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2007 - 2017 Jeep Wrangler JK 3.5" - 6" Front Coil-Over Lift Installation Instructions

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- 7/32" Hex Key Socket / Wrench
- Center Punch / Hammer
- Angle Drill / 5/16" & 3/8" Short Length Drill Bits
- Drill / 5/16" & 3/8" Drill Bits
- Grinder
- Pneumatic Body Saw
- Tin Snips
- Floor Jack
- Jack Stands
- Measuring Tape
- 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 or hardware 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.

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 (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: _____

Important Notes:

- In the event of a need for different coil spring rate options, due to heavier weight, custom modifications, or etc. Please call SKYJACKER® Technical Assistance at 318-388-0816.
- A replacement front dual cardan CV style drive shaft is **required**.
- Front adjustable lower control arms are **required**. (Part # JKLL24F-SX)

- Front adjustable track bar is **recommended**. (Part # JKFTBA717)
- Exhaust spacers are **required** for 2012 to current models. (Part # JK36ESK)
- The **recommended** wheel back spacing is 4.5" or less.
- 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.

Component Box Breakdown:

Part # JK62FLS

Item #	Description	Qty
SKY2031L-S	LEFT R/R COIL-OVER SHOCK	1
SKY2031R-S	RIGHT R/R COIL-OVER SHOCK	1
2.5X12X200	2.5X12X200 COIL-OVER SPRING	2

Item #	Description	Qty
2.5X12X350	2.5X12X350 COIL-OVER SPRING	2
LSCOWRH-S	2.0 C/O SHK SPANNER WRENCH	1

Part #: JK62FLSB

Item #	Description	Qty
JKLSBOFDU-B	DRV UPPER COIL-OVER BRKT	1
JKLSBOFPU-B	PAS UPPER COIL-OVER BRKT	1

Item #	Description	Qty
H-BOX JKFLSB	HDWR BOX: JK62FLSB	1

Hardware Box Breakdown:

Part # H-BOX JKFLSB

Item #	Description	Qty
JKLSBOFDLI-B	DRV LOWER INNER SHK BRK	1
JKLSBOFDLO-B	DRV LOWER OUTER SHK BR	1
JKLSBOFPLI-B	PAS LOWER INNER SHK BRK	1
JKLSBOFPLO-B	PAS LOWER OUTER SHK BRK	1
JKLSBORRD-B	DRV REMOTE RES BRACKET	1
JKLSBORRP-B	PAS REMOTE RES BRACKET	1
SBE126	FRT SWAY BAR END LINKS	1

Item #	Description	Qty
JKFBL60	FRONT BRAKE LINES	1
ABSS3040	FRONT BUMP STOP SPACER	2
HB-BSS40	HDWR BAG: BUMP STOP SPCR	1
HB-JKLSBOFSL	HDWR BAG: LWR SHK BRKTS	1
HB-JKLSBOFSU	HDWR BAG: FRT UPR BRKTS	1
I-JKFLS	INST SHEET: JK62FLS	1

Part #: SBE126

Item #	Description	Qty
SBE102-L	FRONT SWAY BAR END LK, SGL	2
SBE-E3	FRONT SWAY BAR END LK EYE	4

Item #	Description	Qty
14X112SPIN	1/4 X 1 1/2 SNAPPER PIN	4
HB-SBE126	HDWR BAG: SBE126	1

Part #: JKFBL60

Item #	Description	Qty
JKBL60S	REAR BRAKE LINE	2
BE15	BRAKE LINE BRACKET	2
3CCW	COPPER CRUSH WASHER	4

Item #	Description	Qty
BTIE	RED BOOT TIE	2
HC1	HOSE HORSESHOE CLIP	2
I-BL	INST SHEET: BRAKE LINES	1

Hardware Bag Breakdown:

Part # HB-BSS40

Item #	Description	Qty
38X4BHB	3/8 X 4 BUTTON HEAD BOLT	2
38SAEW	3/8 SAE WASHER	2

Item #	Description	Qty
38CTN	3/8 COARSE THREAD LOCK NUT	2

Part #: HB-JKLSBOFSL

Item #	Description	Qty
141509	ES25 SLEEVE / 1.50" LONG	2
516X1FTB	5/16 X 1 FINE THREAD BOLT	2
516SAEW	5/16 SAE WASHER	4
516FTN	5/16 FINE THREAD LOCK NUT	2
38X1FTB	3/8 X 1 FINE THREAD BOLT	4

Item #	Description	Qty
38SAEW	3/8 SAE WASHER	8
38FTN	3/8 FINE THREAD LOCK NUT	4
12X412FTB	1/2 X 4 1/2 FINE THREAD BOLT	2
12SAEW	1/2 SAE WASHER	4
12FTN	1/2 FINE THREAD LOCK NUT	2

Part #: HB-JKLSBOFSU

Item #	Description	Qty
38X114FTB	3/8 X 1 1/4 FINE THREAD BOLT	10
38SAEW	3/8 SAE WASHER	20
38FTN	3/8 FINE THREAD LOCK NUT	10
12X512FTB	1/2 X 5 1/2 FINE THREAD BOLT	2
12SAEW	1/2 SAE WASHER	4

Item #	Description	Qty
12FTN	1/2 FINE THREAD LOCK NUT	2
34X2CTB	3/4 X 2 COARSE THREAD BOLT	2
34SAEW	3/4 SAE WASHER	4
34CTN	3/4 COARSE THREAD 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 THREAD LOCK NUT	2

Optional Jeep JK Coil-Over Items: (Sold Separately)



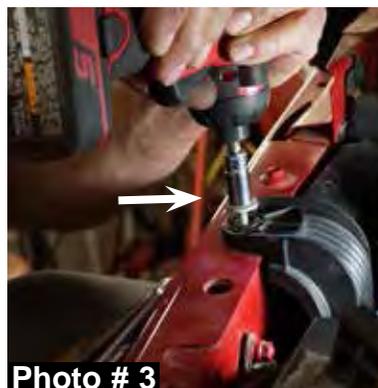
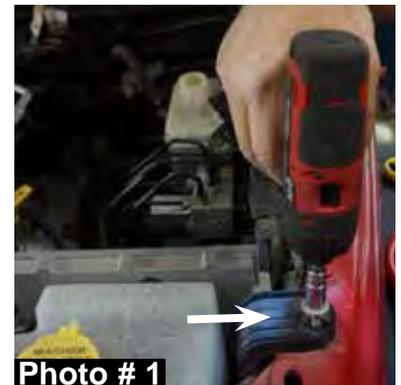
Part # JKLSAB / Front Air Bump Stop Kit



Part # JK42RLSBO 3.5" - 4.5"
Part # JK62RLSBO 4.5" - 6"
Rear Coil-Over Kit

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 using a floor jack & support the frame rails using jack stands.
3. Support the front differential using a floor jack & remove the front tires / wheels.
4. Remove the OEM front sway bar end links using a 18mm socket / wrench & 19mm socket / wrench.
5. Disconnect the OEM front track bar from the front differential using a 21mm socket / wrench.
6. Remove the OEM front shocks using a 18mm socket / wrench.
7. Disconnect the OEM front brake line brackets from the front differential using a 10mm socket / wrench.
8. Mark the location of the OEM front driveshaft / yoke & remove the front driveshaft using a 15mm socket / wrench.
9. While checking for adequate slack in the ABS lines, brake lines, differential breather hose, & etc. Lower the front differential & remove the OEM coil springs & rubber isolators.
10. Remove the OEM plastic inner fender liners using a clip removal tool & a 10mm socket.
11. **Driver Side:** Remove the four OEM bolts from the plastic housing that holds the washer fluid tank, ECM, & ABS module in place using a 10mm socket / wrench. (See Photo # 1)
12. **Passenger Side:** Remove the intake hose from the OEM air filter housing using a 5/16" socket / wrench & remove the OEM air filter housing. (See Photo # 2)
13. **Passenger Side:** Remove the four OEM bolts from the plastic housing that holds the battery, fuse box, & air filter housing in place using a 10mm socket / wrench. (See Photo # 3)



14. Install the new Skyjacker upper coil-over brackets to the OEM upper shock brackets using the supplied 3/4" x 2" coarse thread bolts, washers, nuts, & a 1 1/8" socket / wrench. **Note:** Do not fully tighten at this time. (See Photo # 4)

15. Mark the two forward mounting holes of the new Skyjacker upper coil-over brackets using a scribe tool or similar tool. (See Photo # 5)

16. Mark, center punch, & drill the three rearward mounting holes of the new Skyjacker upper coil-over brackets using a 3/8" drill bit. (See Photo # 6)

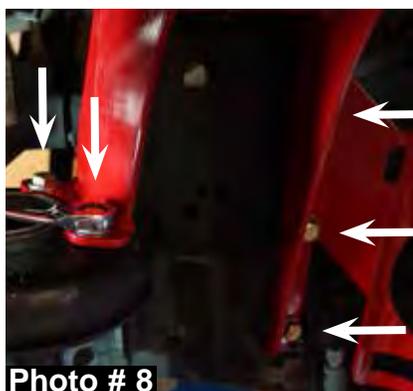
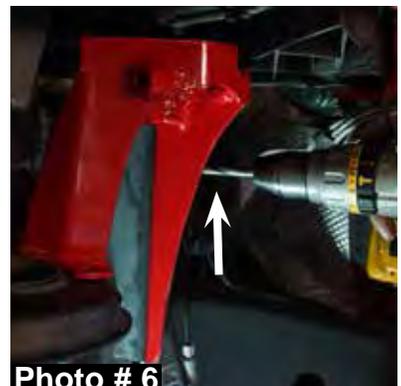
17. Remove the new Skyjacker upper coil-over brackets using a 1 1/8" socket / wrench.

18. Drill the two previously scribed marks for the two forward mounting holes of each new Skyjacker upper coil-over bracket using an angle drill & short length 3/8" drill bit. (See Photo # 7)

19. Reinstall the new Skyjacker upper coil-over brackets using the supplied 3/4" x 2" coarse thread bolts, washers, nuts, & a 1 1/8" socket / wrench. **Note:** Do not fully tighten at this time.

20. Align the new Skyjacker remote reservoir brackets with the two upper rearward holes of each new Skyjacker upper coil over bracket & complete the install of the new upper coil-over brackets using the supplied 3/8" x 1 1/4" fine thread bolts, washers, nuts, & a 9/16" socket / wrench. **Note:** Fully tighten all upper coil-over bracket hardware at this time using a 9/16" socket / wrench & 1 1/8" socket / wrench. (See Photo # 8)

21. Draw a line from each rear corner of the OEM lower coil spring seats to intersect towards the center & cut using a grinder or similar tool. **Note:** This step is for coil-over spring clearance, it is not necessary to remove the entire OEM lower coil spring seat. (See Photo # 9)



22. Clean up any imperfections & round any sharp edges using a grinder or similar tool.

23. Prime / paint all raw metal exposed from cutting the OEM lower coil spring seats.

24. Place the new Skyjacker bump stop spacers on the center of the OEM bump stop pads located on the front differential. Mark, center punch, & drill using a 3/8" drill bit. (See Photo # 10)

25. Drill the hole of the OEM coil spring mounts using an angle drill & short length 5/16" drill bit. (See Photo # 11)

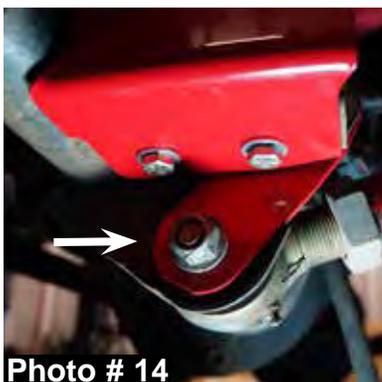
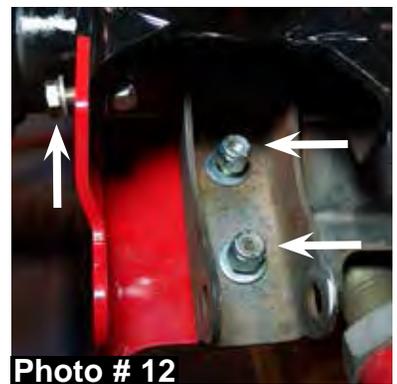
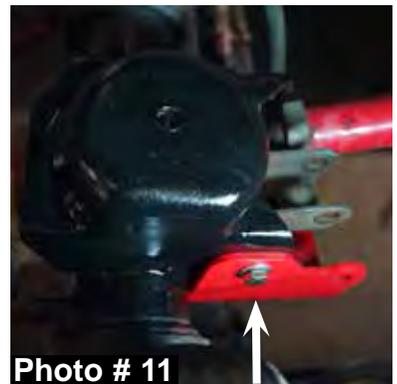
26. Install the new Skyjacker lower shock mount brackets using the supplied 5/16" x 1" fine thread bolts, 3/8" x 1" fine thread bolts, washers, nuts, a 1/2" socket / wrench, & a 9/16" socket / wrench.
Note: The forward hole on the passenger side OEM lower shock mount must be drilled using an angle drill & a short length 3/8" drill bit. (See Photo # 12)

27. 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, & a 9/16" socket / wrench. (See Photo # 13)

28. One at a time, remove the bolt from the OEM lower links using a 21mm socket / wrench & reinstall the OEM lower link bolts so the nut will face toward the outside of the vehicle.

29. Install the new Skyjacker lower shock mount braces with the offset toward the OEM lower shock brackets using the OEM lower link bolts, nuts, & a 21mm socket / wrench. (See Photo # 14)

30. **Driver Side:** Remove a small area of the OEM plastic from the rear of the new Skyjacker upper coil-over bracket for nut clearance using a pneumatic body saw or similar tool. (See Photo # 15)



31. With the 90 degree fitting, resevoir hose, & remote resevoir of each new Skyjacker coil-over shock facing toward the rear of the vehicle, install the new Skyjacker coil-over shocks to the new Skyjacker upper coil-over shock brackets using the supplied shock spacers, 1/2" x 5 1/2" fine thread bolts, washers, nuts, & a 3/4" socket / wrench. (See Photo # 16)



32. Install the new Skyjacker coil-over shocks to the new Skyjacker lower coil over shock brackets using the supplied shock spacers, steel sleeves, 1/2" x 4 1/2" fine thread bolts, washers, nuts, & a 3/4" socket / wrench. (See Photo # 17)



33. Install the new Skyjacker remote reservoirs to the new Skyjacker remote reservoir brackets using the supplied screw clamps & a 5/16" socket / wrench. **Note:** Trim any excess length of the new screw clamps using tin snips or similar tool. (See Photo # 18)

34. **Passenger Side:** Install the four OEM bolts to the plastic housing that holds the battery, fuse box, & air filter housing in place using a 10mm socket / wrench. (See Photo # 3)

35. **Passenger Side:** Install the intake hose to the OEM air filter housing using a 5/16" socket / wrench & install the OEM air filter housing. (See Photo # 2)



36. **Driver Side:** Install the four OEM bolts to the plastic housing that holds the washer fluid tank, ECM, & ABS module in place using a 10mm socket / wrench. (See Photo # 1)

37. Trim each OEM plastic inner fender liner for clearance of the new Skyjacker upper coil-over brackets using a pneumatic body saw or similar tool. (See Photo # 19)

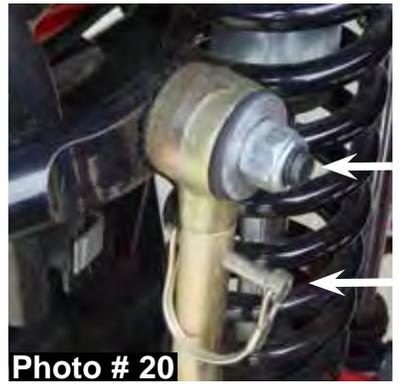
38. Install the OEM plastic inner fender liners using the OEM plastic clips, OEM bolts, & a 10mm socket / wrench.

39. Install the front driveshaft using a 15mm socket / wrench.

40. Install the OEM front track bar to the front differential using a 21mm socket / wrench.



41. Assemble the new Skyjacker sway bar end links using the supplied steel sleeves, eyelets, & 1/4" snap pins. Install the new sway bar end links to the differential using the OEM hardware & to the OEM sway bar using the supplied 1/2" x 2 1/2" button head bolts, washers, nuts, & a 3/4" socket / wrench. (See Photo # 20)



42. Remove the OEM front brake lines & install the new Skyjacker brake lines to the OEM location on the frame using the supplied 90 degree brackets, horseshoe clips, copper crush washers, OEM hardware, & a 10mm socket / wrench. **Note:** Once installed, the brake system must be bled to operate properly. (See Photo # 21)



43. Install the front 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.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

<u>TORQUE SPECIFICATIONS</u>					
<u>INCH SYSTEM</u>			<u>METRIC SYSTEM</u>		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
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.