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# 2007- 2012 Jeep Wrangler JK 4" - 5" Value Flex Suspension Lift Installation Instructions

## Required Tools List:

- Safety Glasses
- Standard / Metric Wrenches & Sockets
- Floor Jack
- Jack Stands
- Drill & Assorted Drill Bits
- Measuring Tape
- 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<sup>®</sup> Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this lift kit, contact SKYJACKER<sup>®</sup> 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, but usually not noticed until a lift kit has been installed which makes the difference more visible. Using a measuring tape, measure the front and rear (both sides) from the ground up to the center of the fender opening above the axle. Record 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.
- Vehicles with 5" or more in lift, it is recommended to order a rear cam bolt kit (Part # CAM700) for proper rear pinion angle. In some applications a replacement rear drive shaft may be required. Please contact Skyjacker at 318-388-0816 for more information.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

## Component Box Breakdown:

### Part #: JK401-SVX

Item #	Description	Qty
JKLL24FSX-ASY	JK 2-5" F LWR LK SGL FLX ASY	2
JKLL24RSX-ASY	JK 2-5" R LWR LK SGL FLX ASY	2
RR114-14	ROD END BUSHING 14MM ID	8
JK40RBS-S	JK 4" REAR BUMP STOP BRKT	2
ABSS3040	BUMP STOP SPACER 4" TALL	2
JKFTB-B	JK 4" FRONT TRK BAR BRKT	1
JK24RTB-B	JK 2-4" REAR TRK BAR BRKT	1

Item #	Description	Qty
SBE126	DBL DISC END LINKS JEEP JK	1
SBE504	SWAY BAR LINK JEEP JK REAR	1
HB-JK40	HDWR BAG: JK 4"	1
HB-JK4BL	HDWR BAG:JK 4" BRK LINE BRK	1
JKBRC15	JK RR TRK BAR BRACE DANA 44	1
JKBRC34	JK FRT TRK BAR BRACE D30&44	1
I-JK401-SVX	INST SHEET: JK 4" VALUE FLX	1

### Part #: SBE126

Item #	Description	Qty
SBE102-L	SWAY BAR END LINK,FRT-SGL	2
SBE-E3	SWAY BAR END LK EYE	4
14X112SPIN	1/4 X 1 1/2 SNAPPER PIN	4

Item #	Description	Qty
HB-SBE126	HARDWARE BAG FOR SBE126	1
I-SBE120/124	INST SHEET - SBE120/124/320	1

### Part #: SBE504

Item #	Description	Qty
SBE506-L	REAR,SWAY BAR END LK,SGL	2

Item #	Description	Qty
HB-SBE504	HARDWARE BAG FOR SBE504	1

### Part #: JKBRC15

Item #	Description	Qty
JKBRC15-B	JK REAR TRK BAR BRACE D44	1
HB-JKBRC15	HARDWARE BAG FOR JKBRC15	1

Item #	Description	Qty
I-JKBRC15	INST SHEET:JK D44 TRK BRACE	1

### Part #: JKBRC34

Item #	Description	Qty
JKBRC34-1	JK FRONT TRK BAR BRC D30/44	1
JKBRC34-2	JK FRT TRK BAR SUPPORT BR	1
JKBRC34-30	JK FRT TRK BAR BRACE D30	1

Item #	Description	Qty
JKBRC34-44	JK FRT TRK BAR BRACE D44	1
HB-JKBRC34	HARDWARE BAG FOR JKBRC34	1
I-JKBRC34	INST SHEET FOR JKBRC34	1

## Hardware Bag Breakdown:

### Part # HB-JK40

Item #	Description	Qty
14X80MMB	14MM X 80 METRIC BOLT	1
14MMN	14MM N/I LOCK NUT	1
12X114FTB	1/2 X 1 1/4 FINE THRD BOLT	1
12SAEW	1/2 SAE WASHER	1
12FTN	1/2 FINE N/I LOCK NUT	1
38X4BHB	3/8 X 4 BUTTON HEAD BOLT	2
38SAEW	3/8 SAE WASHER	2
38CTN	3/8 COARSE N/I LOCK NUT	2
516X1FTB	5/16 X 1 FINE THRD BOLT	4
516SAEW	5/16 SAE WASHER	8

Item #	Description	Qty
516FTN	5/16 FINE N/I LOCK NUT	4
716X1FTB	7/16 X 1 FINE THRD BOLT	1
716X212FTB	7/16 X 2 1/2 FINE THRD BOLT	2
716SAEW	7/16 SAE WASHER	5
716FTN	7/16 FINE N/I LOCK NUT	3
916X3FTB	9/16 X 3 FINE THRD BOLT	1
916SAEW	9/16 SAE WASHER	5
916FTN	9/16 FINE N/I LOCK NUT	2
CS1625	CRUSH SLEEVE JKRTB	1
916X312FTB	9/16 X 3 1/2 FINE THRD BOLT	1

## Part # HB-JK4BL

Item #	Description	Qty
JKBE4D	BRAKE LINE BRACKET	2
14X1FTB	1/4 X 1 FINE THRD BOLT	2

Item #	Description	Qty
14SAEW	1/4 SAE WASHER	4
14FTN	1/4 FINE N/I LOCK NUT	2

## Part # HB-SBE126

Item #	Description	Qty
403712	ES22 SLEEVE/1.25" LONG	4
12X212BHCTB	1/2 X 2 1/2 BUTTON HEAD BOLT	2

Item #	Description	Qty
12USSW	1/2 USS WASHER	4
12CTN	1/2 COARSE N/I LOCK NUT	2

## Part # HB-SBE504

Item #	Description	Qty
HG58125	HOURGLASS 5/8" X 1.25"	4
403712	ES22 SLEEVE/1.25" LONG	4
12X212BHCTB	1/2 2 1/2 BUTTON HEAD COARS	4

Item #	Description	Qty
12SAEW	1/2 SAE WASHER	4
12USSW	1/2 USS WASHER	4
12CTN	1/2-13 COARSE N/I LOCK NUT	4

## Part # HB-JKBRC15

Item #	Description	Qty
516X1CTB	5/16 X 1 COARSE THRD BOLT	3
516XTFW	5/16" EXTRA THICK FLAT WASH	3

Item #	Description	Qty
516LW	5/16 LOCK WASHER	3

## Part # HB-JKBRC34

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

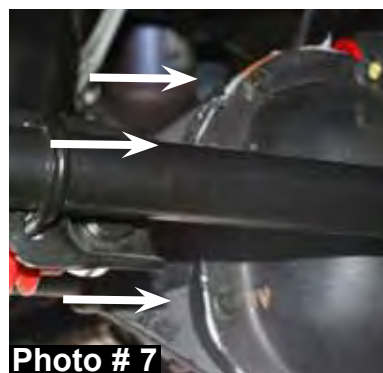
Item #	Description	Qty
516X1FTB	5/16 X 1 FINE THRD BOLT	3
716FTN	7/16 FINE N/I LOCK NUT	1
716SAEW	7/16 SAE WASHER	2
716X1FTB	7/16 X 1 FINE THRD BOLT	1

## 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. Disconnect the OEM front sway bar end links using a 18mm socket. Disconnect the OEM front track bar using a 21mm socket. (See Photo # 1)



4. If installing a new Skyjacker steering stabilizer Part # 7003, remove the OEM steering stabilizer using a 18mm socket. (See Photo # 2)
5. Disconnect the OEM front shocks & front drive shaft. Remove the front tires / wheels & remove the OEM front coils. (See Photo # 3) Remove the OEM front shocks.
6. Locate the new Skyjacker front bump stop spacers. Place the new bump stop spacers on the center of the OEM bump stop pad located on the front axle. Mark & drill using a 25/64" drill bit. (See Photo # 4)
7. Install the new bump stop spacers & new Skyjacker coil springs. Attach the new bump stop spacer to the axle using the supplied 3/8" x 4" button head bolts with one washer under the nut. (See Photo # 5)
8. Locate the OEM front track bar mount on the axle. 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 re-enforced weld on the OEM track bar bracket. Attach the new track bar bracket at the outer two locations using the supplied 7/16" x 2 1/2" fine thread bolts, washers, & nuts. Attach the new track bar bracket at the OEM location using the OEM bolt. Let the weight of the frame down on to the new coil springs. Attach the OEM track bar to the new track bar bracket using the supplied 14 x 80mm bolt, washers, & nut.
9. Remove the three OEM upper left differential cover bolts. (See Photo # 7)



10. 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.



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

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



13. 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)



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

15. Re-attach the front drive shaft. Assemble the new Skyjacker sway bar end links using the supplied bushings & steel sleeves. Attach the eyes using the supplied 1/4" snap pins. Attach the new sway bar end link to the axle using the OEM hardware. (See Photo # 14) Attach the lower portion of the sway bar using the supplied 1/2" x 2 1/2" button head bolt. Use one large USS washer under the nut.



16. If installing a Skyjacker steering stabilizer Part # 7003, install it at this time. (See Photo Below).



17. Install the new Skyjacker front shocks using the supplied hardware. (See Photo # 15)



18. Measure the length of the new Skyjacker front lower control arms between the center of the rod end & bushing on each control arm. Rotate the rod end as needed, being sure to keep the ends square with each other until the new Skyjacker front lower control arms measure 22 13/16" center to center.

19. Install the new Skyjacker rod end step bushings into each side of the new rod ends.

20. One at a time, remove the OEM front lower control arms & install the new Skyjacker front lower control arms using the OEM hardware. (See Photo # 16) **Note:** Install the new front lower control arms with the offset bend toward the inside of the vehicle. Tighten each jam nut to seat against the base of the new lower control arms.



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

## **Rear Installation:**

22. Raise the rear of the vehicle & properly support the frame rails using jack stands. Remove the OEM rear shocks using a 16mm socket. (See Photo # 17)



23. Disconnect the OEM rear track bar from the axle using a 21mm socket. (See Photo # 18)  
Disconnect the OEM rear sway bar end links using a 18mm socket.

24. Disconnect the OEM ABS line & brake line from the frame. (See Photo # 19)



25. Lower the differential & remove the OEM rear coil springs.

26. Place the new Skyjacker rear track bar relocation bracket over the OEM bracket on the axle. With the bracket seated flush, clamp the bracket in place, mark with a center punch, & drill the new center mounting holes using a 15/32" drill bit. (See Photo # 20)

27. Install the supplied 7/16" x 1" fine thread bolt, washer, & nut. (See Photo # 21)

28. It will be necessary to drill through the driver side bottom of the OEM bracket & through the new Skyjacker bracket. Drill using a 17/32" drill bit. Once drilled, install the supplied 1/2" x 1 1/4" fine thread bolt, washer, & nut. Install the supplied 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 # 22)

29. Remove the three OEM upper left differential cover bolts. (See Photo # 23)

30. Attach the new Skyjacker track bar brace to the differential using the supplied 5/16 x 1" coarse thread bolts. **Do not tighten at this time.** The end of the new bracket should be between the Skyjacker track bar bracket & the coil spring. Use the supplied thick 5/16" washers between the new bracket & the differential cover. Use a supplied 5/16" lock washer under the head of each bolt. (See Photo # 24 & # 25) **Do not tighten at this time.**

31. Attach the new brace to the front side of the Skyjacker track bar bracket between the bracket & the coil spring. **Do not tighten at this time.** (See Photo # 26)



Photo # 20

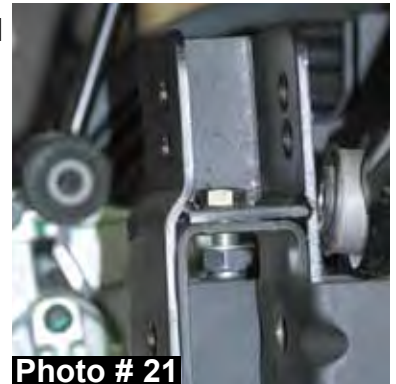


Photo # 21



Photo # 22

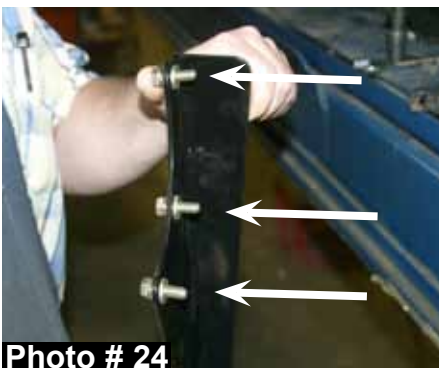


Photo # 24



Photo # 25



Photo # 23

32. Torque the 5/16" bolts at the differential & the 14mm bolt on the track bar to the OEM specifications.

33. Install the new Skyjacker rear coil springs. **Note:** Be sure to re-use the upper OEM rubber isolator pad.

34. 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 # 27) **Note:** Be sure to install the new bump stop spacer so the angled end is towards the rear of the vehicle.

35. Raise the differential in order to load the new rear coil springs & install the new Skyjacker sway bar end links using the supplied 5/8" hourglass bushings & 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 the bolts & the SAE washer under the nuts. (See Photo # 27)

36. Attach the new Skyjacker brake line brackets to the frame using the OEM hardware. Attach the OEM brake line to the new brackets using the supplied 1/4" x 1" fine thread bolts, washers, & nuts. (See Photo # 28)

37. Measure the length of the new Skyjacker rear lower control arms between the center of the rod end & bushing on each control arm. Rotate the rod end as needed, being sure to keep the ends square with each other until the new Skyjacker front lower control arms measure 19 7/8" center to center.

38. Install the new Skyjacker rod end step bushings into each side of the new rod ends.

39. One at a time, remove the OEM rear lower control arms & install the new Skyjacker rear lower control arms using the OEM hardware. (See Photo # 29) Tighten each jam nut to seat against the base of the new lower control arms.

40. Install the new Skyjacker rear shocks. (See Photo # 30)

41. 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 again 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 align the vehicle to the OEM specifications.
- Retorque all the bolts after the first 100 miles.

<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.**



**Jesus Forgives,  
Rocks Don't**

### ***Jesus Christ Died For You.***

John 3:16

For God so loved the world that He gave His only Son, so that everyone who believes in Him should not perish, but have everlasting life.  
Romans 3:23

For all have sinned; all fall short of God's glorious standard.  
Ephesians 2:8

God saved you by his special favor when you believed. And you can't take credit for this; it is a gift from God.  
Psalms 18:2

The Lord is my Rock, my fortress, and my savior; my God is my Rock, in whom I find protection. He is my shield, the strength of my salvation, and my stronghold.  
Romans 10:9-10

That if you shall confess with thy mouth the Lord Jesus, and shall believe in your heart that God hath raised him from the dead, you shall be saved. For with the heart man believeth unto righteousness; and with the mouth confession is made unto salvation.

Pray This Simple Prayer:

God, I come to You admitting I have sinned against You and I need you to take control of my life. The Bible says anyone who calls on the name of the Lord will be saved. I am calling on You, Jesus. I ask that You come live in my heart and be the Lord over my life today. I do believe You died on the cross for me and came back to life to give me life! Thank You, Lord Jesus for a new life in You!

Now, go and tell somebody about your new life in Jesus, get a Bible, begin to read it, and go to a Bible believing church.

If you would like someone to pray with you, call Kenneth Copeland Ministries anytime at 800-600-7395.

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### ***Jesús murió por ti.***

Juan 3:16

"Porque tanto amó Dios al mundo, que dio a su Hijo unigénito, para que todo el que cree en él no se pierda, sino que tenga vida eterna."  
Romanos 3:23

"Pues todos han pecado y están privados de la gloria de Dios."  
Efesios 2:8

"Porque por gracia ustedes han sido salvados mediante la fe; esto no procede de ustedes, sino que es el regalo de Dios."  
Salmos 18:2

"El Señor es mi roca, mi amparo, mi libertador; es mi Dios, el peñasco en que me refugio. Es mi escudo, el poder que me salva, ¡mi más alto escondite!"  
Romanos 10:9-10

"9 Que si confi esas con tu boca que Jesús es el Señor, y crees en tu corazón que Dios lo levantó de entre los muertos, serás salvo. 10 Porque con el corazón se cree para ser justifi cado, pero con la boca se confi esa para ser salvo."

Ahora dí esta simple oración:

Dios, vengo a Ti y admito que he pecado contra Ti, necesito que tomes el control de mi vida. La Biblia dice que todo aquel que invoca el nombre del Señor escapará con vida. En este momento yo clamo ante Ti, Jesús; te pido que vengas a vivir en mi corazón y que tomes el control de mi vida. ¡Yo creo que tu moriste en la cruz y resucitaste para darme vida! ¡Gracias Señor Jesús, por una nueva vida que tengo en Ti! Amen.

Ahora ve y dile a alguien sobre la nueva vida que tienes en Cristo. Compra una Biblia y empieza a leerla. Busca una Iglesia que cree en la Biblia y hazte parte de esa Iglesia.

Si te gustaría orar con alguien, puedes llamar a este número 800-600-7395

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