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84-01 Jeep XJ Cherokee 93-98 ZJ Grand Cherokee 3" Suspension Lift Installation Instructions

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Wrenches & Sockets
- Drill & Assorted Drill Bits
- 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 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 & 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:

- 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.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

Component Box Breakdown:

Part #: JC30F / JC30FDR

| Item # | Description | Qty | Item # | Description | Qty |
|-----------|-----------------------------------|-----|--------|---------------|-----|
| TJ40FS-DR | JEEP XJ / ZJ 3" FRONT COIL SPRING | 2 | WD1 | WARNING DECAL | 1 |

Component Box Breakdown:

Part #: GC30 / JC30 / JC30S

| Item # | Description | Qty | Item # | Description | Qty |
|-------------|---|-----|-----------|--|-----|
| TJLL24-L | JEEP LOWER LINK, FRONT | 2 | 12X234X6U | 1/2 X 2 3/4 X 6 U-BOLT | 4 |
| GLLR3-L | JEEP LOWER LINK, REAR (Included With GC30 Box) | 2 | HB-12 | HDWR BG: 1/2 NUTS & WASHERS (Included With JC30S Box) | 1 |
| JTBF-B | JEEP TRACK BAR BRKT, FRONT | 1 | HB-JTBF | HDWR BAG: FRT TRK BAR BRKT | 1 |
| 12X318X612U | 1/2 X 3 1/8 X 6 1/2 U-BOLT (Included With JC30S Box) | 4 | I-JC30 | INST SHEET: GC30 / JC30 / JC30S | 1 |

Hardware Bag Breakdown:

Part # HB-12

| Item # | Description | Qty | Item # | Description | Qty |
|--------|--------------------------|-----|--------|-------------------|-----|
| 12FTN | 1/2 FINE THREAD LOCK NUT | 8 | 12UBW | 1/2 U-BOLT WASHER | 8 |

Part # HB-JTBF

| Item # | Description | Qty | Item # | Description | Qty |
|------------|--------------------------|-----|--------|--------------------------|-----|
| 10MMX70MMB | 10 X 70 METRIC BOLT/10.9 | 1 | 38FTN | 3/8-24 FINE N/I LOCK NUT | 1 |
| 10MMN | 10 MM N/I LOCKNUT | 1 | 38SAEW | 3/8 SAE WASHER | 3 |
| 38X1FTB | 3/8 X 1 FINE THREAD BOLT | 1 | | | |

Front Installation:

1. Secure & properly block the rear tires / wheels of the vehicle on a level concrete or asphalt surface.
2. Raise the front of the vehicle & support the vehicle using jack stands.
3. Remove the front tires / wheels & OEM front shocks.
4. Disconnect the OEM front track bar at the axle mount. (See Photo # 1)
5. Disconnect the OEM drag link assembly from the OEM pitman arm & disconnect the OEM sway bar end links from the axle brackets. (See Photo # 2)



6. Lower the front axle until the OEM coil springs become loose & remove the OEM spring clip at the bottom of the OEM left front coil spring. Remove the OEM coil springs. (See Photo # 3)

7. Install the new Skyjacker coil springs. (See Photo # 4) Raise the front axle so enough load is applied to hold the new coil springs in place. Reinstall the OEM spring clip at the bottom of the new left front coil spring using the OEM hardware. (See Photo # 5)

8. Install the new Skyjacker front shocks using the supplied & OEM hardware. (See Photo # 6)

9. Reconnect the OEM drag link to the OEM pitman arm using the OEM hardware.

10. Install the new Skyjacker front track bar bracket using the supplied & OEM hardware. Insert the OEM bolt & keeper nut through the OEM mounting hole. Drill a 3/8" hole & install the supplied 3/8" x 1" bolt, washer, & nut. Reconnect the OEM track bar to the new front track bar bracket using the supplied 10mm x 70mm bolt, washers, & nut. **Note:** It may be necessary to rotate the steering wheel left or right to align the OEM track bar with the new front track bar bracket mounting hole. (See Photo # 7)

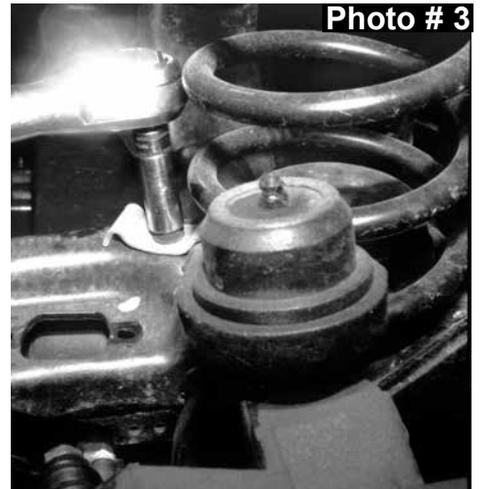


Photo # 3



Photo # 4



Photo # 6

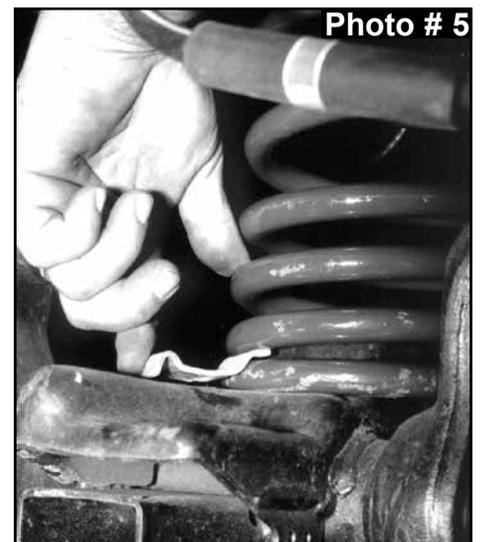


Photo # 5

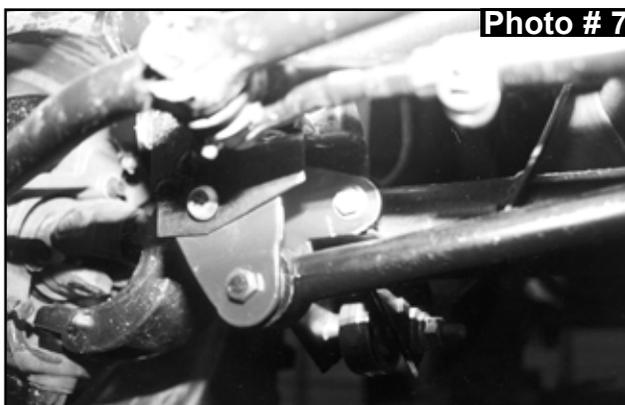


Photo # 7

11. Reconnect the OEM sway bar end links to the axle brackets.
12. Remove the OEM front lower control arms (one side at a time) & install the new Skyjacker lower control arms (Part # TJLL24-L / one side at a time). (See Photo # 8) **Note:** On Grand Cherokee models, mark the position of the OEM eccentric cams before removing & set the OEM eccentric cams back to the OEM position once installed. (See Photo # 9)



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

XJ Cherokee - Rear Installation:

14. Secure & properly block the front tires / wheels of the vehicle on a level concrete or asphalt surface.
15. Raise the rear of the vehicle & support the vehicle using jack stands.
16. Remove the rear tires / wheels & OEM rear shocks.

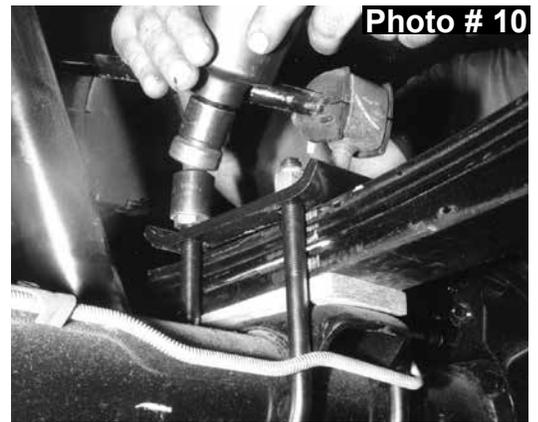


17. Support the rear axle & remove the OEM u-bolts. While checking for appropriate slack in ABS lines, brake lines, differential breather hose, & etc., lower the rear axle.
18. **Add-A-Leaf Installation:** To perform the installation of add-a-leaves properly, you must use two large c-clamps to contain the elastic potential energy in a leaf spring when the center tie bolt is removed. Attach & tighten a c-clamp on the leaf spring on both sides of the center tie bolt to hold the leaf spring assembly securely together. Using locking pliers to hold the head of the center bolt, loosen & remove. With care, slowly loosen & remove the c-clamps & leaf spring bottom overload leaf, if equipped.
19. Place the new Skyjacker add-a-leaf into the OEM leaf spring so the leaves remain progressive longest to shortest while matching the long end & short end of the add-a-leaf to the leaf spring (New add-a-leaf will install under the top main leaf). Insert the new Skyjacker tie bolt through the OEM bottom overload leaf (if equipped) & through the OEM leaf spring pack. Only finger tighten the tie bolt nut.
20. **DO NOT USE THE CENTER TIE BOLT TO DRAW THE SPRING LEAVES TOGETHER.** Failure of any component can cause an explosive disassembly & possible injury! Place one c-clamp on each side of the center tie bolt & tighten evenly. Once the c-clamps have drawn the leaves securely together, hold the center tie bolt head with locking pliers & tighten the nut. Remove the c-clamps.
21. Install the OEM leaf springs on the vehicle, raise the rear axle aligning the spring pins with the axle housing, & reinstall the OEM u-bolts. (Proceed to Step # 32)

22. **Rear Leaf Spring Installation:**

Remove the leaf spring eye bolts & remove OEM leaf springs from the vehicle. Install the new Skyjacker leaf springs with thick end of the bottom degree shims pointing toward the rear bumper (Which is also the long end of the leaf spring toward the rear bumper). (See Photo # 10)

23. Raise the rear axle aligning the spring pins with the axle housing & install the new Skyjacker u-bolts using the supplied 1/2" nuts & washers. (Proceed to Step # 32)



ZJ Grand Cherokee - Rear Installation:

24. Secure & properly block the front tires / wheels of the vehicle on a level concrete or asphalt surface.

25. Raise the rear of the vehicle & support the vehicle using jack stands.

26. Remove the rear tires / wheels & OEM rear shocks.

27. Disconnect the OEM rear track bar & sway bar end links from the rear axle housing.

28. While checking for appropriate slack in ABS lines, brake lines, differential breather hose, & etc., lower the rear axle & remove the OEM rear coil springs.

29. Install the new Skyjacker coil springs. Raise the rear axle enough so load is applied to hold the new coil springs in place.

30. Remove the OEM rear lower control arms (one side at a time) & install the new Skyjacker lower control arms (Part # GLLR3-L / one side at a time).

31. Connect the OEM rear track bar & sway bar end links to the rear axle housing using the OEM hardware.

32. Install the new Skyjacker rear shocks using the supplied & OEM hardware.

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

Final Notes:

- Rotate the drive shafts & check for interference at the differential yoke & cardan joint. If necessary, lightly dress the casting(s) &/or u-joint tabs in order to eliminate binding.
- A transfer case lowering kit is available if a drive shaft vibration is present. Part # TCL30 ('84-'96) or Part # TCL31 ('97-'99).
- Check clearance between the inner side wall of the tires & control arms. It may be necessary to adjust the steering stops.

- 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 align the vehicle to the OEM specifications.
- After the first 100 miles, check all of the hardware for the proper torque & periodically thereafter.

ACCESSORIES:

- 3/4" Spring Isolator Pad Spacers, Pair # SIP275
- Transfer Case Lowering Kit # TCL30 or # TCL31
- Heavy Duty OEM Steering Stabilizer # 7009
- Front Double Disconnect Extended Sway Bar End Links # SBE320

| <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 FTLB | 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.