



### ZJ REAR BUMPER W/TIRE CARRIER INSTALL

1. Remove plastic bumper and foam. Remove trailer hitch if equipped.
2. Clean threads with 12mm 1.5 tap on threaded insert in bottom of frame 17 ½" from back of jeep.
3. Insert nut plates inside of frame, align with back 2 holes. Install rear bumper using 2 – 12mm x 1.5 thread x 35mm bolts and lock washers, and 4 – 7/16" whiz bolts.
4. Install the latch striker in the slot with the 7/16" nut and lock washer. **ONLY SNUG AT THIS TIME**
5. Install 2 of the 1 ¼" x .060 shims on the shaft, then install one of the thick spacers. Place the swing arm with the bearings on the shaft. Install the second thick spacer on top of the bearing inside the seal. Install the large Aluminum nut. Tighten until no up or down movement is felt in the swing arm.
6. Swing the arm to the plastic slide. It should just touch the slide. Swing to wide open position.
7. Install black release handle on latch with 2-1/4" x 5/8" Button head bolts and nylock nuts.
8. Install latch in the swing arm with release handle in slot. Use 3 – 5/16" x 1 ¼" bolts and tapped plate for the nut. Install plate inside tubing. Tighten Bolts.
9. Lift the lock tube and bring the swing arm to the latch. Close carefully, this should center the striker in the latch. Carefully release the latch and tighten the striker. Recheck for binding and readjust if needed. Make sure the latch is closing on the second catch. It is a 2-stage latch like a car door.
10. Install the grease fitting.
11. Install the round rubber bumper on the tab at the bottom of the swing arm using 5/16" x 1 ½" Hex head bolt and 5/16" nylock nut. Again make sure the latch is on the second catch. Use 3/8" washer to space bumper as need to remove rattles.
12. Install wheel stud in the single hole at the top of the tire mount. Start stud with hammer and drive in with a punch. Install tire and wheel nut. Put the other two studs in the holes that match your bolt pattern.
13. With tire installed check where the swing arm meets the plastic slide. It should be about 1/16" below the top of the plastic slide. You want the plastic to carry the weight not the bearings. Take shims out or add at the shaft to adjust.
14. If latch rattles you can add a washer behind the round bumper.
15. **Fill the hub completely with grease.** Fill with grease until it starts pushing seals out, stop and remove grease fitting and let the pressure out. Push seals back in with large screwdriver. This is a must to keep water out.
16. Install Alum. End cap on swing tubing at the latch handle. Make sure latch handle is in the center of slot, bend if needed. Use plastic or rubber hammer to drive in end cap.
17. Install ½" collars on the high lift jack mounds. Install your jack and adjust collars to keep jack away from your powder coating. Install ½" washers and wing nuts. A few jacks have different hole spacing. Move the ½" bolt in slots to match your jack hole spacing.