

BUMPER MOUNTED TIRE CARRIER

07-18 JEEP WRANGLER JK
(RBJK-13 REQUIRED)
TCJK-13



TOOLS REQUIRED

- 13, 16, 18, 19, 30mm Socket
- 13, 16, 19 (2x), 30mm Wrench
- Rubber Mallet
- Trim Clip Tool
- Gloves (Recommended)
- Grease
- Marker (Bright Color Preferred)
- Swivel Socket
- Extensions

SKILL LEVEL

- Intermediate
- 2 persons

Little skill level required, you can install it by yourself however, additional help will be useful.

TIME REQUIRED

- 2 Hour

Time to install this should only take about two hours.

WARNINGS/CAUTIONS BEFORE STARTING INSTALLATION

Before you install this kit – Read and understand all instructions, warnings, cautions, and notes contained in this installation instruction guide. Consult your vehicle owner's manual for proper disconnection of electrical and lifting of vehicle if required for installation of this product.

This install may require some technical skills and knowledge of basic mechanical work. If you do not feel that you are capable of performing this install please take this product to a trained professional.

After reading this guide please contact us with any questions or concerns before installing product.
Customer Service: 855-680-9595

DV8 Offroad is not responsible for any bodily injury or harm to you or your vehicle as a result of an improper install.

Proper installation of this kit required knowledge of the factory recommended procedures for removal and installation of original equipment components. We recommend that the factory shop manual and any special tools needed to service your vehicle be on hand during the installation. Installation of this kit without proper knowledge of the factory recommended procedures may affect the performance of these components and the safety of the vehicle

- Always wear eye protection when operating power tools

Inspect all contents of this package to make sure product is not damaged and all installation hardware has been included. If parts are missing from kit, please be prepared to provide the following information

1. Name of purchase location
2. Bar Code on side of box
3. Date above bar code
4. Date inside box cover

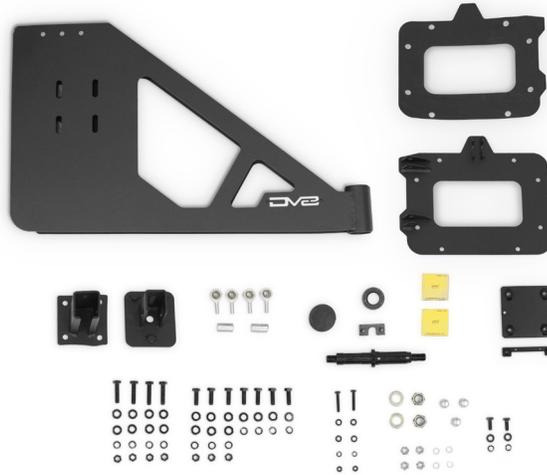


INSTALLATION MANUAL

Begin by unpacking all items and inspecting for missing pieces or damage. If you have any concerns, please contact the company the product was purchased from.

HARDWARE INCLUDED

- | | |
|-------------------------|-----------------------------------------|
| (3) 1/2"-20 Lug Nuts | (4) M12x50 Hex |
| (2) M10x25 Hex | (4) M12 Split Washer |
| (2) M10 Flat Washer | (4) M12 Nuts |
| (2) Split Washers | (8) M12 Flat Washers |
| (7) M12x35 Hex | (4) M12 Spacers |
| (10) M12 Flat Washers | (2) Right-Hand Thread Heim Joints |
| (7) M12 Split Washers | (2) Left-Hand Thread Heim Joints |
| (3) M12 Nuts | (2) Connecting Nuts (Right-Hand Thread) |
| (2) M20 Flat Washers | (2) Connecting Nuts (Left-Hand Thread) |
| (2) M20 Nylon Lock Nuts | (2) Heim Nuts (Right-Hand Thread) |
| (2) M8x45 Hex | |
| (2) M8 Split Washers | |
| (2) M8 Nuts | |
| (4) M8 Flat Washers | |



STEP 1 | Remove the spare tire from the vehicle.



INSTALLATION MANUAL

STEP 2 | Open the tailgate and use a trim clip tool to remove the trim panel on the tailgate.

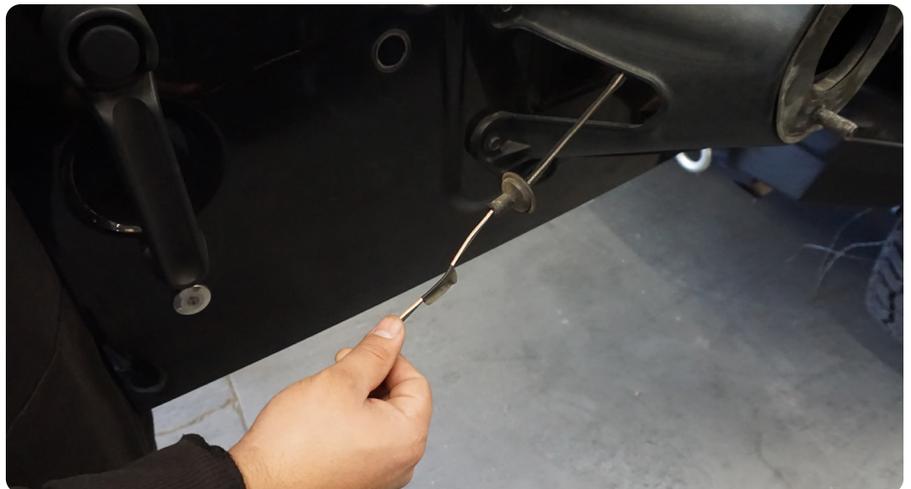


STEP 3 | Disconnect the third brake light wiring harness.

Use a trim clip tool, if necessary.



STEP 4 | Feed the wiring/rubber plug through to the outside of the vehicle.



INSTALLATION MANUAL

STEP 5 | Remove the rubber tire stoppers by pulling them out.

If you must use a trim clip tool, be careful not to scratch any paint.



STEP 6 | Use a 13mm socket to remove the hardware securing the tire carrier to the vehicle, and set the carrier off to the side.



INSTALLATION MANUAL

STEP 7 | Use a 13mm socket and wrench with the provided M8 hardware to secure the rubber catch onto the backing plate.



STEP 8 | Carefully peel and apply the provided foam to the backside backing plate.



INSTALLATION MANUAL

STEP 9 | Supplied in the kit are four heim joints.

(2) of these are right hand thread and (2) of them are left hand thread.

It does not matter if left hand or right hand thread heims are used on the backing plate, however it is crucial to make sure they are matching.

For example: If you install a left hand thread heim joint on the top mount of backing plate, you **MUST** use the matching left hand thread heim joint for the bottom mount.



STEP 10 | Install and secure these using the provided M10 hardware with an alignment spacer.



INSTALLATION MANUAL

STEP 11 | Secure the backing plate to the tailgate using the factory hardware with a 13mm socket/wrench.

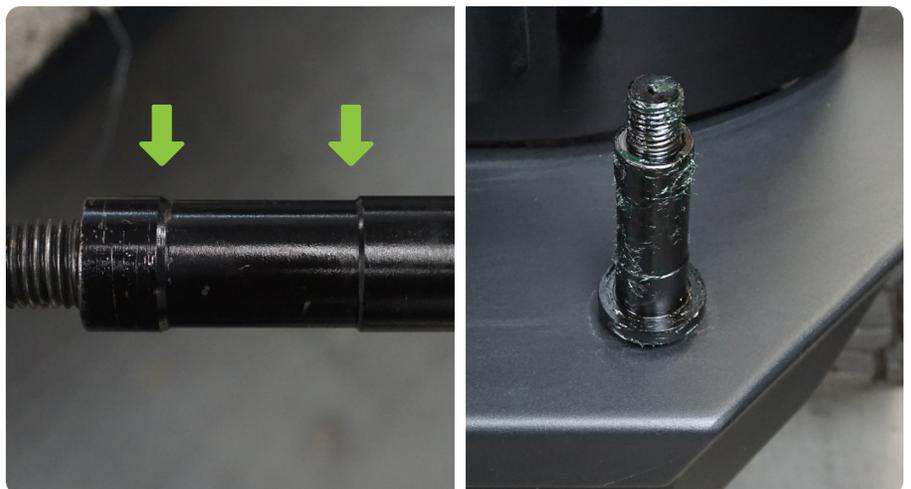


STEP 12 | Use a trim clip tool to remove the dust cap.



STEP 13 | Slide the spindle through the top of the bumper.

The side with the small recess will be pointing upwards.



INSTALLATION MANUAL

STEP 14 | Grease the supplied bearings, races, and spindle generously ensuring complete coverage on the inside and outside.



STEP 15 | Install one of the provided bearing/race sets into the bottom of the tire carrier.

Ensure it is firmly seated as shown.



INSTALLATION MANUAL

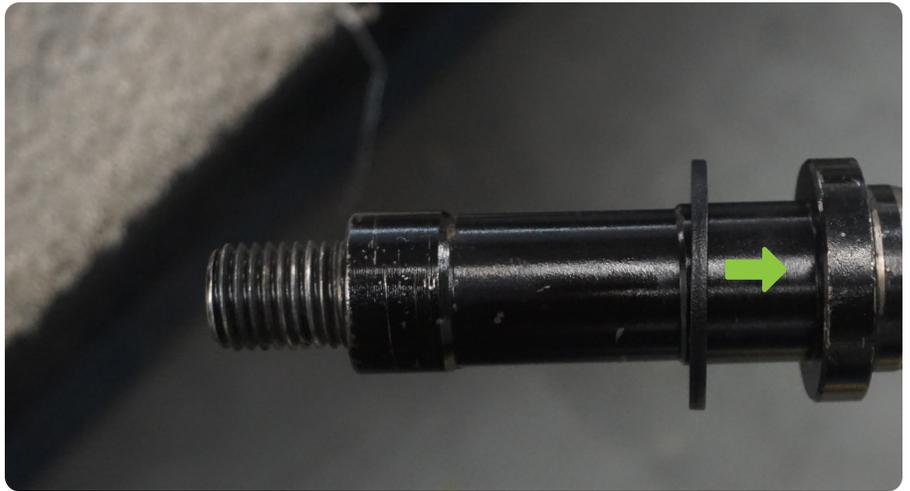
STEP 16 | Install the provided seal on the bottom of the tire carrier ensuring that is seated flush against the carrier.

Use a rubber mallet gently, if necessary.



STEP 17 | Install the larger provided black washer onto the top of the spindle.

Then, place your carrier onto the spindle.



STEP 18 | Install one of the provided bearing/race sets into the top of the tire carrier.

Ensure it is firmly seated as shown.



INSTALLATION MANUAL

STEP 19 | Place the M20 flat washer and nylon locknut on the spindle post and secure using a 30mm socket.

Note: Take caution not to over-torque the nut. This can lead to pre-mature failure of the bearing.



STEP 20 | Install the M20 lock nut and flat washer on the bottom side of the spindle and secure using a 30mm socket.

Note: Take caution not to over-torque the nut. This can lead to pre-mature failure of the bearing.



STEP 21 | Install the dust cap to the top of the spindle.

Use a rubber mallet or similar if necessary.



INSTALLATION MANUAL

STEP 22 | The long skinny bracket with welded nuts will be used to secure the tire catch to the swing arm.

Slide it into place and loosely secure the tire catch using the provided M10x25 hardware using a 16mm socket.



STEP 23 | Gently close the tailgate to determine the adjustment for the tire catch.

Once the catch is seated, secure it using a 16mm wrench.



INSTALLATION MANUAL

STEP 24 | Assemble the main two tire carrier brackets and then loosely secure them using the provided M10x35 hardware with a 16mm socket.

These must be left loose to allow for adjustment later on in the install.



STEP 25 | Slide the large square nutplate into the swing arm of the tire carrier, and secure the main tire carrier assembly to the swing arm using the provided M10x35 hardware with a 16mm socket.

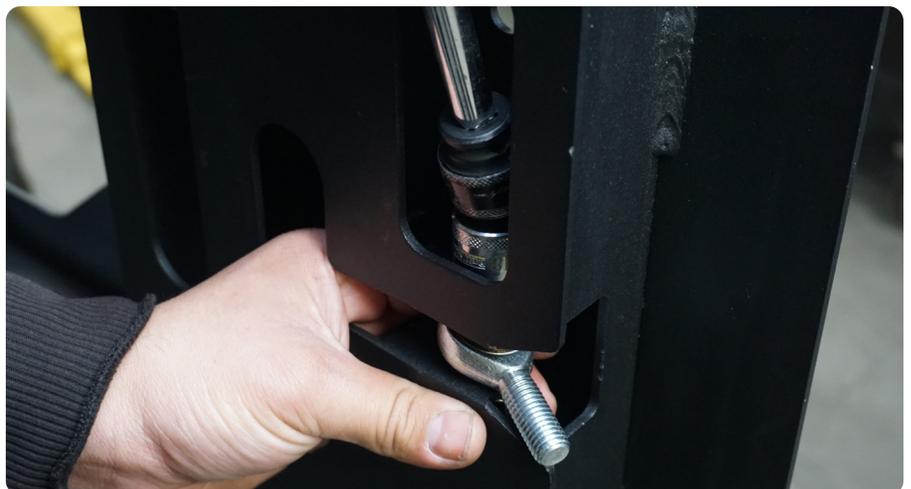
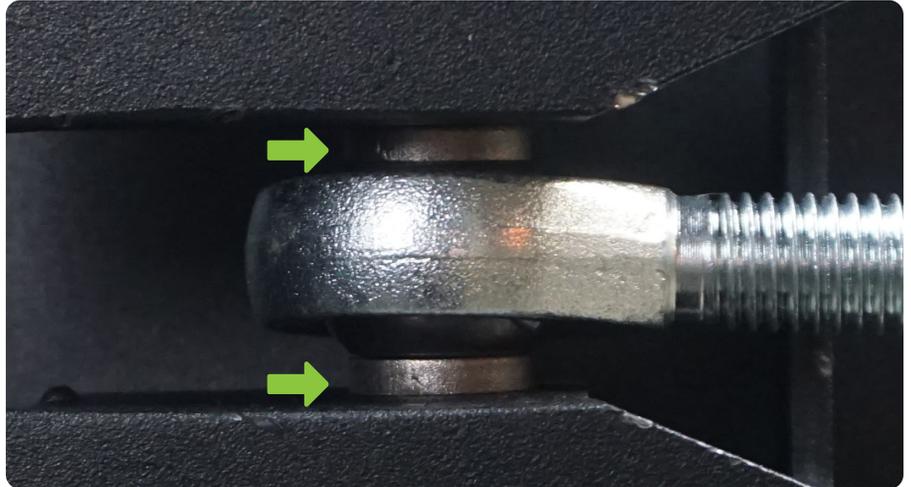
Note: The carrier must be installed with the braces on the topside for structural integrity.



INSTALLATION MANUAL

STEP 26 | Install the heim joints using the provided M10x50 hardware with a 16mm socket and necessary extensions..

Use the provided alignment shims on the top AND bottom of BOTH heim joints.

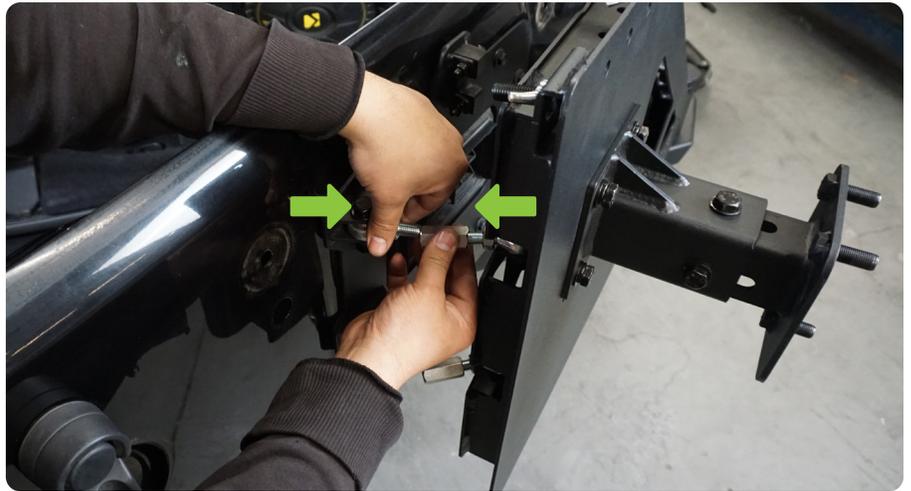


INSTALLATION MANUAL

STEP 27 | Thread the provided set-nuts onto the heim joints.



STEP 28 | Swing the tire carrier close to the backing plate, and use the large connecting nuts to connect the backing plate to the swing arm.



INSTALLATION MANUAL

To adjust the carrier properly, the tailgate should almost closed, but not latched.

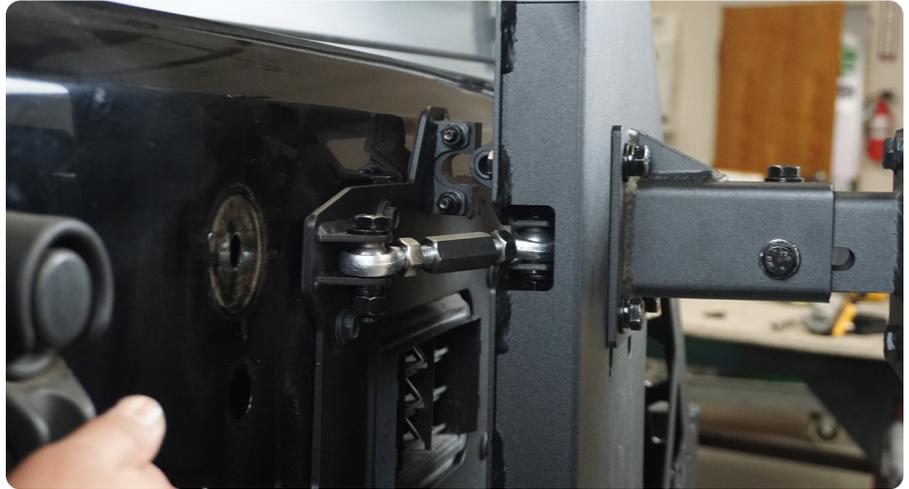
Spin the center nuts to close the gap between the swing arm and tailgate by hand while leaving the tailgate slightly open.

An excessive amount of pre-load could damage the tailgate when you close it so this step must be performed carefully, and correctly.

Once the center nut begins to have tension and becomes difficult to turn, gently push the tailgate into the latched position to check the tension.

The tension on the swing arm created by closing the door is important to prevent any rattling or movement of the carrier when in the closed position. Too much pre-load can lead to excessive stress on the tailgate.

Once confident that the pre-load has been set correctly, and the carrier is rigid and rattle free with the tailgate in the closed position, tighten the (4) set nuts using (2) 19mm wrenches.



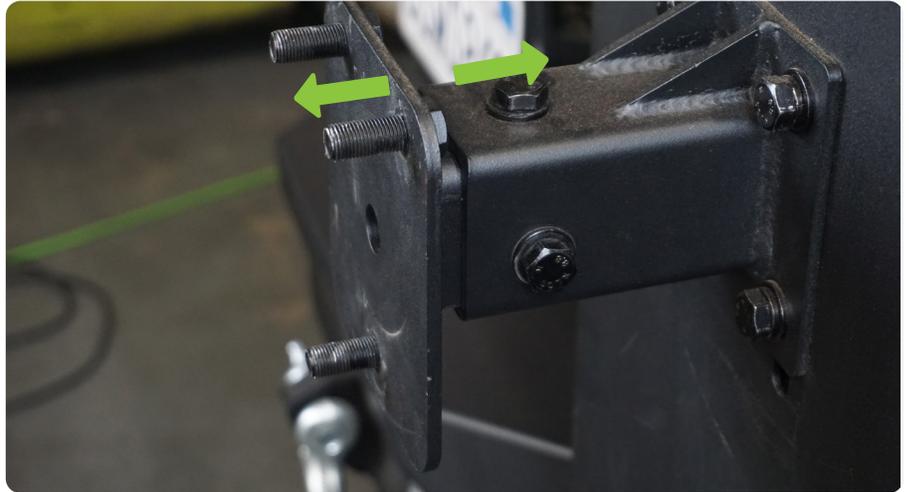
INSTALLATION MANUAL

STEP 29 | To properly adjust the in/out position of the carrier assembly, install and loosely secure the spare tire to the carrier.

The tire should not be completely secured to the carrier assembly, only enough that the tire is secure and will not fall off.

Once loosely secured, push on the tire until the tire is contacting the carrier like shown.

Note: It may be helpful to secure one of the side bolts so the carrier does not move as you attempt to install the tire. It will have to be loosened for adjustment after the tire is installed.



INSTALLATION MANUAL

STEP 30 | With the tire contacting the carrier mark where the position of the tire carrier portion of the assembly.

Then, remove the spare tire.



STEP 31 | Push the carrier approximately 1/4" in from the marked line.

It may be partially visible, or not visible at all once adjusted.

This helps the tire to be tensioned against the carrier once the lug nuts are tightened. This will prevent excessive movement and leverage of the tire/carrier.



STEP 32 | Secure the tire carrier portion of the assembly using a 16mm socket.

Then, re-install and secure the spare tire.



INSTALLATION MANUAL

STEP 33 | Double check fitment, and all hardware is secure.



STEP 34 | Congrats, you are finished with the install of the 18+ JL Bumper Mounted Tire Carrier.

