



**ROCK HARD 4X4 JEEP WRANGLER JK 2/4-DOOR  
2007-2018 OIL PAN, TRANSMISSION, CAT SKID PLATE  
PART #: RH-6000-LA/RH-6003/6040/6043/6083/6080  
Installation Manual**



**INSTALLATION VIDEO AVAILABLE**



**PLEASE VISIT [YOUTUBE.COM/C/ROCKHARD4X4](https://www.youtube.com/c/RockHard4x4)**

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Thank you for your purchase! Please read all instructions carefully prior to  
beginning installation of your Rock Hard 4x4 product.

## **PACKING LIST:**

- 1 - SKID PLATE
- 1 - CATALYTIC CONVERTER  
SKID PLATE (SHORT ARM  
SKID ONLY)
- 1 - RIGHT SIDE FRONT STRAP  
BRACE
- 1 - LEFT SIDE FRONT STRAP  
BRACE
- 1 - SHIM
- 4 - 1/2" X 1 1/4" STD BOLTS
- 4 - 1/2" STD NYLOCK NUTS
- 3 - 12MM X 1.5 X 35MM BOLTS
- 1 - 12MM X 1.5 X 90MM BOLTS
- 1 - 12MM X 1.5 NUT
- 1 - 1/2" HARDENED FLAT  
WASHER
- 1 - 1/2" LOCK WASHER
- 4 - 1/2" TAPERED WASHERS
- 2 - 3/8" X 1" BUTTON HEAD  
BOLTS (SHORT ARM ONLY)
- 2 - 3/8" NYLOCK NUTS  
(SHORT ARM ONLY)
- 1 - 3/8" X 1" HEX HEAD
- 1 - 3/8" LOCK WASHER
- 1 - 3/8" TAPERED WASHER

## **REQUIRED TOOLS:**

- 18MM SOCKET
- 3/4" SOCKET
- PUNCH
- 9/16" WRENCH
- 7/32" ALLEN

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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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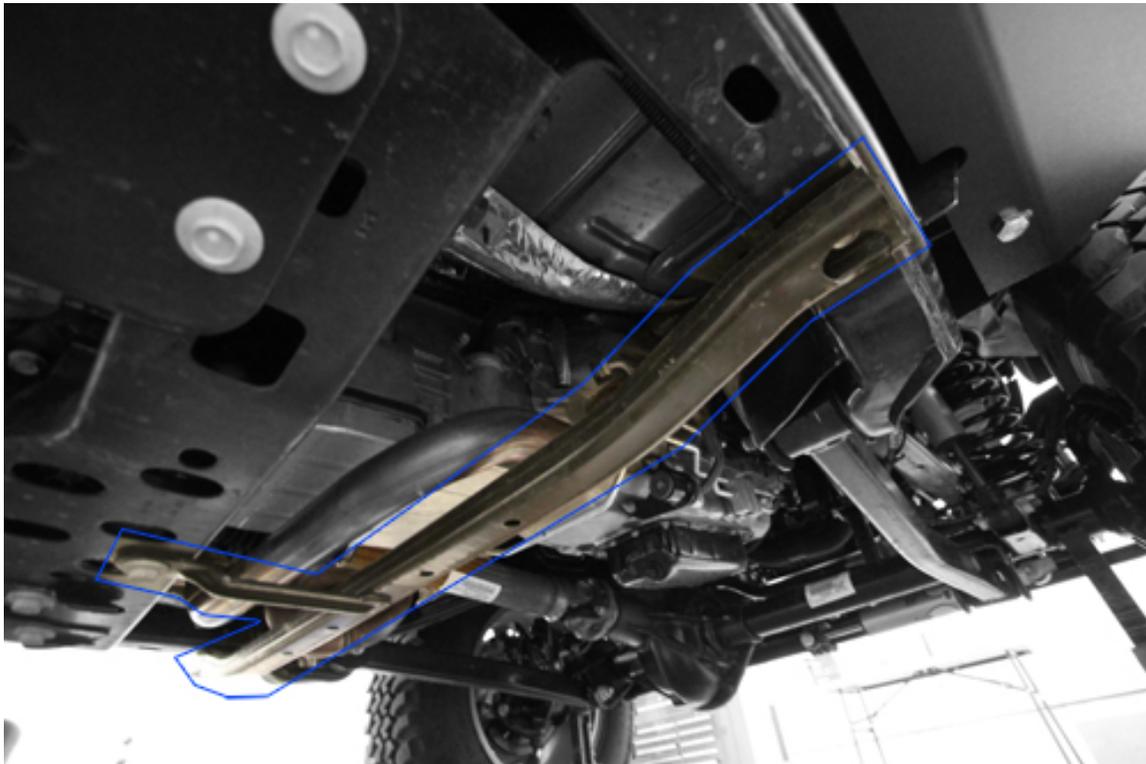
*TECH TIP: THIS SKID PLATE IS DESIGNED TO WORK WITH THE OEM CROSSMEMBER. WHILE MANY AFTERMARKET CROSS MEMBERS ARE COMPATIBLE, SOME MANUFACTURERS ARE USING DIFFERENT THREAD PITCHES. YOU MAY HAVE TO SOURCE YOUR OWN HARDWARE.*

*IF RETAINING OEM TRANSFER CASE SKID PLATE:*

*The factory Jeep transfer case skid plate has knurnled/stamped ends where it mounts to your crossmember. Because of this, you cannot install those 2 points between your Rock Hard 4x4 oil pan skid plate and crossmember. Those 2 Jeep transfer case skid mounts must be installed closest to ground.*

1. Remove factory oil pan brace if your vehicle is equipped (2012 and newer JK's).

***DO NOT remove OEM cross member.***



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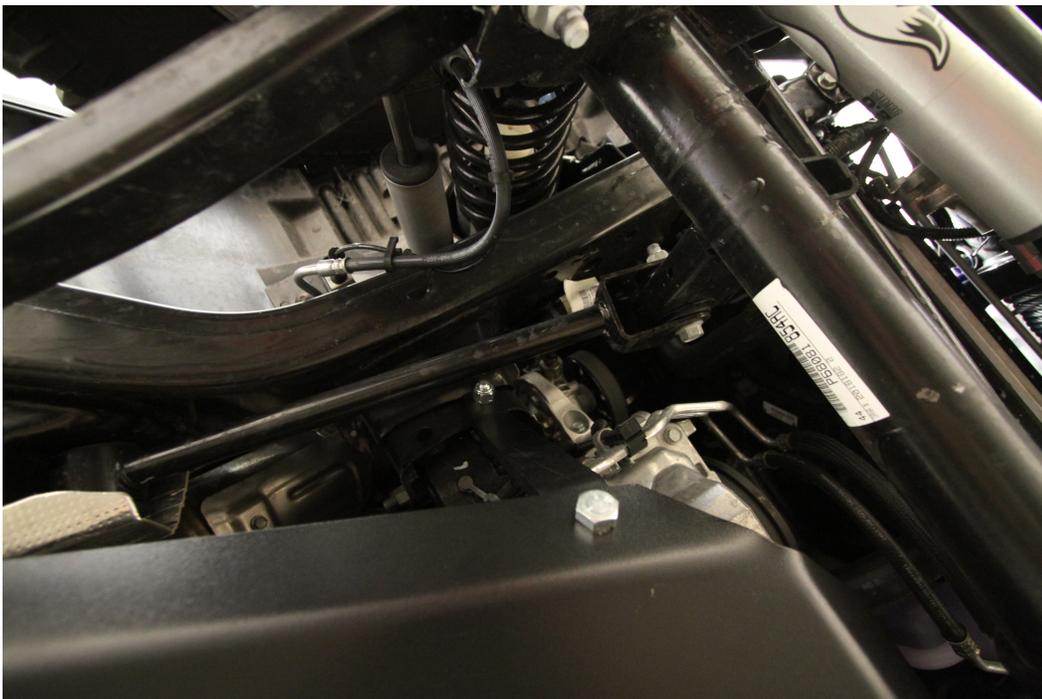
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2. Remove factory transfer case skid plate using 18MM socket. *If not installing Rock Hard 4x4 Transfer Case Skid Plate at this time: Remember during reinstall it will install OVER Rock Hard 4x4 Oil Pan / Transmission skid plate. Over meaning it will be closest to ground. This is because of tapered front mounting holes on OEM transfer case skid plate. They cannot be installed under our skid plate as they will not allow it to sit flush against crossmember.*

#### LOCATE FRONT MOTOR MOUNT SUPPORT BRACKETS

3. Install passenger side mounting bracket (bend in each end forming an “s” shape.) Use two coarse thread  $\frac{1}{2}$ ” x  $1 \frac{1}{4}$ ” bolts and two  $\frac{1}{2}$ ” nylock nuts. Upper bolts use front (toward front of vehicle) slotted hole in frame just below motor mount. Drop bolt from top down.

*PRO TIP: On 2012 put bracket on outside of skid plate. This helps “shim over” the skid plate to clear the driveshaft boot on suspension systems with lots of articulation.*



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4. Install driver side bracket (bends in center). Use two coarse thread ½" x 1 ¼" bolts and nylock nuts. Short leg of bracket mounts to top and uses rear slotted hole in frame below motor mount. Hand tighten all bracket bolts. Drop bolt from top down.  
*PRO TIP: On 2012 put bracket on outside of skid plate. This helps "shim over" the skid plate to clear the driveshaft boot on suspension systems with lots of articulation.*
5. Mount driver side bracket to front of skid plate. Hand tighten at this time.
6. Mount passenger side bracket to front of skid plate. Hand tighten at this time.
7. Install supplied shim plate if required to help clear exhaust crossover pipe. Shim plate will install against cross member, between cross member and oil pan skid plate (or if installing Rock Hard 4x4 Transfer Case skid plate at same time, the shim plate will install between cross member and transfer case skid plate, then install oil pan skid plate over the combo).
8. Tighten rear cross member bolts starting with outer driver side bolt first. Use a punch to help align plate if needed. Remember, if installing Rock Hard 4x4 Transfer Case at same time, the oil pan skid plate installs OVER the transfer case skid plate. That means the oil pan skid plate will install closest to ground. These can all be hand tight at this time.
9. Install outer most passenger side bolt with supplied longer bolt since there is no welded nut in that hole in cross member. Use bolt, rock dome washers, washer, lock washer,

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and nut. This can be hand tight at this time. Install next 2 bolts.

10. Install catalytic converter skid plate (only if short arm skid plate – this is not included in long arm skid plate). Install remaining metric bolt using  $\frac{3}{4}$ " socket into factory hole with welded nut into frame rail, driver side, near cross member. Hand tighten. Install 2 button head bolts with nylock nuts using  $\frac{9}{16}$ " wrench and  $\frac{7}{32}$ " allen. Once you've fully tightened 2 button head bolts, fully tighten frame rail bolt.
11. Tighten all hardware.
12. Start vehicle and let engine warm up and test drive. If you have aftermarket suspension that included an exhaust spacer, check to see if exhaust crossover pipe is contacting skid plates. If so, ensure you have installed shim plate. Ensure driver side exhaust hanger has not come dislodged. If contact is still made, contact Rock Hard 4x4 for an additional shim plate (sold separately).

## **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.*

**Your Rights Under State Law:** *In consideration of the purchase price paid, neither Rock Hard 4x4 nor any independent Rock Hard 4x4 distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased.*

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