

INSTALLATION INSTRUCTION

88629

Rev B

RANCHO REAR BUMPER KIT **RS6229B** : Jeep Wrangler TJ 1997-2006 (SPARE TIRE & WHEEL MAX WEIGHT LIMIT 110 LB.)

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION

HITCH RECIVER: Square Tube 2 inch, Class 3 Hitch, Max Weight 3,500 Lbs.

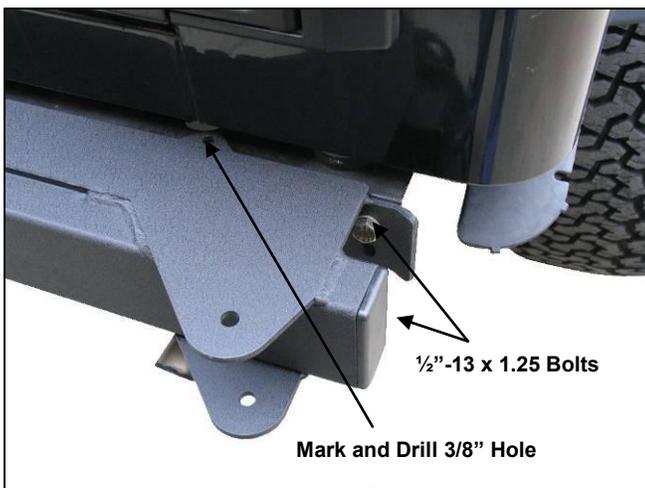


Parts List

<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
860661	Hardware Kit	1	176567B	Tire Carrier	1
420091	Pivot Sleeve	1			
520091	Pivot Bushing	2	176545B	Rear Bumper	1
520092	Bushing	2			
770198	Hitch Pin	1	176547	OE Wheel Spacer	1
770207	Hitch Pin Clip	1			
	1/2"-13 Stover Nut	1	860660	Hardware	
	1/2" USS washer	2		Rectangular End Plug	2
	1/2"-20 x 1.75 HHCS	3		3/8"-16 x 1.25 HHCS	4
	1/2" -20 x 3.00 HHCS	3		3/8"-16 Stover Nut	4
	1/2" Lock washer	5		3/8" SAE Washer	8
	M12-1.75 x 50 HHCS	1		1/2"-13 x 1.25 HHCS	6
	M12-1.75 x 30 HHCS	1		1/2"-13 Stover Nut	6
	M12 -1.75 Flange Nut	2		1/2" SAE Washer	10
	M12 SAE Washer	3	88629	Installation Instruction	1
	1/2" - 13 x 5.5 HHCS	1			

Bumper Installation

- 1) Support the rear bumper. Remove all OE bolts securing the OE bumper to the frame.
- 2) Disconnect the electrical connection for the 3rd rear brake light and plunger.
- 3) Remove the 4 OE bolts securing the OE tire carrier to the tail gate. Remove the tire carrier.
- 4) Temporarily attach rear bumper 176545B to the frame rails with 4 ½"-13 x 1.25 bolts provided, one on each side and 2 on the bottom side of the bumper. See Illus 1.

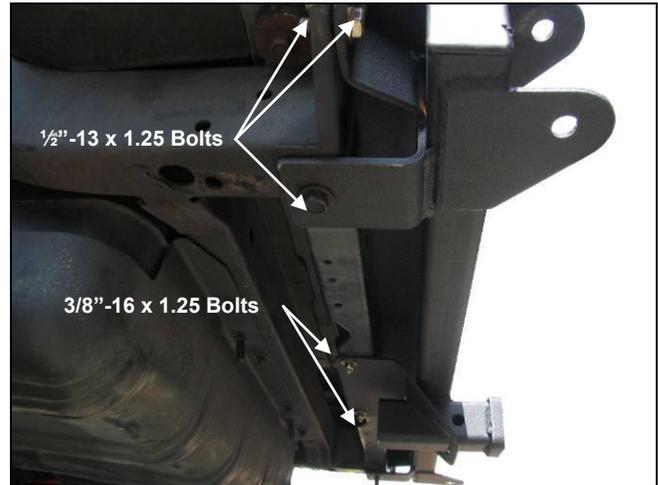


Illus 1

- 5) Using bumper 176545B as a template, mark the mounting hole locations on the top of the crossmember. Remove the bumper.
- 6) Drill two 3/8" holes at the marked locations. Be careful not to hit the body panel while drilling. It may be necessary to drill these holes at an angle to avoid hitting the body or use a device to shield the body.
- 7) Reattach the bumper and confirm that two of the 3/8"-16 x 1.25 fit through the drilled holes.
- 8) Using the hardware from 860660, attach the bumper using two ½"-13 x 1.25 bolts, four

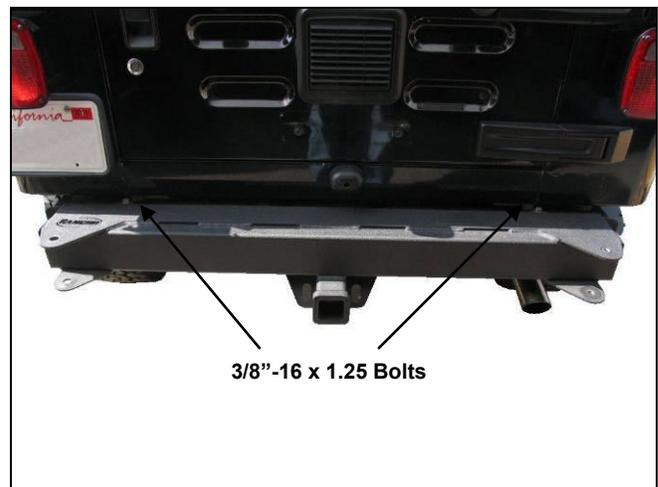
½" washers and two ½"-13 stover nuts on each side. Loosely tighten. See Illus 2.

- 9) Use the other two ½"-13 x 1.25 bolts and two ½" washer on the bottom of the bumper outer mounting points. Loosely tighten. See Illus 2.



Illus 2

- 10) Using the four 3/8"-16 x 1.25, eight 3/8" washer and four nuts, connect the bumper in the two drilled holes on the top and two middles holes on the bottom. Torque all four 3/8" bolts to 35 ft-lbs and all six ½" bolts to 65 ft-lbs. See Illus 2 and 3.



Illus 3

Tire Carrier assembly and Installation

- 1) Press bushings (520091, bushing with larger ID) into tire carrier 176567B on passenger side (right rear corner) with a small amount of lithium grease. See Illus 4.
- 2) Apply lithium grease to the inside of the bushings. Insert the pivot sleeve 420091 into the passenger side (right rear corner) bushings. See Illus 4. If there is not a press available, a rubber mallet or large C-clamp can be used to press the bushings and sleeve in.



Illus 4

NOTE: It is important that the pivot bushings and sleeve are assembled into the passenger side (right rear corner) of the tire carrier since the passenger side brackets on the bumper have been preloaded for a 110 lb tire.

- 3) Press bushings (520092, bushing with smaller ID) into tire carrier 176567B on driver side (left rear corner) with a small amount of lithium grease. See Illus 4.
- 4) Attach the tire carrier assembly to the passenger side (right rear corner) mount of bumper 176545B with the supplied $\frac{1}{2}$ "-13 x 5.5 bolt, two $\frac{1}{2}$ " USS washers and one $\frac{1}{2}$ "-13 stover nut. Tighten nut and bolt to 65 ft. lbs.
- 5) If applicable, attach jack to inside of tire carrier with the supplied M12-1.75 x 30mm bolt and washer. Use 30mm long bolt on passenger side mount. Hardware order is bolt, lock washer, SAE washer, jack, welded bung.
NOTE: It is recommended to mount jack using the first hole above the jacking mechanism when fully collapsed, with foot of jack at pivot end of the tire carrier. See illus 5.



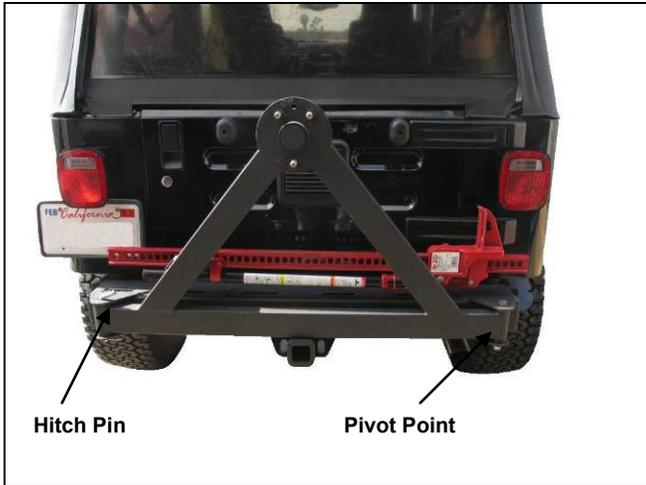
Illus 5

- 6) On driver side, use M12-1.75 x 50mm bolt to secure jack. Hardware order is bolt, lock washer, SAE washer, jack, SAE washer, flange nut, tire carrier bracket, than flange nut. Both flanges should face bracket slot. See illus 6.



Illus 6

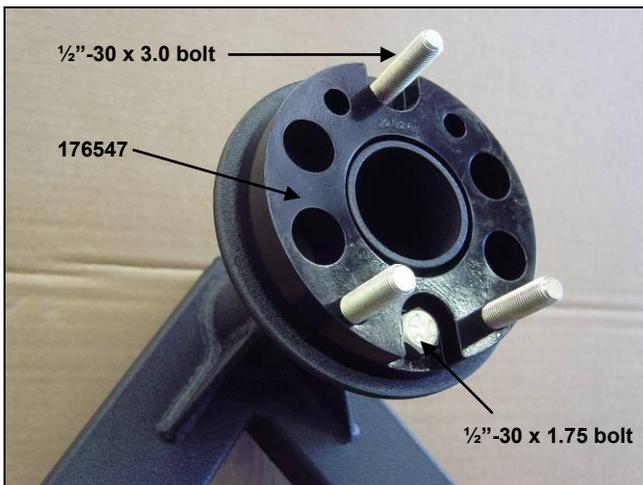
- 7) Attach the tire carrier assembly to driver side mount with hitch pin 770198. Install the hitch pin clip 770207. See illus 6.



Illus 6

8) This kit contains hardware to fit OE wheels and aftermarket wheels. OE lug nuts can be used to secure wheel to tire carrier.

- 1) For OE wheel mount: Insert three 1/2"-20 x 3.0 bolts in mount plate with provided wheel spacer 176547. Secure wheel spacer to tire carrier with one 1/2"-20 x 1.75 bolt as shown in illus 6.



Illus 6

- 2) For aftermarket wheel with 4.5" backspacing, install three 1/2"-20 x 1.75 bolts in mount plate.
- 3) Secure wheel to tire carrier with OE lug nuts.

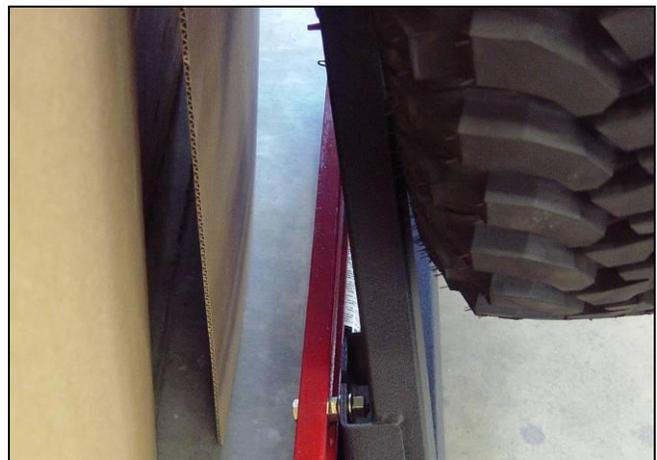
CAUTION: Do not install a spare tire and wheel weighing more than 110 lbs. Do not use wheel spacer on drive wheel, use as a spare tire spacer only.

Notes:

It is recommended to mount jack using the first hole above the jacking mechanism when fully collapsed, with foot of jack at pivot end of the tire carrier. Each vehicle may be unique and different locations of the jack may optimize functionality.

With jack mounted, the tire carrier will allow the tail gate to open about 85°. If more travel is needed, the foot of the jack can be removed and stored inside the vehicle. **CAUTION:** Check clearances by slowly opening tail gate and making sure that the jack or tire does not contact the body of the vehicle.

Tire should fit securely against the frame of the tire carrier to reduce vibrations and movement. Some unique combinations of wheel and tires may need to modify spacer to fit securely against tire carrier frame.



Notes _____

