

Preliminary

Land Cruiser FJ60 and FJ62 Rear Bumper Installation Instructions



Thank you for purchasing a Slee Off-Road Rear Bumper for your Land Cruiser. All attempts have been made to supply the bumper in perfect condition with complete installation hardware. However should you have any problems with the condition of the bumper or find any parts missing, please do not hesitate to contact us at **1888 4X4 SLEE** or sales@sleeoffroad.com

Your bumper is guaranteed free of defect in material and workmanship for a period of one year from date of purchase. Should you experience any problems with your bumper, please contact us directly to resolve any issues.

We have attempted to provide complete installation instructions provided below. However from time to time changes might be made to the bumper and you might notice small inconsistencies with the instructions. Please notify us of such occurrences so we can correct them.

Qty	Part Description
1	Bumper Channel
1	Tire Carrier
1	Stainless Steel Locking Pin – <i>Pre-installed on tire carrier</i>
3	Lug Nuts – <i>pre-installed on tire mount</i>
1	Hella License Plate Light
1	Connection Harness
1	Hub Cap and O Ring – <i>Pre-installed on tire carrier</i>
	LATCH and HOOK (BAG 1)
1	U Latch
1	Latch Hook
6	5/16" x 1/2" Bolts
6	5/16" Split Washer
	ATTACHMENT PLATE AND HARDWARE (BAG 2)
2	Attachment Plates
4	10mm x 45mm Bolts – 1.25 thread
12	3/8" Flat Washers – Large
4	3/8" x 1.5" Bolts
4	3/8" Nuts
4	3/8" Lock Washers
6	7/16" x 1.5" Bolts
12	7/16" Flat Washers – Large
6	7/16" Lock Washers
6	7/16" Nuts
	SPINDLE BEARINGS AND HARDWARE – (BAG 3)
1	Spindle Flat Washer
1	Cotter Pin
2	Spindle Bearings
1	Spindle Castle Nut
1	Hub Seal
	SHIMS AND MOUNTING HARDWARE (BAG 4)
4	1/8" Metal Shims
4	1/2" x 1.5" Bolts
8	1/2" Flat Washers – Large
4	1/2" Lock Washers
4	1/2" Nuts
	Miscellaneous Hardware (Bag 5)
1	Nylon Pad
2	3/8" Countersunk Stainless Bolts
2	3/8" Stainless Flat Washer
2	3/8" Stainless Lock Nut
	BUMP STOP
1	Rubber Bump Stop
1	5/16" Flat Washer – Small
1	5/16" Lock Nut

HI LIFT CLAMP	
1	Hi-Lift Clamp
1	3/8" Barrel Nut
1	3/8" Lock Washer
1	3/8" Flat Washer – Small
HARNESS CLIPS	
4	Wire Clips
4	Stainless Sheet Metal Screws
LICENSE PLATE LIGHT HARDWARE	
2	8-32" x 1/2" Machine Screws
2	8-32" Lock Nuts
2	8-32" Flat Washers
TIRE MOUNT HARDWARE	
3	3/8" x 1.25" Bolt
6	3/8" Flat Washer – Small
3	3/8" Lock Nut
LICENSE PLATE HARDWARE	
2	1/4" Phillips Head Machine Screws



Step 1.

Remove rear bumper. Remove all brackets and bolts from rear cross member. Also remove tow hitch if so fitted.

Remove brackets on side of frame by drilling/grinding off rivets. On a FJ60 the rear cross member needs to be notched to accommodate the receiver.

Test fit the bumper on the frame and mark the rear cross member for the cut-out. Cut the cross member until the bumper can slide on completely.

Note: On a FJ60, the rear cross member needs to be notched to accept the receiver. Hold the bumper up to the cross member and mark the location of the receiver. Cut the necessary notch so that the bumper can slide on.



Step 2.

Install the two nylon latch plate using two 3/8"x 3/4" counter sunk stainless steel screws with flat washers and lock nut.



Step 3.

Install the two 1/4" attachment plates using two 3/8"x 1.5" bolts, washers, lock washers and nuts. Install above the bottom rim of the bumper, with the wider part of the bracket sticking out.

Only finger tighten the bolts at this point.

NOTE: On a FJ60 these plates are not used.



Step 4.

Slide the bumper over the rear cross member. Be careful to not hit the vehicle body with the wings or the back end of the bumper.

The photograph on the left shows a vehicle with a body lift installed. The gap between the tailgate and bumper will be smaller on a vehicle without a body lift.



Step 5.

Once bumper is located, install the 1/2" bolts, and flat washers through bottom brackets into the holes the frame rail. Install two 1/8" spacers between the frame rail and the bumper bracket. Put the nuts, washers and lock washers on top.

Do this on both sides.

Do not tighten at this point.



Step 6.

Support bumper until attachment brackets align with holes on the rear cross member.

Use the 10mm x 45mm bolts, washer to attach the plates to the cross member.



Step 7.

Install the 7/16" x 1.5" bolts, washers and nuts into the side supports through the frame.

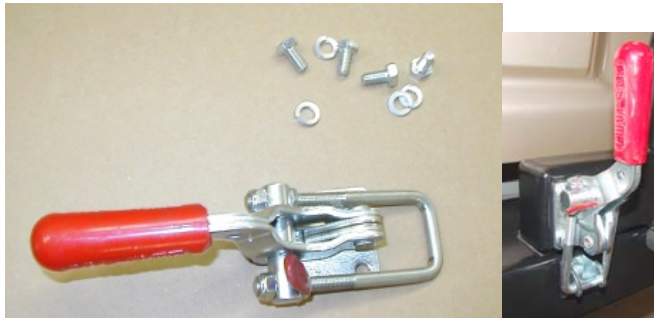
Now tighten all bolts, starting with the 1/2" bolts, then the 7/16" side bolts, then the 10mm and the 3/8" bolts that hold on the attachment plates.

Assembling the tire carrier



Step 1.

Pack the two supplied taper bearings with waterproof grease. Install the bigger of the two taper bearings in the bottom of the hub on the tire carrier. Next install the seal as shown in photograph. Tap the seal into position with a hammer. Pack the cavity in the hub full of grease, but leave the center open for spindle to go through.



Tire Carrier latch and bolts. Latch and hook installed.

Step 2.

Install the latch on the tire carrier arm. Use 4 5/16" x 3/4" bolts and split washers installed into pre-tapped holes. Torque to 15 ft lbs.

Install the latch hook onto the bumper with the supplied 5/16" x 3/4" bolts and split washers. Torque to 15ft lbs.



Step 3.

Install the rubber bump stop on the tab welded to the bottom of the swing arm. Use the supplied 5/16" lock nut and flat washer.



Step 4.

Install the locking pin in the sleeve on the hub side of the tire carrier. Use a small amount of dry lubricant on the pin. Ensure that the pin slides freely in the sleeve.

To prevent the pin from corroding and getting stuck, it should be removed, cleaned and lubed on a regular basis.



Tire Carrier installed on bumper.
(Photo is not from a FJ62 Bumper)

Step 5.

Slide the tire carrier onto the spindle and insert the 2nd taper bearing from the top. Install the flat washer and castle nut. Tighten castle nut and test the swing of the tire carrier. The swing-out be fairly tight, but not bind. Install cotter pin to lock castle nut in place. Pack the top of the hub with grease. Install the hub cap by screwing the hub on until tight.



Step 6.

Install the spare tire carrier plate to the tire carrier using the supplied 3/8" x 1-1/2" bolts. To set the depth of the carrier, use a straight edge and place it across the back of the spare tire. Measure the distance from the straight edge to the mounting surface of the wheel. Subtract 1/4" from this and use this measurement to set the face of the mounting plate.

Step 7.

Install spare tire using the supplied lug nuts.

Step 8.

With the spare tire installed, adjust the latch by tightening up the U bolt.



Step 9.

Install your license plate light on the tire carrier using the two 8/32" machine screws, washers and nuts.



Step 9.

Run this harness along the back of the tire carrier Use the zip ties to secure the harness and/or the supplied screws and clips. The screws require drilling holes into the tire carrier arm.

Step 10.

Feed the harness through the slot between the bumper and the body. Route the harness over the frame (stay clear of the exhaust) and locate a suitable tail light source. Tap the red wire into the suitable source and the black wire to ground.

Test the license plate lights to make sure they are connected properly.

You have now successfully installed your bumper. Here are a couple of notes in using the bumper.

1. **Do not let go of the tire carrier when you open it. The pin and safety stop should stop the tire carrier from swinging open to far, but you could damage the pin and/or the safety stop.**
2. **Clean, inspect and re-lube the pins bi-annually to ensure smooth operation.**
3. **Do a yearly inspection of the bearings by removing the cap and checking the condition of the grease in the hub. If you see rust or moisture, remove the carrier from the bumper. Remove the seal (replacements can be purchases from Slee Off-Road), clean and repack the bearings and re-install the seal. Re-install the tire carrier on the bumper.**

Step 11.

Install the license plate on the tire carrier using the two 5/16" machine screws. The holes are tapped on the tire carrier face underneath the license plate light.

Step 12.

Close the tire carrier and close the latch. The tension on the latch is adjustable by tightening the 1/2" nuts to shorten the U bolt of the latch.