



INSTALL INSTRUCTIONS

Application : 2007-2018 Jeep Wrangler JK

JK Rear Mid-Width Bumper & Carrier: 5072R1B-TC

I WARNING

Read the instructions completely before beginning installation. Before tightening bolts, drilling or cutting where required, check to make sure there are no obstructions such as brake, fuel or electrical lines which may be damaged. Also keep in mind this is an after-market product and MAY require minor shimming and/or trimming, reaming, etc. for proper fit. Road Armor is not responsible for any damages to vehicle.

i IMPORTANT NOTICE

- Be sure to inspect and test fit your product to ensure proper fitment before having it coated, painted, bed lined, etc.
- Road Armor will not be responsible for the cost of coating your unit if any problems with fit or finish are not noted and addressed beforehand.

SAFETY FIRST!

- FOLLOW ALL INSTRUCTIONS, YOUR SAFETY AND THE SAFETY OF OTHERS IS MOST IMPORTANT.
- WEAR APPROPRIATE EYE PROTECTION AND EXERCISE CAUTION WHEN DRILLING / CUTTING

REQUIRED TOOLS

Metric and SAE Socket Sets and Wrenches	36mm Socket (Spindle Nut)
Bearing / Race Driver Set	Grease Gun / Grease (Packing Bearings)



INCLUDED HARDWARE

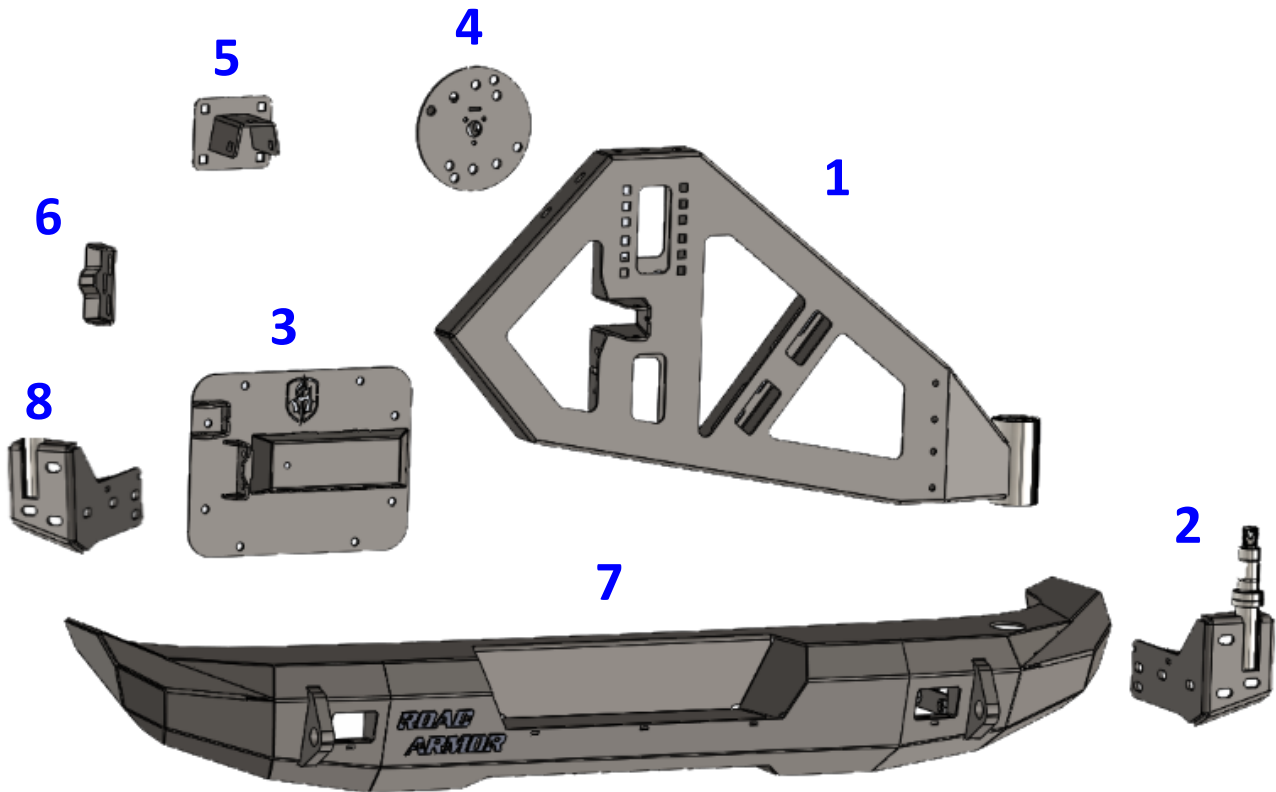
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|--|--|
| (6) 1/2" x 1.5" Bolt Tabs | (2) 5/16" x 1.5" Bolts |
| (2) 1/2" x 3" Bolts | (2) 5/16" Nut |
| (4) 1/2" x 1.5" Bolts | (4) 5/16" USS Washers |
| (15) 1/2" Nuts | (3) 3/8" x 1" Bolts |
| (31) 1/2" Large Washers | (3) 3/8" Nut |
| (19) 1/2" Lock Washers | (6) 3/8" USS Washers |
| (13) 1/2" Keeper Washers | (3) 1/2"-20 Wheel Studs |
| (7) 1/2" x 1.5" Carriage Bolts | (4) #10-24 Bolts |
| (1) 1/2" Right & Left Hand Jam Nuts | (4) #10-24 Nut |
| (1) 1/2" Right & Left Hand HEIM Joints | (2) 8" Zip Ties |
| (1) 1/2"-20 Right & Left Hand Rod End | (1) ROAD ARMOR Logo (Bumper) |
| (2) 9/16"x1" Spacer Sleeves | (2) 1/2" Double Nut Plate (Bumper Bracket) |

& TIRE CARRIER PARTS

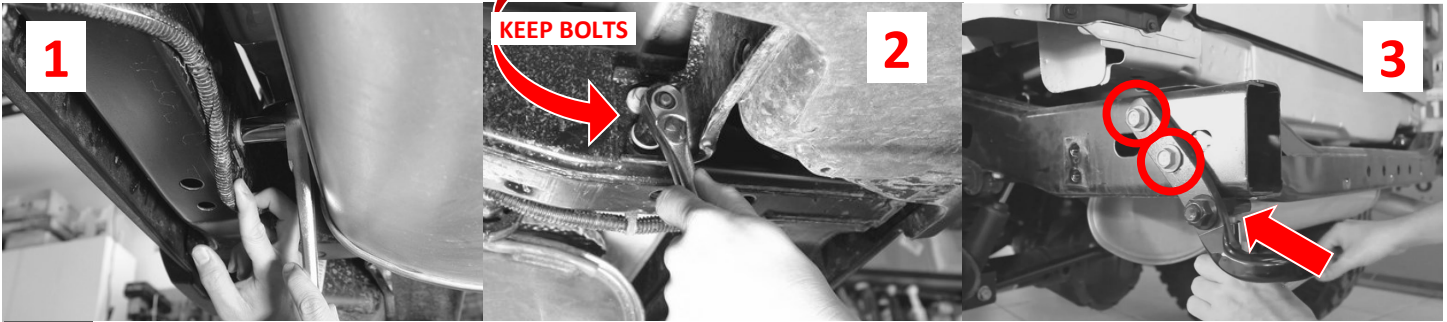
- (1) 1" Large Washer & Nut
- (1) Large O-RING
- (1) Timken Seal
- (2) Timken Bearing & Race Set
- (1) ROAD ARMOR Logo Cap
- (1) Tailgate Isolator
- (1) Main Carrier Frame
- (1) PSG Side Spindle Mount
- (1) Tailgate Mount
- (1) STD Length Wheel Mount (2 Pcs.)
- (1) Isolator Bracket
- (1) Main Bumper & DVR Frame Bracket

40 INCH TIRES MAXIMUM

- | | |
|---|---|
| <p>1 Main Carrier Frame</p> <p>2 PSG Spindle/Frame Bracket</p> <p>3 Tailgate Mount</p> <p>4 Wheel Bracket</p> | <p>5 Wheel Bracket Base</p> <p>6 Isolator Bracket</p> <p>7 Main Bumper</p> <p>8 DVR Frame Bracket</p> |
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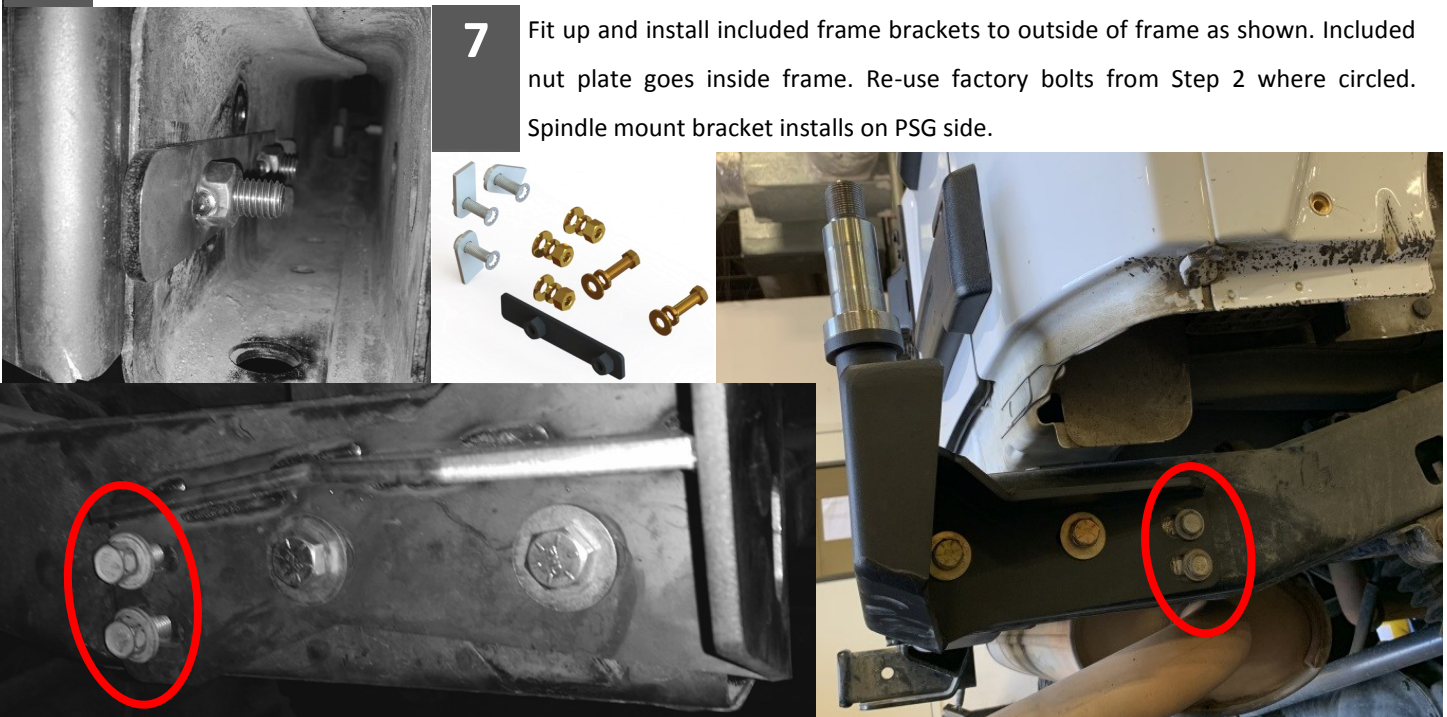
- 1** Using a 16mm socket, remove the bolts securing the inner mounting brackets to the rear cross member.
- 2** Now remove the 2 bolts securing the rear bumper outer mounting brackets. Set aside these bolts as they will be reused.
- 3** Remove factory recovery hook if equipped. One bolt on the bottom and two through the frame. Discard the nut plate.



4 Pull off factory bumper and set aside.

5 **Install Road Armor Logo with included #10 Stainless Button Head Bolts and Keps Nuts.**

6 **Install SRM lights as this is not possible after Road Armor bumper has been installed. **



7 Fit up and install included frame brackets to outside of frame as shown. Included nut plate goes inside frame. Re-use factory bolts from Step 2 where circled. Spindle mount bracket installs on PSG side.

8 Remove the spare tire from tail gate and set it aside.

9 Using a 13mm socket, remove the 8 bolts securing the spare tire carrier mount to the tailgate and allow to hang.

10 On the inside of the tailgate near the latch, pop out the vented plastic piece to gain access to wiring.



11 Press down on the plastic clip and then unplug the 3rd brake light wiring harness and remove along with the pass through grommet . You can find many creative ways to re-purpose this light if you search online if you like.

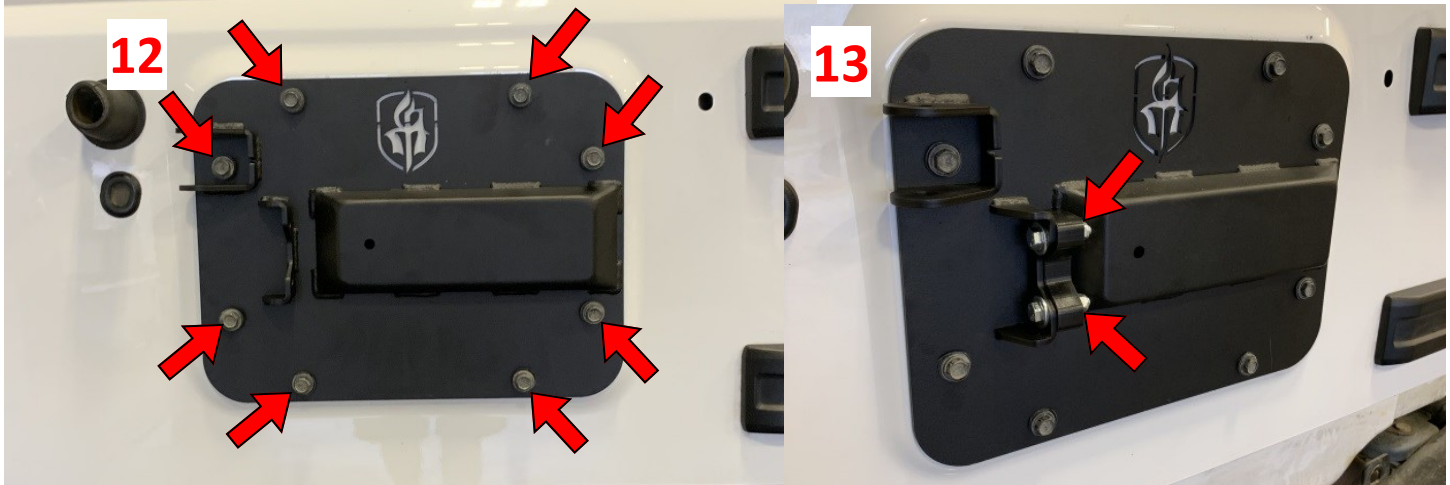
◇ PREPARING REAR TIRE CARRIER ◇

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13
14

Install TAILGATE MOUNT using OEM bolt previously removed as shown:

Install TAILGATE ISOLATOR using 2 - 5/16" HARDWARE.

Feed both OE wire harness through TAILGATE MOUNT.



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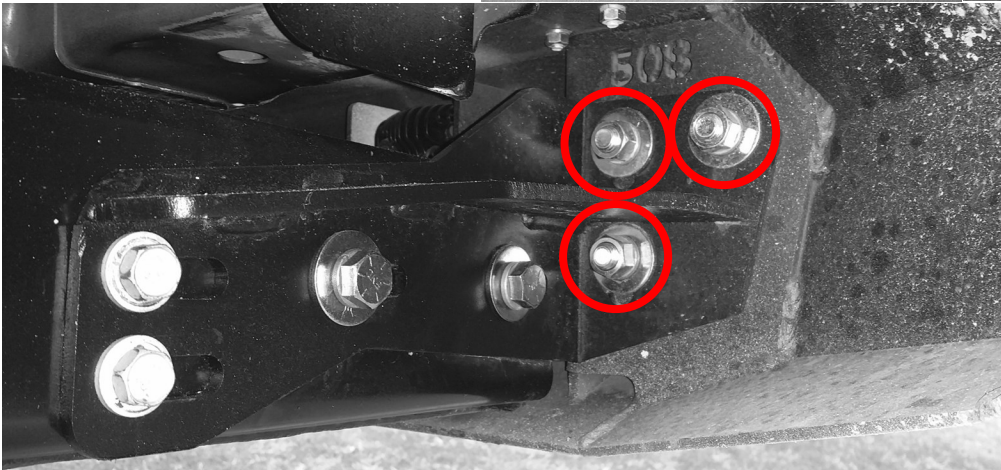
Using race driver tool, Install 2 - BEARING RACES into CARRIER FRAME.

Using grease gun, pack 2 - BEARINGS with grease. ****Lightly Grease SPINDLE & HOUSING as well****



TIRE CARRIER ASSEMBLED—CONTINUE FROM HERE

- 16** Install the Bolt Tabs through bumper using the included keeper washers. Use a 3/4" deep socket to push the washers over the threads.



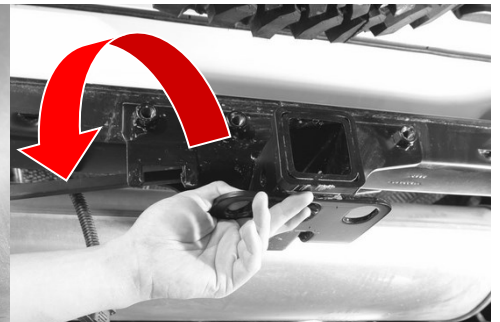
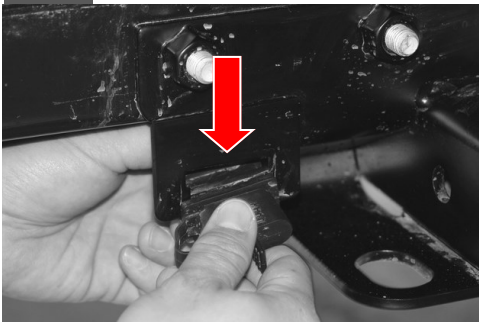
- 17** Fit up your new Road Armor Bumper and start a washer, lock washer and nut over each bolt.

Once all nuts are finger tight, check fitment and tighten them all down.

Check that all the bracket bolts are fully tight as well.

IF YOU HAVE ANY INTERFERENCE ISSUES WITH THE FACTORY TOW HITCH RECEIVER

- 18** Pull the wiring harness straight down and out of it's mount and zip tie it out of the way.
- 19** Remove the 4 bolts securing the tow hitch receiver to the rear cross member using an 18mm socket.
- 20** If the tow hitch receiver is difficult to remove, use a pry bar to assist in removal.
- 21** Now install bumper as in STEP 18, then using a floor jack and a block of wood, re-install the tow hitch.



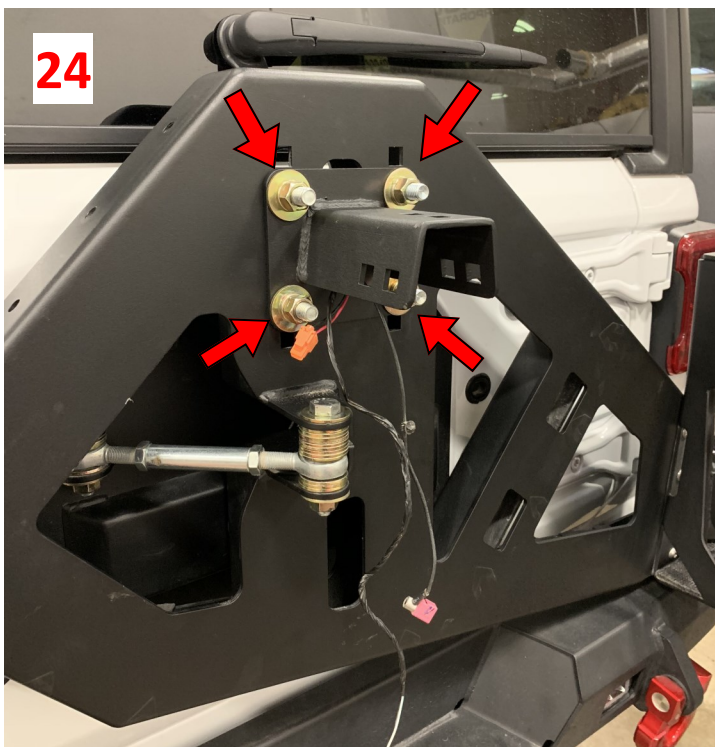
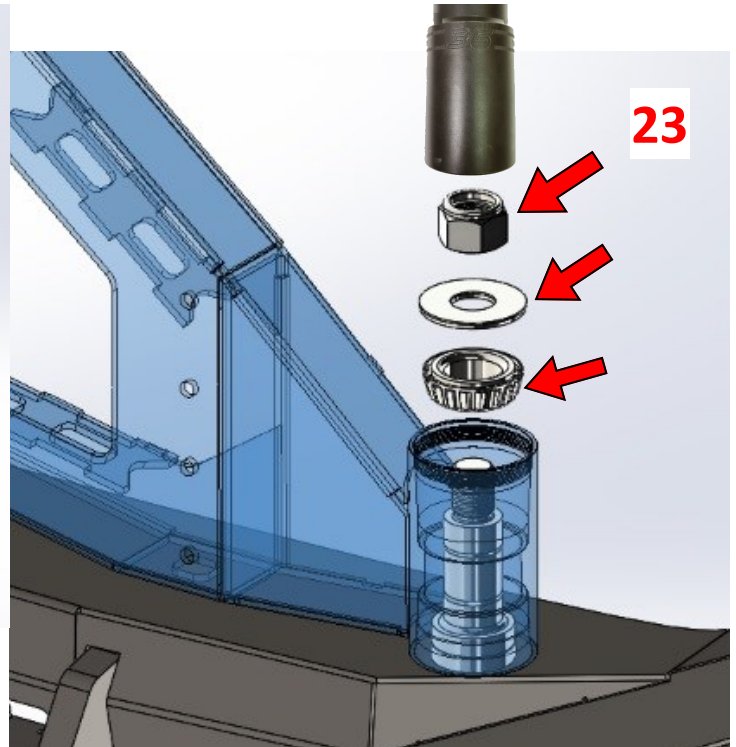
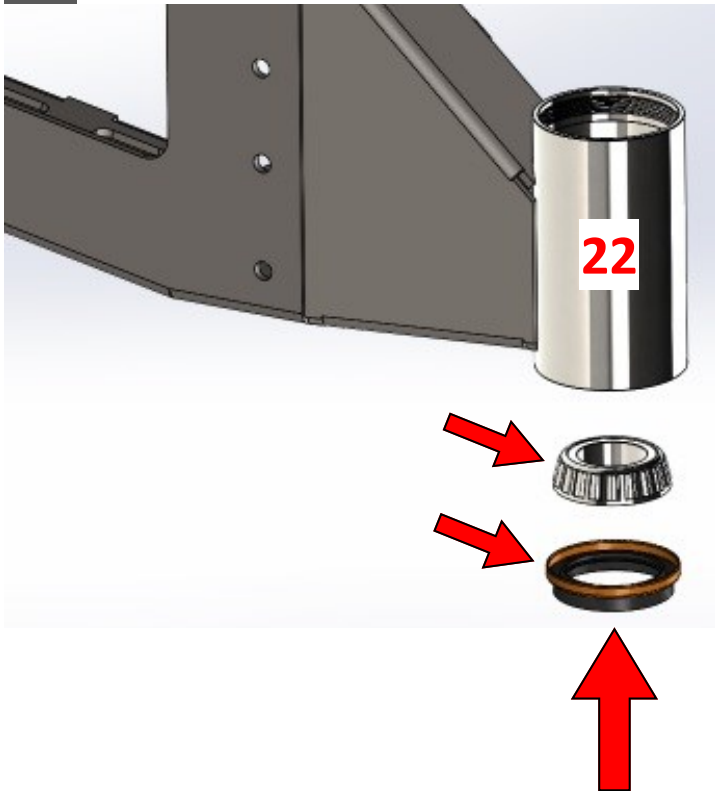
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Install 1 - BEARING into bottom part of SPINDLE HOUSING followed by 1 - BEARING SEAL.

Use seal driver to prevent damage

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Install 1 - BEARING, WASHER and NUT into SPINDLE BRACKET as shown below . Use 36mm socket to secure the SPINDLE NUT. ****DO NOT OVER TIGHTEN SPINDLE NUT****



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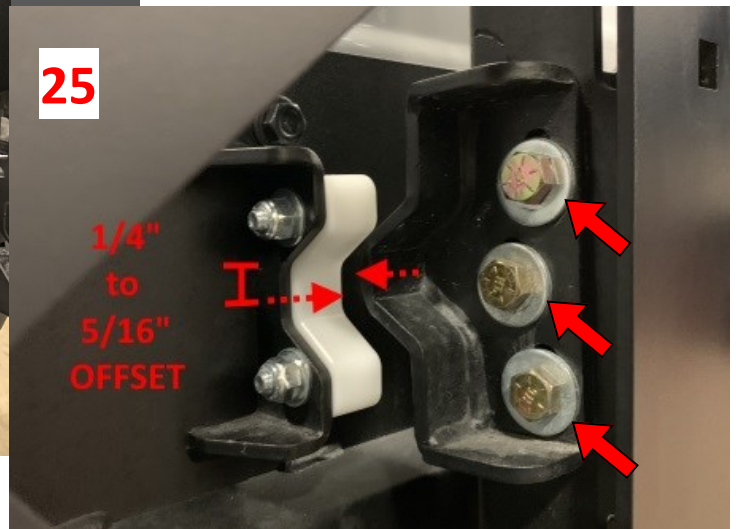
Install 5" WHEEL BRACKET BASE onto CARRIER using 4 - 1/2" CARRIAGE BOLTS & HARDWARE.

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Install ISOLATOR BRACKET onto CARRIER FRAME using 3 - 3/8" BOLTS, NUTS & WASHERS.

NOTE

Adjust ISOLATOR BRACKET approximately 1/4" to 5/16" HIGHER than the ISOLATOR as shown for proper tire Pre-LOAD and proper "isolation".



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Install 3 - M14 Stud into kit WHEEL BRACKET. 5x5 | 5x5.5 | 8x6.5 patterns are provided above.

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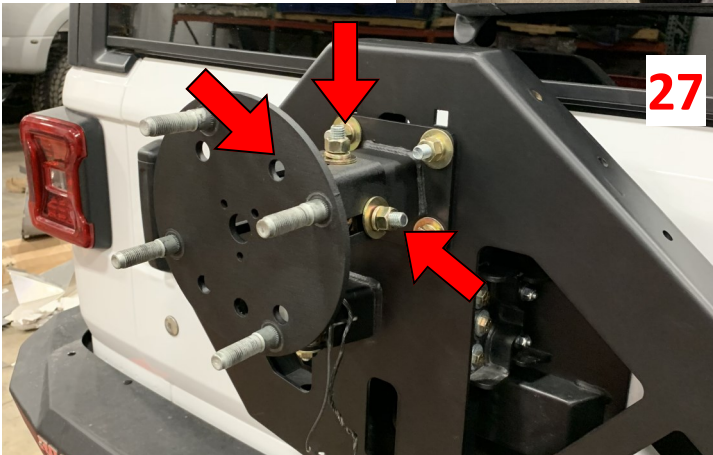
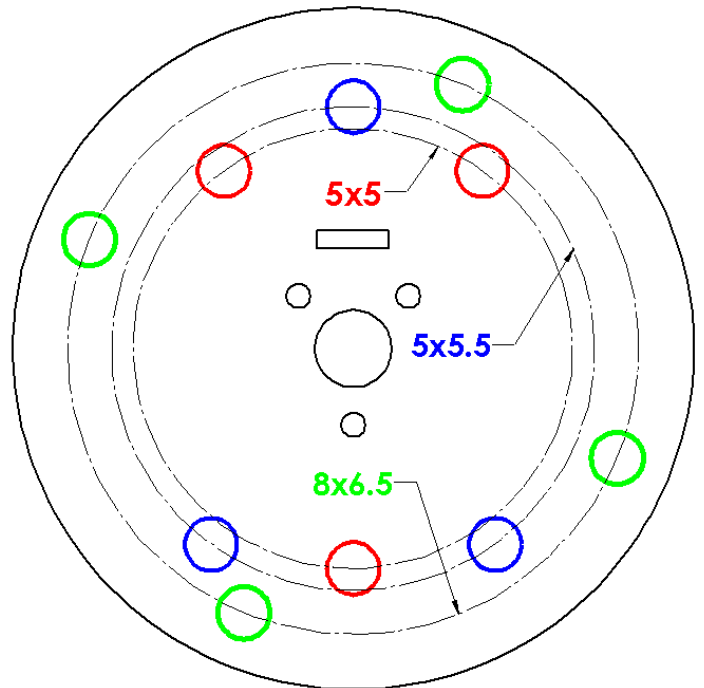
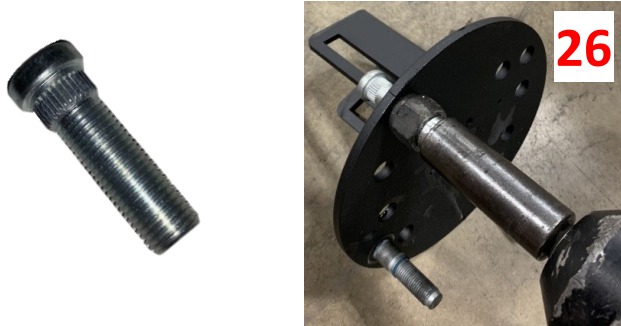
Install WHEEL BRACKET onto WHEEL BRACKET BASE using 3 - 1/2" CARRIAGE BOLTS, NUTS & WASHERS.

Adjust to proper "back-space" measurement

NOTE

MEASURE "back-spacing" from wheel mount surface to end of the tire bulk.

TIRE MUST COMPRESS AGAINST KIT CARRIER FRAME



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Assemble and Install 2 - 1/2" HEIM JOINT, ROD END, 5/8" SPACER and SHIMS onto CARRIER FRAME and TAILGATE MOUNT.

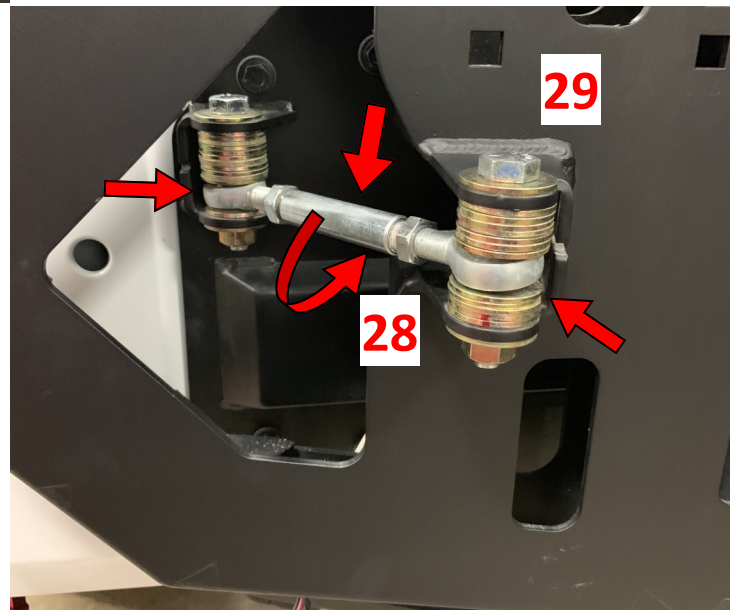
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Secure 1/2" HEIM ASSEMBLY using 2 - 1/2"x3" hardware. ***Adjustment Required***

NOTE

After tire is installed (Pre-LOADED Carrier), 1/2" HEIM ASSEMBLY can be "adjusted snug" to tailgate by opening tailgate, adjusting 1/2" HEIM ASSEMBLY to desired ISOLATOR Pre-LOAD pressure and tighten both 1/2" JAM NUTS. Doing so will isolate any vibration or noise occurring from rear tire carrier assembly during use.

****DO NOT OVER TIGHTEN HEIM****



STOP

INSTALL TIRE CARRIER ACCESSORIES AT THIS TIME

STOP



4 GAL ROTOPAX MOUNT

HiLift JACK MOUNT

EXTENDED 8.5\"/>

4-GAL ROTOPAX MOUNT — 518RTC-RPMB

HiLift JACK MOUNT — 518RTC-HLMB

EXTENDED 8.5\"/>

JK LICENSE PLATE MOUNT — 507RTCLPMB

NOTE

****Road Armor recommends using ORO LITEPLATE with harness to reconnect license light****

offroadonly.com/shop/led-lighting/off-road-only-litedot-liteplate-license-plate-led-light-with-6-disconnectable-harness/

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Install wheel and tire assembly using OEM lug nuts or aftermarket wheel locks at this time.

NOTE

****BE SURE TIRE COMPRESSES AGAINST CARRIER FRAME TO ELIMINATE VIBRATIONS****



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Once all weight has been added to carrier, check spindle nut torque, apply light amount of grease to inside of housing and threads to prevent rusting or moisture build-up. ****Secure RA-LOGO-CAP****



ENJOY YOUR NEW ROAD ARMOR STEALTH TIRE CARRIER

****Check and retighten all mounting bolts after 150 miles and periodically after****