



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.**







Install Front linkage mounting bracket #28 (part# 4407 Front) using supplied Conical Washer bolts #10. Use second set of mounting holes from front. Do not tighten to allow for adjustment. Take note of bracket orientation.

Driver side shown.

1

Install Rear linkage mounting bracket #27 (part # 4160L Rear) using supplied Conical Washer bolts #10. Use last set of mounting holes. Do not tighten to allow for adjustment. Take note of bracket orientation.

Driver side shown.

Install Rail support bracket #25 (part #4549) using supplied conical washer assembly in middle mounting position on body. Use supplied conical washer bolts #10. Do not tighten to allow for adjustment.



3

2



(O)

Ĉ

8

Install 5 Carriage Bolts #13 into rail. Align bolts with bracket and use supplied Flange nuts #18 to attach Rail to brackets. Do not tighten to allow for adjustment. Insert Threaded nut plate onto rail pocket. Light brackets will need to go rearward of Front linkage bracket and forward of Rear linkage bracket. Leave loose to allow for adjustment.





Δ

Slide rail into position as show. Torque bolts from step 3-5 to 16ft-lbs. Next torque flange nuts that attach rail to brackets to 16ft-lbs.



On Driver side mount Front drive linkage and rear idler linkage. Thread supplied Conical washer bolts #10 into linkages. Install provided spacer #19 and M6 flange bolt #17 into upper mount as shown on both Drive and Idler linkages. Do not tighten.



Using a 13 mm socket torque linkage bolts to 16ft-lbs. Next use a 10mm socket torque linkage spacer bolt #19 to 8 ft-lbs. Once linkages are tight cycle board to verify steps deploy under own weight and clear rail endcaps.





Slide mounting T-nut into position. Center Board in rail pocket. Tighten fasteners to 10ft-lb.





13



Locate the 22 pin connector at the bottom of the passenger side kick panel area. See pin connector locations for corresponding model years.

(07-13 Model yrs) plug color Grey Pin 1(Passenger Rear) wire color will be Blue and pin 9 (Passenger Front) wire will be White. (2014-17 Model yrs) plug color white Pin 3 (Passenger Rear) wire color will be Tan and pin 10 (Passenger Front) wire will be Green. (2018 Model yrs) plug color white Pin 3 (Passenger Rear) wire color will be Tan and pin 22 (Passenger Front) wire will be Green.



Affix LED lamp (20) to LED Bracket (21) as shown..

Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped

27

26

Affix LED light bracket assembly to rail. Mount front light rearward of front linkage and mount rear light just forward of rear linkage.



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.



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.

атр Reserrch 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.

Looking for dependable running boards and step bars? Rely on AMP Research for quality and long-lasting products.