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**02-07 Jeep Liberty 2WD/4WD
2.5" Suspension lift
Installation Instructions
Part # LIB250K**

REQUIRED TOOL LIST:

- * Metric & Standard wrenches & sockets
- * Allen Wrenches
- * Assorted Drill Bits
- * Floor Jack
- * Jack Stands
- * Measuring Tape
- * Coil Spring Compressor
- * 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, call SKYJACKER® 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 & 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:

- This lift is determined from the amount of lift to the front of the vehicle, while only lifting the rear to a position level with the front.
- If larger tires (10% more than the stock 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 factory specifications.

Kit Box Breakdown:

LIB250:

ITEM#	DESCRIPTION	Qty
LIB25FS	LIBERTY FRONT COIL 2.5"	2
9050S	FRONT STRUT - LIBERTY	2
LSM279	LIBERTY ALUMINUM COIL MOUNT,LIB250	2
38FTN	3/8-24 FINE N/I LOCK NUT	2
BPS20-B	BUMP STOP SPACER BLACK, 2"	2
10MMX70MMB	10 X 70 METRIC BOLT/10.9	2
10MMN	10 MM N/I LOCKNUT	2
LBS3383	LIBERTY KJ BUMP STOP, FRONT	2

Front Installation:

1. Block the rear tires. Raise the front of the vehicle using a floor jack, support the frame rails using jack stands. Remove the tires and wheels.
2. Remove the brake caliper using a 21mm wrench. Once caliper is removed, remove rotor. (See Photo #1) Wire caliper out of the way until reinstallation. It will not be necessary to disconnect the brake line from the caliper.
3. Remove outer axle nut using 1 7/16" socket. (See Photo #2)
4. Remove ABS line from steering knuckle using a 5mm allen wrench. (See Arrow in Photo #3)
5. Disconnect the sway bar link from the Lower A-Arm using a 18mm wrench.
6. Remove the tie rod end nut from knuckle using 21mm socket. Remove the tie rod end from the knuckle by striking the knuckle to dislodge the tie rod end. Be careful not to damage the tie rod end. (See Photo #4)
7. Remove upper and lower A - Arm ball joints from knuckle using 21mm socket. Once again it may be necessary to strike the knuckle to allow the tie rod end to dislodge. Remove knuckle from vehicle. (See Photo #5) Be sure not to remove the C.V. shaft from the differential.
8. Disconnect the lower bolt on clevis bracket from the Lower A-Arm using a 21mm socket. (See Photo #6)
9. Remove the battery from the vehicle. Unbolt the battery tray and move aside. Remove the upper 4 retaining nuts from the upper strut bracket using an 18mm socket.



Photo #1



Photo #2

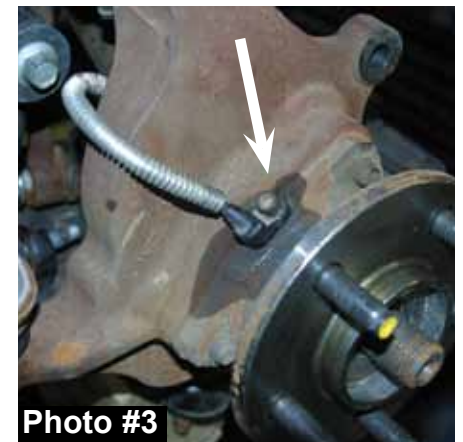


Photo #3



Photo #4



Photo #5



Photo #6

10. Remove the upper bolt on the clevis bracket using a 21mm socket. (See Photo #7) Remove the clevis bracket and remove the strut from vehicle. (See Photo #8)
11. Using a coil spring compressor, disassemble the factory strut assembly. The upper mounting bracket and retaining washer will be reused.
12. Slide the new coil spring over the new strut assembly. Be sure that the coil spring sits flush against the new aluminum seat on the shock. Attach the factory upper bracket to the new coil/shock assembly using a coil spring compressor.

Important Note! Using a wrench or ratchet, install the 3/8" nylon-insert lock nut on shock stem first and torque to 15-17 Ft. Lbs, then double nut by tightening the 3/8" standard hex nut against the nylon lock nut and torque to 14-16 Ft. Lbs. NOTE: Do NOT use an air impact to install nuts as this will strip the threads. Be sure coil is seated properly in upper and lower seat. (See Photo #9 and #10)

Upon Installation of the Coil Assembly, use caution, Be Sure not to damage the factory Inner C.V. Boot!

13. Install the new coil assembly. First attach the upper mount using the factory hardware removed earlier. Do not tighten these bolts at this time. Attach the lower clevis bracket onto the bottom of the new coil assembly using factory hardware. Torque to 65 Ft. Lbs. (See Arrow in Photo #11) Attach to the Lower A-Arm using factory hardware. It may be necessary to loosen the lower A-Arm to allow it to slide outward and bolt up to the clevis bracket. Be sure to mark Cam Washers so they can be set back in the same position. (See Photo #12) With all bolts started, tighten all bolts at this time. Once the upper bracket has been tightened, reattach battery tray and reinstall battery.
14. Using a floor jack raise the lower A-Arm so that the steering knuckle can be reinstalled. Slide C.V. shaft through factory steering knuckle. Attach steering knuckle to upper and lower A-Arm using factory hardware. Torque to factory Specs. Be sure to reinstall outer tie rod and ABS line to the steering knuckle.
15. Remove the factory rubber bump stop off of the frame. They can be easily removed with the use of a pair of pliers. Install the new polyurethane bump stop in the factory position by tapping in with a hammer. The bump stop may be easier to install if it is first sprayed with WD-40. (See Arrow in Photo #13)



Photo #7



Photo #8

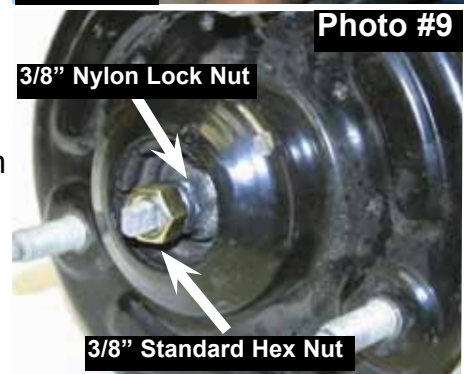


Photo #9



Photo #10



Photo #11



Photo #12



Photo #13

Rear Installation:

16. With vehicle on flat level ground, set the emergency brake and block the front tires. Raise the rear of the vehicle using floor jack. Support the frame rails using jack stands. Remove the rear tires and wheels. Remove the rear shocks using 15mm and 18mm wrench. (See Photo #14)
17. Lower the rear axle far enough to allow for removal of the rear coil spring. (See Photo #15)
18. Locate the bump stop contact pad on the rear axle. Locate center of the pad and make a mark. (See Photo #16)
19. Once mark is made, drill this point using a 13/32" drill bit. Be sure not to drill into the axle tube. (See Photo #17)
20. Install new coil spring first, once coil is installed, install the new bump stop extension using the 10mm x 70mm bolt and nut supplied. (See Photo #18)
21. With the coil spring and bump stop installed, raise the rear end back up, install new shocks. (See Photo #19). Reinstall tires/wheels and let the weight of the vehicle on to the ground.



Photo #14



Photo #15



Photo #16



Photo #17



Photo #18



Photo #19

FINAL NOTES:

- After installation is complete, double check that all nuts and bolts are tight.
- If new tires are installed that are more than 10% taller than original tires, the speedometer must be recalibrated. Contact an authorized Jeep dealer for details on recalibration.
- With the vehicle on the floor, cycle steering lock to lock and inspect steering, suspension and drive-line systems for proper operation, tightness and adequate clearance. Recheck brake hose/fittings for leaks.
- Have headlights readjusted to proper settings.
- Have a qualified alignment center realign front end. Be sure vehicle is at desired ride height prior to realignment.
- Retorque all bolts after the first 100 miles.

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 justificado, pero con la boca se confía 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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