



INSTALLATION MANUAL

STEP SLIDER

BD-SS-200-JK4



Description	Quantity
Electric Step Slider (Pair)	2
Bump stop plate with VHB backing	2
Wiring harness (2 piece)	1
Double sided adhesive squares	12
Door sensor	4
Magnets	4
Alcohol wipes	4
Rocker cutoff switch	1
Circuit board	1
5/16" - 18 nylock nut (for studs)	8
5/16" stainless steel washer (for studs)	8
1/4" - 20 nylock nut	4
1/4" - 20 stainless steel washer	4
5-16" - 18 X 1" grade 8 hex head bolt	24
5/16" SAE yellow zinc washer	24
Front bracket (tall style)	2
Middle bracket (short style)	2
Rear brackets (long style)	2

Front Bracket



Middle Bracket



Rear Bracket



Tools Required	
10 mm socket	7/16" socket
18 mm socket	1/2" socket
19 mm socket	Wrench with 3-4" extension
Breaker bar	
7/16" Box end ratcheting wrench	1/2" Box end ratcheting wrench
**Optional for quicker installation	
Torx Gun with adapters	Heavy Duty Torx Gun with 1/2" driver

Notes and Maintenance

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

No maintenance required on waterproof harness or water-resistant motors.

If mud or dirt is built up on the steps, simply spray them off and let them air dry.

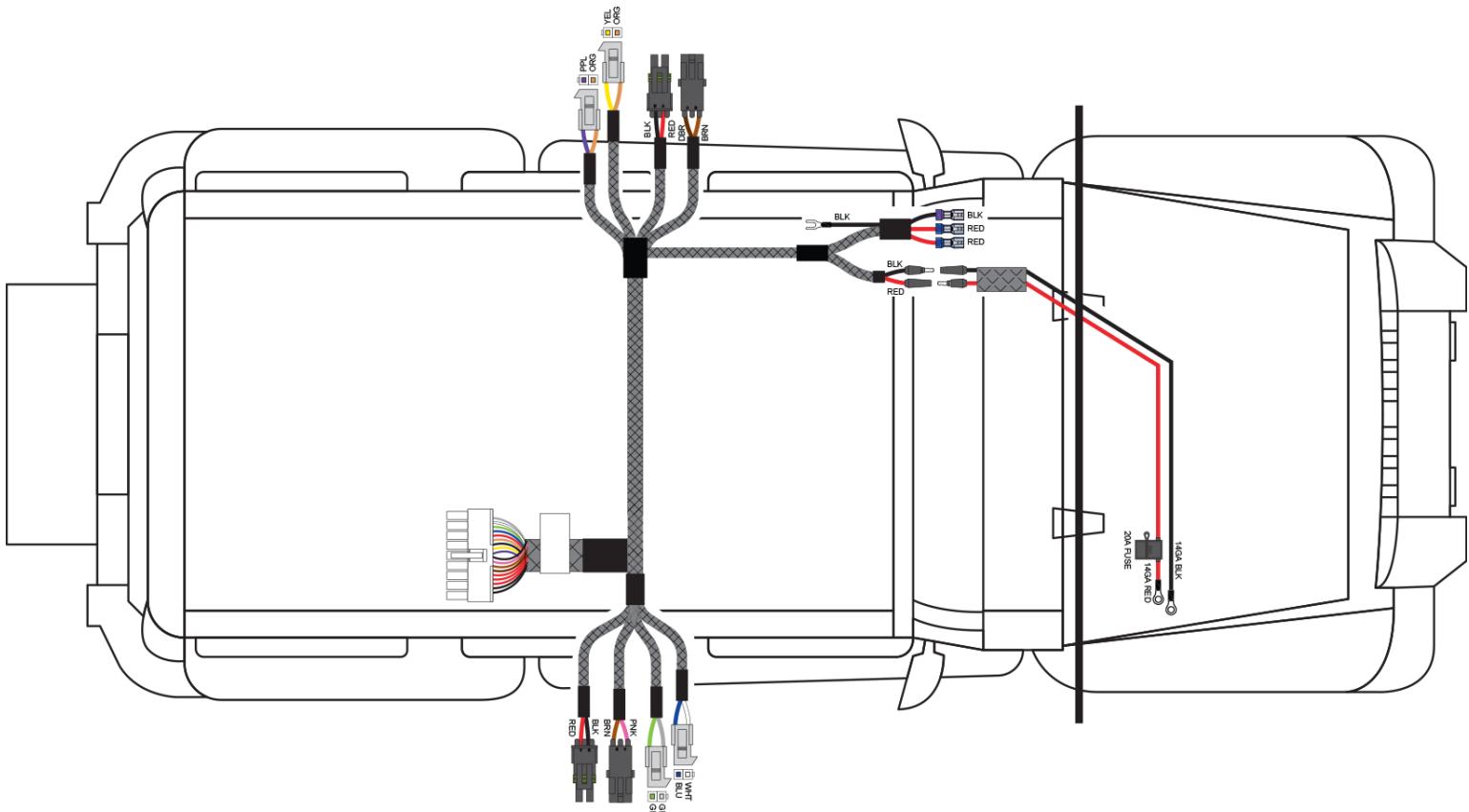
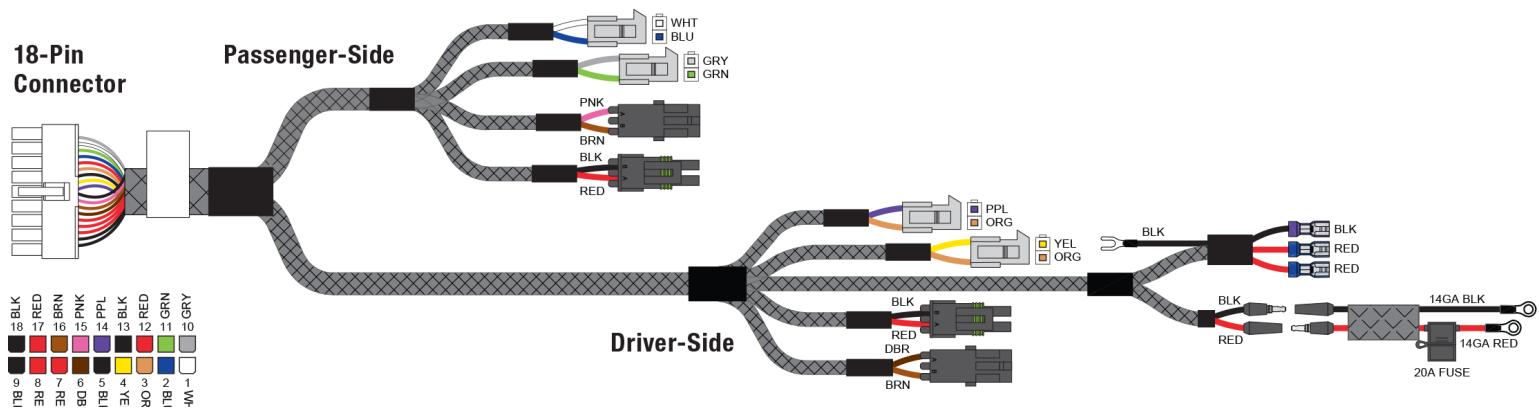
Mild automotive detergent may be used to clean the product. Do not use dish detergent, abrasive cleaners, abrasive pads, wire brushes or other similar products that may damage the finish.

Periodic inspection of all wires and connections should be performed to ensure there is no visible damage or loose connections.

Refer to the last page of this manual for troubleshooting, warranty and product registration information.

Wiring Locations

Driver	Door sensor, rear	Purple / Orange
	Door sensor, front	Yellow / Orange
	LED light	Brown / Dark brown
	Actuator	Black / Red
Passenger	Door sensor, rear	White / Blue
	Door sensor, front	Grey / Green
	LED light	Pink / Brown
	Actuator	Black / Red



Step 1

Start on the drivers side.

Remove two front pinch seam bolts using a 10mm socket and wrench. Leave the holes open.

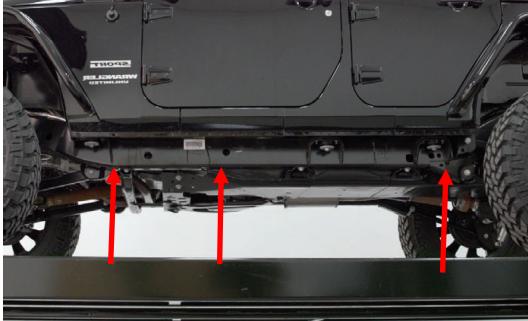
Keep the hardware as you will re-install it in the final step



Step 2

Starting on the driver side, locate the three body bolts on the underside of the vehicle. Back the three body bolts about 1/4" to allow free movement of the washer up and down.

**Breaker bar may be required to loosen the body bolts.



Step 3

With each body bolt loose, slide each bracket between the bolt head and the washer in their correct positions. Install the rear and middle brackets in straight.

Rear—Long Bracket



Middle—Short Bracket



Step 4

Install the front bracket at a 45 degree angle to the jeep, with the bracket between the head and washer, and twist straight so the bracket faces towards the side of the jeep.

Front—Tall Bracket



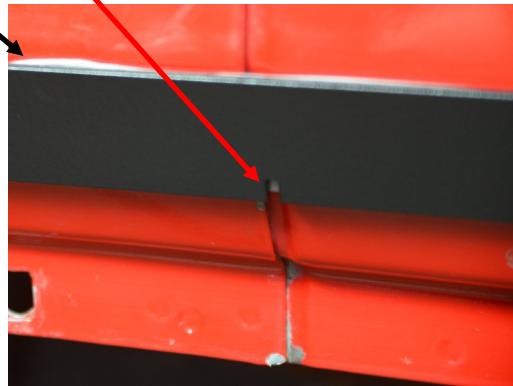
Step 5

Install bump strap onto the side of the vehicle where the bend just under the door is located:

Test fit the bumper strap by lining up the strap straight across the jeep bend, with the little notch towards the rear of the jeep over the seam facing down. The top of the bump strap should be as close to the bend as possible.

Once you have the correct location, pull the VHB plastic and adhere to the jeep in the desired test fit location.

**The front of the bump strap will sit SLIGHTLY 1/8" - 3/16" lower than the rear of the bump strap when lining it up with the bend on the vehicle. This will ensure the step sliders mount flush with the full bump strap seal.



Step 6

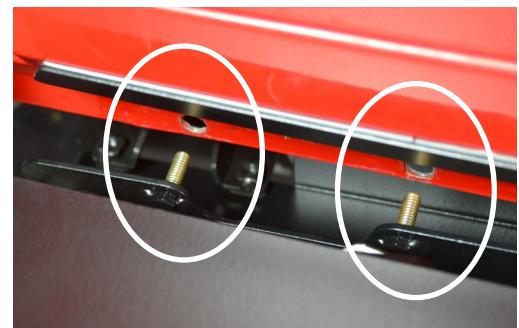
Pull the motor wire and slide it through the existing hole right above the rear bracket mounting location.

Mount step sliders on the driver side of the vehicle.

Line up the step with the pinch seam holes and slide the step studs through the pinch seam. The brackets mounted earlier should slide above the body. There should be some play in the brackets to allow up and down movement to slide above the body.

Once mounted, the step should hang on to the pinch seam by itself.

**Do NOT apply weight to the step yet as it is unsecured)



Step 7

Start to secure Step Slider to the pinch seam using:

Use **TWO** 1/4" - 20 nylock nuts and stainless steel washers on the 2nd bolt in the front window, and the 2nd bolt in the 2nd window.

Use **FOUR** 5/16" - 18 nylock nuts and washers on the front window 1st bolt, center window 1st bolt, and rear 2 bolts.

Tighten down about halfway.



Step 8

Install **12 5/16" - 18 x 1"** with a hex head bolts with yellow SAE washers into the bracket through the slots on the underside of the step slider.

Install bolts halfway just to hold them in place.



Step 9

Once all bolts and nuts have been started, tighten down pinch seam nuts:

Use a **1/2"** socket and wrench with a **3-4"** extension for the **5/16" - 18 nuts**.

Use a **7/16"** socket and wrench with a **3-4"** extension **1/4 - 20 nuts**.

Torque 5/16" nuts to 18 ft. lbs.

Torque 1/4" nuts to 9 ft. lbs.

If sockets do not fit, use a **1/2" and **7/16"** box end ratcheting wrench to tighten down the bolts.



Step 10

Tighten down **5/16"** hex hex using a **1/2"** socket and wrench.

Torque to 18 ft. lbs.

For a quicker install, use a torx gun with an adapter for a **1/2" socket.

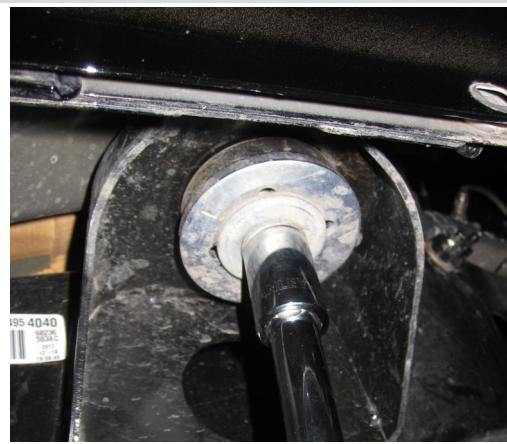


Step 11

Tighten down body bolts last.

Torque to 80 ft. lbs.

Repeat steps 1-11 on the passenger side



⚠ WARNING

Improper electrical installation may result in personal injury. Unless you are familiar with the installation and handling of electrical systems, have this step performed by someone who has that familiarity.

Step 12

Remove floor mats from the jeep.

Loosen front kick panel.

Remove center panel to allow access for wires.



Step 13

Remove fuse from harness.

Attach RED—POSITIVE and the BLACK—NEGATIVE.



Route the harness across the engine bay and through the firewall.

Secure with zip ties.



Step 14

Unravel the large harness in the rear seat and route the connectors to the front of the vehicle under the removed panels.



Step 15

Remove floor plug on the driver side.

Make a slit in the plug to run your wires through

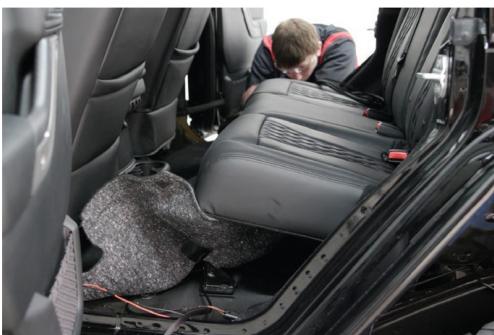
Run motor connector through the open hole.

**If installing optional light kit, run light connector down through the hole.

Repeat on the passenger side.



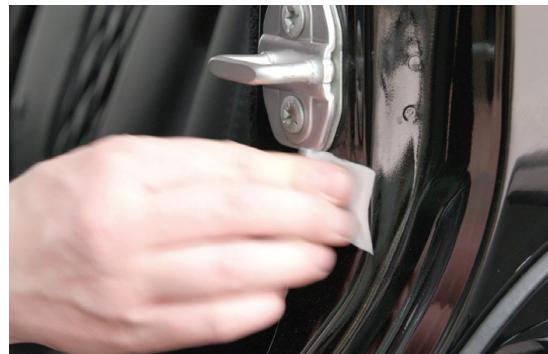
Run circuit board plug and passenger side connectors under the carpet to the passenger side of the vehicle.



Step 16

Refer to diagram below and [page 2](#) for sensor location and wire color.

Plug sensors into harness. Route sensor to door jam. Install on each door under the latch as shown.



Wiring Locations

	Driver
Door sensor, rear	Purple / Orange
Door sensor, front	Yellow / Orange
LED light	Brown / Dark brown
Actuator	Black / Red
Door sensor, rear	White / Blue
Door sensor, front	Grey / Green
LED light	Pink / Brown
Actuator	Black / Red



Step 17

Install magnets onto the door under the door latch. Check to make sure center over the sensors



Step 18

Install the master switch bracket near the front driver kick panel behind the door strap bracket.

Loosen the two bolts where the door strap attaches, slide the bracket behind the door strap bracket, tighten the bolts back down to 7-8 ft lbs.

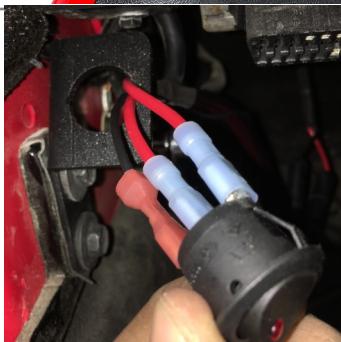


Run the wires through the bracket.

Plug the blue female connector into the silver male ends and the red female connector into the bronze male end.

Push the rocker switch into the bracket.

Install ground wire behind the bracket so it is in contact with the chassis.

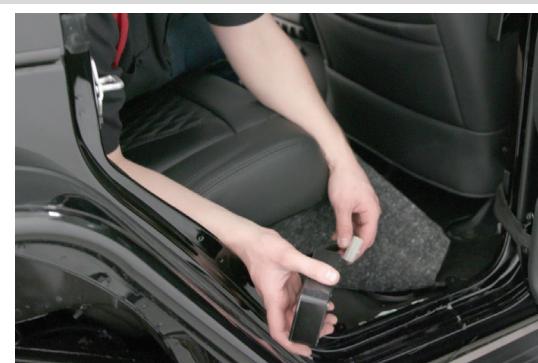
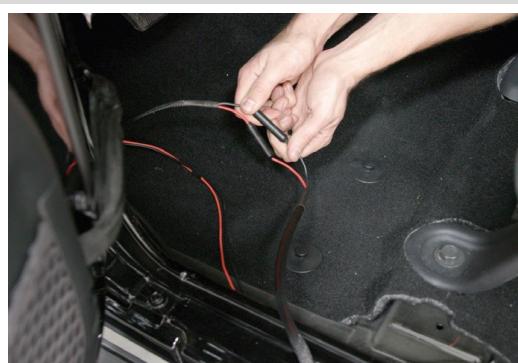


Step 19

Once all sensors are installed and the wiring has been run, plug the small wiring harness into the large harness.

Plug in circuit board to the large harness and secure it under

Reinstall fuse into harness

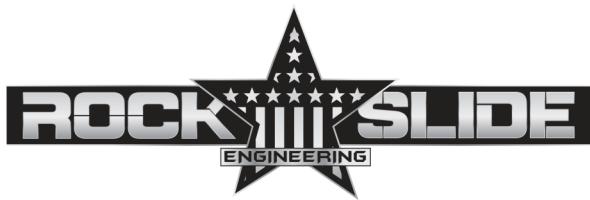


Step 20

Re-install the panel bolts removed in step 1.

Re-Install kick panels back into place in the jeep.





TROUBLESHOOTING YOUR STEP SLIDERS:

I just installed my steps and they are not coming down when I open the door.	Double check the connections. Check the fuse to make sure it is plugged in. Is the on / off switch getting power? Is the circuit board plugged in? Are the door sensors plugged in?
My switch is getting power, but the light stays on in both positions.	The light is only supposed to be on when the system is turned on. If it is lit in both positions simply switch the red wires on the back. Will this kill my battery with the light constantly lit? This will not kill your battery unless you leave it lit for a month with no use.
Everything is plugged in and the switch is turning on and off, but the steps still won't deploy.	<p>Two things may be causing this issue:</p> <p>Check the motor first. Simply unplug it from the wiring harness and apply external 12V power to the leads. One position will make them deploy. Switch the leads again to make them retract. If this works, plug the motor back into the harness. We test each and every motor that leaves our factory by hand along with assembling your step slider by hand. These may fail, but it is extremely rare after we send them after having tested them. If you test the motor and all you hear is a clicking sound but nothing happens, there is likely internal damage.</p> <p>Check the sensors. Unplug both of them from the wiring harness, and plug one back in. Manually test your sensors by putting a magnet really close (but not touching) to the sensor. Does it make the step retract? When the magnet is away, the step should deploy. If the steps deploy right after installation, more than likely your magnets just need to be aligned. Do this one by one with each sensor by the method above. Install one sensor, test, align the magnet on the door, test, and then mark the position of the magnet so if for some reason they do move out of place you can easily realign them. The sensors should have a label with MP###802 or MP###902.</p>
I tested the motor, and it works. I checked the sensors individually, and the system still won't work. The steps don't deploy unless I do it manually with 12V power.	In rare circumstances, the circuit board that runs the system may be faulty. Call our support team for a warranty help at 435-752-4580
I opened my door a bunch of times and the system just shut off. What happened?	Our systems have built-in protection against quick cycling like this to prevent damage. Simply turn your on / off switch to off, wait 5 seconds, and then turn it on again. This will reset the system and allow it to work normally again.
Everything is working now. But I want to take my doors off and have the steps still work.	We sell a door delete kit you can replace those sensors with. Part# SL-DD-100 comes with everything you need for two doors. If you want to install a delete kit on the rear doors as well, you will need to purchase two kits.
The steps deployed and won't retract. What is going on?	Chances are your magnets are misaligned. To diagnose which door needs to be adjusted, unplug the rear sensors with the front doors closed. If your steps come up, then it was the rear doors that need to be aligned with your magnet. If the step stays down, the front door needs to be aligned. Open your door, shift the magnet in a direction, and shut it again. Repeat until the step comes up when the door is shut. Mark the magnet placement on the front door. Plug the rear door sensor in, shut the rear door and front door, and see if it comes up. If not, the rear door is misaligned (Since we just aligned the front door we know it's the rear door now). Repeat the previous process of opening your door, shifting your magnet, and shutting your door until the step comes up. It may take a few tries.
I was off-roading, left my system on, someone left the door ajar and I ripped my step off on a rock. What now?	We can replace these parts for you at cost. You will have to remove the step off your vehicle to replace the innards. Call us and we'll figure out what you need exactly! If you prefer us to do the repair we will do that for you! You will have to cover shipping to us and the cost of the parts, but we will ship it back to you (from our warehouse to your house) on our account.

PRODUCT INFORMATION:

LIMITED LIFETIME WARRANTY FOR STRUCTURAL AND MECHANICAL COMPONENTS

LIMITED TWELVE (12) MONTH WARRANTY FOR FINISH AND ELECTRICAL COMPONENTS

Rock-Slide Engineering, LLC ("R-SE") warrants to the original purchaser that (a) the structural and mechanical components of the Step Sliders will be free of defects in material and workmanship for the lifetime of the Step Sliders (the "product"), and (b) the finish (powder coat) and the electrical components (including the motor) will be free of defects in material and workmanship for a period of twelve (12) months from the original date of purchase. This warranty applies only to the original retail purchaser. Warranty is void if product was not purchased directly from R-SE or from an authorized R-SE retailer or reseller. This warranty applies only with regard to the original installation of the product to the original vehicle. This warranty does not cover removal or reinstallation of the product.

To exercise this warranty and receive any warranty service, the original purchaser must provide R-SE with proof of purchase and date of purchase that is acceptable to R-SE, such as a copy of the original purchaser's purchase receipt. The original purchaser must return the defective product to R-SE along with a description of the problem, a copy of the original purchase receipt, the original bill of sale and all contact information (name, address, telephone number and email address). To begin the warranty process, the original purchaser must email R-SE's warranty department.

During this warranty term, and upon the original purchaser's valid exercise of this warranty, R-SE shall, at its option, repair or furnish a replacement product in the event the original product is deemed by R-SE to be defective. R-SE's sole liability shall be for repairing or replacing the product, but R-SE may refund the purchase price at its sole discretion and option. The original purchaser is responsible for prepayment of all shipping and/or transportation charges with respect to the exercise of this warranty. The product may change without notice. In the event of a product change, R-SE has no obligation to upgrade or modify any older generation product.

THE WARRANTY SET FORTH HEREIN IS THE ONLY WARRANTY COVERING THE PRODUCT. NO OTHER WARRANTY EXISTS, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. No retailer, reseller, dealer, agent or employee is authorized to make any modifications, extensions, amendments or additions to this warranty.

This warranty shall be void in its entirety if R-SE determines that the product installation was modified, changed, altered, customized or in any way used other than as instructed. Installation of the product without strictly adhering to the installation instructions shall void this warranty. Installation must be on the proper vehicle or warranty is void.

R-SE SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, UNDER ANY LEGAL THEORY AND/OR UNDER ANY CIRCUMSTANCE WHATSOEVER. IN ANY EVENT, ANY DAMAGES IN ANY SITUATION SHALL BE LIQUIDATED DAMAGES AND MAY NOT EXCEED THE RETAIL PRICE OF THE PRODUCT. R-SE SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE OR INJURY DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF OR INABILITY TO DETERMINE THE USE OF THE PRODUCT. THE ORIGINAL PURCHASER IS RESPONSIBLE TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, PRIOR TO USING THE PRODUCT, AND THE ORIGINAL PURCHASER ASSUMES ALL RESPONSIBILITY AND RISK IN CONNECTION THEREWITH.

PATENT INFORMATION:

This product is covered by multiple US issued patents.

PAT US 9,771,024 B2

PAT US 8,833,781B2

PAT US D718,1955

Tech Support / General Support

435-752-4580

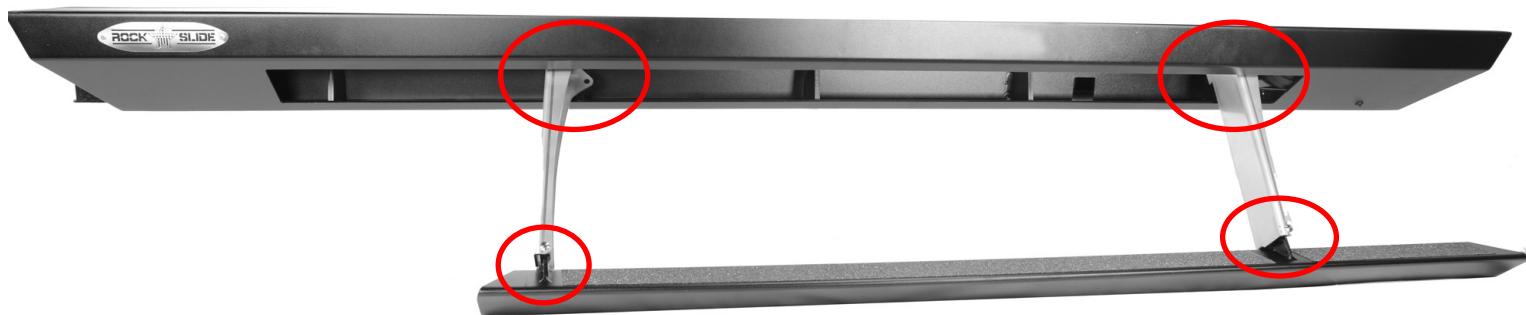
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MADE IN THE USA

GENERAL MAINTENANCE MANUAL

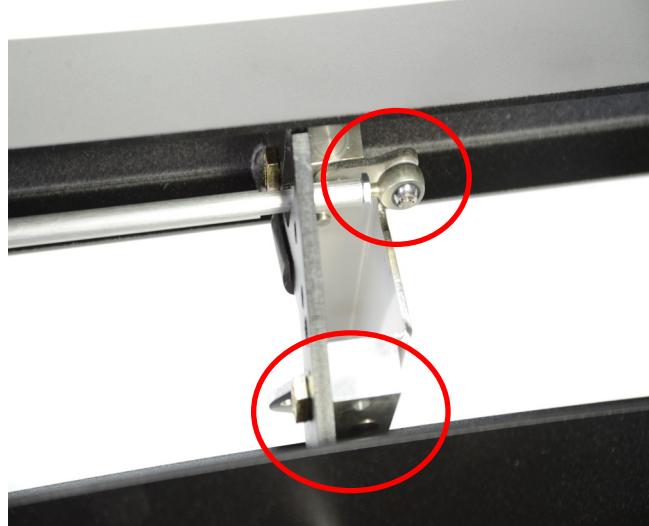
To ensure your step sliders function properly, some maintenance is required!



You will need to lubricate the pivot points that are circled in red shown above.

Lubricate the heim joints and aluminum blocks as shown below.

We recommend you do it monthly or after any offroad adventure, including during winter months.



Deploy the steps, pressure wash the bodies clean including internals, then apply a multipurpose lubricant to each of the areas as shown.



Here are several options on lubrication that are carried at the local auto stores in most areas