Quadratec[®] 3" Add-A-Leaf Suspension Lift Kit

Installation Manual: for 1984-2001 Cherokee (XJ)



PARTS LIST:

Front Coil Springs - QTY 2 Add-A-Leafs - QTY 2 5/16" x 3 Tie Bolts - QTY 2 5/16" Tie Bolt Nuts - QTY 2 Front Shocks - QTY 2 Rear Shocks - QTY 2

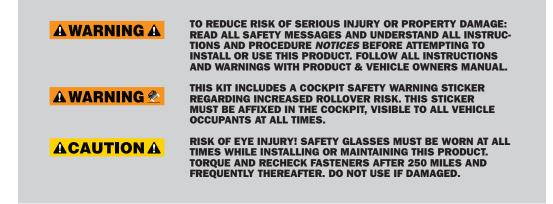
REQUIRED TOOLS:

Safety Glasses Torque Wrench T40 Torx Socket ¹⁄₂" Socket or Wrench 13mm Deep Well Socket 9/16" Socket & Open End Wrench



REQUIRED TOOLS: CONTINUED

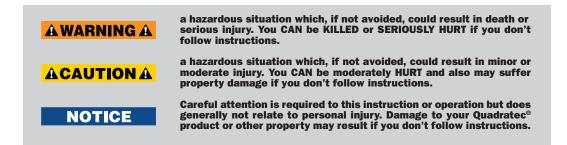
15mm Socket & Open End Wrench 18mm Socket 21mm Socket Locking Pliers 13/32" Drill Bit Drill Motor Hacksaw Side Cutters





A Few Words About Product Safety:

Your Ouadratec Suspension product is intended to enhance the utility and enjoyment of your off road capable vehicle. Before installation, please review the following safety information and installation recommendations. Throughout these instructions important safety information is generally preceded by one of three signal words indicating the relative risk of injury, property damage or adverse consequence. **The signal words mean:**



Before You Begin Installation:

Congratulations on your purchase of the Quadratec 3" Add-A-Leaf Lift Kit for 1984-2001 XJ Cherokee Vehicles. When unpacking, check to make sure all parts are included and not damaged due to shipping. If any part is missing or broken, please call Customer Service at 800-745-6037 as soon as possible.

IMPORTANT PRODUCT SAFETY TIPS





IMPORTANT PRODUCT SAFETY TIPS

ACAUTION A

QUADRATEC® RECOMMENDS PROFESSIONAL INSTALLATION OF THIS PRODUCT.



PARTS LIST:

Front Coil Springs - QTY 2 Add-A-Leafs - QTY 2 5/16" x 3 Tie Bolts - QTY 2 5/16" Tie Bolt Nuts - QTY 2 Front Shocks - QTY 2 Rear Shocks - QTY 2

REQUIRED TOOLS:

Safety Glasses Torque Wrench T40 Torx Socket ½" Socket or Wrench 13mm Deep Well Socket 9/16" Socket & Open End Wrench

REQUIRED TOOLS: CONTINUED

15mm Socket & Open End Wrench 18mm Socket 21mm Socket Locking Pliers 13/32" Drill Bit Drill Motor Hacksaw Side Cutters

ACAUTION A

PARK THE VEHICLE ON FLAT, LEVEL GROUND AND SET EMERGENCY BRAKE. ALWAYS SUPPORT FRAME RAILS USING JACK STANDS.

Caution: In preparation to install, park the vehicle on flat, level ground and set emergency brake. Put on safety glasses. Raise the front of the vehicle and support frame rails using jack stands. Do not lower the axle at this time. Remove front tires/wheels.

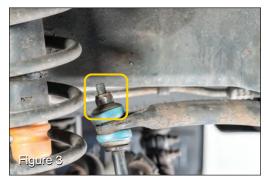




Put on safety glasses. First, disconnect the front track bar using the 1/2" drive



ratchet with a 15mm socket as shown above. (see FIG 1 & 2)



Proceed to disconnect the front sway bar end links at the top using the 1/2"



drive ratchet with a 15mm socket as shown above. (see FIG 3 & 4)



Disconnect the bottom end of the front shocks using a 13mm deep well socket and open end wrench. (see FIG 5 & 6)







Locate upper shock mount stem and remove using 15mm socket or wrench.



(see FIG 7 & 8) Discard front shocks.



Disconnect brake line brackets from frame using a T40 Torx socket.



(see FIG 9 & 10)



Locate lower control arms and remove frame side bolts using a 21mm socket and open end wrench. (see FIG 11 & 12)



This will allow you to easily remove the coil springs safely.



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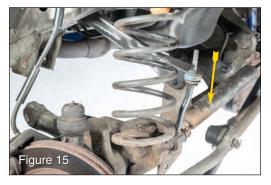


Locate and remove the coil spring retainers using a ratchet and a 13mm



socket as shown above. (see FIG 13 & 14)

ACAUTION A THE COIL SPRINGS MAY BE UNDER TENSION. REMOVE CAREFULLY.



Gently lower axle housing towards the ground and remove original coil springs. (see FIG 15)



Install new coil springs and index on bottom mount as shown. (see FIG 16)





Locate & assemble front shocks as shown (see FIG 17, 18 & 19).

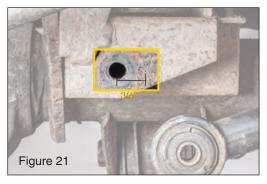




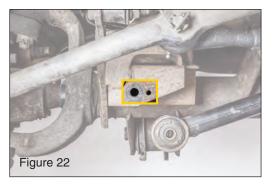
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Install front shocks into original opening at top mount and tighten securely a 9/16" socket or wrench. (see FIG 20)



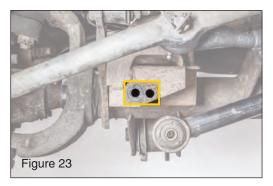
Raise the axle using a floor jack enough so that control arms can be re-attached to the frame loosely at this time.



Next raise the axle so the full weight of vehicle is on the newly installed coil springs. Re-attach brake line bracket to frame. Re-attach front sway bar end links to sway bar and tighten securely.

Using factory hardware, re-attach the bottom end of the shock and torque to 21 ft lbs. Install wheels/tires and torque to 105 ft lbs. Finally, replace front wheels and tire, remove jack stands and lower vehicle onto the ground.

Finally, at the front end, locate front axle side track bar mount and measure to the drivers side ¾" from center of factory hole and make a mark using center



punch (see FIG 21). Drill pilot hole. (see FIG 22) Drill out to 13/32". (see FIG 23)

Re-attach track bar into the new hole using factory hardware and torque to 74 ft lbs. Torque the Control Arm bolts to 133ft lbs.

Prepare to work on vehicle rear:

At this point, you may now prepare to work at the back end. Block the front wheels, raise the rear of the vehicle & support frame rails securely using jack stands. Remove the rear tires / wheels.





Remove the original shocks at the bottom using a 18mm socket, (see FIG 24)



Support the rear axle and remove the leaf spring u-bolts using a 18mm socket. (see FIG 26) Be sure to check for appropriate slack and avoid damage to ABS lines, brake lines, differential breather hose & etc.



and the top using a 13mm socket. (see FIG 24) Discard rear shocks.



When safe, lower the rear axle to gain access to the leaf springs.

Remove the main eye bolts using a ratchet and 21mm socket. (see FIG 27)



Remove the shackle bolts using a 21mm socket. (see FIG 28) Now carefully remove leaf spring from the vehicle.

Now, we move on to prepare to add a leaf to the existing rear leaf springs.





To perform the installation of the new rear add a leafs properly, you must use two large C-clamps to contain the elastic potential energy of the OEM rear leaf springs when the OEM tie bolts are



being removed. Attach & tighten a Cclamp on each end of the OEM rear leaf spring to hold the leaf spring assembly securely together. (see FIG 29)



Locate leaf spring tie clamps. (see FIG 30) Remove and discard using side cutters or pliers of your choosing. (see FIG 31)



Using a wrench & locking pliers to hold the head of the OEM tie bolt, loosen & remove. (see FIG 32) With care, slowly loosen & remove the C-clamps.



Install the new rear add a leafs into the OEM rear leaf springs so the leaves remain progressive longest to shortest while matching the long end & short end of the new rear add-a-leafs to the OEM rear leaf springs. (see FIG 33)

Install the new tie bolt through each OEM leaf spring. Do not tighten at this time.



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ACAUTION ADO NOT USE NEW LEAF SPRING TIE BOLTS TO DRAW THE LEAF SPRINGS TOGETHER. FAILURE OF TIE BOLT CAN CAUSE EXPLOSIVE DISASSEMBLY.



Do not use the new tie bolts to draw the OEM leaf spring leaves together. Failure of any component can cause an explosive disassembly & possible injury!

Place one C-clamp on each side of the new tie bolts & tighten evenly. Once the

C-clamps have drawn the leaves securely together, hold the tie bolt head with locking pliers & tighten the tie bolt nut securely using a ½" wrench or socket. Remove the C-clamps & cut off the excess length of the new tie bolts using a hacksaw. (see FIG 33)



Re-install the modified leaf springs to vehicle using original hardware loosely at this time. (FIG 34 & 35)

Raise the rear axle & install the OEM u-bolts using the OEM hardware and torque to 52ft lbs. (FIG 36)



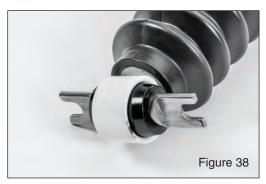








Install Cockpit Warning label sticker in a location visible to all drivers and occupants.



Locate and assemble rear shocks as shown (see FIG 37, 38 & 39). Install into original opening at top mount and torque to 20ft lbs. Slide shocks onto lower axle mounts and tighten securely using the original hardware.

Install the rear wheels and tires and lower vehicle to the ground. Tighten all shackle bolts to 109ft lbs.

Re-torque all the bolts after the first 100 miles of driving.





Quadratec® Exclusive Limited Lifetime Warranty

Your Quadratec[®] branded accessories are covered by the following **Limited Warranty** provided exclusively by Quadratec, Inc., 1028 Saunders Lane, West Chester PA 19380.

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What is Covered: Subject to the terms, exclusions and limitations herein and with respect only to Quadratec branded accessories first sold in the United States, Quadratec warrants to the initial retail purchaser only that your Quadratec accessory shall be free of defects in material and workmanship: for as long as the original purchaser owns the vehicle. The Warranty on bushings and other serviceable wear items (including shock absorbers) is limited to 1 year from date of retail purchase. This Limited Warranty is not assignable and shall terminate upon sale of the vehicle upon which the Quadratec accessory is installed or other transfer third persons.

All other warranties are hereby disclaimed, except to the extent prohibited by applicable law in which case any implied warranty of merchantability or fitness for a particular purpose on this limited to **for as long as the original purchaser owns the vehicle**. Quadratec reserves the rights to: (a.) require invoice or other proof your accessory is within the terms of this Limited Warranty as a condition of warranty service and, (b.) make future revisions to this product and Limited Warranty without prior notice or obligation to upgrade your product.

What is Not Covered:

Your Quadratec Limited Warranty does not cover products or parts Quadratec determines to have been damaged by or subjected to: (a.) installation damage, alteration, modification, combination with other parts, failure to maintain or improper repair or service, (b.) defects or use which pre-dates installation of Quadratec[®] accessory or suspension kit by authorized dealer or shop, (c.) normal wear & tear or gradual reduction in expected performance of vehicle or components, (d.) emissions control or electronic stability systems or components, (e.) cosmetic damage or damage from moisture or water immersion, (f.) fleet, rental or commercial use, (g.) Acts of God, accidents, misuse, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (h.) theft, vandalism or other intentional damage. (i.) use in competition or racing.

Other Exclusions: Surface finish of exposed suspension components is not covered under this Limited Warranty.

Remedy Limited to Repair/Replacement:

The exclusive remedy provided hereunder shall, upon Quadratec inspection and at Quadratec's option, be either repair or replacement of product or parts (new or refurbished) covered under this Limited Warranty. Customers requesting warranty consideration should first contact Quadratec to obtain a RGA number (610-701-3336). All labor, removal, shipping and installation costs are customer's responsibility.

Other Limitations - Exclusion of Damages - Your Rights Under State Law:

In consideration of the purchase price paid, neither Quadratec nor any independent Quadratec distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy hereunder for covered parts is repair/replacement as described above.

This Limited Warranty gives you specific rights. You may also have other rights that vary from state to state. For example, some states do not allow limitations of how long an implied warranty lasts and /or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

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