



**ROCK HARD 4X4 JEEP WRANGLER JL 2/4-DOOR
2018-CURRENT ALUMINUM REAR BUMPER
PART #: 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.

PACKING LIST:

- 2 ½" x 3" FULL THREAD BOLTS
- 2 ½" WASHERS
- 4 14 X 1.5 BOLTS
- 4 14MM WASHERS
- 1 12 X 1.75 X 100 BOLT
- 1 12 X 1.75 X 100 SPECIAL THIN HEAD BOLT
- 2 12 X 1.75 NUTS
- 2 5/8" THICK BLOCK
- 1 SPECIAL LABELED BLOCK
- 4 - PLASTIC PLUGS (IF SENSORS NOT INSTALLED)

- 1 - PACK SENSOR CLIPS
- 4 - 10 X 24 X ¾" WHIZ BOLTS
- 4 - 10 X 24 KEPS NUTS
- 1 - BLOCK OFF PLATE
- 1 - 4 PIN ADAPTER PLATE

REQUIRED TOOLS:

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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. Starting on driver side: remove factory plastic mud guard (if equipped) behind JL rear bumper. Use 8MM or 5/16 socket. Remove end cap braces (if equipped) using 16MM socket. 2 on end cap, 2 on frame. Disconnect wiring harness. 3 plastic plugs. Last plug on bumper may be easier to remove if bumper is loose. Disconnect plug. Repeat process on passenger side.
2. If equipped with factory tow hooks, remove using 21MM socket, remove all hook bolts. 16MM socket removes bumper nuts. Remove rear bumper cross member bolts, 1 per side, using 16MM socket. Remove bumper from frame.
3. Remove backup sensors (if equipped) by prying connect, then press clip towards wiring and remove sensor plug. Once connectors are disconnected pop plastic fasteners out of bumper using flat blade screwdriver. You'll retain entire harness. Remove sensors from factory bumper. Remember which sensor was driver/passenger inside/outside and what orientation. Must be installed same orientation/location from driver to passenger.

INSTALL ROCK HARD 4X4 REAR BUMPER

1. Remove factory trailer electrical harness (if equipped) plug assembly from OEM bumper.
2. Remove outer 2 bolts from factory hitch in rear cross member.

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3. 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.

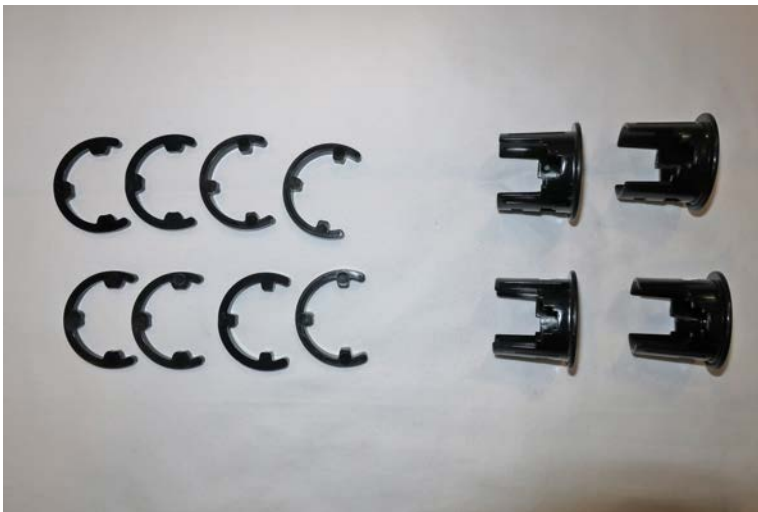


4. Replace right side (passenger) bolt with 12mm x 1.75 x 100mm. Head of bolt to rear of Jeep using 18mm wrench.
5. Install factory towing electrical plug (if equipped) into Rock Hard 4x4 rear bumper or block off plate (included with hardware kit) using 4x #10 x 24 x 3/4" flange bolts and 4x #10 x 24 locking nuts using 3/8" and 5/16" wrenches.

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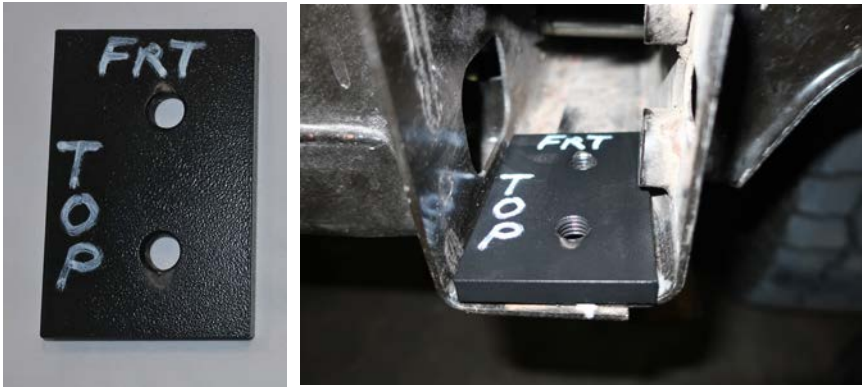
6. Install 2x plastic license plate nuts into license plate recess.
7. Install sensor holders and clips into bumper and sensors with wiring (if equipped). Sensor plugs must point to center of bumper. If no sensors, install supplied plastic plugs into bumper. Install factory license plate light with factory nuts. Some JL sensors may require a simple splice/extension, there are 2 sensor harnesses part numbers, each vary in length slightly. Install factory license plate light with factory nuts.



8. Install license plate light with factory nuts.

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9. Install $\frac{3}{8}$ " x $2\frac{1}{2}$ " x $3\frac{3}{4}$ " plate into passenger side frame as marked "front top" and align holes. Not needed on driver side since factory nuts are in place from tow hook.



4. Set top lip of bumper on frame. Slide $2 \times 1\frac{1}{2}$ " x $\frac{5}{8}$ " x $3\frac{1}{4}$ " blocks with 2 holes between frame and lower lip of bumper. Make sure wiring is between bumper and block and will not get pinched. Use 2 factory bolts from tow hook on driver side. Use $2\frac{1}{2}$ " x 3" full thread bolts with $2 \times \frac{1}{2}$ " SAE flat washers on passenger side 18MM wrench on factory bolt using $\frac{3}{4}$ " wrench on $\frac{1}{2}$ " x 3" bolts. Do not tighten fully.



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5. Install 2x 14MM x 1.50 x 40MM bolts with flat washer from outside of frame onto each side. 22MM socket with short extension. Tighten all hardware.



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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Rock Hard 4x4 Exclusive Limited Lifetime Warranty

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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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