



## RIGID SERIES REAR BUMPER

RB-F-100-JK, RB-F-101-JK, RB-F-102-JK, RB-F-103-JK  
RB-F-100-JKA, RB-F-101-JKA, RB-F-102-JKA, RB-F-103-JKA



## PARTS LIST



QTY	DESCRIPTION	QTY	DESCRIPTION
1	Rear Bumper	1	1" Washer
1	Tire Carrier	1	Aluminum Cap
1	Tire Mount Bracket	1	O-Ring (140)
1	Tailgate Plate	1	1.25" Rubber Bumper
1	Mount Adjust Bracket	1	8mm x 1" Socket Bolt
1	Seal (5121)	2	5/8" Washer
1	Left Hand Heim Joint	2	Bearing (Set 5)
1	Right Hand Heim Joint	3	1/2" x 3" Bolt
1	Left Hand Jam Nut	3	1/2" Nut
1	Right Hand Jam Nut	3	Lug Studs
1	Turn Buckle	4	7/16" x 4" Bolt
1	1/2" x 2.5" Bolt	4	7/16" Nut
1	5/8" x 3.5" Bolt	4	1/2" x 3/8" Spacer
1	5/8" Nut	10	1/2" Washer
1	1" Nut	12	7/16" Washer

\*If any parts listed are missing or damaged please call Rock-Slide Engineering @  
435-752-4580 prior to installation

## RIGID SERIES REAR BUMPER INSTALLATION

1. Remove stock bumper and set aside all of the hardware.
  - a. The frame side (4) and tire carrier (8) bolts will be **REUSED**
  - b. The stock receiver hitch must be removed as well



Arrows indicate frame side bolts (2 per side) and tire carrier (4 per side)

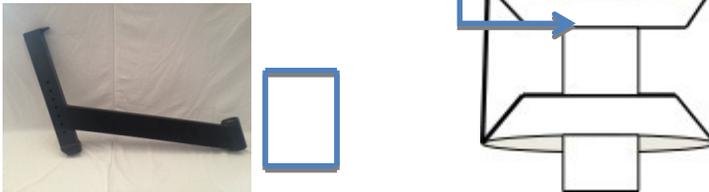
2. Place the hitch bracket inside the R-SE bumper and bolt it to the Jeep's cross member using **4** 7/16"x4" bolts, **8** 7/16" washers, and **4** 7/16" nuts (below).
  - a. Hand tighten the bolts at this time leaving room to adjust if needed



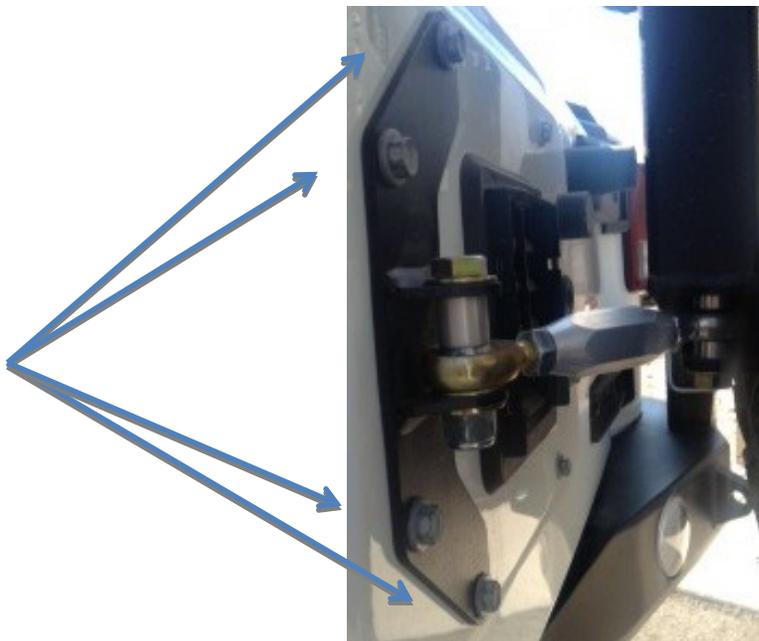
3. Position the R-SE bumper into its desired location using the machined slots on the frame sides. S-SE bumpers are engineered to match the vehicle contour lines; however subtle body difference may occur.
  - a. Position the bumper so it's evenly situated on all sides, leaving at least 1/4" of clearance between the bumper and vehicle body
  - b. Hand tighten the original 4 frame side bolts back into their machined slots
4. Tightening the 4 frame side and 4 cross member bolts.
  - a. Torque the bolts to 50 ft. lbs. each

## TIRE SWING INSTALLATION

1. Install 2 bearing races into the tire swing mount.
  - a. The thick side of races **MUST** face inward
  - b. Installed correctly the top race has a taper that faces towards the ground, the bottom race taper points skyward (Diagram below illustrates)



2. With races installed correctly, pack the bottom bearing with grease and install it into the bottom of the tire carrier with the taper side up.
3. Install the seal by tapping it into the bottom of the tire carrier.
4. Slide the tire carrier, seal and bottom bearing over the bumper spindle.
5. Pack the upper bearing with grease and install it taper side down by sliding it over the treads on the bumper spindle.
6. Install 1 1" washer and 1 1" nut to secure tire carrier assembly.
  - a. Tighten the nut so there is no play in the assembly but loose enough that the tire carrier still operates in a smooth fashion
7. Place the O-ring inside the aluminum cap and install it over tire carrier assembly.
8. Attach the tailgate plate onto the tailgate using the 4 stock bolts (pictured below).
  - a. Some minor trimming to accommodate the vent may be necessary
  - b. You can reinstall the 4 remaining stock bolts into their original positions if desired but its not required



9. Attach Heim Joint on the tailgate side. **\*\*USE 3" bolt ON THE TAILGATE SIDE\*\***
  - a. Using the picture below as a guide, Use 3" bolt, \_\_\_ washer, \_\_\_ spacer \_\_\_ nut
  - b. Tighten nut so it's snug but not tight. The joint needs to have play



10. Attach the Heim Joint on the swinger side. **\*\* USE 2 1/2" BOLT ON SWING ARM SIDE)**
  - a. Using the picture below as a guide, Use \_\_\_ bolt, \_\_\_ washer, \_\_\_ spacer
  - b. Tighten nut so it's snug but not tight. The joint needs to have play



11. Combine the tailgate and swinger sides using the turnbuckle.
  - a. Use the spacers to make the turnbuckle as level as possible
12. Attach the rubber stopper on the tailgate.
13. Pound the 3 lug studs into the tire mount.
  - a. Determine the best location for your tire size and lug nut pattern
    - i. \*Tire carrier is designed to accommodate up to a 39" tire
14. Attach the tire mount to the swinger arm using 3 1/2" bolt, \_\_\_ washer, \_\_\_ nuts
15. Attach spare tire to the tire mount.
16. Rotate the turnbuckle to take up any movement of the tire carrier.
  - a. Make sure the arm rests snugly against the rubber stopper when the tailgate is closed
  - b. **\*\*Take extra care that the tailgate opens and closes freely\*\***
17. Perform a final check of all components to ensure proper fitment and torque.



Thank you for choosing Rock-Slide Engineering products.  
We value your business and welcome your feedback/suggestions.

If you have any concerns please contact us directly  
@ 435-752-4580. We are here to help you!