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2018 Jeep Wrangler JL 3.5" - 6" Front Coil-Over Lift Installation Instructions

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- Center Punch / Hammer
- Plastic Rivet Tool
- Fastener Removal Tool
- Angle Drill / 3/8" Short Length Drill Bit
- Drill / 3/8" Drill Bit
- Scribe Tool
- 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 # JLL24F-SX)

- Front adjustable track bar is **recommended**. (Part # JLFTBA18)
- 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 # JL36FLS

Item #	Description	Qty
SKY2031-PR	R/R COIL-OVER SHOCK / PAIR	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 #: JL36FLSB

Item #	Description	Qty
JLLSBOFDU-B	DRV UPPER COIL-OVER BRKT	1
JLLSBOFPU-B	PAS UPPER COIL-OVER BRKT	1

Item #	Description	Qty
H-BOX JLFLSB	HWR BOX: JL36FLSB	1

Hardware Box Breakdown:

Part # H-BOX JLFLSB

Item #	Description	Qty
JLLSBOFDL-B	FRT DRIV LOWER C/O BRKT	1
JLLSBOFDL-3	FRT DRIV LWR INNER BRKT	1
JLLSBOFDL-5	FRT DRIV LWR OUTER BRKT	1
JLLSBOFPL-B	FRT PASS LOWER C/O BRKT	1
JLLSBOFPL-3	FRT PASS LWR INNER BRKT	1
JLLSBOFPL-5	FRT PASS LWR OUTER BRKT	1

Item #	Description	Qty
JKLSBORRD-B	DRIV REMOTE RES BRKT	1
JKLSBORRP-B	PASS REMOTE RES BRKT	1
HB-JLLSBOFL	HDWR BAG: JLLSBOFL FRT LW	1
HB-JLLSBOFU	HDWR BAG: JLLSBOFU FRT UP	1
I-JLFLS	INST SHEET: JL36FLS	1

Hardware Bag Breakdown:

Part # HB-JLLSBOFL

Item #	Description	Qty
CS1565	CRUSH SLEEVE / 1.565"	2
38X114FTB	3/8 X 1 1/4 FINE THREAD BLT	4
38SAEW	3/8 SAE WASHER	8
38FTN	3/8 FINE NYLON LOCK NUT	4
716X114FTB	7/16 X 1 1/4 FINE THREAD BLT	2
716SAEW	7/16 SAE WASHER	4

Item #	Description	Qty
716FTN	7/16 FINE NYLON LOCK NUT	2
12X4FTB	1/2 X 4 FINE THREAD BOLT	4
12SAEW	1/2 SAE WASHER	8
12FTN	1/2 FINE NYLON LOCK NUT	4
RVT14-1	1/4" X .500 BLK NYLON RIVET	6

Part #: HB-JLLSBOFU

Item #	Description	Qty	Item #	Description	Qty
CS2752	CRUSH SLEEVE / 2.75"	2	12X234FTB	1/2 X 2 3/4 FINE TRHEAD BOLT	2
38X114FTB	3/8 X 1 1/4 FINE THREAD BOLT	8	12SAEW	1/2 SAE WASHER	4
38SAEW	3/8 SAE WASHER	12	12FTN	1/2 FINE NYLON LOCK NUT	2
38FTN	3/8 FINE NYLON LOCK NUT	8			

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

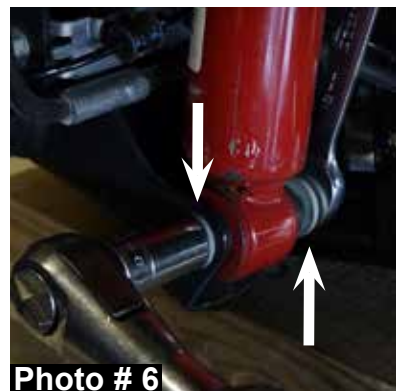


Installation:

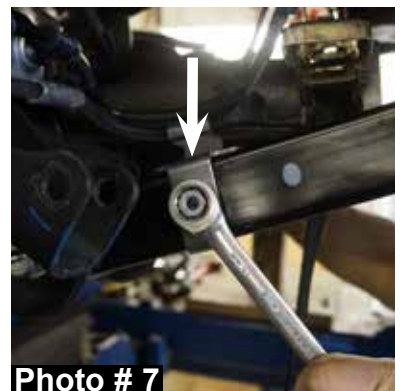
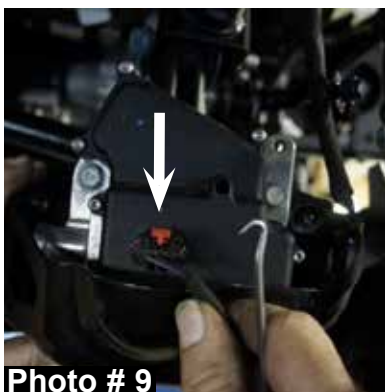
1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Raise the front of the vehicle, support the frame rails, & front differential using jack stands.
3. Remove the front tires / wheels using a 22mm socket. (See Photo # 1)
4. Remove the front skid plate using a 13mm socket / wrench. (See Photo # 2)
5. Disconnect the front sway bar end links from the front differential using a 18mm socket / wrench. (See Photo # 3)



6. Disconnect the front track bar from the frame bracket using a 21mm socket / wrench. (See Photo # 4)
7. Disconnect the drag link from the pitman arm using a 21mm socket / wrench. (See Photo # 5)
8. Remove the front shocks using a 18mm socket / wrench. (See Photo # 6)
9. Disconnect the front brake line brackets from the front differential & front lower control arms using a 10mm socket / wrench & 15mm socket / wrench. (See Photo # 7)
10. Mark the location of the front driveshaft / flange at the front differential & disconnect using a 15mm socket / wrench. (See Photo # 8)
11. Disconnect the wiring harness from the passenger side front upper control arm & 4wd acuator. (See Photo # 9)
12. Disconnect the front differential vent hose from the driver side frame bracket.
13. While checking for appropriate slack in ABS lines, brake lines, differential vent hose, electrical connections, & etc. Lower the front differential & remove the front coil springs & rubber isolators.



14. Remove the plastic inner fender liners using a fastener removal tool, 8mm socket / wrench, & 10mm socket / wrench. **Note:** It will be necessary to remove three rearward plastic rivets in order to remove the plastic inner fender liners. (See Photo # 10)



15. Install the new Skyjacker front upper coil-over brackets to the front upper shock brackets using the supplied 2 3/4" long sleeves, OEM hardware, & a 18mm socket / wrench. **Note:** Do not fully tighten at this time. (See Photo # 11)



16. Mark, center punch, & drill the two rearward mounting holes of the new Skyjacker front upper coil-over brackets using a 3/8" drill bit. (See Photo # 12)



17. Mark the two forward mounting holes of the new Skyjacker front upper coil-over brackets using a scribe tool. (See Photo # 13)



18. Remove the new Skyjacker front upper coil-over brackets using a 18mm socket / wrench. (See Photo # 11)

19. Drill the two previously scribed marks for the two forward mounting holes of each new Skyjacker front upper coil-over bracket using an angle drill & short length 3/8" drill bit. (See Photo # 14)



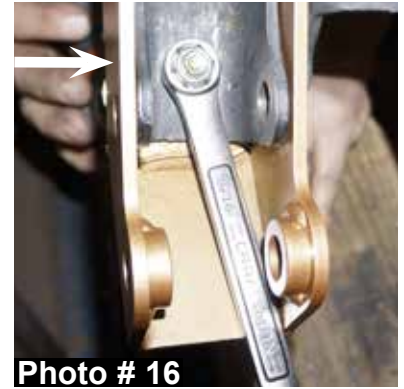
20. Reinstall the new Skyjacker front upper coil-over brackets using the supplied 2 3/4" long sleeves, OEM hardware, a 18mm socket / wrench. **Note:** Do not fully tighten at this time. (See Photo # 11)

21. Align the new Skyjacker front remote reservoir brackets with the two rearward holes of each new Skyjacker front upper coil over bracket & complete the install of the new front upper coil-over brackets using the supplied 3/8" x 1 1/4" fine thread bolts, washers, nuts, a 9/16 socket / wrench, & 18mm socket / wrench. **Note:** 3/8" washers are not used on the nut side of the remote reservoir bracket hardware. Fully tighten all front upper coil-over bracket hardware using a 9/16" socket / wrench & 18mm socket / wrench. (See Photo # 15)

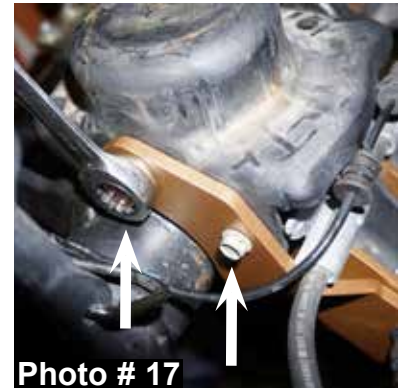


22. One side at a time, disconnect each front lower control arm from the front differential using a 21mm socket / wrench & 24mm socket / wrench.

23. With the welded side of each new Skyjacker front lower coil-over bracket facing toward the inside of the vehicle, install each new front lower coil-over bracket to the OEM front lower shock bracket using the supplied 3/8" x 1 1/4" fine thread bolts, washers, nuts, & a 9/16" socket / wrench. **Note:** It will be necessary to drill the second hole of each new front lower coil-over bracket using a drill & 3/8" drill bit. Do not fully tighten at this time. (See Photo # 16)



24. Install the new Skyjacker front lower coil-over braces to each side of the new front lower coil-over brackets using the supplied 1 9/16" long sleeves, 7/16" x 1 1/4" fine thread bolts, 1/2" x 4" fine thread bolts, washers, nuts, OEM brake line bracket hardware, a 10mm socket / wrench, 5/8" socket / wrench, & 3/4" socket / wrench. **Note:** Do not fully tighten at this time. (See Photo # 17)

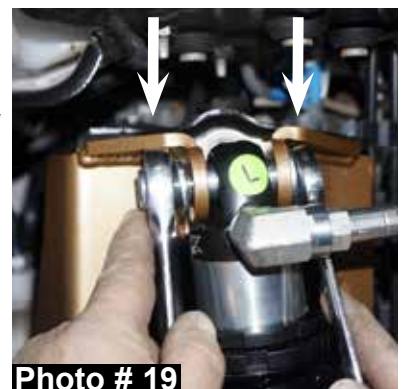


25. One side at a time, connect each front lower control arm to the front differential & new Skyjacker front lower coil-over brace using the OEM hardware, a 21mm socket / wrench & 24mm socket / wrench. (See Photo # 18)

26. With the fitting, reservoir hose, & remote reservoir of each new Skyjacker front coil-over shock facing toward the rear of the vehicle, install the new Skyjacker front coil-over shocks to the new Skyjacker front upper coil-over shock brackets using the supplied shock spacers, 1/2" x 2 3/4" fine thread bolts, washers, nuts, & a 3/4" socket / wrench. (See Photo # 19)



27. Install the new Skyjacker front coil-over shocks to the new Skyjacker front lower coil-over shock brackets using the supplied shock spacers, 1/2" x 4" fine thread bolts, washers, nuts, & a 3/4" socket / wrench. (See Photo # 19)



28. Install the new Skyjacker front remote reservoirs to the new Skyjacker front 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. (See Photo # 20)

29. Fully tighten all front lower coil-over bracket hardware using a 10mm socket / wrench, 9/16" socket / wrench, 5/8" socket / wrench, 3/4" socket / wrench, 21mm socket / wrench, & 24mm socket / wrench.



30. Raise the front differential & connect the front driveshaft / flange at the front differential using the OEM hardware & a 15mm socket / wrench. (See Photo # 8)
31. Connect the front differential vent hose to the driver side frame bracket.
32. Connect the wiring harness to the passenger side front upper control arm & 4wd acuator. (See Photo # 9)
33. Connect the front brake line brackets to the front lower control arms using the OEM hardware & a 15mm socket / wrench. (See Photo # 7)
34. Connect the drag link to the pitman arm using the OEM hardware & a 21mm socket / wrench. (See Photo # 5)
35. Connect the front track bar to the frame bracket using the OEM hardware & a 21mm socket / wrench. (See Photo # 4)
36. Connect the front sway bar end links to the front differential using the OEM hardware & a 18mm socket / wrench. (See Photo # 3)
37. Install the plastic inner fender liners using the supplied plastic rivets, OEM hardware, a plastic rivet tool, 8mm socket / wrench, & 10mm socket / wrench. (See Photo # 10)
38. Install the front skid plate using the OEM hardware & a 13mm socket / wrench. (See Photo # 2)
39. Install the front tires / wheels using a 22mm socket & lower the front of the vehicle to the ground. (See Photo # 1)

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.

TORQUE SPECIFICATIONS

<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.