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## Jeep Wrangler JK Jeep Wrangler JL Front Air Bump Stops Installation Instructions

### Required Tools List:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- 7/32" Hex Key Socket / Wrench
- Center Punch
- Hammer
- Fastener Removal Tool
- Plastic Rivet Tool (JL Models)
- Drill & 3/8" Drill Bit
- Cut Off Wheel / Reciprocating Saw
- Grinder
- Floor Jack
- Jack Stands
- Torque Wrench



Before beginning the installation, read these instructions & the enclosed driver's WARNING NOTICE thoroughly & completely. Also affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to the disassembly of the vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

### Important Notes:

- This kit is designed to be used with Skyjacker Suspensions front coil-over shock upgrade **only!!!**

### Component Box Breakdown:

#### Part #: JKLSAB (JK Models) / JLLSAB (JL Models)

Item #	Description	Qty	Item #	Description	Qty
SKY2025-S	PINCH BOLT BUMP STOP	2	HB-JLLSAB	HDWR BAG: JL AIR BUMP STOPS <b>(Included With JLLSAB)</b>	1
JLLSBS-D	DRIVER BUMP STOP BRACKET	1	I-JKLSAB	INST SHT: JL & JK BUMP STOPS	1
JLLSBS-P	PASSENGER BUMP STOP BRKT	1			
BSS3025-B	BUMP STOP SPACER	2			
HB-JKLSAB	HDWR BAG:JK AIR BUMP STOPS <b>(Included With JKLSAB)</b>	1			

## Hardware Bag Breakdown:

### Part # HB-JKLSAB (JK Models) / HB-JLLSAB (JL Models)

Item #	Description	Qty	Item #	Description	Qty
38X114FTB	3/8 X 1 1/4 FINE THREAD BOLT	6	58X112FTB	5/8 X 1 1/2 FINE THREAD BOLT	2
38X134CTB	3/8 X 1 3/4 COARSE THRD BOLT	2	58SAEW	5/8 SAE WASHER	4
38X234BHB	3/8 X 2 3/4 BUTTON HEAD BOLT	2	58FTN	5/8 FINE THREAD LOCK NUT	2
38SAEW	3/8 SAE WASHER	14	RVT14-1	1/4" X .500" BLK PLASTIC RIVET	6
38CTN	3/8 COARSE THREAD LOCK NUT	4		<b>(Included With JLLSAB)</b>	
38FTN	3/8 FINE THREAD LOCK NUT	6			

### Installation:

1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Raise the front of the vehicle, support the frame rails, & front differential using jack stands.
3. Remove the front tires / wheels using a 22mm socket. (See Photo # 1)
4. If equipped, remove the front skid plate using a 13mm socket / wrench. (See Photo # 2)
5. Remove the plastic inner fender liners using a fastener removal tool, 8mm socket / wrench, & 10mm socket / wrench. **Note:** On **JL models**, it will be necessary to remove three rearward plastic rivets in order to remove the plastic inner fender liners. (See Photo # 3)
6. Disconnect the front sway bar end links from the front differential using a 18mm socket / wrench. (See Photo # 4)
7. Disconnect the front track bar from the front differential using a 21mm socket / wrench. (See Photo # 5)



Photo # 1



Photo # 2



Photo # 3

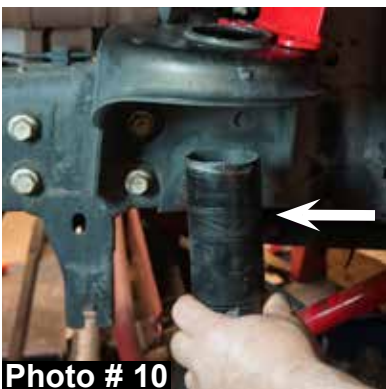
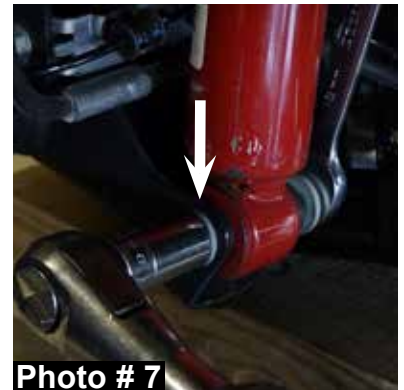


Photo # 4



Photo # 5

8. Disconnect the drag link from the pitman arm using a 21mm socket / wrench. (See Photo # 6)
9. Disconnect the front shocks from the front differential using a 18mm socket / wrench. (See Photo # 7)
10. Disconnect the front brake line brackets using a 10mm socket / wrench.
11. Mark the location of the front driveshaft & flange at the front differential & disconnect using a 15mm socket / wrench. (See Photo # 8)
12. While checking for adequate slack in the ABS lines, brake lines, differential breather hose, electrical connections, & etc. Lower the front differential & remove the front coil springs & rubber isolators.
13. The bump stop tubes must be removed by cutting the weld from the top of each bump stop tube using a cut off wheel or reciprocating saw. (See Photo # 9)
14. Loosen & remove each bump stop tube. (See Photo # 10)
15. Clean up any imperfections & round any sharp edges using a grinder or similar tool.
16. Prime / paint all raw metal exposed from removing the bump stop tubes.
17. **JK Models:** Place the new Skyjacker bump stop spacers on the center of each bump stop pad located on the front differential. Mark, center punch, & drill using a 3/8" drill bit. (See Photo # 11)



18. **JL Models:** Remove the front washer fluid tank bracket bolt using a 10mm socket / wrench. (See Photo # 12)

19. Install the new Skyjacker driver & passenger side bump stop brackets to the bottom side of each upper coil spring mount using the supplied 5/8" x 1 1/2" fine tread bolts, washers, nuts, & a 15/16" socket / wrench. (See Photo # 13)

20. **JL Models:** Install the front washer fluid tank bracket bolt using the original hardware & a 10mm socket / wrench. (See Photo # 12)

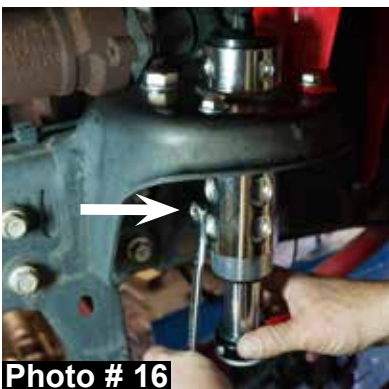
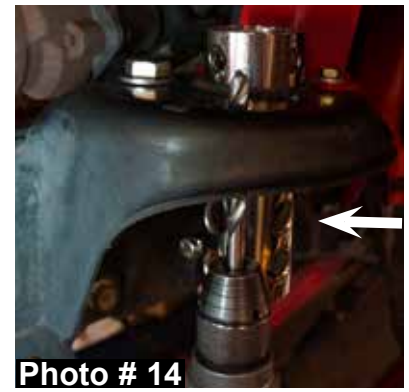
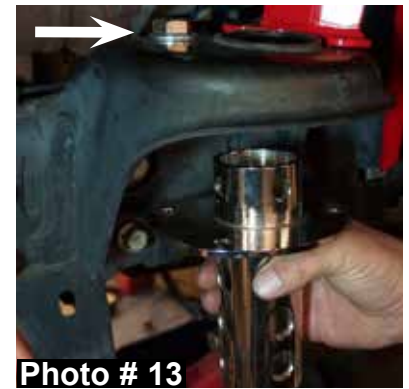
21. Mark, center punch, & drill the three remaining mounting holes of each new Skyjacker bump stop bracket using a 3/8" drill bit. (See Photo # 14)

22. Install the supplied 3/8" x 1 1/4" fine thread bolts, washers, & nuts in the previously drilled holes using a 9/16" socket / wrench. (See Photo # 15)

23. Install the new Skyjacker air bump stops into each new Skyjacker bump stop bracket & secure using the supplied 3/8" x 1 3/4" coarse thread bolts, nuts, & a 9/16" socket / wrench. (See Photo # 16)

**Note:** Torque each 3/8" pinch bolt to 20 ft. lbs. Do not over tighten or damage will occur to the new Skyjacker air bump stops.

24. Install the new Skyjacker front bump stop spacers using the supplied 3/8" x 2 3/4" button head bolts, washers, nuts, a 7/32" hex key socket / wrench, & 9/16" socket / wrench. (See Photo # 17)



25. Raise the front differential & connect the front driveshaft & flange at the front differential & using the original hardware & a 15mm socket / wrench. (See Photo # 8)
26. Connect the front brake line brackets using the original hardware & a 10mm socket / wrench.
27. Connect the front shocks to the front differential using using the original hardware & a 18mm socket / wrench. (See Photo # 7)
28. Connect the drag link to the pitman arm using the original hardware & a 21mm socket / wrench. (See Photo # 6)
29. Connect the front track bar to the front differential using the original hardware & a 21mm socket / wrench. (See Photo # 5)
30. Connect the front sway bar end links to the front differential using the original hardware & a 18mm socket / wrench. (See Photo # 4)
31. Install the plastic inner fender liners using the original hardware, a 8mm socket / wrench, & 10mm socket / wrench. **Note:** On **JL models**, install the supplied plastic rivets in the three rearward mounting holes of each plastic inner fender liner using a plastic rivet tool. (See Photo # 3)
32. If equipped, install the front skid plate using the original hardware & a 13mm socket / wrench. (See Photo # 2)
33. Install the front tires / wheels using a 22mm socket & lower the front of the vehicle to the ground. (See Photo # 1)

### **Final Notes:**

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

## TORQUE SPECIFICATIONS

<u>INCH SYSTEM</u>			<u>METRIC SYSTEM</u>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FTLB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

- The above specifications are not to be used when the bolt is being installed with a bushing.

**Seat Belts Save Lives, Please Wear Your Seat Belt.**