

## INSTALLATION INSTRUCTIONS

**PART No.**

**FB22050**

**Jeep® JK Wrangler  
Rear Bumper w/ Tire Carrier**



### REQUIRED TOOLS

19mm Socket  
19mm Wrench  
18mm Socket  
14mm Socket  
4mm Hex Wrench  
Adjustable Wrench  
Pliers  
Tape Measure (optional)

### KIT CONTAINS

#### REAR BUMPER HW:

M12 x 120mm Hex Bolt	4
M12 x 35mm Hex Bolt	4
M12 Lock Washer	8
M12 Flat Washer	8
Nut Plate	2
DRing	2

#### TIRE CARRIER HW:

Cotter Pin	1
Castle Nut	1
Large Flat Washer	1
Pivot Shaft Cap	1
M6 Flat Head Screw	1
M8 Hex Bolt	2
M8 Flat Washer	2
M8 Lock Washer	2
M12 Hex Bolt	6
M12 Nyloc Nut	4
Lug Nut	3
M12 Flat Washer	8
M12 Flat Washer, Large	2
M12 Lock Washer	2

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### Jeep® JK Wrangler Rear Bumper w/ Tire Carrier

**1) REMOVE YOUR FACTORY BUMPER**

Begin by removing your factory bumper.

**2) INSTALL YOUR BUMPER**

**TIP:** Before you begin, it is a good idea to pre-install all the bolts on the bumper to ensure the threads are clean from coating. Doing this prior to installation will make the install process easier.

Insert the nut plates into your Jeep's frame rails.



**2 PERSON LIFT**



**DUE TO THE WEIGHT OF THIS REAR BUMPER, IT IS HIGHLY ADVISED TO HAVE HELP WHEN INSTALLING THE BUMPER!**

With the help from a second pair of hands, lift the bumper up to the frame of the Jeep. Using the M12 x 35mm bolts, M12 lock washers, and M12 flat washers, loosely fasten the bumper brackets to your frame rail. Do not tighten yet, as you may need to adjust the bumper when installing the long 12mm bolts near the hitch.



Once the four (4) short bolts are loosely in place, install the four (4) long M12 bolts, utilizing a lock washer and flat washer on each, through your rear crossmember and into the rear bumper.



**3) TIGHTEN ALL BOLTS.**

Ensure the bumper looks straight and level on your Jeep and tighten all bolts.

**4) ATTACH YOUR TIRE CARRIER**

**TIP:** We recommend packing the roller bearing with bearing grease. This will keep moisture out of the bearing and ensure its smooth operation.

Install your tire carrier by placing it on the bumper spindle. Install the roller bearing and ensure it is seated completely. This may require lifting up and down on the tire carrier to find the correct angle to allow the bearing to seat.

Place the large flat washer on top of the bearing, then hand tighten the castle-nut on the spindle.

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Leave this hand tight at this time to check for latch function after the tire is installed.



Install your tire carrier stop on the bumper using the supplied M8 hardware.

**TIP:** Loosely install the stop bracket. Slowly open your tire carrier until it makes contact with the stop. Ensure the stop and carrier are approximately parallel and tighten.



### 5) MEASURE AND MOUNT YOUR SPARE TIRE

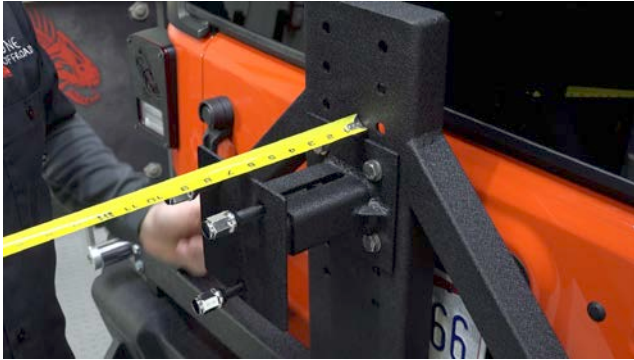
To ensure your tire fits correctly the first time, use a tape measure to measure the radius of the tire. Using this number, measure from the top of the bumper up the tire carrier. Place the middle of the spare tire bracket at least one (1) set of mounting holes above the measured number.

Attached the spare tire bracket to the tire carrier using the supplied M12 hardware - four (4) bolts, eight (8) washers, and four (4) lock nuts.



Using the tape measure, measure your wheel offset. Use this number to set the depth of the spare tire bracket. Secure the outer bracket using the remaining two (2) bolts, two (2) washers, and two (2) lock washers.





Install your spare tire using the supplied lug nuts and a 19mm socket. If all your measurements were correct, it will fit perfectly!



#### 6) CHECK LATCH CLEARANCE

With the tire now mounted, the latch should line up with the bumper bracket. If the latch is too high, loosen the castle-nut one or two cotter pin positions. Lift up on the end of the tire carrier to allow it some room to move. This procedure will lower the latch height.

If the latch is too low, simply tighten the castle-nut one or two cotter pin positions. This will raise the latch and allow smooth operation.



Once you are happy with the adjustments, insert and bend the cotter pin to hold the nut in position. Install the spindle cap and secure using the M6 flat head screw and a 4mm hex key.



#### 7) MOUNT THE SUPPLIED D-RINGS



#### 8) ENJOY YOUR NEW FISHBONE OFFROAD BUMPER!