



**ROCK HARD 4X4 JEEP WRANGLER JL AND GLADIATOR JT  
2018 - CURRENT BELLYPAN SKID SYSTEM  
2.0L TURBO AND 3.6L V6  
PART #: 905XX AND 805XX  
Installation Manual**



Customer Service / Tech Support: [sales@rockhard4x4.com](mailto:sales@rockhard4x4.com)  
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## PACKING LIST:

### BELLYPAN

- 4 - 1/2 X 2-1/2" CARRIAGE BOLTS
- 4 - 1/2 NYLOCK NUTS
- 4 - SAE WASHERS
- 7 - 2" TAPERED WASHERS
- 1 - 1-3/8 MACHINED SPACER
- 6 - 12-1.5 X 60MM BOLTS
- 1 - 12-1.5 X 90MM BOLT
- 1 - FRONT CROSSMEMBER  
(2 DOOR - 5 HOLES)  
(4 DOOR - 4 HOLES)
- 1 - REAR CROSSMEMBER  
(2 DOOR - 4 HOLES)  
(4 DOOR - 7 HOLES)

### OIL PAN

- 2 - 1/2 X 2-1/2 CARRIAGE BOLT
- 4 - 1/2 X 1-1/4 BOLTS
- 6 - 1/2" NYLOCK NUTS
- 4 - 1/2" SAE WASHERS
- 2 - 2" TAPERED WASHERS
- 2 - 3/8" X 1" CARRIAGE BOLTS
- 2 - 3/8" NYLOCK NUTS
- 2 - 12 X 1.5 X 60 HEX BOLTS

### OIL DOOR STEEL

- 1 - SMALL TAPERED WASHER
- 1 - 1-3/8 X 1 HEX BOLT
- 1 - 1-3/8 LOCKWASHER

### OIL DOOR ALUMINUM

- 1 - SMALL TAPERED WASHER
- 1 - 5/16 HEX BOLT
- 1 - 5/16 LOCKWASHER

### RESONATOR

- 3 - 12-1.5 X 35MM HEX BOLTS
- 3 - 1/2 SAE WASHERS
- 1 - 3/8 X 1-1/4" BOLT
- 1 - 3.8" NYLOCK NUT

### FUEL TANK

- 3 - 3/8 X 1 HEX BOLTS
- 3 - 3/8 NYLOCK NUTS
- 3 - 12-1.5 X 35 MM BOLTS

### TURBO OPTIONED

#### BATTERY/RESONATOR SKID

- 1 - SKID PLATE
- 2 - MOUNTING BRACKETS
- 4 - 12MM X 1.5 X 35MM BOLTS
- 4 - 1/2" SAE WASHERS
- 1 - 3/8" X 1-1/2" CARRIAGE  
BOLTS
- 3 - 3/8" WASHERS
- 1 - 3/8" NYLOCK NUT
- 2 - 3/8" X 1" BOLTS
- 1 - 1/2" X 2-1/2" CARRIAGE  
BOLTS
- 1 - 1/2" NYLOCK NUT
- 1 - 1/2" SAE WASHER

## REQUIRED TOOLS:

- 3/4" WRENCH AND SOCKET
- 18MM SOCKET WITH EXTENSION
- 9/16" WRENCH AND SOCKET
- 13/16" WRENCH
- 15/16" WRENCH AND SOCKET
- 19MM SOCKET WITH EXTENSION
- 13MM WRENCH
- ALIGNMENT PUNCH

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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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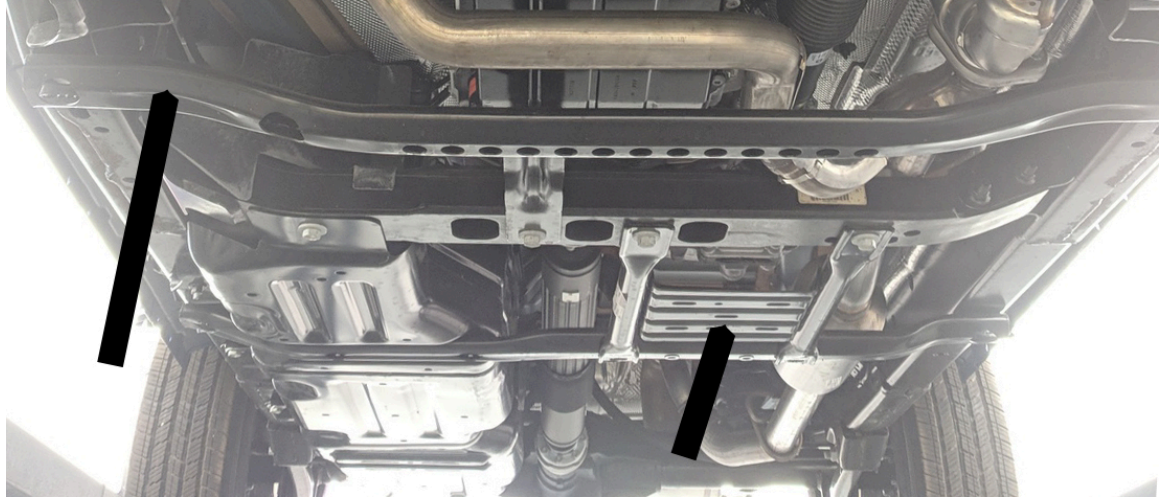
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1. Remove front and rear factory t-shaped braces, if equipped. Front brace is just behind exhaust crossover pipe and bolts to main cross member and frame rails. Rear brace installs through fuel tank and has square shaped stamped steel shield.



### **INSTALLATION – LEAVE ALL HARDWARE LOOSE**

2. Install Rock Hard 4x4 rear cross member (6 holes) with 2 factory nuts at fuel tank. DO NOT cut off factory studs at fuel tank. Cross member will install over those 2 studs, factory nuts are reused. **Tighten these nuts.**
3. Install belly pan skid plate starting at 3 center bolts with 3x machined tapered washers and 3x 12mm x 1.5 x 60 mm bolts into factory cross member. Floor jack may help.



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4. Slide front cross member (4 holes) into position from front between belly pan skid and Jeep frame. At corners of skid, install forward outer right and left side bolt and passenger rear bolt with tapered washers using 3x 12mm x 1.5 x 60mm bolts into existing frame rail nuts.
5. Install right rear side bolt with 1-3/8" spacer (do not tighten) using:
  - 1 - 12mm x 1.5 x 90mm bolt
  - 1 - 1/2" x 2" carriage bolt
  - 1 - 1/2" sae washer
  - 1 - 1/2" nylock nut



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6. Install 3 fuel tank brackets into nuts in undercarriage with 3x 12mm x 1.5 x 35mm bolts. Hang fuel skid to brackets with 3x 3/8 x 1 hex bolts and 3x 3/8 nylock nuts. Remove 2x frame side factory bolts. Slip front of skid between cross member and belly pan skid.



#### CENTER MOUNT NEAR REAR DRIVESHAFT BOOT



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## REAR CORNER NEAR FRAME RAIL



## REAR CORNER NEAR DIFFERENTIAL



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## FRAME SIDE MOUNTS FOR FUEL SKID



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### 3.6L RESONATOR BELOW

\*REV 2021, SOME JT'S DO NOT HAVE FRAME RAIL HOLE, A SELF TAPPING SCREW IS INCLUDED.

7. Install resonator skid plate to frame rail and on top of cross member with 2x 12mm x 1.5 x 35mm bolts through skid into frame rail. 1x bolt to bent end of drop bracket down to skid, 1x 3/8 bolt with 3/8" nylock nut. Install 1x 1/2 x 2-1/2" carriage bolt up through belly pan skid, through cross member, through resonator skid, with 1/2" washer and 1/2" nylock nut on top side.



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## 2.0L TURBO RESONATOR/BATTERY PACK BELOW



**DO NOT TIGHTEN ANY BOLT TILL ALL  
RESONATOR/BATTERY BOLTS ARE IN PLACE**

Remove 2x bolts at rear of battery pack. Bolts will not be reused using 18MM socket and extension.

Remove 2x bolts at front of battery pack where it bolts to crossmember with 13MM socket. Bolts will not be reused.

After our main skid system is installed place front ears of Rock Hard 4x4 Resonator/Battery skid on top of crossmember . Align holes in side frame. Install 2x 12MM x 1.5 x 35MM bolts into threaded frame holes.

Align and install ½" x 2-1/2" carriage bolts with ½" washers and nylock nuts in driver side hole of crossmember.

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Align and install 3/8" x 2-1/2" carriage bolts with washer and nylock in center of crossmember. This bolt goes through one hole in front of battery tin shield.

Install brackets on rear corners of skid with 2x 3/8 x 1" bolts with washers and in frame with 2x 12MM X 1.5 X 35MM bolts and 1/2" washers.

8. Install oil pan skid plate left/driver side drop bracket in rear hole under motor mount hole using 1x 1/2" x 1/4" hex bolt with 1/2" washer and 1/2" nylock nut. If turbo install on outside of oil pan skid.

\*\*2021 rev: 2021 and later motor mounts closely resemble JT mounts now. If 2021 or newer, use included longer bolts to replace OEM bolts at motor mount, use included 2 to 1 hole z shaped bracket, and install motor mount bracket.

**DRIVER SIDE BRACKET – BENDS AROUND DRIVESHAFT  
PASSENGER SIDE BRACKET – STRAIGHTER DESIGN**



9. Install oil pan skid plate right/passenger side drop bracket in rear hole under motor mount hole using 1x 1/2" x 1/4" hex bolt with 1/2" washer and 1/2" nylock nut.

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10. Mount rear of oil pan skid plate over belly pan skid plate (closest to ground) using 2x black bolts through oil pan skid, through belly pan skid, through cross member.
11. Raise front of skid plate to drop brackets and install on inside lip of oil pan skid plate. Secure using 1 x ½" x ¼" hex bolt with ½" washer and ½" nylock nut per side.
12. Remove front lower control arm nut on driver side frame mount. Install oil pan skid plate extension over control arm bolt and thread nut back into place. Secure extension over oil pan skid plate main body using 2x 3/8" x 1" carriage bolts, 2x ½" washers, and 2x ½" nylock nuts. Tighten control arm nut. Your hardware kit may have a rectangular welded nut plate, use if included.



13. Tighten all skid plate hardware at this time.

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## **Rock Hard 4x4 Exclusive Limited Lifetime Warranty**

*Your Rock Hard 4x4® branded accessories are covered by the following Limited Warranty provided exclusively by Rock Hard 4x4, 1005 Twin Forks Lane, St. Paul, NE 68873.*

*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.*

*What is Covered: Subject to the terms, exclusions and limitations herein and with respect only to Rock Hard 4x4 branded accessories first sold in the United States, Rock Hard 4x4 warrants to the initial retail purchaser only that your Rock Hard 4x4 accessory shall be free of defects in material and workmanship for the lifetime of this product.*

*Rock Hard 4x4 reserves the rights to: (a.) require invoice or other proof your accessory is within the terms of this Limited Warranty as a condition of warranty service and, (b.) make future revisions to this product and Limited Warranty without prior notice or obligation to upgrade your product.*

**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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