



**ROCK HARD 4X4 JEEP WRANGLER JL 2/4-DOOR
2018-CURRENT GEN 2 REAR BUMPER
PART #: RH-90300 AND RH-90340
Installation Manual**



Customer Service / Tech Support: sales@rockhard4x4.com
Thank you for your purchase! Please read all instructions carefully prior to
beginning installation of your Rock Hard 4x4 product.

Thank you for your purchase! Whether you bought this Rock Hard 4x4 product from one of our fantastic dealers or our factory direct team, we thank you for your business.

Rock Hard 4x4 is a family owned and operated business. We are headquartered in Saint Paul, Nebraska where we design, fabricate, and produce every single one of our products. Every single part we manufacture is 100% Made in the USA and exclusively in house by the Rock Hard 4x4 team.

We outsource zero processes.

To you, that means the product you are installing is the highest quality and longest lasting component on the market.

To us, that means you've selected a part we've spent years developing. Each Rock Hard 4x4 part has gone through more research and development and evolution than most people realize. While our parts may have the same striking look year after year, subtle revisions and refinements we implement maintain their status as the most durable and easy to install on the market.

We invite you to send us your feedback! Please email, call, write, or catch us on an off road trail near you to share your tales, share comments, and ask questions.

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REMOVING FACTORY REAR BUMPER

1. Because there are so many variations between JL factory rear bumpers, between steel and aluminum, and between trim levels, and they seem to change every year, we can't give you a step-by-step removal tutorial. Your goal is to remove your OEM rear bumper from your Jeep. Usually it's a total of 4 or 6 bolts, possibly some end cap removal as well. Be sure to unplug your sensor / power harness from the driver side before removing bumper from Jeep.

REMOVING FACTORY REAR BUMPER ELECTRONICS

2. If equipped, we'll be removing your backup sensors. Odds are the harness for them is buried under brackets requiring snipping factory zip ties. Before you remove them from your bumper, take a sharpie and mark on them which way is UP and label them from driver side to passenger side which is 1, 2, 3, and 4. You'll also remove your license plate light using a 10mm wrench. Retain the factory nuts, they'll be reused. Remove backup sensors (if equipped) by prying open their retainers, then press clip towards wiring and remove sensor plug. You DO NOT have to unplug the sensor from its harness. If equipped with rubber o-rings or sensor covers, keep those installed.
3. Remove factory trailer electrical harness (if equipped) plug assembly from OEM bumper. If installed on rear crossmember, unplug the harness from back of port and uninstall port from crossmember. If you do not have the factory tow harness installed, you'll install the delete plate in rear bumper with supplied hardware.

4. Remove outer 2 bolts from factory hitch (if equipped) in rear cross member.
5. Replace left side (driver) bolt with special thin head bolt and nut. 12MM x 1.75 x 100mm. Head of bolt to rear of Jeep using 18mm wrench. If installing Rock Hard 4x4 rear bumper, install at this time using supplied hardware.



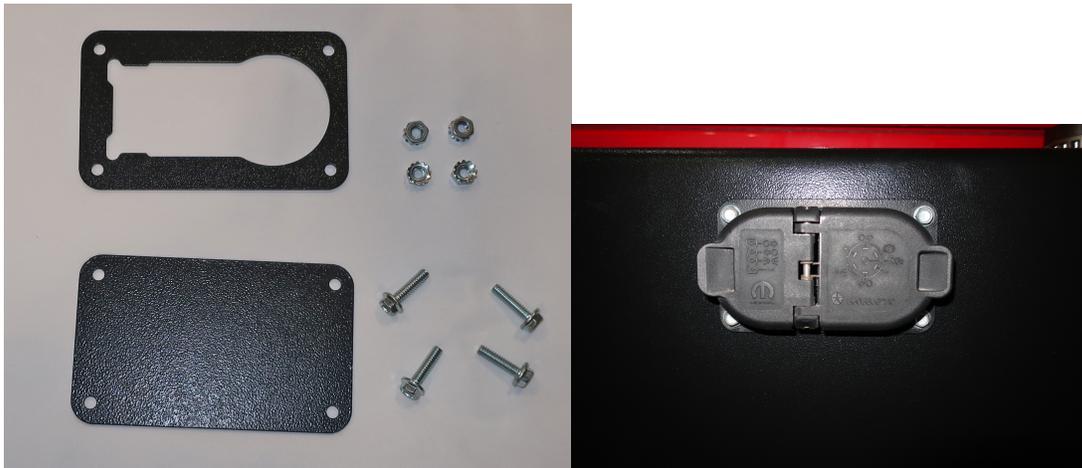
6. Replace right side (passenger) bolt with 12mm x 1.75 x 100mm. Head of bolt to rear of Jeep using 18mm wrench.

LOADING RH4X4 BUMPER WITH OEM ELECTRONICS

7. Install factory towing electrical plug (if equipped) into Rock Hard 4x4 rear bumper or block off plate (included with hardware kit) using 4x #10 x 24 x 3/4" flange bolts and 4x #10 x 24 locking nuts using 3/8" and 5/16" wrenches.

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8. Install 2x plastic license plate nuts into license plate recess.

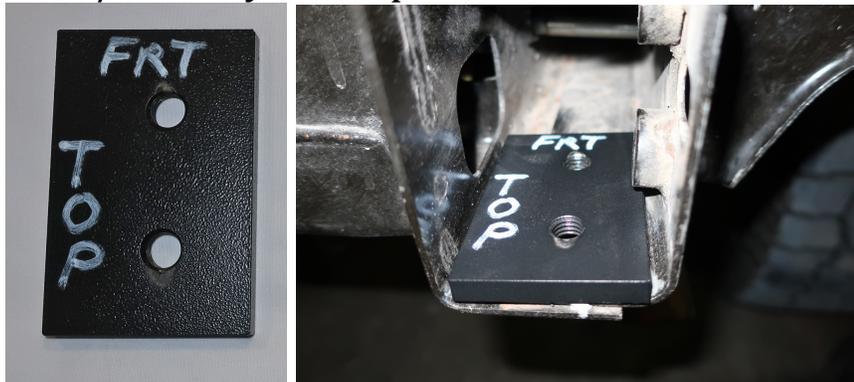
SENSOR INSTALLATION

9. Orientation is key. Set harness next to bumper and align sensors across with 1, 2, 3, and 4 in order from driver to passenger side. The new “bung” retainer supplied in your kit will align with the UP arrow you marked on each sensor. Once you have each bung aligned, insert it into the bumper from the outside in. It may take a rubber mallet to fully seat each bung.
10. There are thick and thin clips in your sensor bag. Rock Hard 4x4 bumpers use the thin clips. Clip each sensor bung into the bumper with 1 clip per bung. They’ll snap into place. Once you have the bung fully installed, insert each sensor fully into each bung, triple checking up is up. They’ll snap into place. Should hear audible clicks on top and bottom of sensor. Route sensor harness through cutouts inside rear bumper to prevent them from being pinched by frame.

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11. If no sensors, install supplied plastic plugs into bumper.
12. Install factory license plate light with factory nuts.
13. Install 3/8" x 2-1/2" x 3-3/4" plate into passenger side frame as marked "front top" and align holes. The threads are 1/2-13 if you see powder coat in them.



- 14.
15. Set top lip of bumper on frame. Insert supplied tow hooks into bumper slots with included thick black steel blocks with 2 holes on top of them. Wiggling bumper up and down will help the blocks fit on top of the tow hooks under the frame rails. It's tight, but with wiggle, they fit. Line up holes. Make sure wiring is between bumper and

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block and will not get pinched. Use 2 supplied metric 14x1.5x80mm bolts with washers into tow hook on driver side. Use 2 supplied 1/2" x 3" bolts with flat washers on passenger side. Do not tighten.

16. Install 2x 14MM x 1.50 x 40MM bolts with flat washer from outside of frame onto each side.
17. Once you have bumper centered on frame and tow hooks centered in their slots, tighten all hardware, ensuring your tow hooks are properly squished and do not wiggle in bumper slots.
18. If your spare tire hits bumper cutout when closing tailgate, remove your spare and add washer over wheel studs to help alleviate the tight tolerance.

CONGRATULATIONS! Now go wheel your rig with a whole new level of confidence and capability.

Please send photos of your install and wheeling adventures to sales@rockhard4x4.com We love seeing our products on the trail!

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This Limited Warranty is the only warranty made in connection with your purchase. Rock Hard 4x4 neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or Limited Warranty.

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What is Not Covered: *Your Rock Hard 4x4 Limited Warranty does not cover products or parts Rock Hard 4x4 determines to have been damaged by or subjected to:*

(a.) Installation damage, alteration, modification, combination with other parts, failure to maintain or improper repair or service, (b.) normal wear & tear, cosmetic damage or damage from moisture or water immersion, (c.) Acts of God, accidents, misuse, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (d.) theft, vandalism or other intentional damage. (e.) powder coat, anodizing, or paint finish.

Remedy Limited to Repair/Replacement: *The exclusive remedy provided hereunder shall, upon Rock Hard 4x4 inspection and at Rock Hard 4x4's option, be either repair or replacement of product or parts (new or refurbished) covered under this Limited Warranty. Customers requesting warranty consideration should first contact Rock Hard 4x4 to obtain a RGA number (308-750-4690). All labor, removal, shipping and installation costs are customer's responsibility.*

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