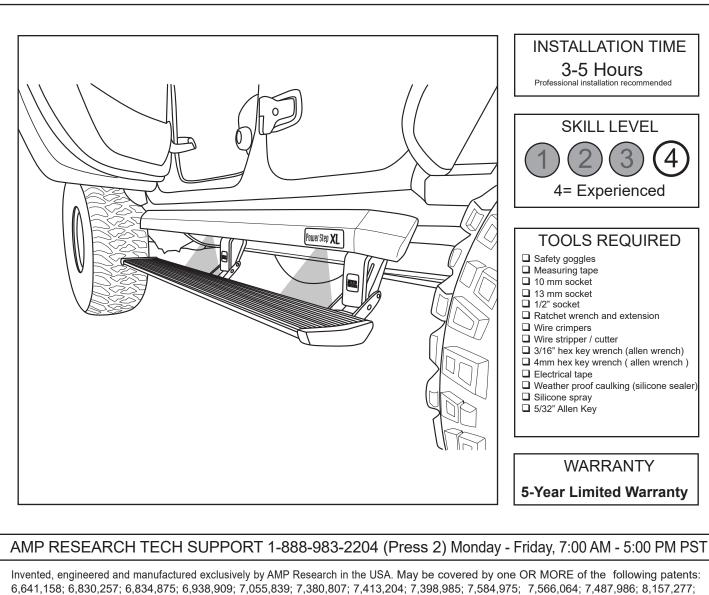
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APPLICATION

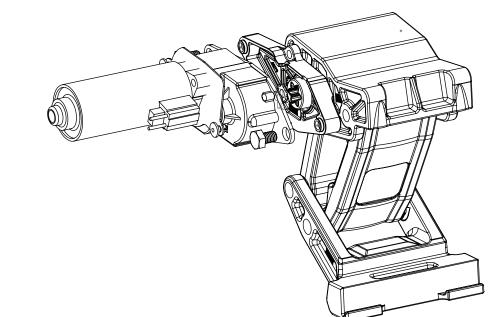
Jeep Wrangler JL 4Dr (For Gas and Diesel models) 2018 - 2021

AMP Part #

77132-01A



8,408,571; 9,302,626; 9,561,751; 10,053,017; CA2463717 ©2012 AMP Research. All rights reserved. Printed in USA.



EXPLODED VIEW

- Motor
- Hex Head Bolt

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.

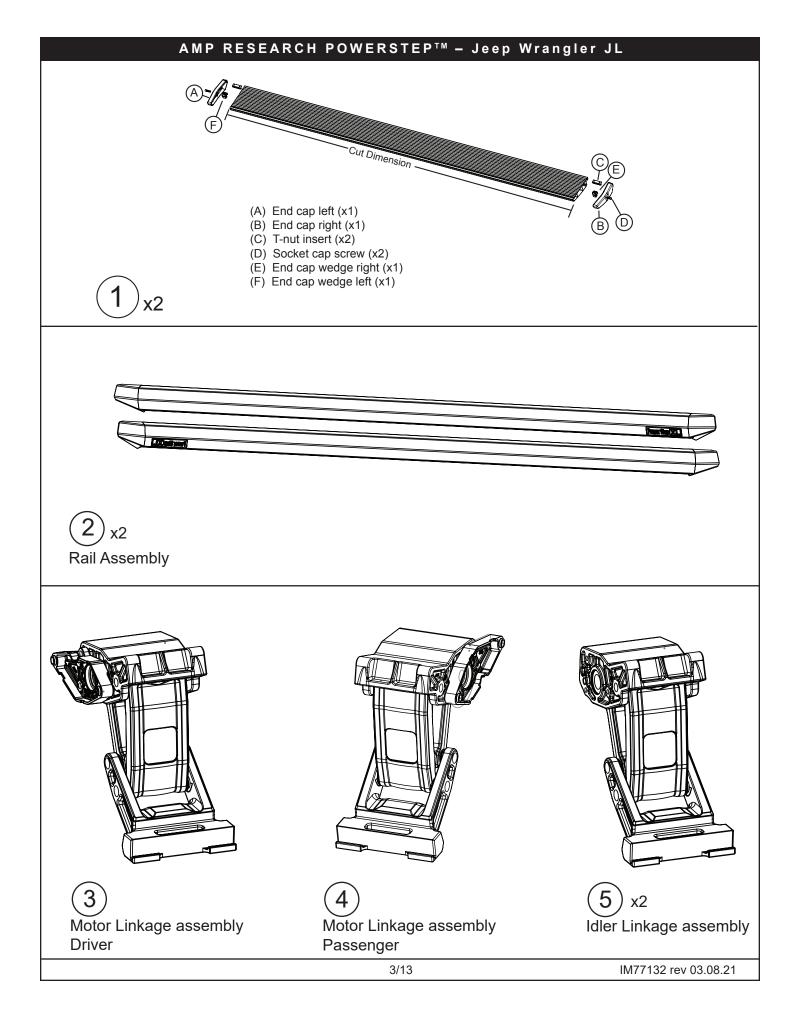
CAUTION: Dropping the assembly or any excessive impact MAY cause damage to the motor.

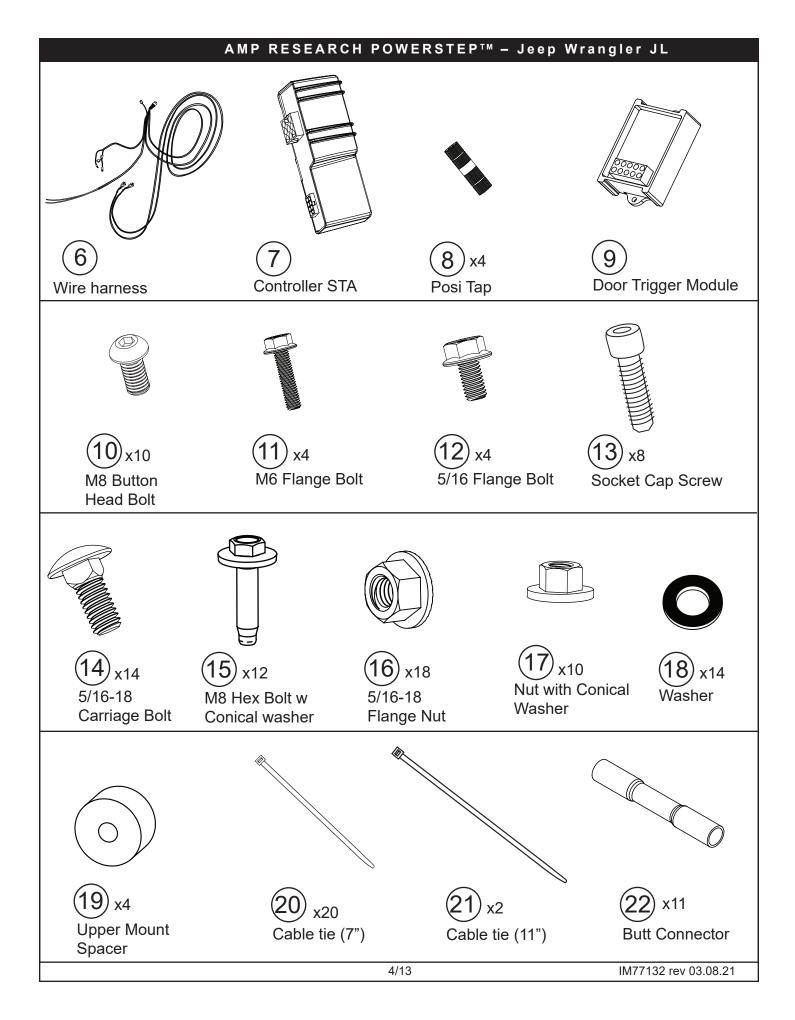
Instructions:

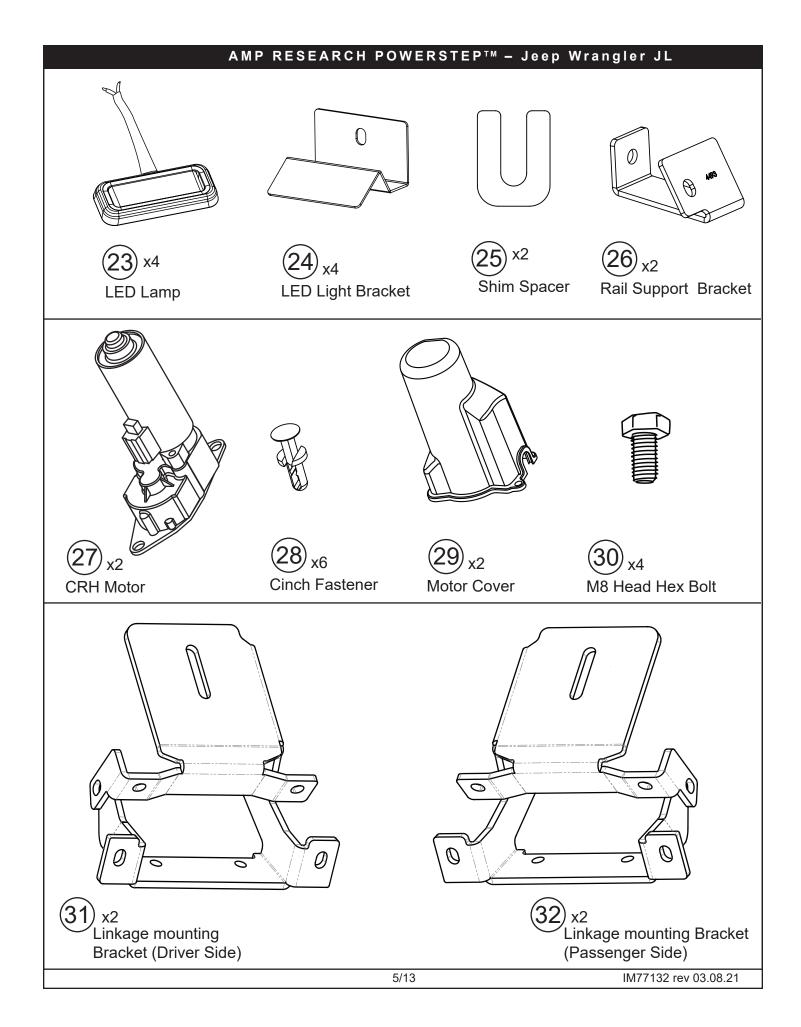
1. Position the gear cover in place as shown if not already in place.

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

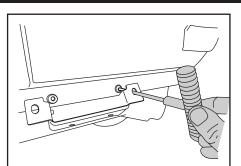
3. After seating into place, fasten the motor with the three motor mount screws with 4mm Hex Head. Tighten screws to 36 in-lbs (4N-m). **Do not over torque.**

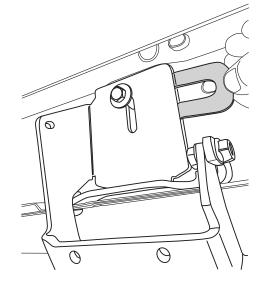






Assemble brackets onto vehicle. Use provided button head bolts (10) and washers (#18) at pinch weld with conical washer nuts (17) at pinch weld. Assemble hardware loosely. Next use provided M8 Hex bolts (15) to attach bracket to underside of body. On front mount assemble shim (25) between floor mount and bracket as shown. Use Driver Side brackets (31) on driver side. Mirror for passenger side. See page 5 for bracket labeling.

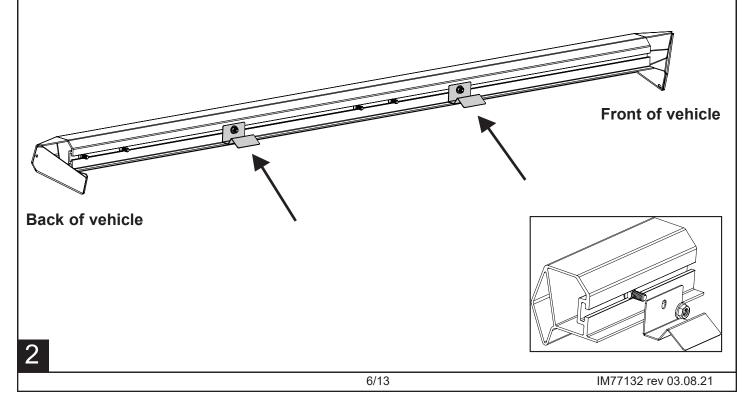




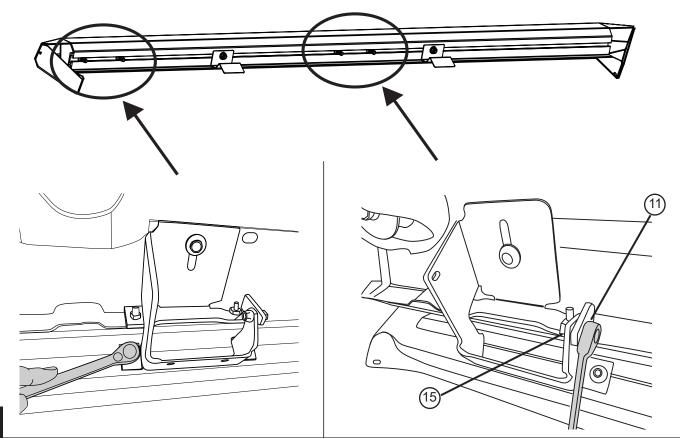
Front Mounting Bracket

Rear Mounting Bracket

Slide 6 carriage bolts (14) into rail pocket of driver side rail. Add Light Bracket (24) to the 1st and 4th bolt counting from the front side. Insert Flange Nut (16) onto bracket tab to attach light brackets into position shown. Leave loose to allow for adjustment.



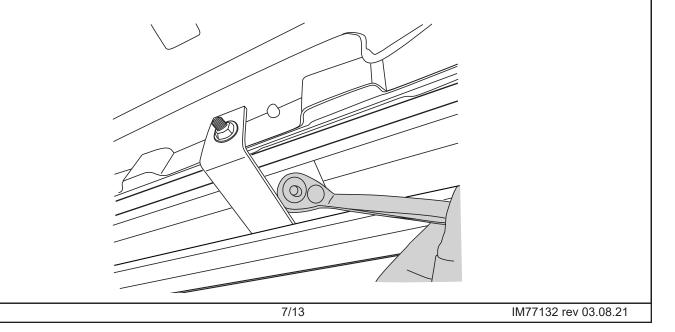
Adjust bolts and slide over brackets. Use supplied flange nuts and attach rail to brackets. Center rail between body rocker and torque 4 flange nuts to 16 ft-lbs. Assemble Flange bolt (12) with nut (#16) thru support tab on bracket as shown. Torque to 16ft-lbs. Leave loose to allow for adjustment.

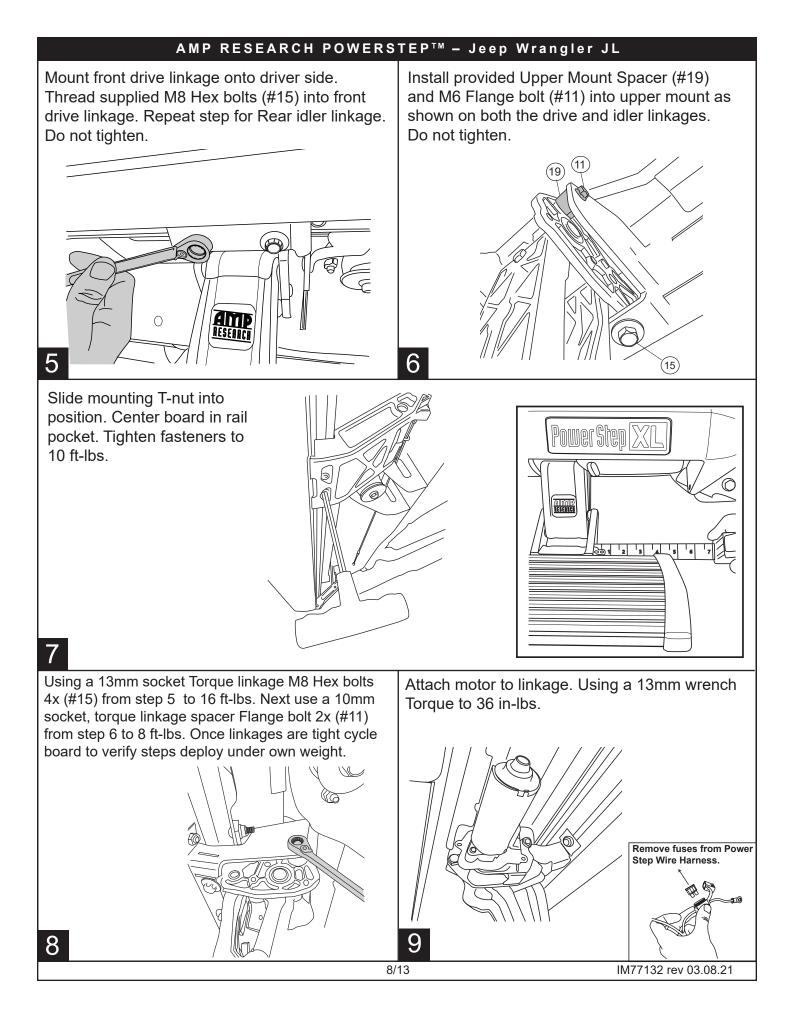


3

4

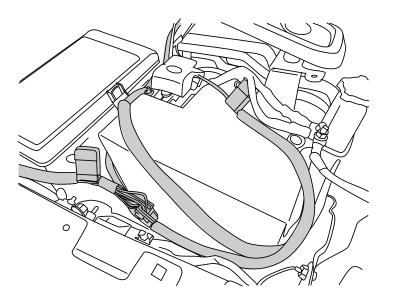
Attach front support bracket (26) by inserting carriage bolt (14) into rail and using supplied button head bolt (10), washer (18) and captive washer nut (17) to pinch weld. Torque bolts to 16ft-lbs.





Gas Models follow steps 10 and 11 then go to step 14. Diesel models go to step 12.

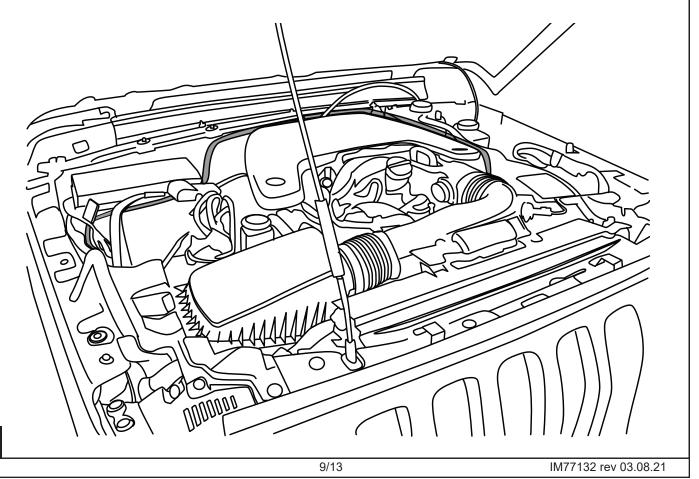
GAS MODELS ONLY: Prepare large tie-wraps (21) for mounting Power Step Controller (7). Loosely loop tie-wraps around large bundle of wires behind battery in engine compartment. Insert controller into tie-wrap loops and cinch down securely. The tie-wraps should cinch down into channels on controller surface. Connect power leads from Controller, Red to positive battery terminal and Black to the vehicle body ground as shown.



10

11

GAS MODELS ONLY: Route the two Wire Harness legs down over the wheel wells toward Motor Linkages, long leg across to the driver side. Secure harness with tie wraps(20).



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Diesel models follow steps 12 and 13. Gas models go to step 14.

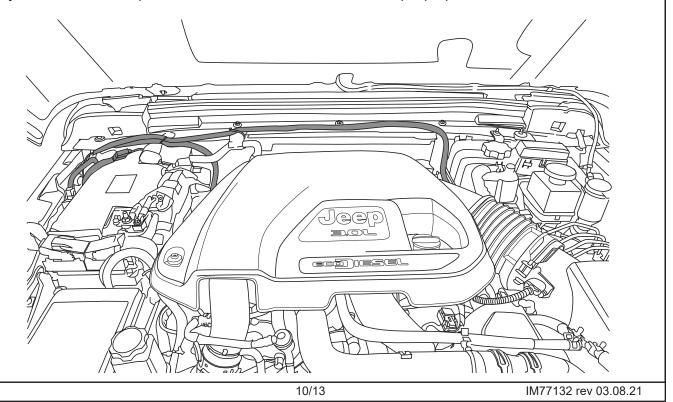
DIESEL MODELS ONLY: Remove fuses from Power Step Wire Harness. Prepare large tie-wraps(21) for mounting Power Step Controller (7). Loosely loop tie-wraps around large bundle of wires behind battery in engine compartment. Insert controller into tie-wrap loops and cinch down securely. The tie-wraps should cinch down into channels on controller surface. Connect power leads from Controller, Red to positive battery terminal and Black to the vehicle body ground as shown.

12

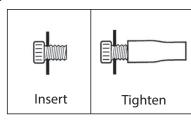
13

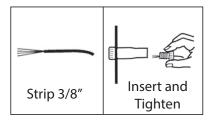
DIESEL MODELS ONLY: Route longer harness Leg across to driver side . Secure harness to cowl with tie wraps (20) to keep harness away from hot engine components. Next route harness under Coolant recovery tank then down and to the outside of the frame rails. Route shorter harness leg down the passenger side ensuring the harness is run to the outside of the frame rails and away from any hot exhaust components. Secure harness with tie wraps (20).

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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.



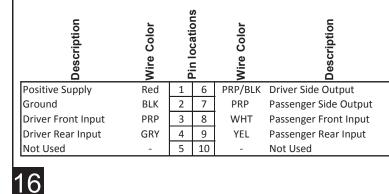


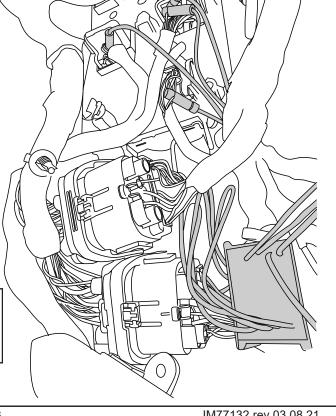
14

Remove sill plate cover. Remove grommet under floor and route trigger wires and power wire thru grommet.



Mount door trigger module to wire harness in kick panel area. Using a 10mm socket remove ground lug and connect ground to body. Using supplied butt connectors connect red wire on harness to red wire (Pin1)on module. Next connect Purple with black stripe wire on harness to purple with black stripe from module (pin 6). Lastly connect Purple from harness to purple on module (Pin 7). See next step for trigger wire assembly.





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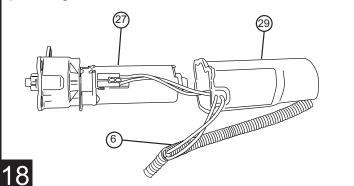
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Locate the white connector panel against passenger side kick panel area. Locate three connectors as shown below (the wires wrapped in black tape) and connect powerstep trigger wires wrapped in black tape as indicated in the chart. Match pin locations called out in previous step. *Note: 2018-2019 model years and 2020-2021 model years vary.*

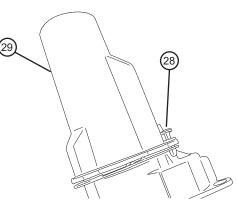
Door Ajar Wire	Vehicle Wire Color/Stripe Color	Pin location on Door Trigger Module	2018-2019 Module Year Connector color	2020-2021 Module Year Connector color
Driver Front	Violet	3	White	White
Pass. Front	Violet/White	8	Blue	Blue
Driver Rear	Violet/Grey	4	White	White
Pass. Rear	Violet/Yellow	9	Black	White

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

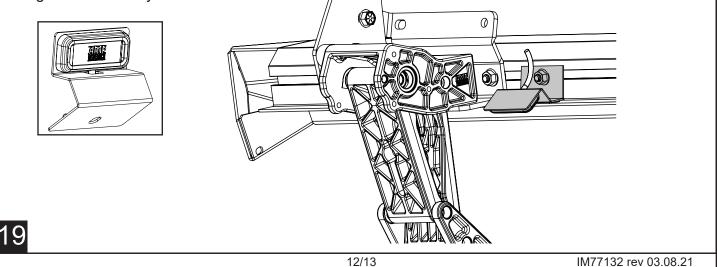
On driver side, run Wire Harness leg down and along underside of the vehicle floor and frame to front Drive Linkage. Connect harness to motor and secure harness with tie wraps. Route remainder of wire harness towards rear linkage assembly for LED lights. Repeat step on passenger side.



17

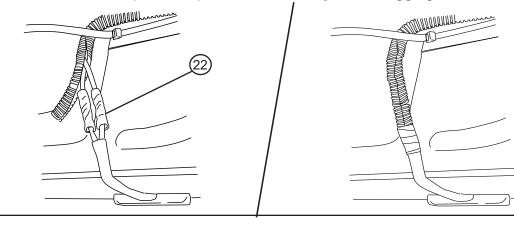


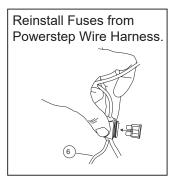
Affix LED lamp (#23) to Light bracket (#24) on rail. Slide bracket into desired position and tighten using 5/32" Allen key.



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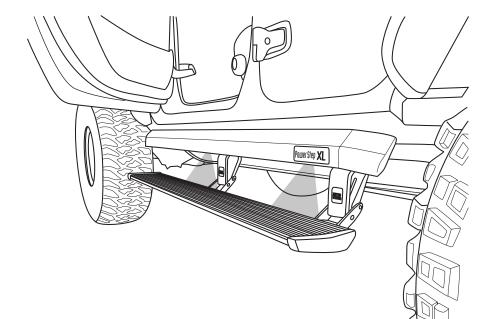
Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube. Close and wrap conduit with electrical tape. Secure all loose wires with cable ties. Pull lamp wires upward to avoid any wire snagging.





20

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.

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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.



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

