



# 2007- 2014 Jeep Wrangler JK 2 Door / 4 Door 2.5"- 3.5" Suspension Lift Installation Instructions

### Required Tool List:

- Safety Glasses
- Standard / Metric Wrenches & Sockets
- Floor Jack
- Jack Stands
- Drill & Assorted Drill Bits
- Torque Wrench



Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. 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.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed, which makes the difference more visible. Using a measuring tape, measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: \_\_\_\_\_

Passenger Side Front: \_\_\_\_\_

Driver Side Rear: \_\_\_\_\_

Passenger Side Rear: \_\_\_\_\_

### IMPORTANT NOTES:

- The draglink must be adjusted to center the steering wheel before the vehicle is driven. Failure to do so will cause computer errors, odd handling characteristics, & poor performance.
- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local Jeep dealer or an authorized dealer for details.
- After the installation of a suspension lift, a qualified alignment facility is required to realign the vehicle to the OEM specifications.

## Component Box Breakdown:

### Part #: JK2501BPH

Item #	Description	Qty	Item #	Description	Qty
JK25FS	JK FRONT COIL - SINGLE	2	SBE502-L	REAR SWAY BAR END LK - SGL	2
JK25RS	JK REAR COIL - SINGLE	2	HB-JK2500	HDWR BAG: JK 2.5" - 3.5" KIT	1
JKLL24F-L	JK LOWER FRONT LINK	2	HB-JKBRC15	HDWR BAG: JK REAR BRACE	1
JKLL24R-L	JK LOWER REAR LINK	2	HB-SBE502	HDWR BAG: SWAY BAR END LK	1
JK25RBS-S	JK REAR BUMP STOP BRACKET	2	H7035	HYDRO SHOCK W/RED BOOT	2
JK24RTB-B	JK REAR TRACK BAR BRACKET	1	H7037	HYDRO SHOCK W/RED BOOT	2
JKBRC15-B	JK REAR T/B BRACE DANA 44	1	I-JK25BP	INSTRUCTION SHEET	1

## Hardware Bag Breakdown:

### Part # HB-JK2500

Item #	Description	Qty	Item #	Description	Qty
38X234BHB	3/8 X 2 3/4 BUTTON HEAD BOLT	2	716X1FTB	7/16 X 1 FINE THREAD BOLT	1
38SAEW	3/8 SAE WASHER	2	716SAEW	7/16 SAE WASHER	1
38CTN	3/8 COARSE N/I LOCK NUT	2	716FTN	7/16 FINE N/I LOCK NUT	1
516X1FTB	5/16 X 1 FINE THREAD BOLT	4	916X3FTB	9/16 X 3 FINE THREAD BOLT	1
516SAEW	5/16 SAE WASHER	8	916SAEW	9/16 SAE WASHER	3
516FTN	5/16 FINE N/I LOCKNUT	4	916FTN	9/16 FINE N/I LOCK NUT	2
12X114FTB	1/2 X 1 1/4 FINE THREAD BOLT	1	CS1625	CRUSH SLEEVE JKRTB	1
12SAEW	1/2 SAE WASHER	1	BPS20-B	BUMP STOP SPACER BLK, 2"	2
12FTN	1/2 FINE N/I LOCK NUT	1	916X312FTB	9/16 X 3 1/2 FINE THREAD BOLT	1

### Part # HB-JKBRC15

Item #	Description	Qty	Item #	Description	Qty
516X1CTB	5/16 X 1 COARSE THREAD BOLT	3	516LW	5/16 LOCK WASHER	3
516XTFW	5/16 EXTRA THICK FLAT WASH	3			

### Part # HB-SBE502

Item #	Description	Qty	Item #	Description	Qty
403712	ES22 SLEEVE/1.25" LONG	4	12USSW	1/2" USS WASHER	4
12X212BHCTB	1/2" X 2 1/2" BUTTON HEAD BLT	4	12CTN	1/2" COARSE N/I LOCK NUT	4
12SAEW	1/2" SAE WASHER	4			

## **Front Installation:**

1. Park the vehicle on flat level ground & set the emergency brake.
2. Raise the front of the vehicle & support the frame rails using jack stands.
3. Remove the front tires / wheels.
4. Disconnect the OEM front sway bar end links using a 18mm socket.  
**Note:** Save the OEM hardware. It will be reused later for Step # 19 of this installation.
5. Disconnect the OEM front track bar using a 21mm socket. (See Photo # 1)
6. If installing a new Skyjacker Steering Stabilizer (Part # 7003 / Sold Separately), remove the OEM steering stabilizer using a 18mm socket. (See Photo # 2)
7. Disconnect & remove the OEM front shocks using a 18mm socket.
8. Remove the OEM front coils. (See Photo # 3)
9. Locate the new Skyjacker front bump stop spacers. Place the new bump stop spacers on the center of the OEM bump stop pads located on the front axle. Mark & drill using a 25/64" drill bit. (See Photo # 4)
10. Install the new bump stop spacers & new Skyjacker coil springs. Attach the new bump stop spacers to the axle using the supplied 3/8" x 2 3/4" button head bolts with one washer under each nut. (See Photo # 5)



11. If installing a new Skyjacker steering stabilizer (Part # 7003 / Sold Separately), install it at this time. (See Photo # 6)

12. Install the new Skyjacker front shocks. (See Photo # 7)

13. Remove the OEM front lower control arms (one at a time) & install the new Skyjacker control arms using the OEM hardware. (See Photo # 8) **Note:** Install the control arms so the off-set bend is toward the inside of the vehicle.

14. Install the front tires / wheels & lower the vehicle to the ground.



Photo # 6

## **Rear Installation:**

15. Raise the rear of the vehicle & properly support the frame rails using jack stands.

16. Remove the rear tires / wheels.

17. Remove the OEM rear shocks using a 16mm socket. (See Photo # 9)

18. Disconnect the OEM rear track bar bracket from the axle using a 21mm socket. (See Photo # 10)

19. Disconnect the OEM rear sway bar end links using a 18mm socket. Relocate the OEM rear sway bar end links to the front of the vehicle & install using the OEM hardware saved from Step # 4.

20. Disconnect the OEM ABS lines & brake lines from the frame. (See Photo # 11)



Photo # 7



Photo # 8

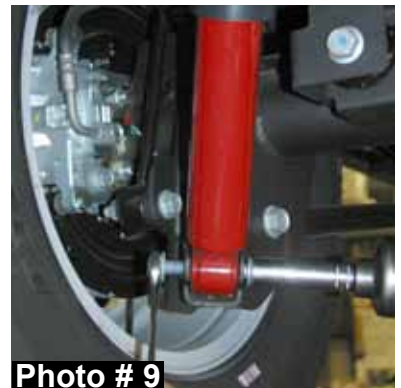


Photo # 9



Photo # 10



Photo # 11



21. Lower the differential & remove the OEM rear coils.

22. Place the new Skyjacker rear track bar relocation bracket over the OEM bracket on the axle. With the bracket seated flush, mark & drill the new center mounting holes using a 15/32" drill bit. (See Photo # 12)

23. Install the supplied 7/16" x 1" fine thread bolt, washer, & nut. (See Photo # 13)

24. It will be necessary to drill through the driver side bottom of the OEM bracket & through the new Skyjacker bracket using a 17/32" drill bit. Once drilled, install the supplied 1/2" x 1 1/4" fine thread bolt, washer, & nut. Install the 9/16" x 3 1/2" bolt, washers, & nut at the bottom location, being sure to use the supplied crush sleeve. (See Arrow in Photo # 14) Tighten all the track bar bracket hardware at this time.

25. Install the new Skyjacker rear coils. **Note:** Be sure to reuse the upper OEM rubber isolator pad.

26. Attach the new Skyjacker rear bump stops to the OEM location on the axle using the supplied 5/16" x 1" fine thread bolts, washers, & nuts. (See Photo # 15) **Note:** Install the new bump stops so the angled end is towards the rear of the vehicle.

27. Raise the differential in order to load the rear coil springs & install the new Skyjacker sway bar end links using the supplied steel sleeves. Attach using the supplied 1/2" x 2 1/2" button head bolts & nuts. **Note:** If using an OEM wheel, the upper end link bolt will need to be installed from the outside in for wheel clearance. Use the large USS washer under the head of the bolts & the smaller SAE washer under the nuts.

28. Remove the OEM rear lower control arms (one at a time) & install the new Skyjacker control arms using the OEM hardware. (See Photo # 16)



- 29. Install the new Skyjacker rear shocks. (See Photo # 17)
- 30. Attach the OEM ABS lines & brake lines to the frame.
- 31. Install the rear tires / wheels & lower the vehicle to the ground.



**Photo # 17**

**FINAL NOTES:**

- \* The draglink must be adjusted to center the steering wheel before the vehicle is driven. Failure to do so will cause computer errors, odd handling characteristics, & poor performance.
- \* 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 on the ground, cycle the steering lock to lock & inspect the steering, suspension, drive line, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- \* Have the headlights readjusted to the proper settings.
- \* Have a qualified alignment center realign the vehicle to the OEM specifications.

<b><u>TORQUE SPECIFICATIONS</u></b>					
<b><u>INCH SYSTEM</u></b>			<b><u>METRIC SYSTEM</u></b>		
<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 FT LB	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!!**