

TJ/LJ SHIELD CARRIER INSTALLATION INSTRUCTIONS

TOOLS NEEDED

- 3/4" Wrench
- 3/4" Socket
- 1 1/2" Socket
- 1 1/8" Wrench
- 3/16" Hex Key
- 15mm Socket
- T25 Torx
- Hammer
- Bearing Grease
- Anti-Sieze

HARDWARE

- 2 - 1/2" X 2" Hex Bolt
- 4 - 1/2" x 1" Hex Bolt
- 6 - 1/2" Flat Washer
- 3 - 1/2" x 1" Carriage Bolt
- 9 - 1/2" Flange Nut
- 4 - 5/16" x 1.25 Button Head
- 4 - 5/16" Flat Washer
- 3 - 3/8" Flange Nut
- 2 - 3/8" x 2.25" Hex
- 3 - Lug Nut

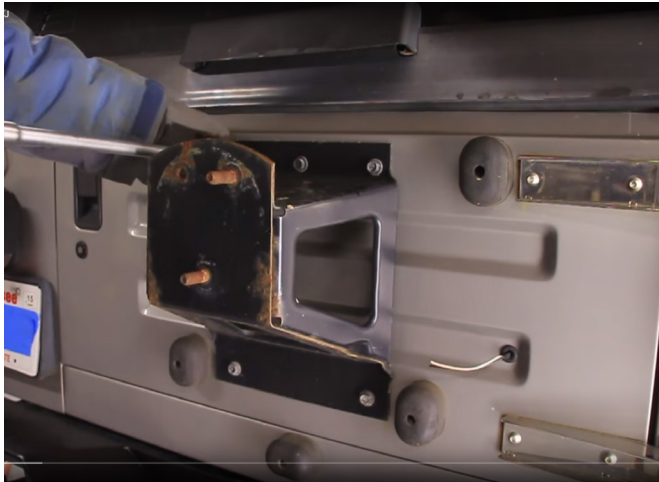
**Please read the mounting instructions below
carefully before attempting to install.**

Thank you for purchasing your new tire carrier from JcrOffroad!
Checkout our website, www.jcroffroad.com for other great off-
road products. Be sure to rate and review our product online. If
you have any questions or are missing parts, please don't hesitate
to call us at 269-353-1184!

It is always best to trial install before painting/finishing to ensure proper fit. You should first install your JcrOffroad rear bumper before installing this product. When installing this tire carrier, take special care in keeping paint away from bearing surfaces and bearing cap threads. If using a bed liner type product, you may need to use a drill or file to open holes or openings to the proper size.

1 Remove your spare tire from your current carrier.

2 Remove your tire carrier using a 15mm socket.



3 Remove the top left rubber stopper from the tailgate with a T-25 torx bit.



4 Attach the tailgate plate using the 5/16" button head bolts.



5 Apply anti-sieze to the bottom of the spindle as well as the bolt and slide the spindle into the bumper and install using the 1 1/8" bolt and washer provided.



- 6** Its time to pack your bearings! This is messy and disposable gloves are suggested. Place some bearing grease in the palm of your hand. Press the side of the bearing into the grease, forcing the grease into the rollers of the bearings. Do this until the grease starts to come out the top and bottom of the bearing. Rotate the bearing and repeat. Do this for both bearings and set them aside.



- 7** Turn the tire carrier so that the bottom of the carrier is facing up. Place the greased bearing into the race in the bottom of the carrier, with the small end facing in and the large end facing you.



- 8** Place the spindle seal with the metal side towards the bearing, and the rubber facing out. Tap into place with the small punch. We found that a Dana 60 hub socket works well too!



- 9** Turn the carrier right side up, and slide the seal and bearing over the spindle in the bumper. It may take a little moving around to get the bearing to line up with the spindle as the tolerances are very tight. Once it slides on it will slide to the bottom of the spindle.



- 10** Hold the carrier up and place the second bearing into its race at the top of the spindle with the small end facing down into the spindle and the large end facing up. You may have to move the bearing around a little to get it to line up with the spindle.



- 11** Place the large silver washer on top of the bearing and thread the large spindle nut onto the spindle. Using the 1 1/2" socket on the top nut, 1 1/8" wrench on the bottom bolt and a torque wrench, tighten the spindle down to 65 foot pounds.



- 12** Using your finger, smear a little of the grease around the rubber o-ring that is on the JCR spindle cap. Apply anti-sieze to the threads of the spindle cap and thread cap on to the top of the spindle and tighten with the supplied spindle wrench.

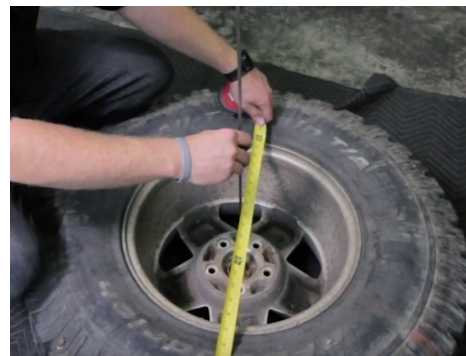


13 Assemble and install the tire mount.

a Place tire mount part 1 inside of part 2. Place the carriage bolts through the outside with the nuts on the inside and finger tighten.



b Use a tape measure and find half the height of your tire. Use this measurement to set the vertical mounting position (When in doubt, always round up).



c Place the tire face down and lay something straight, like a broom handle, across the tire. Measure from the inside mounting surface of the wheel to the bottom of the straight edge. Subtract 1/4" from this measurement and set the length of your tire mount and tighten down with the 3/4" wrench and socket.



- * **Wheels with more than 5" of back spacing may need a spacer to sit properly. The tire should compress slightly against the carrier. If installing optional 3rd brake light, do that now.**

14 Adjusting the heim.

- a** Put the heim together, making sure that you use anti-sieze on the threads.
- b** Install one end of the heim into the bracket on the tailgate using the bolt, nut, and two misalignment spacers. Make sure that the flat side of the spacer is against the bracket and the round side is against the heim. Tighten with a 3/4" socket and end wrench.



- c** Repeat this process and attach the heim to the tire carrier.



- d** If the wedge is not making firm contact with the isolator, open the tailgate and carrier, pull the 1/2" bolt out of the heim and turn the heim to shorten it. Then place back between the tabs and replace the 1/2" bolt and try closing again.



- f** Once the heim is adjusted correctly, tighten the jam nuts on the heim.

15 Place your tire on the tire mount and use the 1/2" lug nuts provided to hold in place. Use a 3/4" deep well socket to tighten the lugs down.

16 Now that the tire is mounted, grab the top of the tire and give it a good shake to see if rattles or squeaks. If it does, start with the isolator and see if the heim needs to be readjusted now that the tire is on. Next common place is the 1/2" carriage bolts holding the tire mount together might need to be tighter. If noise still persists, double check all bolts for tightness.

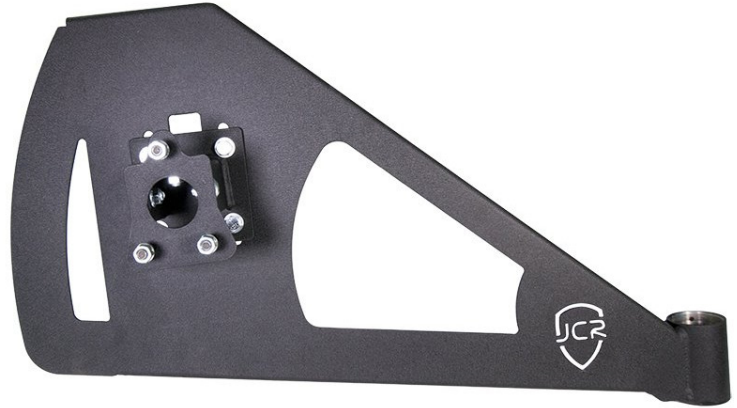
17 If you have the Shield Hi-Lift Mount, install it now.

* Enjoy that new Shield Tire Carrier!

Any questions about this install, give us a call at 269-353-1184 or email at tech@jcroffroad.com.

SWBSC2 – SHIELD TIRE CARRIER – TJ/LJ WRANGLER

Item Code Legend
EX: C2-PC
-PC : Powdercoated
-BARE : Bare Metal



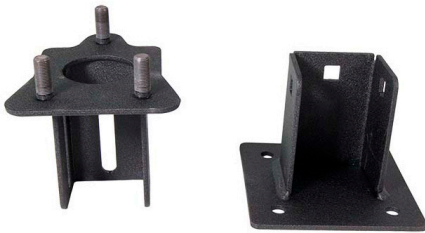
Additional Parts



Heim Joint



Spindle Kit



Tire Mount Part 1 & 2



Carrier Tailgate Plate



Isolator

Bolt Pack: SWBSC2-BP:

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