

Jeep Wrangler JK 4" Value Flex Suspension Lift Installation Instructions

Required Tools List:

- Standard / Metric Wrenches and Sockets
- Floor Jack
- Jack Stands
- Assorted Drill Bits



Before beginning the installation, read these instructions and the enclosed driver's WARNING NOTICE thoroughly and completely. Also affix the WARNING decal in passenger compartment in clear view of all occupants. If any of these items are missing from this instruction packet, do not proceed with installation, but call SKYJACKER® to obtain needed items. If you have any questions or reservations about installing this lift kit, call SKYJACKER® at 318-388-0816 for Technical Assistance or Customer Service departments.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is unlevel (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:

- **Draglink must be adjusted to center steering wheel before vehicle is driven. Failure to do so will cause computer errors, odd handling characteristics and poor performance.**
- **Vehicles with 5" or more in lift, it is recommended to order 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 for more information.**
- Please refer to Parts List to insure that all parts and hardware are received prior to disassembly of vehicle. If any parts are found to be missing, contact your dealer as soon as possible.
- After installation of Suspension Lift, A qualified alignment facility is required to re-align the vehicle to factory settings.

Kit Box Breakdown:

JK401-SVX:

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
JKLL24F-SX-L	JK 2-5" LOWER FRONT LINK SNGL FLEX	2
DLL23-SX-L	JK 2-5" LOWER REAR LINK SNGL FLEX	2
HB-JKLLF-SX	HDWR BAG:JK LWR SNG FLX FRT	1
HB-JKLLR-SX	HDWR BAG:JK LWR SNG FLX RR	1
RR114X1R	NG ROD END 1 1/4"RIGHT HAND	4
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
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

Hardware Bag Breakdown:

HB-JK40

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
14X80MMB	14MM X 80 METRIC BOLT/ 10.9	1
14MMN	14MM NYLON INSERT LOCK NUT	1
12X114FTB	1/2 X 1 1/4 FINE THD BOLT	1
12SAEW	1/2 SAE WASHER	1
12FTN	1/2-20 FINE N/I LOCK NUT	1
38X4BHB	3/8 X 4 BUTTON HEAD BOLT	2
38SAEW	3/8 SAE WASHER	2
38CTN	3/8-16 COARSE N/I LOCK NUT	2
516X1FTB	5/16 X 1 FINE THRD BOLT	4
516SAEW	5/16 SAE WASHER	8
516FTN	5/16" FINE THRD N/I LOCKNUT	4
716X1FTB	7/16 X 1 BOLT,FINE THD GRD8	1
716X212FTB	7/16 X 2 1/2 FINE THRD BOLT	2
716SAEW	7/16 SAE WASHER	5
716FTN	7/16-20 FINE N/I LOCK NUT	3
916X3FTB	9/16 X 3 FINE THREAD BOLT	1
916SAEW	9/16 SAE WASHERS	5
916FTN	9/16-18 NYLON INSERT LOCKNU	2
CS1625	CRUSH SLEEVE JK24RTB	1
916X312FTB	9/16 X 3 1/2 FINE THRD BOLT	1

Hardware Bag Breakdown:

HB-JK4BL

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
DVL10	BRAKE LINE BRKT, JK PASS REAR	1
JKBE4D	BRAKE LINE BRKT, JK DRVR REAR	1
516X1FTB	5/16 X 1 FINE THRD BOLT	2
516SAEW	5/16 SAE WASHER	4
516FTN	5/16" FINE THRD N/I LOCKNUT	2

Hardware Bag Breakdown:

Front Installation:

1. Park the vehicle on flat, level ground and set emergency brake.
2. Raise the front of the vehicle and support frame rails using jack stands.
3. Disconnect the front sway bar end links using a 18mm socket. Disconnect front track bar using a 21mm socket. (See Photo #1)
4. If installing Skyjacker Steering Stabilizer Part# 7003, Remove factory steering stabilizer using 18mm socket. (See Photo #2)
5. Disconnect front shocks using a 18mm socket. Remove front tires/wheels and remove front coils. (See Photo #3) Remove front Shocks.



Photo #1



Photo #2

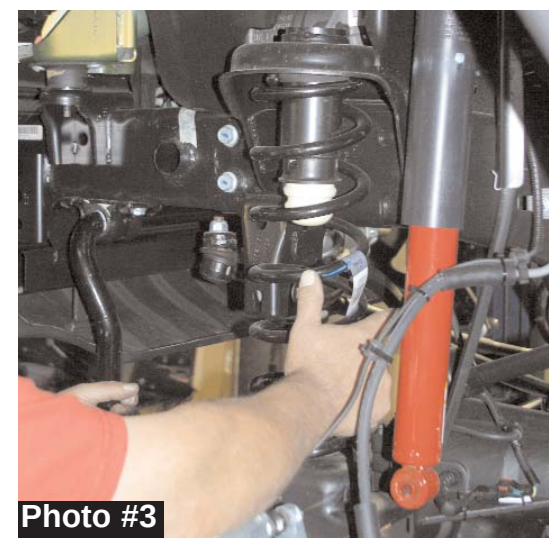


Photo #3

6. Locate new Skyjacker front bump stop. Place bump stop on the center of the bump stop pad located on the front axle. Mark and drill using a 25/64" drill bit. (See Photo #4).
7. Place bump stop in coil spring, and install coil spring. Attach bump stop to axle using the 3/8 X 4" button head bolts with one washer under the nut. (See Photo #5)
8. Locate the factory front track bar mount. Place the new Skyjacker relocation bracket inside the factory mount. Drill out the outer factory 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-enforce weld on the factory track bar bracket. Attach the bracket at the outer two locations using the 7/16 x 2 1/2" fine thread bolts, washers and nuts. Attach bracket at the factory location using the factory bolt. Let the weight of the frame down on to the new coils. Attach track bar to new bracket using the 14x80mm bolt, washers and nut.
9. Re-Attach front drive shaft. Assemble new Sway bar end links using the 5/8" Hourglass bushings and steel sleeves. Attach eyes using the 1/4" snap pins. Attach end link to the axle using the factory hardware. (See Photo #7) Attach to the sway bar using the 1/2 x 2 1/2" button head bolt. Use one large USS washer under the nut. Re-Attach front Drive Shaft.



Photo #4

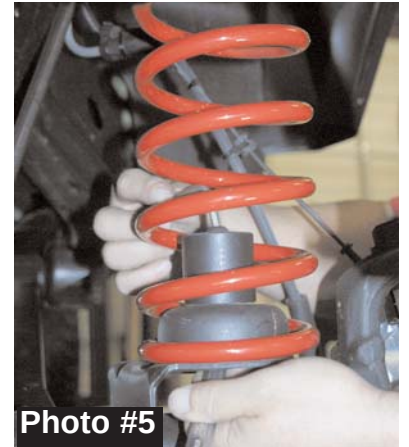


Photo #5



Photo #6

9. If installing Skyjacker Steering Stabilizer Part # 7003, install at this time. (See Photo Below).
10. Install new Front Skyjacker shocks using hardware supplied. (See Photo #8). Locate new Skyjacker Lower front control arms. Install bushings and sleeves. Install 3/16" Tap in grease fittings into one end of the control arm. Install Rod End, Jam Nut and thread in zirc fitting at the other. Note: The rear of the control arms have 2 locations for grease fittings. Therefore there is not a left or right control arm. When installed, one grease fitting will be accessible from the bottom. Install arms so that off set bend is toward the inside of the vehicle. Install using factory hardware. (See Photo #9) Thread the Rod End in so that the assembled center - center measurement is 22 13/16". Install rod end step bushings into the rod end and install. (See

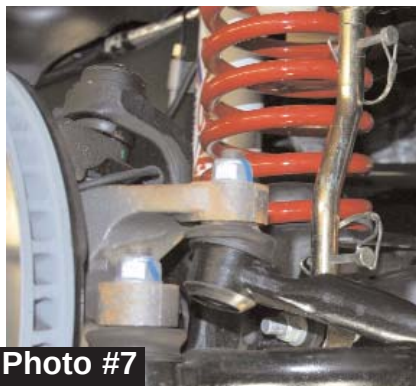


Photo #7



Photo #8



Photo #9

Install tires and wheels. Lower vehicle to the ground.

Note: Most models come equipped with a front transmission cross member. This cross member has 3 attachment points. One at each frame rail and one at the rear cross member. It will be necessary to lower this cross member using the supplied 1" spacers for driveline clearance. Install spacers using the 12 x 65 mm bolts supplied.

Rear Installation:

11. Raise rear end and properly support frame rails using jack stands. Remove rear shocks using 16mm socket. (See Photo #10)
12. Disconnect rear track bar bracket from the axle using 21mm socket. (See Photo #11). Disconnect rear sway bar end links using 18mm socket.
13. Disconnect ABS line from frame and disconnect brake line from frame. (See Photo #12) Lower axle down and remove factory rear coils.
14. Place Skyjacker rear Track Bar relocation bracket over factory bracket on the axle. With bracket seated flush, mark and drill the new center mounting holes using a 15/32" drill bit. (See Photo 13)
15. Install the supplied 7/16 x 1" fine thread bolt and fine thread nyloc nut. Use one 7/16" washer under the nut. (See Photo #14). Tighten nut at this time.
16. It will be necessary to drill through the driver side bottom of the OEM bracket and through the Skyjacker bracket. Drill using a 17/32" drill bit. Once drilled, install the supplied 1/2" x 1 1/4" fine thread bolt and nyloc nut. Use one washer under the bolt. Install the 9/16 x 3 1/2" bolt, washers and nut at the bottom location being sure to use the supplied crush sleeve. (See Arrow in Photo #15) Tighten all track bar bracket hardware at this time. Install new track bar bracket brace at this time. (See Photo #16) NOTE: It is recommended to put a re-enforce weld on the factory track bar bracket at this time.
17. Install new Skyjacker Softride® rear coils. Be sure to re-use the upper OE Rubber isolator pad.

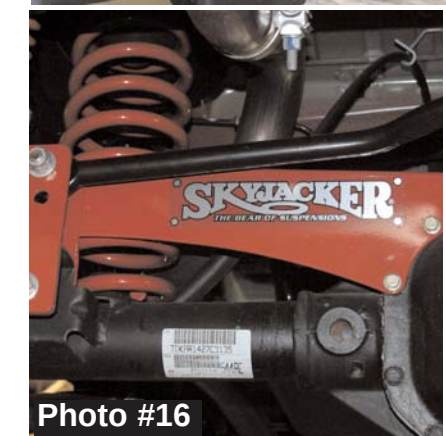
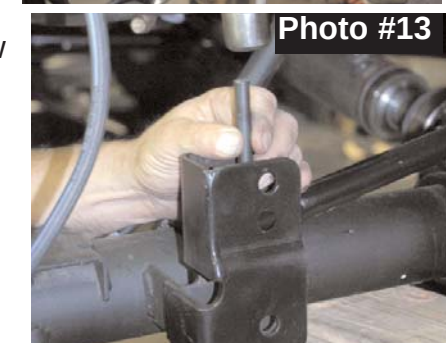
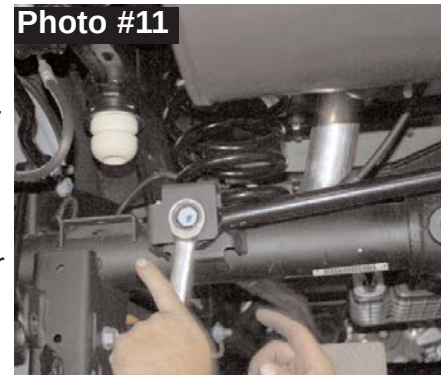
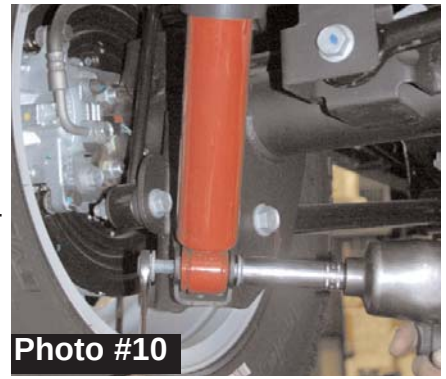


Photo #14
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Photo #15

Photo #16

18. Attach new rear bump stops to the factory location on the axle using the 5/16 x 1" fine thread bolts, washers and nuts supplied. (See Photo #17) Be sure to install the bump stop so that the angled end is towards the rear.
19. Let weight on coil springs. Install new sway bar end links using the supplied 5/8" hourglass bushings and steel sleeves. Attach using the 1/2 x 2 1/2 button head bolts and nuts. One large USS washer will be used under the head of each bolt with the smaller SAE washer under the nut. (See Photo #17)
20. Attach track bar to new bracket using 9/16 x 3" fine thread bolt, washer and nut. One washer will be used under the head of the bolt. 4" Kits will use the upper mounting hole in the new bracket. Be sure to install the bolt from the front side toward rear.
21. There are two brakeline extension brackets supplied. The flat is for passenger side while the offset bracket is for the driver side. Attach the supplied brackets to the frame using the factory hardware. Attach brakeline to new bracket using the 5/16 x 1" fine thread bolt, washers and nut. (See Photo #18).
22. Remove lower control arms (one at a time). Install bushing sleeves and grease fittings into new Skyjacker lower control arms. Assemble the rod end same as the front. Installed center - center measurement to be 19 7/8" (See Photo #19)
23. Install new Skyjacker rear shocks. (See Photo #20)
24. Install tires/wheels and lower vehicle to the ground.

FINAL NOTES:

- * **Draglink must be adjusted to center steering wheel before vehicle is driven. Failure to do so will cause computer errors, odd handling characteristics and poor performance.**
- * After installation is complete, double check that all nuts and bolts are tight. tighten all control arm jam nuts.
- * Check to ensure there is adequate clearance between All rotating, mobile and fixed members. Check clearance between inner side wall of tires.
- * Ensure there is adequate clearance between exhaust and brake lines, fuel lines, fuel tank, floor board, and wiring harnesses. Check steering gear for interference and proper working order. Inspect brake lines for damage and adequate clearance. Test brake system.
- * With the vehicle on the floor, cycle steering lock to lock and inspect steering, suspension, drive line and brake line systems for proper operation, tightness and adequate clearance.
- * Have headlights readjusted to proper settings.
- * Front end realignment is necessary so have a qualified alignment center realign front end to factory specifications.

Seat Belts Save Lives, Please Wear Your Seat Belt!

