

Quadratec® 2" Coil Spacer Lift Kit

Installation Manual: for 2007-Current Wrangler (JK)

#16400.OX42



PARTS LIST:

JK 2" Front Coil Spacers - QTY 2
JK 2" Rear Coil Spacers - QTY 2
2" Front Bump Stop Spacers - QTY 2
10mm Button Head Bolts - QTY 2
3/8" SAE Washers - QTY 2
10mm Locknuts - QTY 2
Front Shocks - QTY 2
Rear Shocks - QTY 2



⚠ WARNING ⚠

TO REDUCE RISK OF SERIOUS INJURY OR PROPERTY DAMAGE: READ ALL SAFETY MESSAGES AND UNDERSTAND ALL INSTRUCTIONS AND PROCEDURE *NOTICES* BEFORE ATTEMPTING TO INSTALL OR USE THIS PRODUCT. FOLLOW ALL INSTRUCTIONS AND WARNINGS WITH PRODUCT & VEHICLE OWNERS MANUAL.

⚠ WARNING ⚠

THIS KIT INCLUDES A COCKPIT SAFETY WARNING STICKER REGARDING INCREASED ROLLOVER RISK. THIS STICKER MUST BE AFFIXED IN THE COCKPIT, VISIBLE TO ALL VEHICLE OCCUPANTS AT ALL TIMES.

⚠ CAUTION ⚠

RISK OF EYE INJURY! SAFETY GLASSES MUST BE WORN AT ALL TIMES WHILE INSTALLING OR MAINTAINING THIS PRODUCT. TORQUE AND RECHECK FASTENERS AFTER 250 MILES AND FREQUENTLY THEREAFTER. DO NOT USE IF DAMAGED.



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A Few Words About Product Safety:

Your Quadratec 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:**

WARNING

a hazardous situation which, if not avoided, could result in death or serious injury. You **CAN** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

CAUTION

a hazardous situation which, if not avoided, could result in minor or moderate injury. You **CAN** be moderately **HURT** and also may suffer property damage if you don't follow instructions.

NOTICE

Careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your Quadratec® product or other property may result if you don't follow instructions.

Before You Begin Installation:

Congratulations on your purchase of the Quadratec 2" Coil Spacer Lift Kit for 2007-Current JK Wrangler 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

WARNING

INSTALLATION OF THIS PRODUCT ON YOUR JEEP® WILL MODIFY AND ENHANCE ITS SUSPENSION AND OFF-ROAD PERFORMANCE. IT MAY HANDLE DIFFERENTLY THAN AS FACTORY-EQUIPPED INCLUDING; INCREASED RIDE-HEIGHT; REDUCED LATERAL STABILITY; AND HIGHER RISK OF ROLL-OVER OR OTHER ACCIDENT. ALSO, OWNER'S CHOICE OF LARGER TIRE/WHEEL COMBINATIONS MAY REQUIRE ADDITIONAL PEDAL PRESSURE OR INCREASED DISTANCE TO STOP; CAUSE SPEEDOMETER TO READ SLOW AND MAY REDUCE VISIBILITY AROUND THE VEHICLE. CHOICE OF TIRE/WHEEL COMBINATIONS OTHER THAN AS TESTED OR RECOMMENDED MAY COMPROMISE FMVSS 126 COMPATIBILITY.

WARNING

FAMILIARIZE YOURSELF WITH VEHICLE HANDLING AND REVIEW ALL VEHICLE MANUFACTURERS AND QUADRATEC® WARNINGS, INSTRUCTIONS AND LIMITED WARRANTIES BEFORE DRIVING A MODIFIED SUSPENSION JEEP®. FOLLOW ALL RECOMMENDED MAINTENANCE PROCEDURES AND ROUTINELY INSPECT YOUR VEHICLE COMPONENTS FOR UNUSUAL WEAR OR OFF-ROAD DAMAGE.

WARNING

DO NOT DRIVE UNDER ANY SPEED OR MANEUVERING CONDITIONS WHICH MAY CAUSE THE VEHICLE TO TRIP, ROLL, LOSE TRACTION OR COMPROMISE YOUR ABILITY TO SAFELY BRAKE IN AN EMERGENCY. QUADRATEC® DOES NOT RECOMMEND COMBINED USE OF SUSPENSION KITS, BODY LIFTS, OTHER LIFTING DEVICES OR COMPONENTS ALTERING THE INTENDED RIDE-HEIGHT OR FUNCTION OF ITS PRODUCTS. MANY STATES HAVE LAWS RESTRICTING THE EXTENT OF VEHICLE MODIFICATIONS. OWNER/DRIVER IS RESPONSIBLE FOR MODIFICATIONS CONSISTENT WITH STATE LAWS AND GOOD SENSE.



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IMPORTANT PRODUCT SAFETY TIPS



QUADRATEC® RECOMMENDS PROFESSIONAL INSTALLATION OF THIS PRODUCT.

PARTS LIST:

JK 2" Front Coil Spacers - QTY 2
JK 2" Rear Coil Spacers - QTY 2
2" Front Bump Stop Spacers - QTY 2
10mm Button Head Bolts - QTY 2
3/8" SAE Washers - QTY 2
10mm Locknuts - QTY 2
Front Shocks - QTY 2
Rear Shocks - QTY 2

REQUIRED TOOLS:

Safety Glasses

REQUIRED TOOLS:

25/64" Drill Bit & Hand Drill
7/32" Hex Key Wrench
10, 16, 18, 21 mm Sockets
1/2" Socket
1/2" Open End Wrench
9/16" Open End Wrench
5/8" Open End Wrench
18mm Open End Wrench
Locking Pliers (I.E. Vise Grips)
Diagonal Wire Cutters



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

2" Coil Spacer Lift Kit Installation: Front

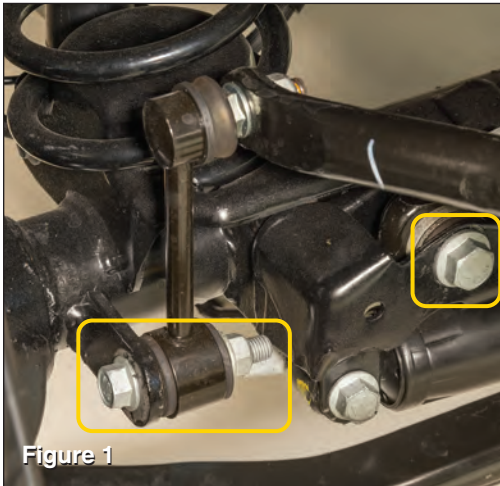


Figure 1

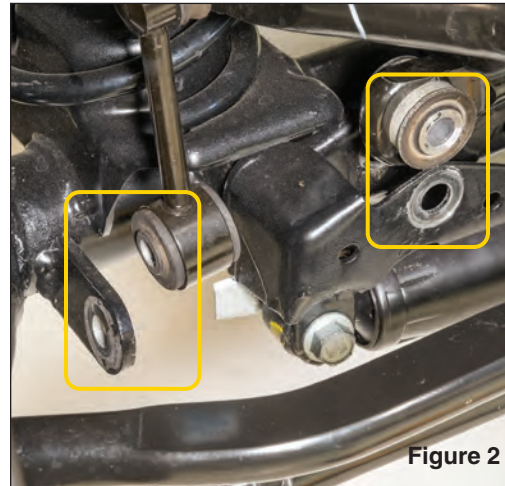


Figure 2

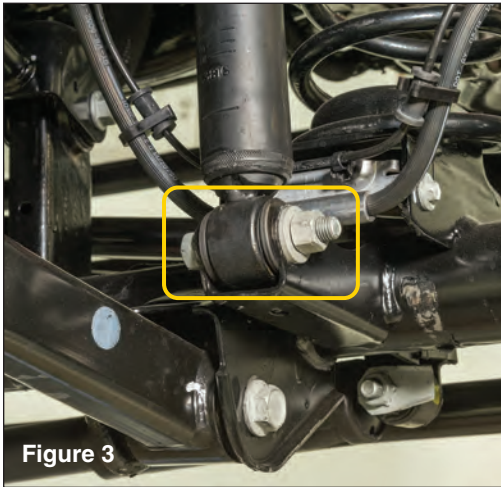
Caution: Park the vehicle on flat, level ground and set emergency brake. Put on safety glasses. Raise the front of the vehicle and support frame rails using jack stands. Do not lower the axle at this time. Remove front tires/wheels.

Disconnect the front sway bar end links using a 18mm socket and open end wrench. Disconnect front track bar using a 21mm socket. (see FIG 1 & 2)

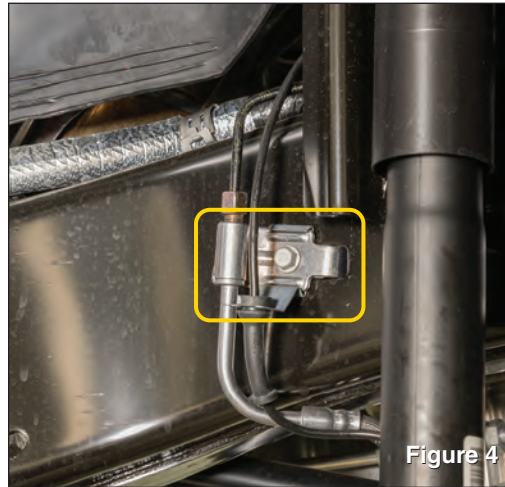


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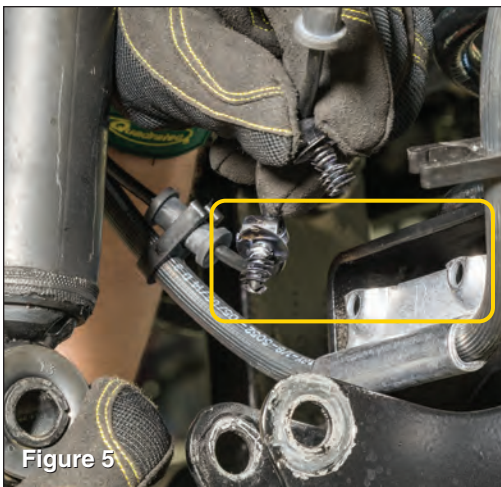
2" Coil Spacer Lift Kit Installation: Front



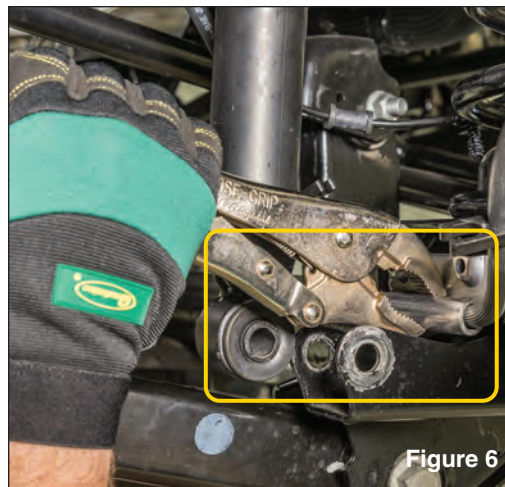
Disconnect the bottom end of the front shocks using an 18mm socket and open end wrench. (see FIG 3)



Disconnect brake line bracket from frame using a 10mm socket. (see FIG 4)



On 2011 and newer models disconnect the ABS lines from brake line bracket (see FIG 5)

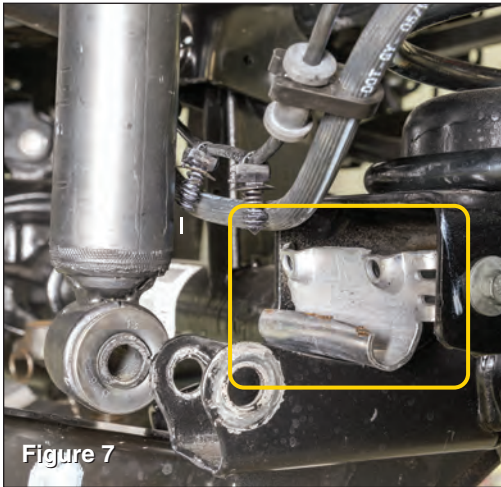


Using locking pliers, separate the bracket from brake line (FIGS 6 & 7).



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2" Coil Spacer Lift Kit Installation: Front



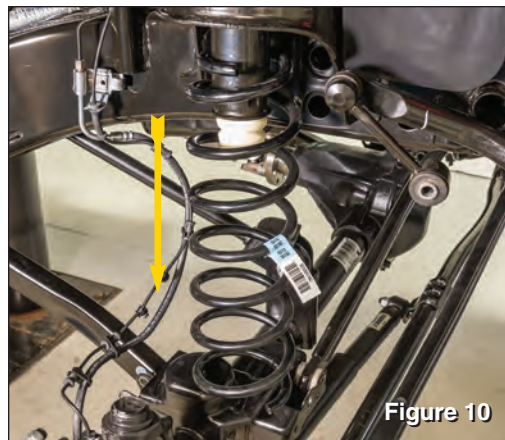
Remove bracket using a 10mm socket and discard (see FIG 7).



Remove original equipment front shock absorbers. Locate the shocks fasteners as shown.



Disconnect the top end of the front shocks using an 5/8" open end wrench. (see FIG 9)



Gently lower axle housing towards the ground and remove original coil springs. (see FIG 10)

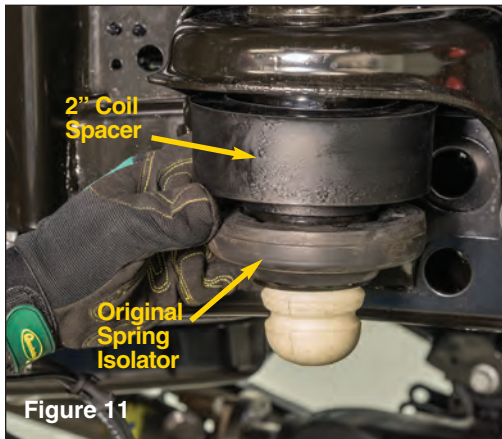
⚠ CAUTION ⚠

THE COIL SPRING MAY BE UNDER TENSION. REMOVE CAREFULLY.

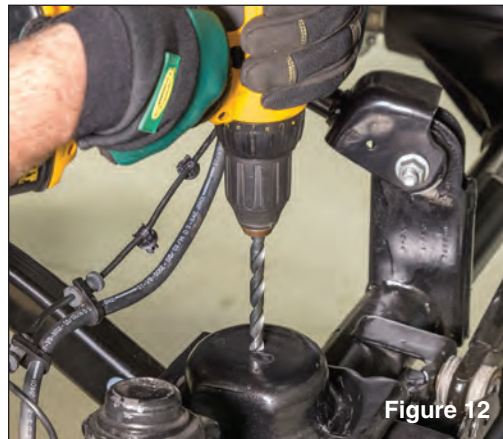


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2" Coil Spacer Lift Kit Installation: Front



Remove factory coil spring isolator and place provided 2" coil spacer on top of Original Equipment spring isolator, exactly as shown (see FIG 11). Locate the new front bump stop in the kit.



Using the bump stop as a template, mark the center of the bump stop pad located on the front axle. Consider drilling pilot holes. Carefully drill the bump stop pad using a $\frac{25}{64}$ " drill bit. (see FIG 12)



With axle in drop position, place bump stop in coil spring, and install coil springs. Attach bump stop to axle using the 10mm button head bolts and one washer under the 10mm nut, as shown in FIG 13. Repeat this on other side of the vehicle.

Coil Spring is ghosted in this image for illustration purposes.



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2" Coil Spacer Lift Kit Installation: Front

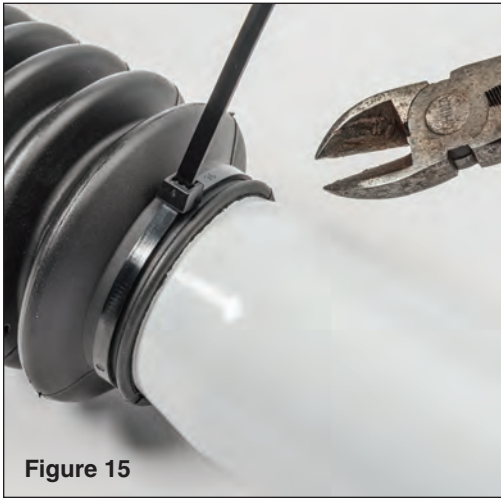


Figure 15

Assemble your new front shocks as shown in FIG 15, 16 & 17. Install the shock boots and secure with zip-ties. Clip off zip-tie tail.

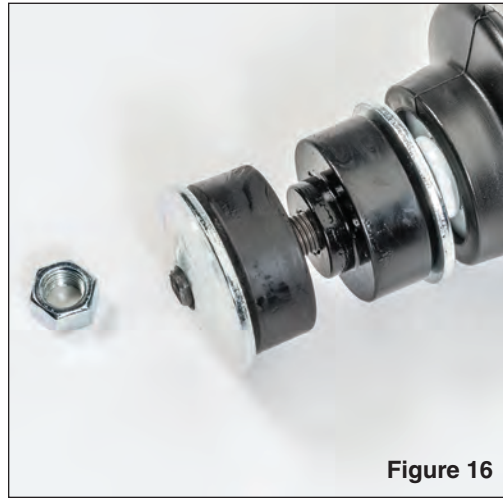


Figure 16

Assemble the shock top bushings exactly as shown (see FIG 16).



Figure 17

Press in the bottom end bushings as shown (see FIG 17).

Install the top end of the new front shocks using a 9/16" open end wrench.

Finally, raise the axle using a floor jack so the full weight of vehicle is on the coil springs with newly installed coil spacers.

Re-attach sway bar end links to the axle housing using factory hardware and torque to 60 ft lbs. Using factory hardware, re-attach bottom end of shock and torque to 56 ft lbs. Install wheels/tires and torque to 105 ft lbs.

Finally, remove jack stands and lower vehicle onto the ground. Re-attach track bar using factory hardware and torque to 111 ft lbs.

This completes the installation work on the front end of the vehicle.

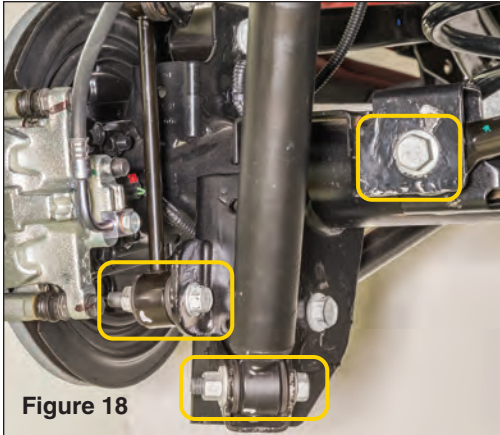


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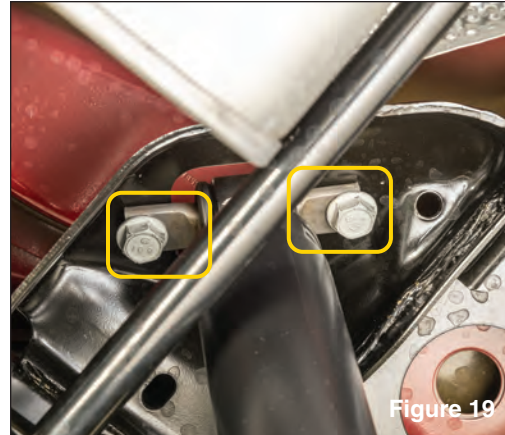
2" Coil Spacer Lift Kit Installation: Rear



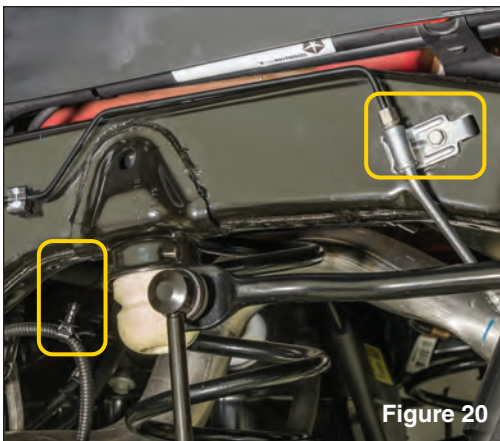
ALWAYS SUPPORT FRAME RAILS USING JACK STANDS.



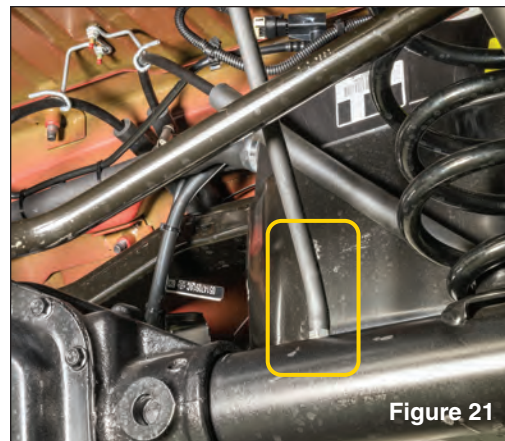
Moving to the rear of the vehicle: Raise rear end and properly support using jack stands. Disconnect the rear track bar bracket from axle using 21mm socket, remove rear lower shock bolts and sway bar end links using a 18mm socket & open end wrench (see FIG 18).



Now disconnect the top end of the rear shocks using a 16mm socket as shown above (see FIG 19).



Disconnect ABS line from frame and disconnect brake line from frame using a 10mm socket. (see FIG 20)

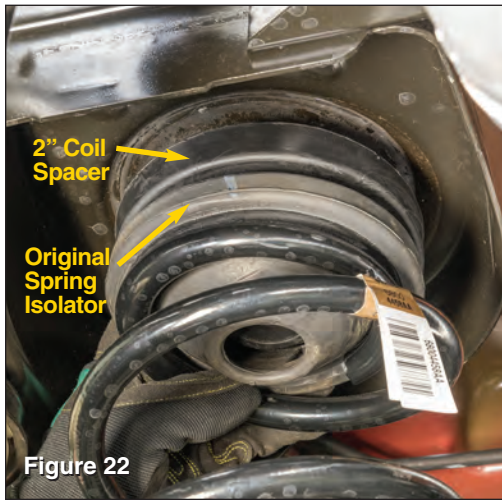


Disconnect axle housing vent line. (see FIG 21)



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2" Coil Spacer Lift Kit Installation: Rear



Lower axle down and remove factory rear coil springs. Install new 2" coil spacer on top of the original equipment spring isolator (see FIG 22).

Repeat on other side of vehicle.

See next page spread for rear shock assembly and final installation steps.

⚠ CAUTION ⚠

**INSTALL 2" COIL SPACERS
AND ORIGINAL EQUIPMENT
SPRING ISOLATORS
EXACTLY AS SHOWN.**



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2" Coil Spacer Lift Kit Installation: Rear



Figure 23

Assemble your new rear shocks as shown in FIG 23, 24 & 25. Install the shock boots and secure with zip-ties. Clip off zip-tie tail. (see FIG 23).



Figure 24

Assemble the shock bottom bushings exactly as shown (see FIG 24).

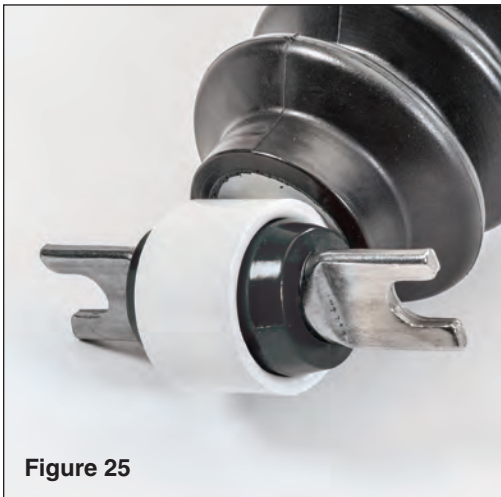


Figure 25

Push the mounting plate with bushing through the top eyelet of the rear shocks (see FIG 25).

Install the top end of the new rear shocks using a 16mm socket.

Finally, raise the axle using a floor jack so the full weight of vehicle is on the coil springs with newly installed coil spacers.

Re-attach brake line bracket to frame. Re-attach rear sway bar end links to the axle housing using factory hardware and torque to 60 ft lbs. Using factory hardware, re-attach bottom end of shocks and torque to 56 ft lbs. Install wheels/tires and torque to 105 ft lbs.

Finally, remove jack stands and lower vehicle onto the ground. Re-attach track bar using factory hardware and torque to 111 ft lbs. This completes the installation work on the rear end of the vehicle.



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2" Coil Spacer Lift Kit Installation: Rear

⚠ WARNING

COMPLETE INSTALLATION BY CAREFULLY INSPECTING AND CONFIRMING CLEARANCE OF CHOSEN TIRE/WHEELS THROUGH FULL STEERING SWEEP AND SUSPENSION TRAVEL. ASSURE BRAKE LINES CLEAR AND NOT RUBBING AGAINST ANY SURFACE, ABS FITTING AND OTHER FASTENERS SECURED. CHECK SPEEDOMETER READINGS AND IF NECESSARY RECALIBRATE. HAVE ALIGNMENT SETTINGS CHECKED AND IF INDICATED, RE-ALIGN AT SHOP WITH EQUIPMENT SUITED FOR MODIFIED SUSPENSION JEEP VEHICLES.

⚠ WARNING

INSTALL COCKPIT WARNING STICKER ON VISOR OR OTHER LOCATION VISIBLE TO ALL DRIVERS.

⚠ WARNING

FAILURE TO DRIVE THIS VEHICLE SAFELY MAY RESULT IN SERIOUS INJURY OR DAMAGE. This Jeep® has been modified to enhance its suspension and offroad performance. It may handle differently than as factory-equipped including: increased ride-height; reduced lateral stability; and higher risk of roll-over or other accident. Also, owner's choice of larger tire/wheel combinations may require additional pedal pressure or increased distance to stop; cause speedometer to read slow and may reduce visibility around the vehicle. Choice of tire/wheel combinations other than as tested or recommended may compromise FMVSS 126 compatibility.

Do not drive under any speed or maneuvering conditions which may cause the vehicle to trip, roll, lose traction or compromise your ability to safely brake in an emergency. Quadratec® does not recommend combined use of suspension kits, body lifts, other lifting devices or components altering the intended ride-height or function of its products. Many states have laws restricting the extent of vehicle modifications. Owner/Driver is responsible for modifications consistent with state laws and good sense.

Familiarize yourself with vehicle handling and review all vehicle manufacturers and Quadratec® warnings, instructions and limited warranties before driving this modified suspension Jeep®. Follow recommended maintenance procedures and routinely inspect your vehicle components for unusual wear or off-road damage.

PLEASE DRIVE SAFELY AND ALWAYS FASTEN SEAT BELTS.

Install cockpit warning sticker on visor or other location visible to all drivers and occupants.



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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.

This Limited Warranty is the only warranty made in connection with your purchase. Quadratec neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or Limited Warranty. This Limited Warranty does not apply and is not cumulative to any accessory or part distributed by Quadratec for which the Manufacturer provides a separate written warranty.

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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2.27.15 LTR Version Part #12999.9031



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