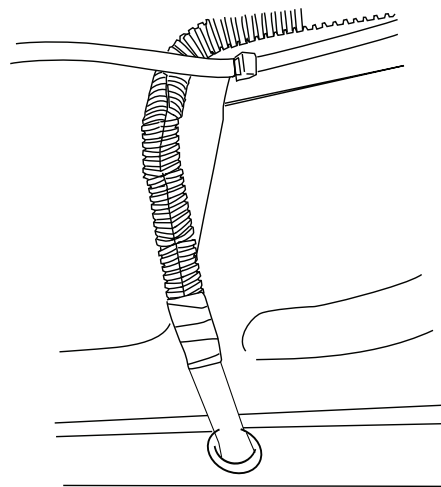
49

Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube.



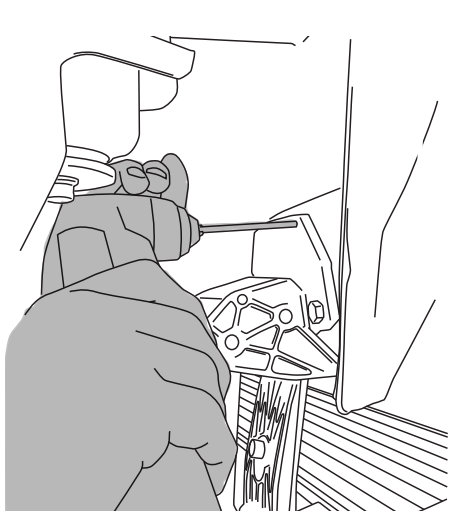
50

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.

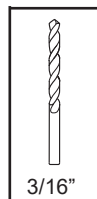
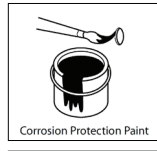


51

With linkage resting square on the hex bolts Using a 3/16" Drill bit, drill both upper holes in linkage through sheetmetal. After drilling apply paint to holes to prevent rusting.

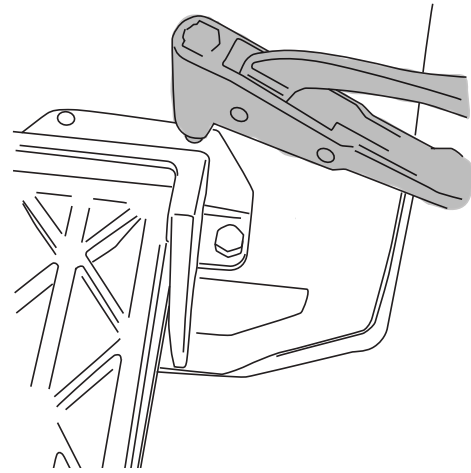


52

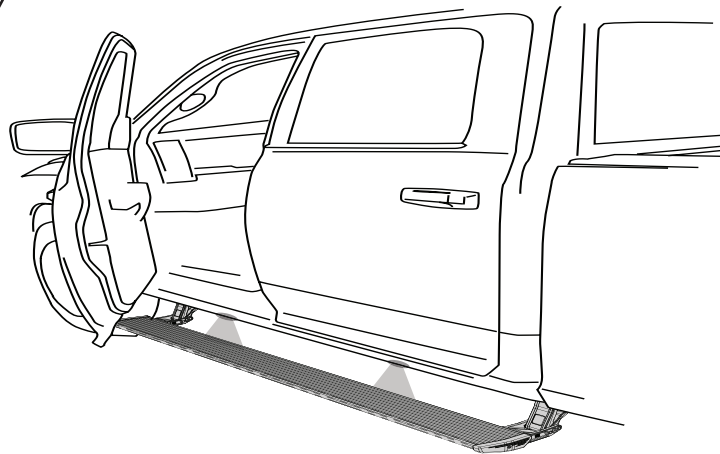
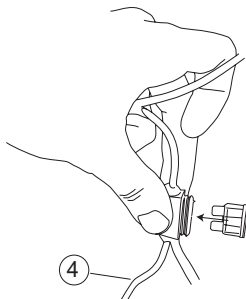


53

Using a Rivet Gun install rivets.



Reinstall fuse to Powerstep harness. 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 reilluminated by closing and opening any door of vehicle.

54

# **AMP** **RESEARCH** **Power Step**™

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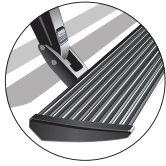
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Rev 01.05.21



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.

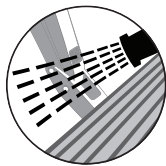
**Automatic stop:**

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.

### 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 TECH SUPPORT 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.



The material that your product is made from can be recycled.  
Please also consider recycling the packaging that your product came in.

