

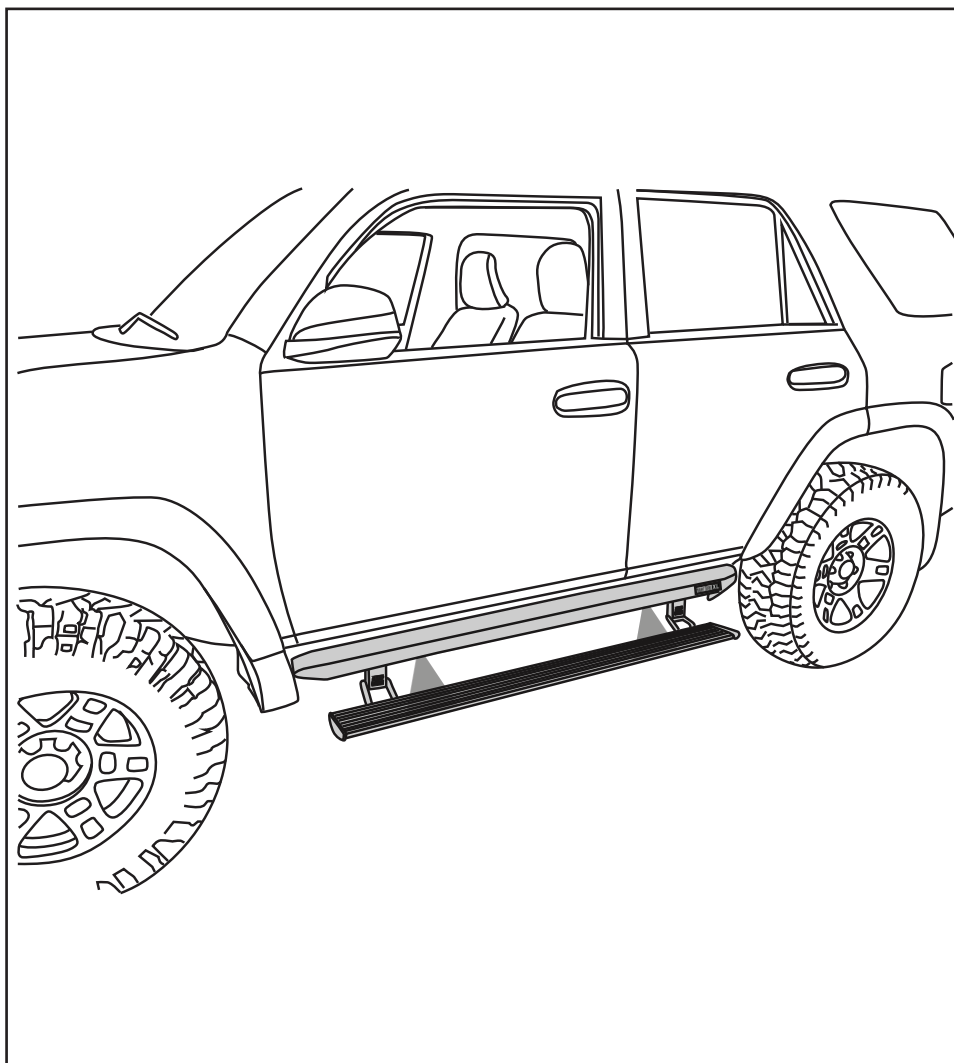
APPLICATION
Toyota 4Runner

MODEL YR
2010 - 2024

PART #
77155-01A

Not compatible with Limited or Nightshade

INSTALLATION GUIDE



INSTALLATION TIME

3-5 Hours

Professional installation recommended

SKILL LEVEL



4= Experienced

TOOLS REQUIRED

- ☐ Safety goggles
- ☐ Measuring tape
- ☐ 10 mm socket
- ☐ 10 mm ratchet wrench
- ☐ 13 mm ratchet wrench
- ☐ 15 mm ratchet wrench
- ☐ Ratchet wrench and extension
- ☐ Pliers
- ☐ Wire crimpers
- ☐ Wire stripper / cutter
- ☐ 3/16" H ex key wrench (allen wrench)
- ☐ Electrical tape
- ☐ Weather proof caulking (silicone sealer)
- ☐ 1/8" Drill bit
- ☐ 9/32" Drill bit
- ☐ Drill
- ☐ Heat Gun
- ☐ 6" Extension
- ☐ Torx T-25 Driver

WARRANTY

5-Year Limited Warranty

REALTRUCK TECH SUPPORT 1-888-983-2204 (Press 2) Monday - Friday, 8:00 AM - 5:00 PM EST

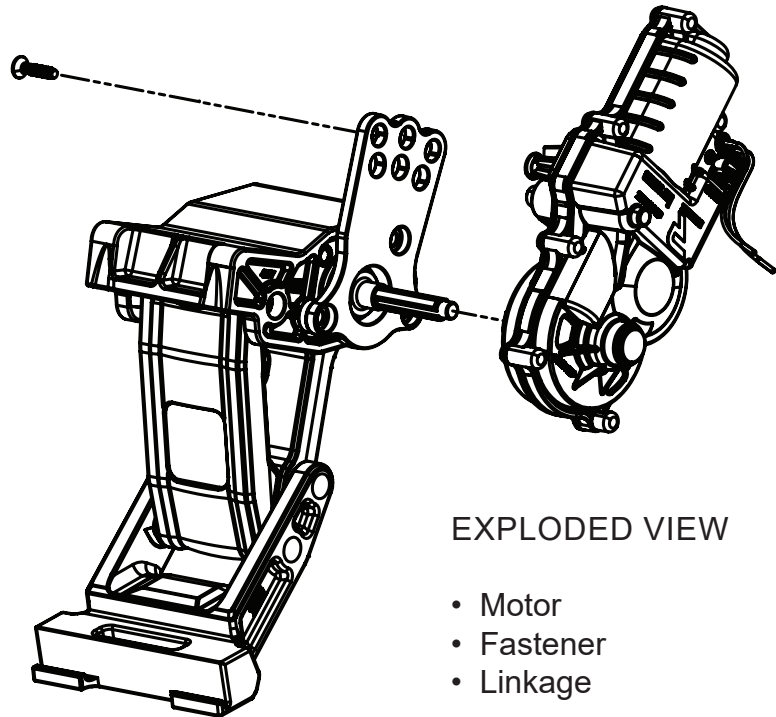
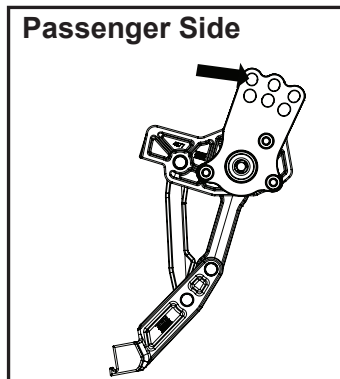
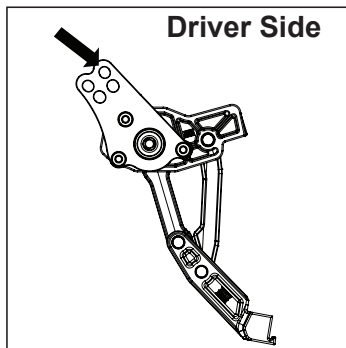
Designed and manufactured by RealTruck AMP Research® • Made in Mexico
Patent Protected. Please see our product site for applicable patents. www.realtruck.com/b/amp-research/
© RealTruck Group, Inc., 2026 • Five-year limited warranty. • Professional installation is recommended.

INSTALLATION GUIDE

Attaching motor to Linkage assembly

The motors must be attached to the Linkage assemblies before mounting to vehicle.

Motor Install Orientation



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. Slide motor on to drive shaft.
2. Rotate motor by hand while on the shaft to position it to the mounting plate (orientation as shown above).
3. Fasten motor to the motor mounting plate using supplied PT Screw with T-25 Torx driver. Tighten screw to 60 in-lbs (6.8 N·m). **Do not over torque.**

Note:

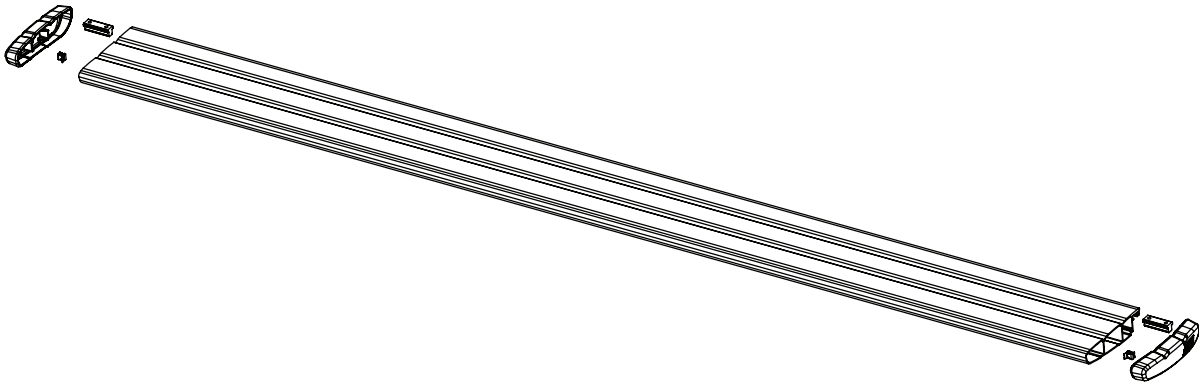
The motor and shaft have only three possible positions. Depending on the current position of the motor, motor/shaft and the orientation of the motor plate, it may be necessary to power it in order to align it correctly with the linkage and shaft during assembly so that the motor can be mounted to the mounting plate.

To do this:

1. Power up the motor.
2. Open the door to allow the motor to spin and reposition.
3. Once the motor times out, remove the fuse.
4. Assemble the motor onto the shaft.
5. Fasten motor to mounting plate.

This process may need to be repeated to achieve the correct alignment.

PARTS LIST AND HARDWARE IDENTIFICATION



1 x2

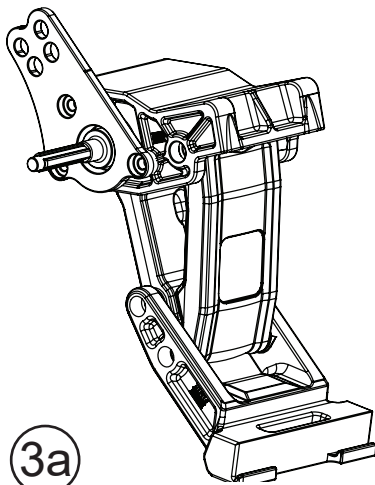
Runningboard board assembly

- (A) Endcap left (x1)
- (B) End cap right (x1)
- (C) T-nut insert (x2)
- (D) S-clip (x2)



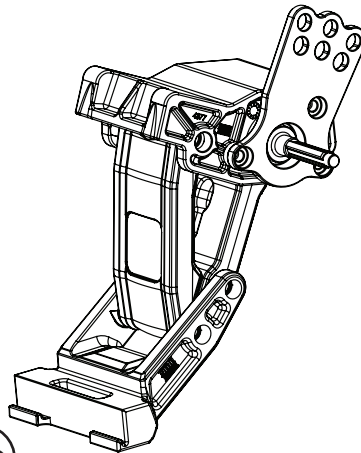
2 x2

Rail Assembly



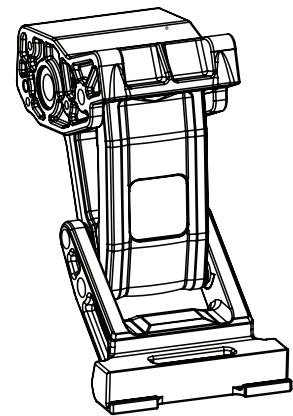
3a

Motor Linkage assembly
Driver



3b

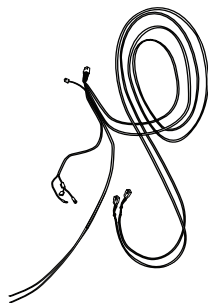
Motor Linkage assembly
Passenger



4 x2

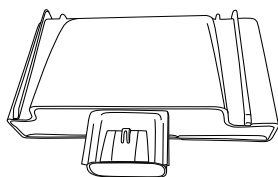
Idler linkage assembly

PARTS LIST AND HARDWARE IDENTIFICATION



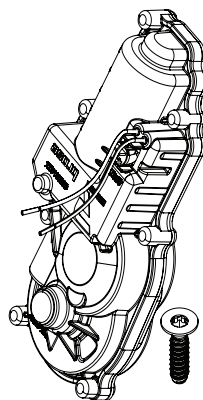
5

Wire harness



6

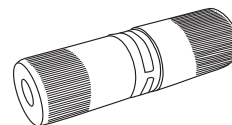
Controller SSA



7

x2

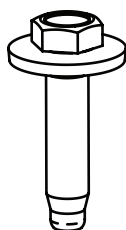
Motor Assembly kit



8

x4

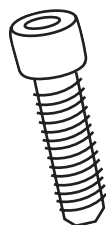
Posi-Tite®



9

x20

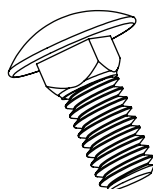
M8 Hex Bolt w
Conical washer



10

x8

Socket Cap
Screw



11

x14

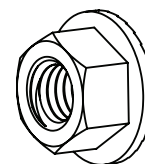
5/16-18
Carriage Bolt



12

x4

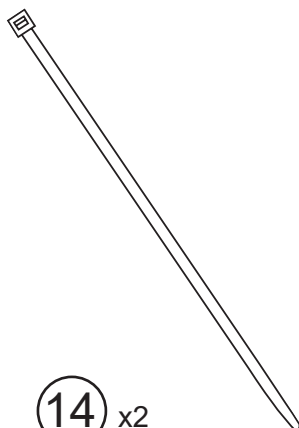
M6 Flange Bolt



13

x14

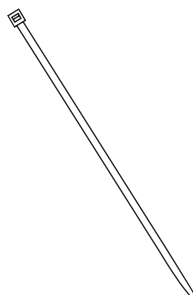
5/16-18
Flange Nut



14

x2

Cable tie (11'')



15

x20

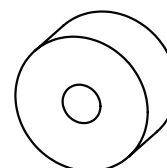
Cable tie (7'')



16

x4

Posi-Tap™

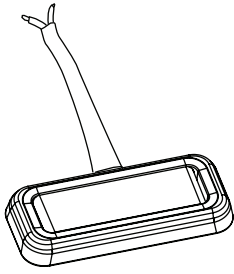


17

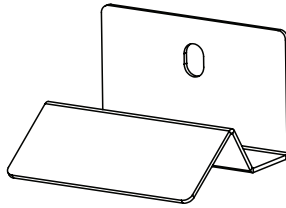
x4

Upper Mount
Spacer

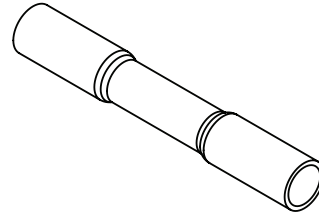
PARTS LIST AND HARDWARE IDENTIFICATION



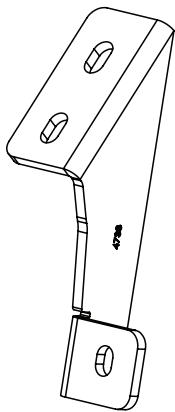
18 x4
LED Lamp



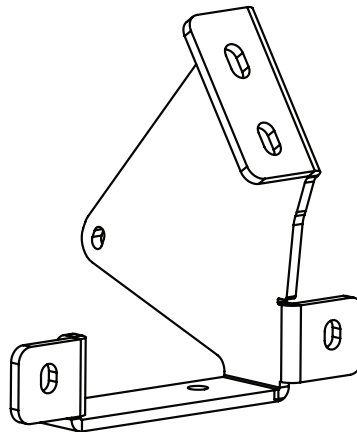
19 x4
LED Light Bracket



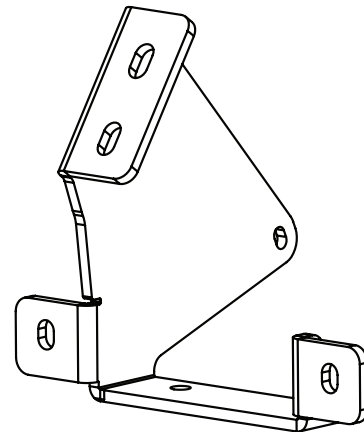
20 x8
Butt Connector



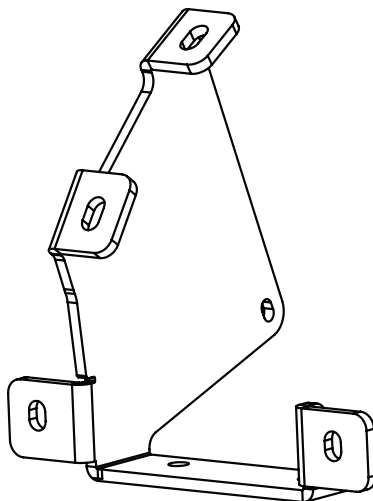
21 x2
Rail Support
Bracket # 4738



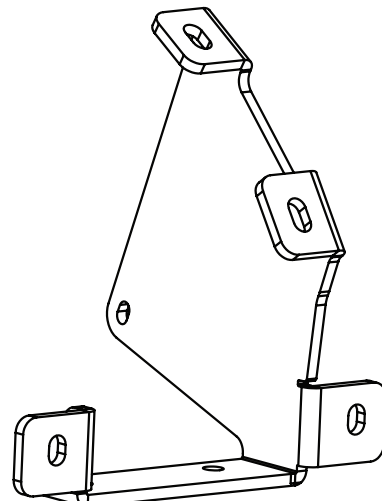
22
Rear driver mounting
bracket #4737-11



23
Rear passenger mounting
bracket #4737-12



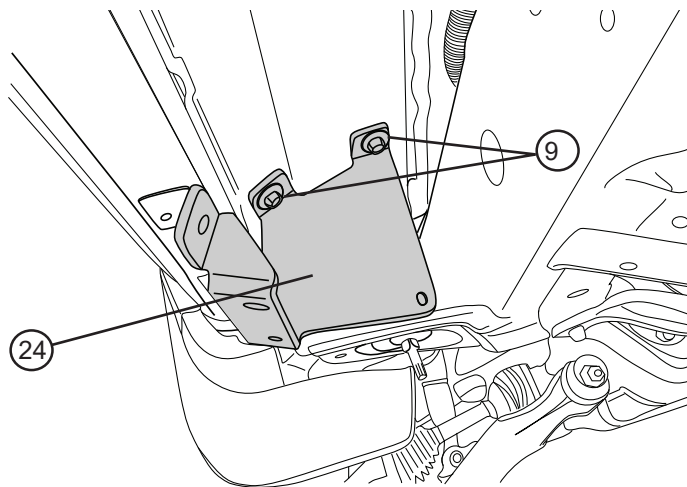
24
Front driver mounting
bracket # 4736-11



25
Front passenger mounting
bracket #4736-12

Install Front linkage mounting bracket using supplied Conical Washer bolts (9). Use first set of mounting holes from front. Do not tighten to allow for adjustment. Take note of bracket orientation.

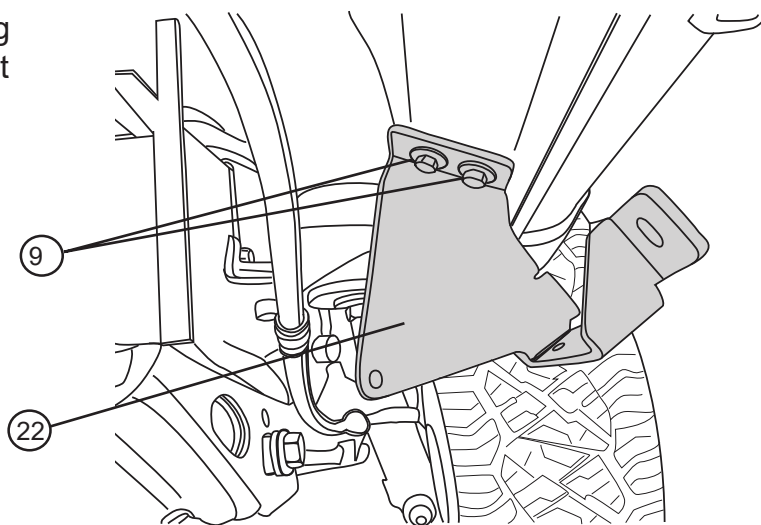
Driver side shown.



1

Install Rear linkage mounting bracket using supplied Conical Washer bolts (9). Use last set of mounting holes. Do not tighten to allow for adjustment. Take note of bracket orientation.

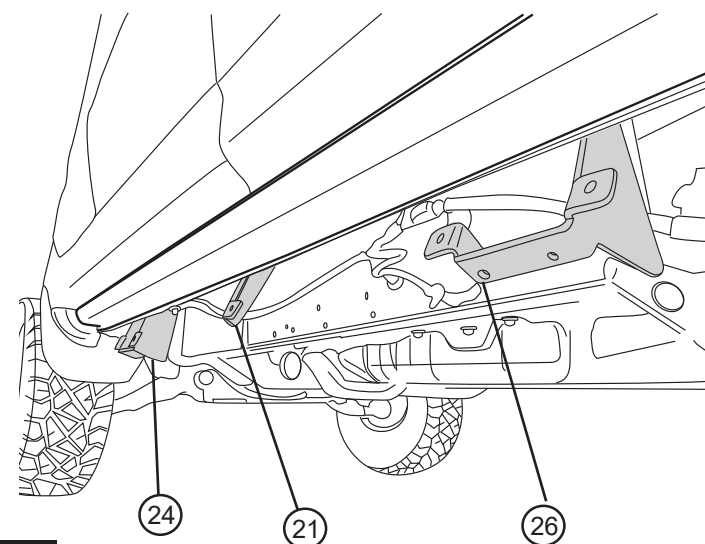
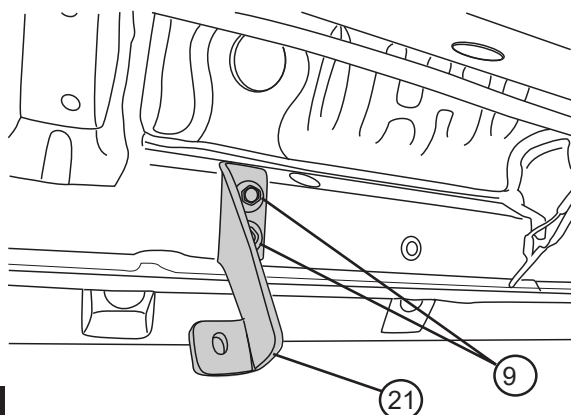
Driver side shown.



2

Install Rail support bracket using supplied conical washer assembly in middle mounting position on body. Use supplied conical washer bolts (9). Do not tighten to allow for adjustment.

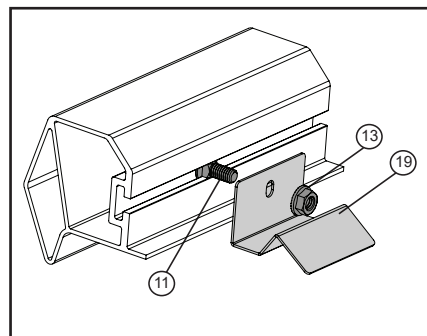
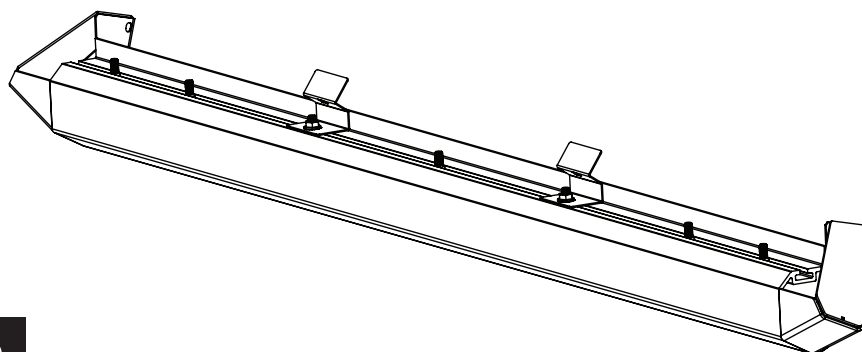
Driver Side Shown.



3

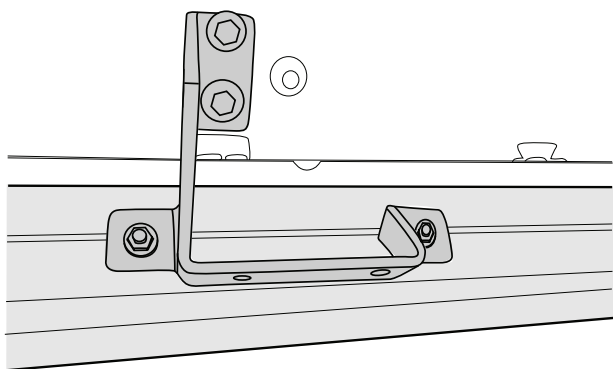
4

Install 7 Carriage Bolts (11) into rail (2). Add light brackets (19) on 3rd and 5th bolts, use Flange Nut (13) to attach. Leave loose to allow for adjustment.



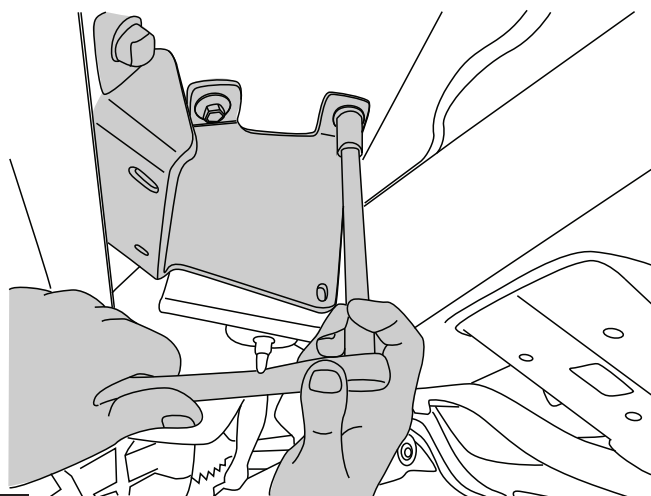
5

Align bolts (11) with bracket and use supplied Flange nuts (13) to attach Rail to brackets. Do not tighten to allow for adjustment.



6

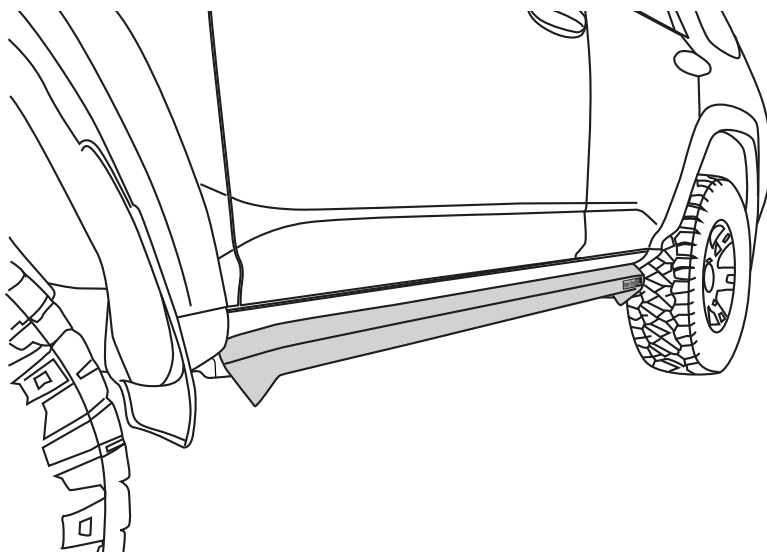
Torque bolts from step 1-3 to 16ft-lbs.



7

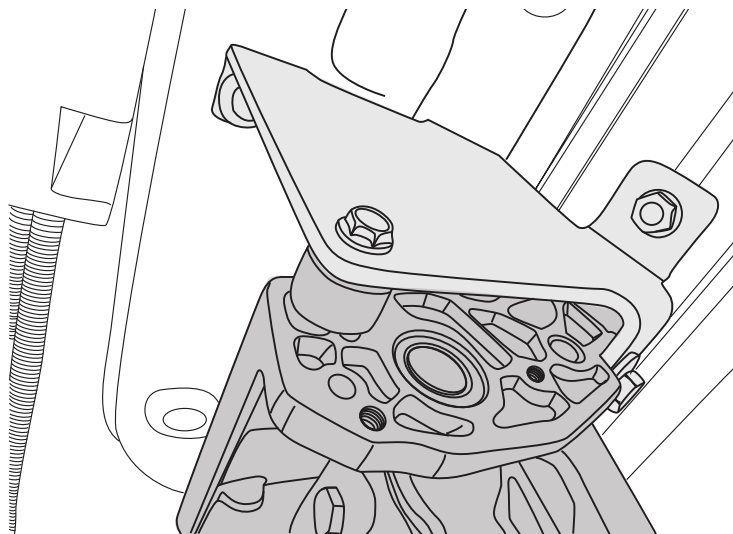
Slide rail into position as shown. Torque flange nuts that attach rail to brackets to 16ft-lbs.

Repeat on Passenger side.



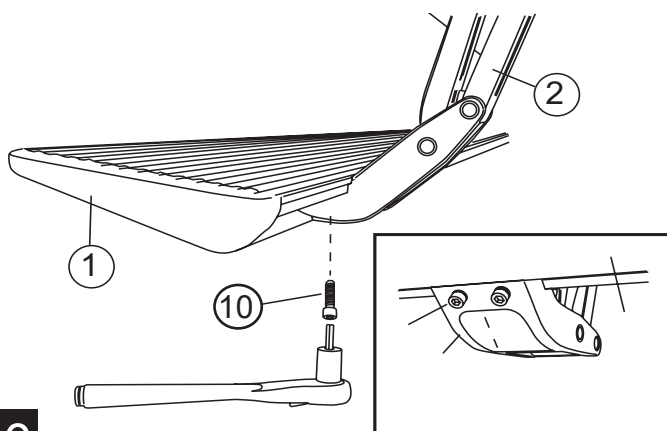
8

On Driver side mount Front idler linkage (4) and drive linkage (3a). Repeat on passenger side (using Front passenger drive linkage (3b)). Thread supplied Conical washer bolts (11) into linkages. Install provided spacer (17) and M6 flange bolt (#17) into upper mount as shown on both Drive and Idler linkages. Do not tighten.

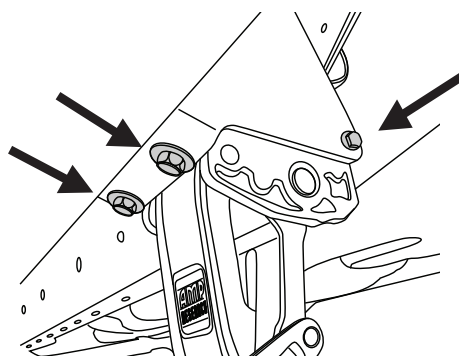


9

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



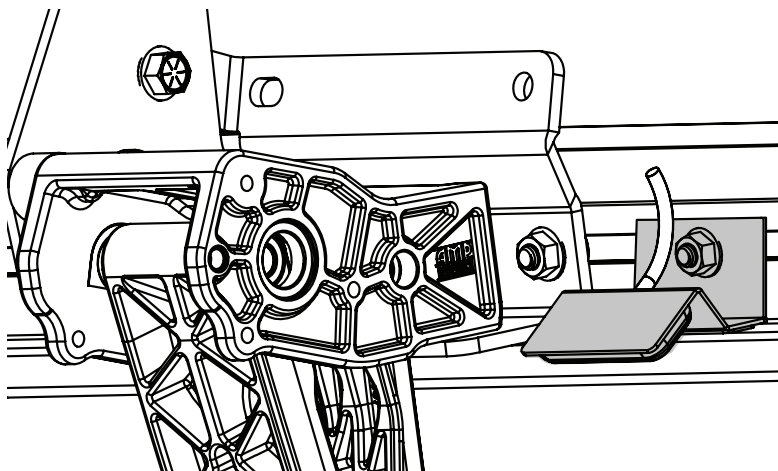
Using a 13 mm socket torque linkage bolts to 16ft-lbs. Next use a 10mm socket torque linkage spacer bolt (9) to 8 ft-lbs. Once linkages are tight cycle board to verify steps deploy under own weight and clear rail endcaps.



10

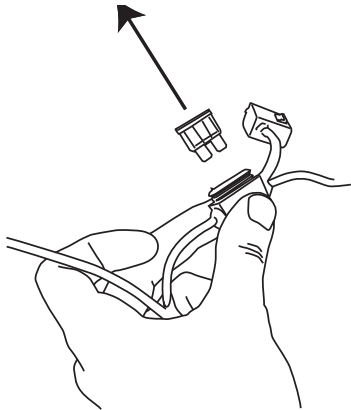
11

Affix LED lamp (18) to Light bracket (19) on rail. Slide bracket into desired position and tighten using 5/32" Allen key.

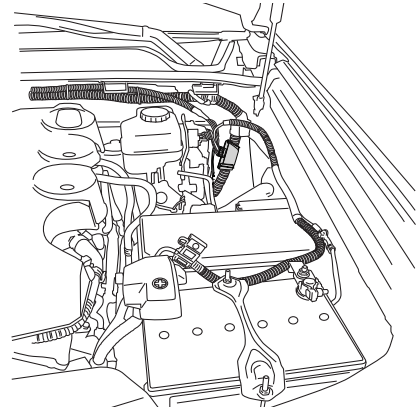


12

Remove fuse.



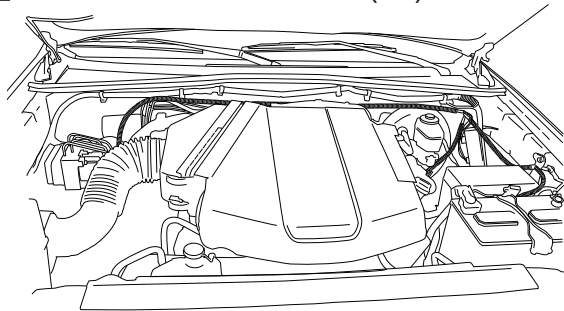
Secure controller to factory wire loom using supplied 11" wire ties (14). Connect Red fused wire to stud on battery positive terminal. Connect Black wire to ground on inner fender



13

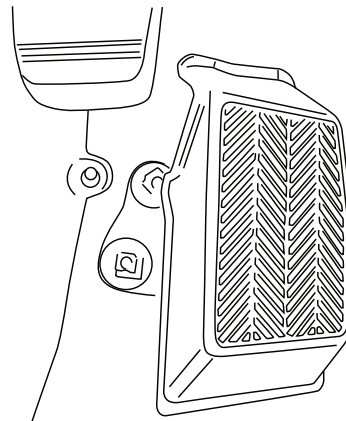
14

Run wire harness as shown outside the frame rails on both sides. Avoid hot, sharp or moving parts! Secure with 7" wire ties (15).



Note: Run loom with Green/Yellow and Pink/Black Trigger wires down drivers side of vehicle.

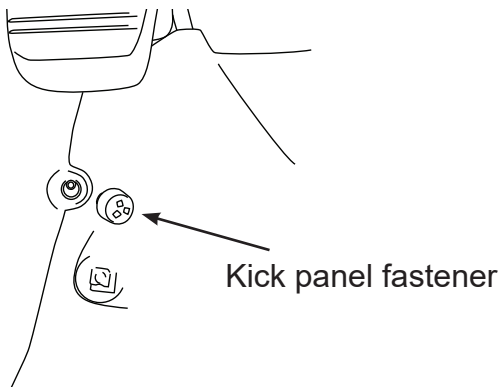
Pry left foot rest loose at driver side kick panel.



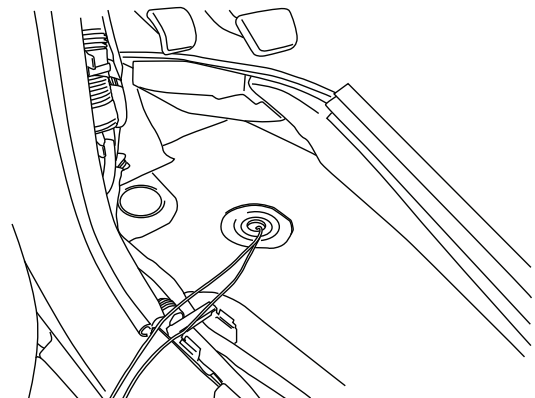
15

16

Pry up front door sill plates and remove kick panel fasteners and panels on driver and passenger side.

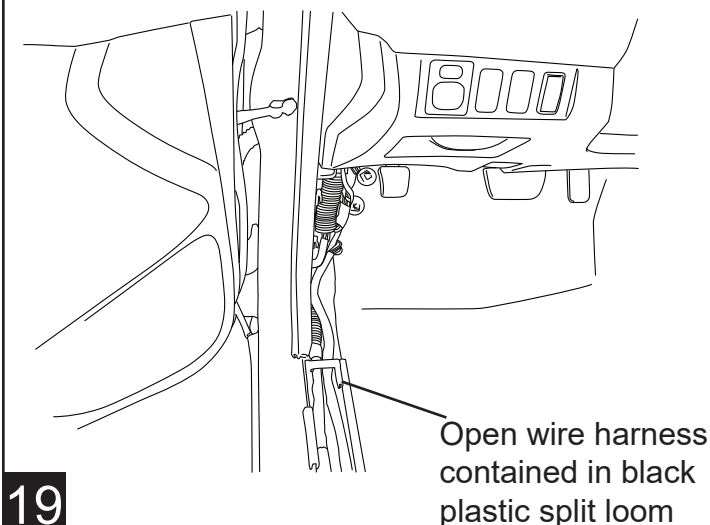


Pull up carpet and locate rubber grommet. Slice the grommet and pass trigger wires from under the vehicle and into the cab.



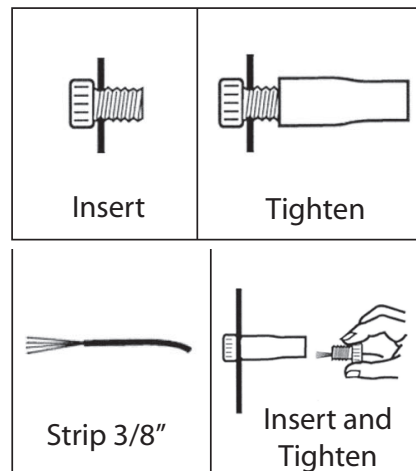
17

18



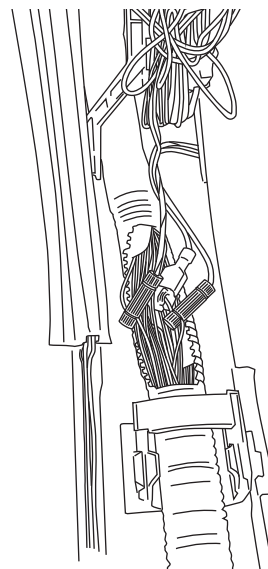
19

Posi-Tap™ instructions



20

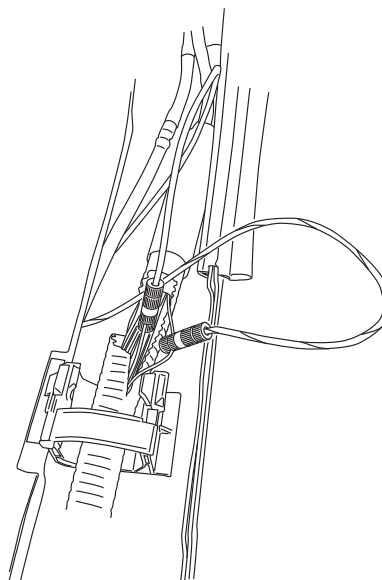
Drivers Side Front: Connect Red Trigger Wire to Red factory Door Ajar signal wire (12 volt negative with door open) using supplied Posi-Tap (16).
Drivers Side Rear: Connect Purple Trigger Wire to Purple factory Door Ajar signal wire using supplied Posi-Tap.



21

Passenger Side Front: Connect Black Trigger Wire to Black factory Door Ajar signal wire (12 volt negative with door open) using supplied Posi-Tap.

Passenger Side Rear: Connect Red Trigger Wire to Red factory Door Ajar signal wire using supplied Posi-Tap.



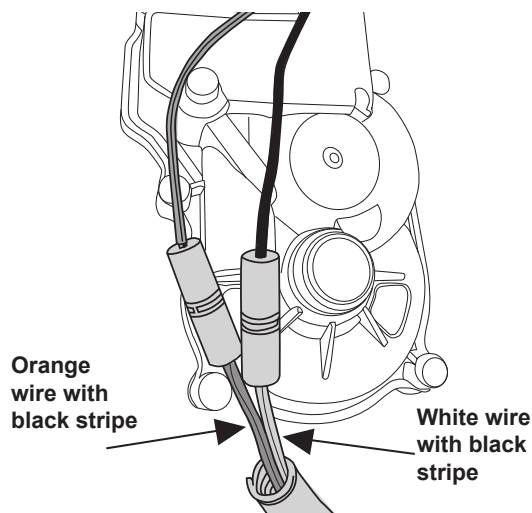
22

Before proceeding, step A for drivers side motors and step B for passenger side motors

A. Motor spinning the shaft clockwise direction:

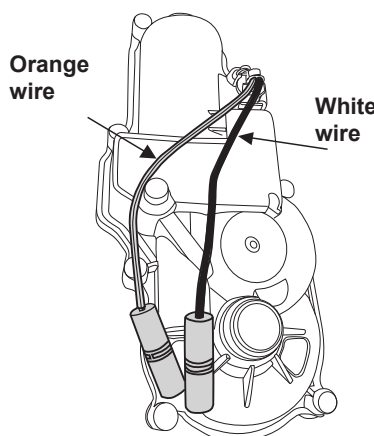
1) First, install one Posi-Tite® (21) onto white wire from the motor. See image on right.

2) Install second Posi-Tite® (21) onto orange wire from motor. See image on right.



3) Next, connect the white wire with black stripe from the wire harness to the other end of the Posi-Tite® (21) that is connected to the all black wire from first step on left.

4) Connect the Posi-Tite® (21) the orange wire from the motor with the orange with black stripe wire from the harness.

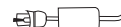


Posi-Tite® Instructions

1. Strip 3/8"



2. Push



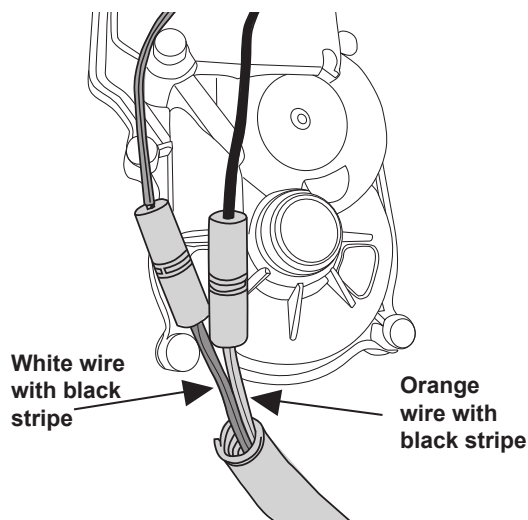
3. Tighten



B. Motor spinning the shaft counter clockwise direction:

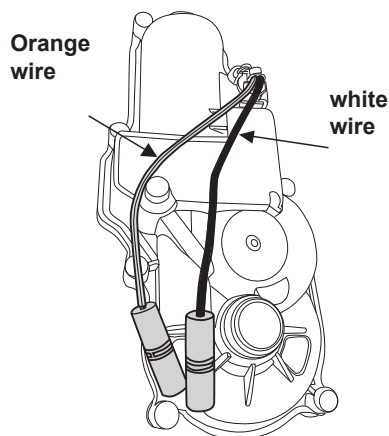
1) First, install one Posi-Tite® (21) onto white wire from the motor. See image on right.

2) Install second Posi-Tite® (21) onto orange from motor. See image on right.



3) Next, connect the orange wire with black stripe from the wire harness to the other end of the Posi-Tite® (21) that is connected to the all white wire from first step above.

4) Connect the Posi-Tite® (21) the orange from the motor with the white with black stripe wire from the harness.

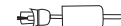


Posi-Tite® Instructions

1. Strip 3/8"



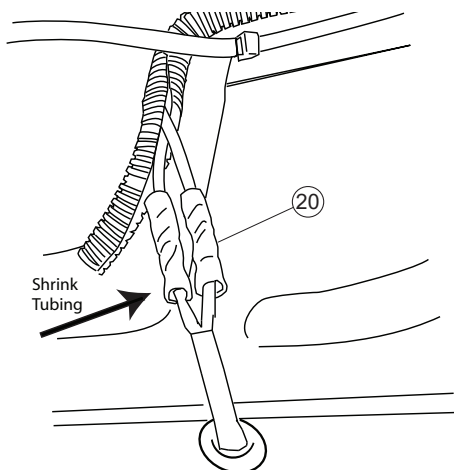
2. Push



3. Tighten

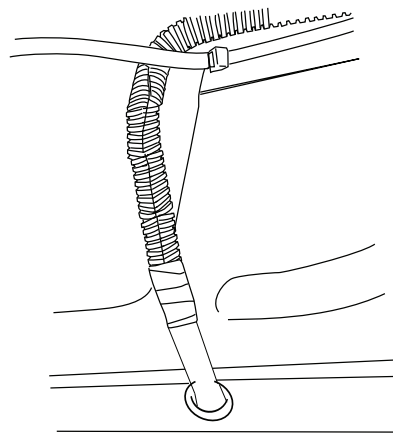


Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black. Once Crimped use heat gun to shrink tube.



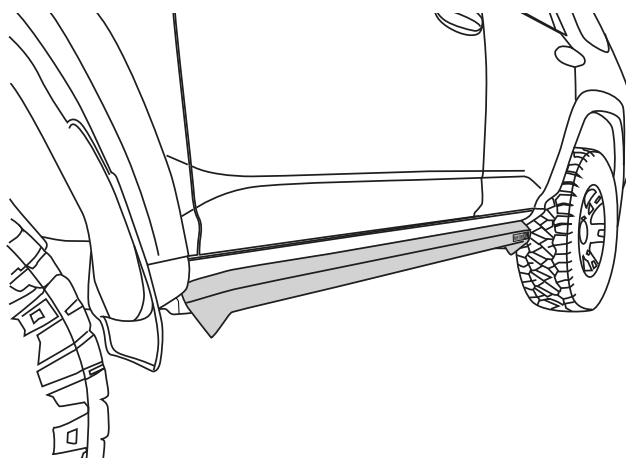
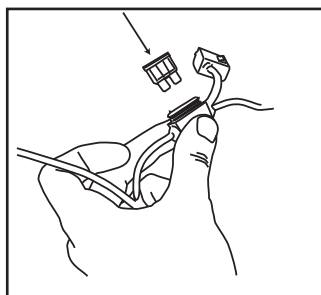
24

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.



25

Reinstall fuse. 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.

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- Registration helps us keep you up to date on product information and offers.

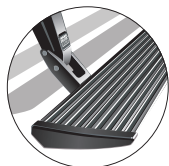
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Rev 05.30.24

Congratulations on your purchase of the genuine RealTruck / AMP Research PowerStep! Here's what you should know...

POWER-DEPLOYABLE RUNNING BOARDS OPERATION: RealTruck / 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.

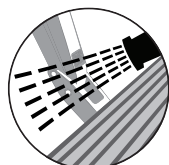
Automatic stop:

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

RealTruck / 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 by nature 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 REALTRUCK 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.

