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# 2007 - 2012 Jeep Wrangler JK 2 Door / 4 Door 4" - 5" Suspension Lift Installation Instructions

### Required Tool List:

- Safety Glasses
- Standard / Metric Wrenches & Sockets
- Floor Jack
- Jack Stands
- 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. 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.

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.
- For vehicles with 5" or more inches of lift, it is recommended to order a rear cam bolt kit for proper rear pinion angle (Skyjacker Part # CAM700). In some applications a replacement rear driveshaft may be required, Please contact Skyjacker Customer Service for more information at 318-388-0816.
- 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 #: JK400 / JK400BPM

Item #	Description	Qty	Item #	Description	Qty
JK40FS	JK 4-5" FRONT COIL-SINGLE (Included With JK400BPM)	2	JK40RBS-S	JK REAR BUMP STOP BRKT	2
JK40RS	JK 4-5" REAR COIL-SINGLE (Included With JK400BPM)	2	ABSS3040	BUMP STOP SPACER, 4" TALL	2
CAM700	CAM BOLTS JK (Included With JK400BPM)	2	JKBRC34	JK FRT T/BAR BRACE D30 & D44	1
JKLL24F-L	JK LOWER FRONT LINK (Included With JK400)	2	SBE502	SWAY BAR LINK JEEP JK REAR	1
JKLL24R-L	JK LOWER REAR LINK (Included With JK400)	2	HB-JK400	HDWR BAG: JK 4" KIT	1
JKFTB-B	JK FRONT TRK BAR BRKT	1	HB-JK4BL	HDWR BAG: JK BRK LINE BRKT	1
JKRTBUE-B	JK REAR TRK BAR BRKT	1	HB-JKRTBUE	HDWR BAG: JK REAR TRK BAR	1
			M9565	MONOTUBE SHOCK (Included With JK400BPM)	2
			M9567	MONOTUBE SHOCK (Included With JK400BPM)	2
			I-JK400	INST SHEET: JEEP JK 4" KIT	1

## Hardware Bag Breakdown:

### Part # HB-JKBRC34

Item #	Description	Qty	Item #	Description	Qty
516FTN	5/16" FINE N/I LOCK NUT	3	516X1FTB	5/16" X 1" FINE THREAD BOLT	3
516LW	5/16" LOCK WASHER	3	716FTN	7/16" FINE N/I LOCK NUT	1
516SAEW	5/16" SAE WASHER	9	716SAEW	7/16" SAE WASHER	2
516XTFW	5/16" EXTRA THICK FLAT WASH	3	716X1FTB	7/16" X 1" FINE THREAD BOLT	1
516X1CTB	5/16" X 1" COARSE THREAD BLT	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			

### Part # HB-JK400

Item #	Description	Qty	Item #	Description	Qty
14X80MMB	14MM X 80MM METRIC BOLT	1	516SAEW	5/16" SAE WASHER	8
14MMN	14MM N/I LOCK NUT	1	516FTN	5/16" FINE N/I LOCKNUT	4
38X4BHB	3/8" X 4" BUTTON HEAD BOLT	2	716X212FTB	7/16" X 2 1/2" FINE THREAD BLT	2
38SAEW	3/8" SAE WASHER	2	716SAEW	7/16" SAE WASHER	4
38CTN	3/8" COARSE N/I LOCK NUT	2	716FTN	7/16" FINE N/I LOCK NUT	2
516X1FTB	5/16" X 1" FINE THREAD BOLT	4	916SAEW	9/16" SAE WASHER	2

### Part # HB-JK4BL

Item #	Description	Qty	Item #	Description	Qty
JKBE4D	BRAKE LINE BRACKET	2	14SAEW	1/4" SAE WASHER	4
14X1FTB	1/4" X 1" FINE THREAD BOLT	2	14FTN	1/4" FINE N/I LOCK NUT	2

## Part # HB-JKRTBUE

Item #	Description	Qty	Item #	Description	Qty
JKRTBUE-CS	CRUSH SLEEVE JKRTBUE	1	916X312FTB	9/16" X 3 1/2" FINE THREAD BLT	1
12X112FTB	1/2" X 1 1/2" FINE THREAD BOLT	1	916FTN	9/16" FINE N/I LOCKNUT	1
12FTN	1/2" FINE N/I LOCK NUT	1	916SAEW	9/16 SAE WASHER	2
12SAEW	1/2" SAE WASHER	2			

### 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 # 27 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. Mark the location of the front driveshaft & yoke, then remove.
8. Remove the OEM front coil springs. (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 4" button head bolts with one washer under each nut. (See Photo # 5)

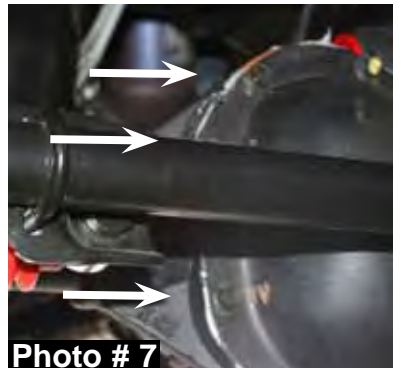


11. Locate the OEM front track bar mount. Place the new Skyjacker relocation bracket inside the OEM mount. Drill the outer OEM holes all the way through the rearward plate using a 7/16" drill bit. (See Photo # 6) **Note:** It is recommended at this time to put a reinforced weld on the OEM bracket. Attach the bracket at the outer two locations using the supplied 7/16" x 2 1/2" fine thread bolts, washers, & nuts. Attach the bracket at the OEM location using the OEM hardware. Let the weight of the frame down onto the new coil springs. Attach the OEM track bar to the new bracket using the supplied 14mm x 80mm bolt, washers, & nut.

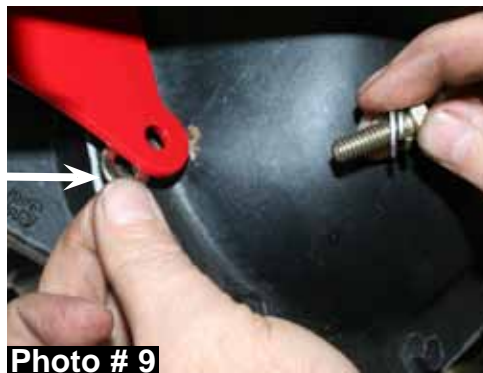


12. Remove the three upper left differential cover bolts. (See Photo # 7)

13. Hold the new Skyjacker differential bracket (D30 or D44) up to the differential. (See Photo # 8) Place the supplied thick 5/16" washers between the new differential bracket & differential. (See Arrow in Photo # 9) Attach using the supplied 5/16" x 1" coarse thread bolts, flat washers, & lock washers. (See Photo # 9) **Note:** Do not tighten at this time.



14. Attach the new Skyjacker rear brace to the upper rear mounting bolt of the track bar bracket. (See Photo # 10)



15. Install the new Skyjacker support brace between the new differential bracket & rear mounting bolt of the track bar bracket using the OEM 14mm hardware, 5/16" x 1" fine thread bolts, flat washers, & nuts. (See Photos # 11 & # 12)  
**Note:** Do not tighten at this time.



Photo # 11

16. Clamp the new rear brace to the OEM spring perch & drill through the new rear brace & OEM spring perch using a 7/16" drill bit. Install the supplied 7/16" x 1" fine thread bolt, washers, & nut to the perch & tighten at this time. (See Photo # 13)



Photo # 12

17. Once the 7/16" hardware has been tightened, complete the install by tightening all remaining 14mm & 5/16" hardware.

18. Reattach the front drive shaft.

19. If installing a new Skyjacker steering stabilizer (Part # 7003 / Sold Separately), install it at this time. (See Photo # 14)



Photo # 13

20. Install the new Skyjacker front shocks using a 18mm socket. (See Photo # 15) **Note:** For **JK400BPM** installation, proceed to Step # 22.

21. **JK400 Installation:** Remove the OEM front lower control arms (one at a time) & install the new Skyjacker control arms using the OEM hardware. (See Photo # 16) **Note:** Install the control arms so the off-set bend is toward the inside of the vehicle.

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



Photo # 14



Photo # 15



Photo # 16

## Rear Installation:

23. Raise the rear of the vehicle & properly support the frame rails using jack stands.
24. Remove the rear tires / wheels.
25. Remove the OEM rear shocks using a 16mm socket. (See Photo # 17)
26. Disconnect the OEM rear track bar from the frame.
27. Disconnect the OEM rear sway bar end links using a 18mm socket. **Note:** Relocate the OEM rear sway bar end links to the front of the vehicle & install using the OEM hardware saved from Step # 4.
28. Disconnect the OEM ABS lines & brake lines from the frame. (See Photo # 19)
29. Lower the differential & remove the OEM rear coil springs.
30. Place the new Skyjacker rear track bar relocation bracket over the OEM rear track bar bracket on the frame with the offset towards the rear of the vehicle. Install the new Skyjacker rear track bar relocation bracket using the supplied crush sleeve, 1/2" x 1 1/2" bolt, 9/16" x 3 1/2" bolt, washers, & nuts. (See Photo # 19)
31. Install the new Skyjacker rear coil springs. **Note:** Be sure to reuse the upper OEM rubber isolator pad.
32. Attach the new Skyjacker rear bump stop spacers to the OEM location on the axle using the supplied 5/16" x 1" fine thread bolts, washers, & nuts. (See Photo # 20) **Note:** Install the bump stop spacers so the angled end is towards the rear of the vehicle.
33. 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 SAE washer under the nuts. (See Photo # 20)



34. Attach the OEM ABS lines & the new Skyjacker brake line brackets to the frame using the OEM hardware. Attach the OEM brake line to the new brake line brackets using the supplied 1/4" x 1" fine threa bolts, washers, & nuts. (See Photo # 21) **Note:** For **JK400BPM** installation, proceed to Step # 36.

35. **JK400 Installation:** Remove the OEM rear lower control arms (one at a time) & install the new Skyjacker control arms using the OEM hardware. (See Photo # 22)

36. Install the new Skyjacker rear shocks using a 16mm socket.. (See Photo # 23)

37. Install the rear tires / wheels & lower the vehicle to the ground.

### **FINAL NOTES:**

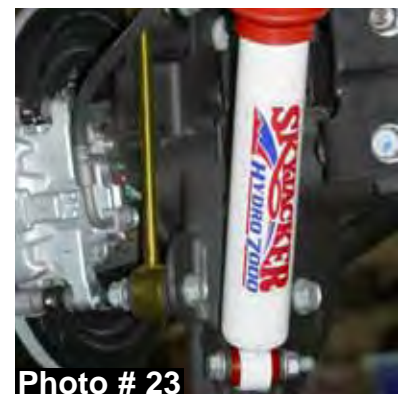
- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)

- 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.

- Have the headlights readjusted to the proper settings.

- Have a qualified alignment center realign the vehicle to the OEM specifications.

- Retorque all the bolts after the first 100 miles.



## **TORQUE SPECIFICATIONS**

<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.**