

INSTALLATION INSTRUCTION

88643

Rev B

RANCHO REAR BUMPER / TIRE CARRIER KIT RS6243B

Fits Jeep TJ 1997–2006 Models

(SPARE TIRE & WHEEL MAX WEIGHT LIMIT 110 LB.)

— Available Optional Rancho Third Brake Light Kit RS6238 —

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION



Parts List

Part No.	Description	Qty.	Part No.	Description	Qty.
	<u>Box 1 Of 2</u>	1	RS770020	HHCS, 1/2-20 X 1.75	3
RS176700B	TJ Rear Bumper	1	RS770213	Lockwasher, 1/2"	5
RS860660	Rear Bumper Hardware Pack	1	RS176547	Wheel Spacer	1
RS770228	Tube Plug 2" X 4"	2	RS770231	HHCS, 1/2-20 X 3.00	3
RS770032	HHCS, 3/8-16 X 1.25	4	RS7618	HHCS, 1/2-13 X 5.50	1
RS7839	Nut, 3/8-16 Stover	4	RS770254	HHCS 3/8-16 X 2.50	2
RS603508	Washer, 3/8 SAE	8	RS7604	Nut, 3/8-16 Nylock	4
RS7884	HHCS, 1/2-13 X 1.25	6	RS603508	Washer, 3/8 SAE	8
RS7836	Nut, 1/2-13 Stover	6	RS770255	Self Drill Screw	1
RS7723	Washer, 1/2 SAE	10	RS176674	Bump Stop Spacer, 1/4"	1
RS88643	Instructions, RS6234B	1	RS176676	Bump Stop Spacer, 3/16"	1
	<u>Box 2 Of 2</u>	1	RS860736	Heim End Turnbuckle Kit	1
RS176664B	Tire Carrier	1	RS602637	Male Rod End, RH 3/8-24	1
RS860717	Tire Carrier Support Kit	1	RS602638	Male Rod End, LH 3/8-24	1
RS176667	Bump Stop, Top Support	1	RS602639	Female Conn. Rod 3/8-24 X 1.00	1
RS176668	Bump Stop, Mid Support	1	RS770252	Thin Hex Nut, RH 3/8-24	1
RS176669	Bump Stop, Lower Support	1	RS770253	Thin Hex Nut, LH 3/8-24	1
RS176670	Quick Fist Rubber Clamp	2	RS7635	HHCS, 3/8-24 X 1.50	2
RS860716	Tire Carrier Hardware Kit	1	RS7632	Nut, 3/8-24 Nylock	2
RS420091	Tire Carrier Pivot Sleeve, 4.00"	1	RS603508	Washer, 3/8 SAE	4
RS520091	Tire Carrier Pivot Bushing	2	RS860733	Rear Door Vent Cover Kit	1
RS78361	Nut 1/2-13 Stover	1	RS176703B	Rear Door Cover Plate	1
RS7719	Washer, 1/2 USS	2	RS176644	CB Antenna Mount Bracket	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 rear third brake light at contacts between tail gate hinges, or, if installing optional Rancho Third Brake Light Kit RS6238, leave wire attached to contacts. Instead, remove light from housing and cut wire at grommet. Remove wire from housing. See Illustration 1.

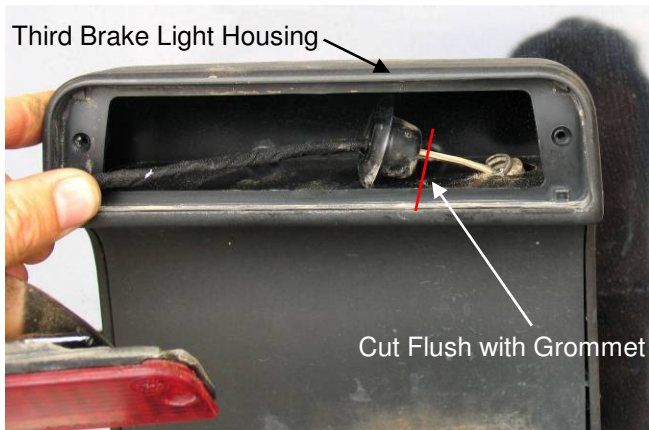


Illustration 1

- 3) Loosen bolts connecting light housing to tire carrier. Remove the four OE bolts securing the OE tire carrier to the tail gate and save for later use. Remove the tire carrier.
- 4) Attach rear bumper RS176700B to the frame crossmember with 1/2"-13 x 1.25 bolts, washers and locknuts provided in hardware pack RS860660, and OE or 1/2"-13 x 1.25 hardware on the bottom side of the bumper to frame rail. Snug hardware, but do not torque. See Illustrations 2 and 3.

NOTE: Vehicles may come with either 12MM or 1/2" hardware from factory. Be sure to use correct hardware in the lower bumper to frame rail connection to prevent damaging weld-nut in frame.



Illustration 2

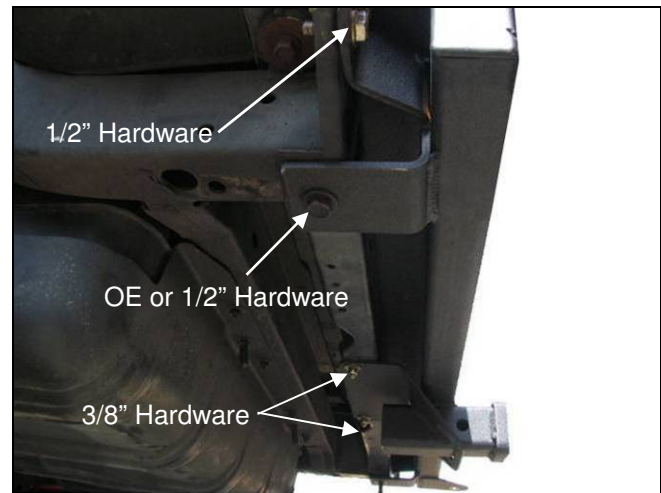


Illustration 3

- 5) Using bumper RS176700B as a template, center punch and drill two 3/8" holes through the crossmember at the bumper top mounting hole. 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. See Illustrations 2
- 6) Using the 3/8" hardware provided in hardware pack RS860660, connect the bumper at the two drilled holes on the top and two middles holes on the bottom. Torque all 1/2" and 12mm OE bolts to 60 ft-lbs and all four 3/8" bolts to 35 ft-lbs and. See Illustrations 2 and 3.

REAR DOOR COVER PLATE INSTALLATION

- 7) Install bump stop RS176667 to rear door cover plate RS176703B using hardware from hardware pack RS860716. See Illustration 4.
- 8) Attach rear door cover plate RS176703B and CB antenna mount RS176644 to door using four OE bolts. See Illustration 4.
- 9) Thread thin 3/8" jam nuts onto rod ends. Thread each rod end an equal amount into turnbuckle. Attach rod end to door vent cover plate using supplied 3/8" hardware. See Illustration 7.

NOTE: Match left hand and right hand threads to prevent damage to threads on rod ends, jam nuts and turnbuckle.



Illustration 4

SPARE TIRE CARRIER INSTALLATION

- 10) Press bushings into tire carrier RS176664B with a small amount of lithium grease. Apply lithium grease to the pivot sleeve RS420091 and inside of the bushings. Press sleeve into bushings. If there is not a press available, a bench vise or large C-clamp can be used to press the bushings and sleeve in. See Illustration 5.

CAUTION: Do not use metal hammer to install sleeve!



Illustration 5

- 11) Attach the tire carrier assembly to mount of bumper RS176700B 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.
- 12) Attach lower bump stop support RS176669 to bumper bracket using supplied hardware and spacer RS176674. See Illustration 6.
- 13) Attach middle bump stop support RS176668 to bumper tube using supplied self drilling screw and spacer RS176676. Bump stop should be in middle of bumper cross tube and about $\frac{1}{2}$ " to the right of the lower bump stop. Check that middle bump stop hits the center of the tire carrier assembly's vertical tube before attaching. See Illustration 6.

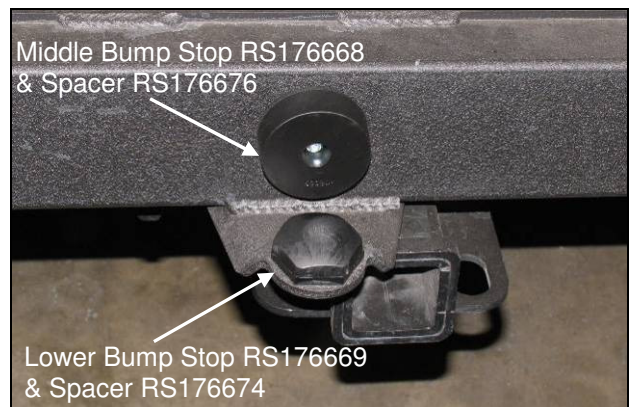


Illustration 6

- 14) Close rear door and tire carrier assembly. Attach free rod end to tire carrier assembly using supplied $\frac{3}{8}$ " hardware.
- 15) Tighten turnbuckle until tire carrier assembly contacts top and middle support bump stops. Hold turnbuckle and tighten jam nuts. Door should close with a slight resistance from the bump stops. Adjust turnbuckle as needed. See Illustration 7
- 16) To install Hi-Lift Jack, drill out hole in quick fist with a $\frac{7}{16}$ " bit. Loosely attach quick fist rubber clamps to tire carrier assembly brackets using supplied $\frac{3}{8}$ " hardware. See Illustrations 7 and 8.

ATTENTION: A washer **MUST** be installed between quick fist and nut. Failure to do so can result in quick fits pulling through nut and falling off.

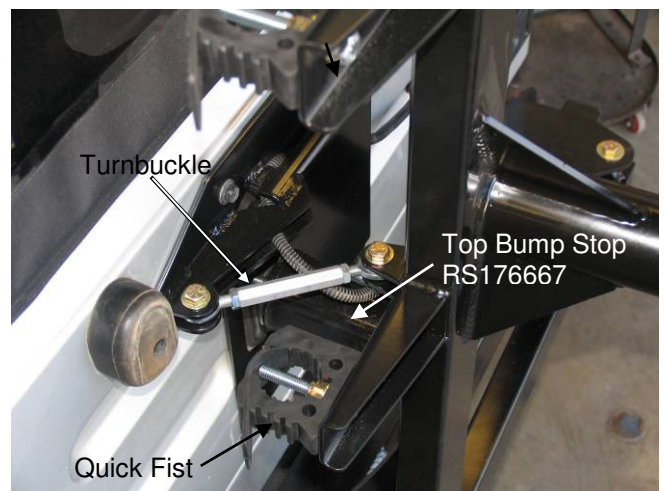


Illustration 7

- 17) Set jack in tray and slide Quick fist mounting bolts through holes in jack. Tighten Quick Fist mounting hardware. See Illustration 8.

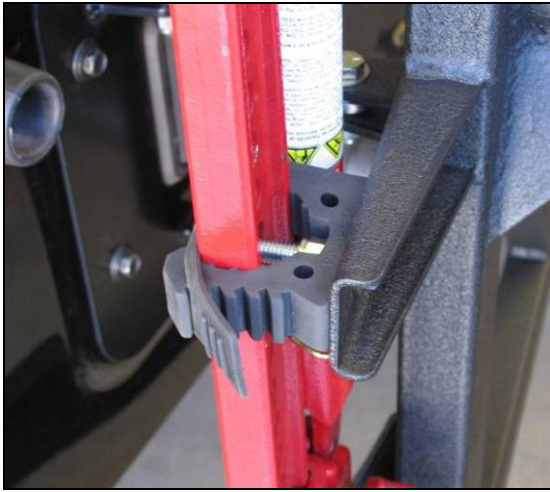


Illustration 8

- 18) A padlock may be used to lock jack to tray. Some jacks may need hole enlarged or drilled to accommodate padlock. See Illustration 9.

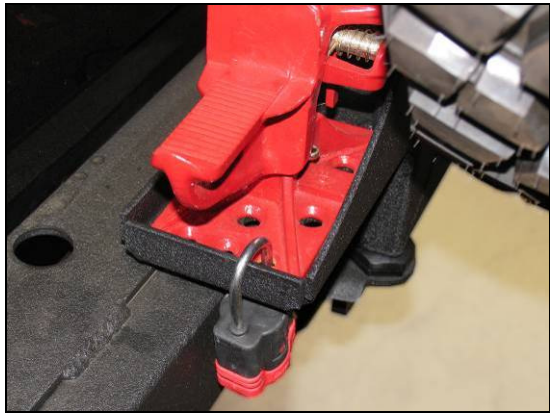


Illustration 9

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

- 20) For OE wheel mount: Insert three $\frac{1}{2}$ "-20 x 3.0 bolts in mount plate with provided wheel spacer RS176547. Secure wheel spacer to tire carrier with one $\frac{1}{2}$ "-20 x 1.75 bolt as shown in Illustration 10.

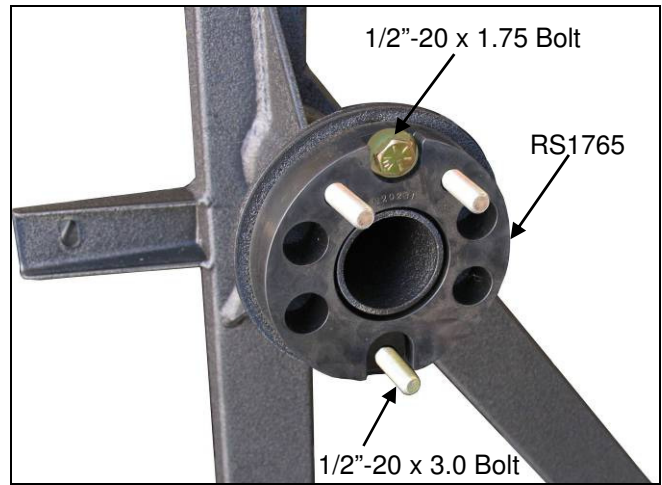


Illustration 10

- 21) For aftermarket wheel with 4.5" backspacing, install three $\frac{1}{2}$ "-20 x 1.75 bolts in mount plate. Secure wheel to tire carrier with OE lug nuts

NOTE: 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.

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.

Check clearances by slowly opening the tire carrier and making sure that the jack or tire does not contact the body of the vehicle.