

Quadratec® 2" Coil Spacer Lift Kit

Installation Manual: for 2007-Current Wrangler (JK)

#16400.0009



PARTS LIST:

- JK 2" Front Coil Spacers - QTY 2
- JK 1 3/4" Rear Coil Spacers - QTY 2
- Front Sway Bar Link - QTY 2
- Front Bump Stop - QTY 2
- Rear Bump Stop - QTY 2
- Front Brake Line Bracket - QTY 2
- Front Shock Bracket - QTY 2
- Rear Shock Spacer - QTY 2
- Full Kit Component & Hardware Listed Inside Booklet
- Cockpit Warning Sticker - QTY 1



⚠ 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.



2" COIL SPACER KIT PARTS LIST:

2" Front Coil Spacer - QTY 2
1 3/4" Rear Coil Spacer - QTY 2

Front Sway Bar Link - QTY 2

1/2" - 13 x 3" Hex Head Bolt - QTY 2
1/2" - 13 Lock Nut - QTY 2
7/16" - USS Flat Washer - QTY 4
Hourglass Bushing - QTY 4
Sleeve - QTY 4

2" Front Bump Stop - QTY 2

3/8" - 16 x 2.5" Hex Head Bolt - QTY 2
3/8" SAE Flat Washer - QTY 2
3/8" Flange Nut - QTY 2

Front Brake Line Bracket - QTY 2

M6 x 1mm x 16mm Hex Head Bolt - QTY 2
M6 Flat Washer - QTY 2
M6 Lock Nut - QTY 2

REQUIRED TOOLS:

Safety Glasses
5.5mm, 6mm Hex Key Wrench
10, 16, 17, 18mm Sockets
5/16", 3/4" Sockets
1/2", 5/16", 5/8", 3/4" Open End Wrench

Front Shock Bracket - QTY 2

1/2" - 13 x 3" Hex Head Bolt - QTY 2
7/16" - USS Flat Washer - QTY 4
1/2" - 13 Lock Nut - QTY 2
1.37" Spacer - QTY 2
3/8" 16 x 1" Hex Head Bolt - QTY 2
3/8" SAE Flat Washer - QTY 2
3/8" Flange Nut - QTY 2
Cable Ties - QTY 4

Rear Bump Stop 1.5" Tall - QTY 2

3/8" - 16 x 1.5" Hex Flat Head Screw - QTY 4
3/8" Flange Nut - QTY 4

Rear Shock Spacer - QTY 4

M10 x 1.5 x 50 Hex Head Bolt - QTY 4
3/8" SAE Flat Washer - QTY 4

Cockpit Warning Sticker

10, 18, 21mm Open End Wrench
3/8" Drill Bit & Hand Drill
Locking Pliers (I.E. Vise Grips)
Diagonal Wire Cutters
Torque Wrench



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

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2" Coil Spacer Lift Kit Installation: Front

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. Start at the front, loosen but do not remove all 8 control arm bolts using 21mm tools.

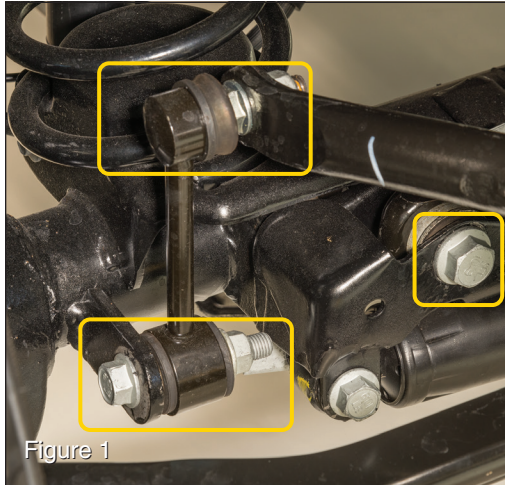


Figure 1

Remove the front sway bar end links from the axle mount using a 18mm socket and open end wrench, save hardware, then from the sway bar

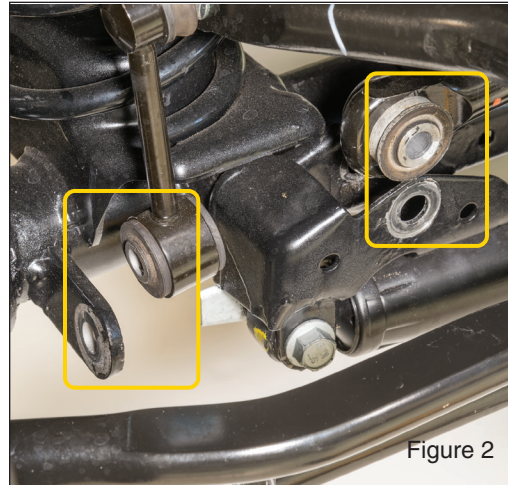


Figure 2

using a 19mm open end wrench and 6mm allen key. Disconnect front track bar using a 21mm socket, loosen at the frame end. (see FIG 1 & 2)

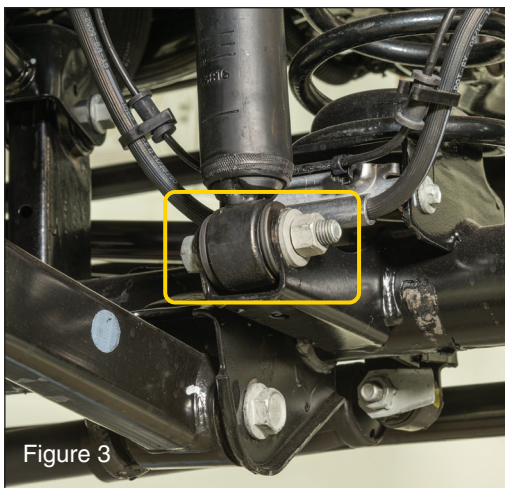


Figure 3

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

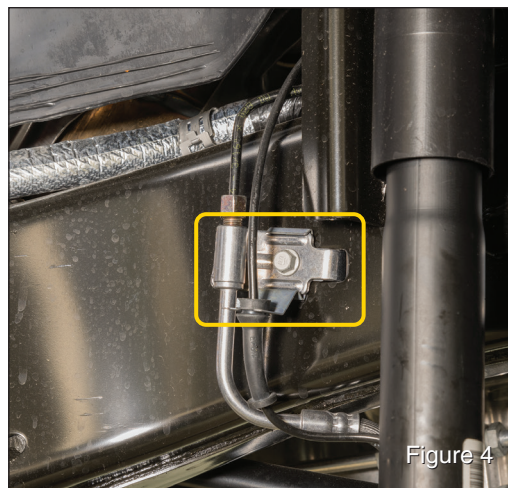


Figure 4

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

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2" Coil Spacer Lift Kit Installation: Front

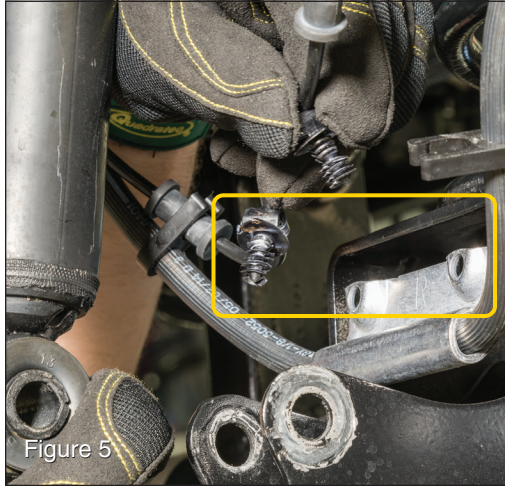


Figure 5

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



Figure 6

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

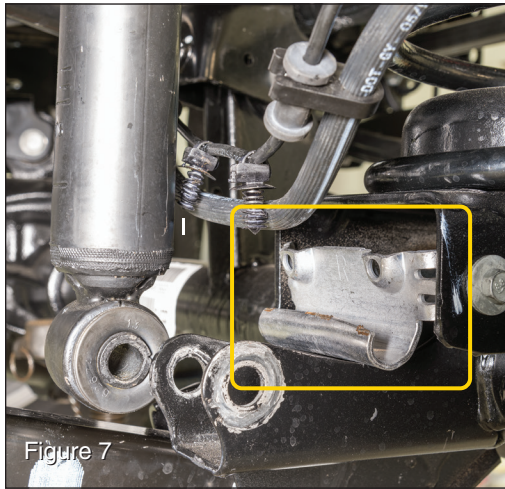


Figure 7

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

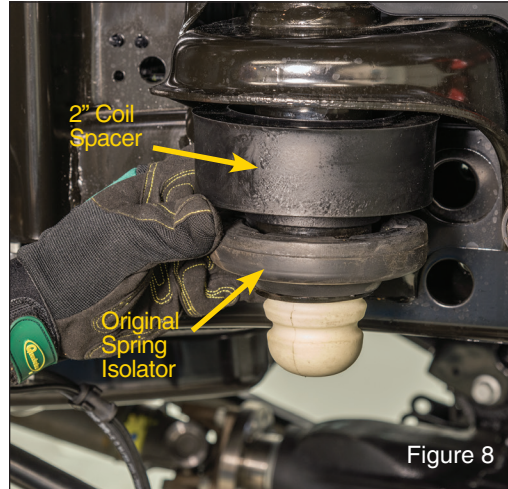


Figure 8

Remove factory coil spring isolator and place provided 2" coil spacer on top of Original Equipment spring isolator, exactly as shown (FIG 8). Locate the new front bump stop in the kit.

CAUTION

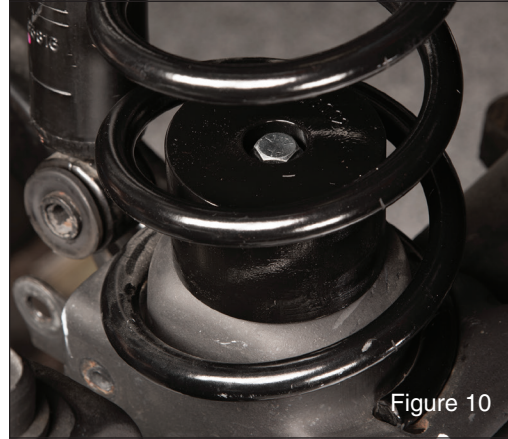
THE COIL SPRING MAY BE UNDER TENSION. REMOVE CAREFULLY.

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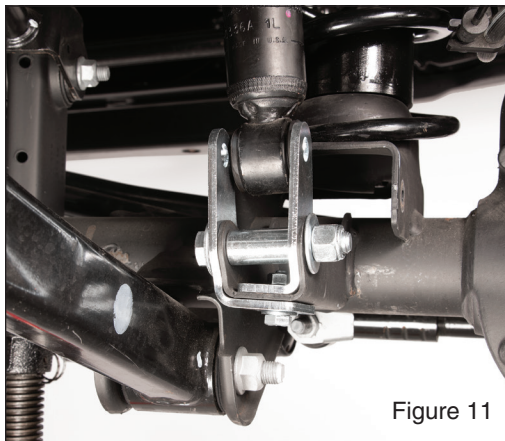
2" Coil Spacer Lift Kit Installation: Front



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 $\frac{3}{8}$ " drill bit. (FIG 9)



With axle in drop position, place bump stop in coil spring, and install coil springs. Attach bump stop to axle using the $\frac{3}{8}$ " hex head bolts, washer and flange nut, tighten using a $\frac{9}{16}$ " socket. Repeat this on other side of the vehicle. Raise axle just enough to keep the springs in place. (FIG 10)



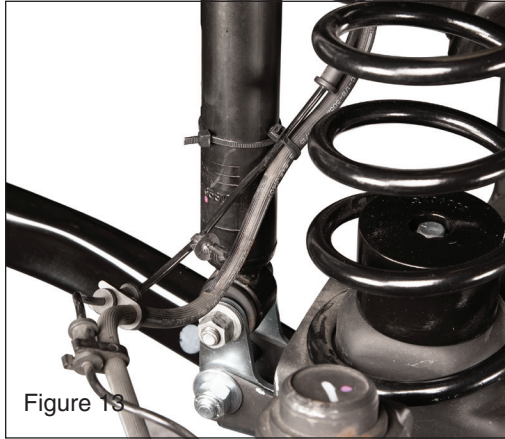
Install the shock mounting brackets as shown with the $\frac{1}{2}$ " bolt, $\frac{7}{16}$ " washers, spacer and nut as shown through the original mounting hole. On the lower side use the $\frac{3}{8}$ " bolt, washer and flange nut. $\frac{1}{2}$ " hardware uses $\frac{3}{4}$ " tools and the $\frac{3}{8}$ " hardware uses $\frac{9}{16}$ ". Tighten all hardware evenly. (FIG 11)



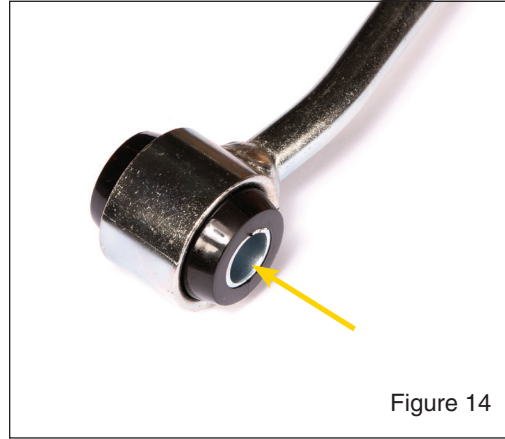
For 2007-2010 model years install the brake line brackets using the original hardware to the frame and tighten. Use the supplied M6 hardware, washer on the nut side, to attach brake line to the bracket and tighten. (FIG 12)

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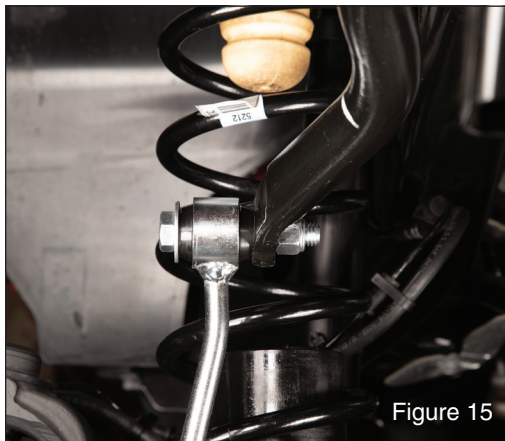
2" Coil Spacer Lift Kit Installation: Front



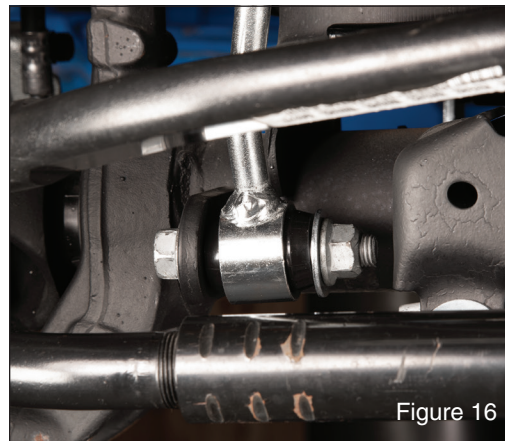
Loosely re-attach the lower shock to the new bracket using the original hardware and for 2011 and newer models zip tie the brake lines to the shock as shown. (FIG 13)



Assemble the sway bar links as shown using the hourglass bushings and sleeves. Glass cleaner and a vice helps with the assembly. (FIG 14)



Loosely attach the sway bar links to the sway bar with $\frac{1}{2}$ " bolts, $\frac{7}{16}$ " washer and nut as shown using $\frac{3}{4}$ " tools. (FIG 15)



Loosely attach the sway bar links to the axle mount using the original hardware and $\frac{7}{16}$ " washers as shown. (FIG 16)

Raise the axle using a floor jack so the full weight of vehicle is on the coil springs with newly installed coil spacers. Torque sway bar link hardware to 60 ft lbs and the lower shock hardware to 56 ft lbs. Install wheels/tires and torque to the vehicles owners manual specifications. Finally, remove jack stands and lower

vehicle onto the ground. Re-attach trackbar to axle using the original hardware and torque to 111 ft lbs, torque the frame side mount to 96ft-lbs. Torque the upper control arms to 75ft-lbs and the lower control arms to 125ft-lbs.

This completes the installation work on the front 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:

Loosen but do not remove all 8 rear control arm bolts using 21mm tools.

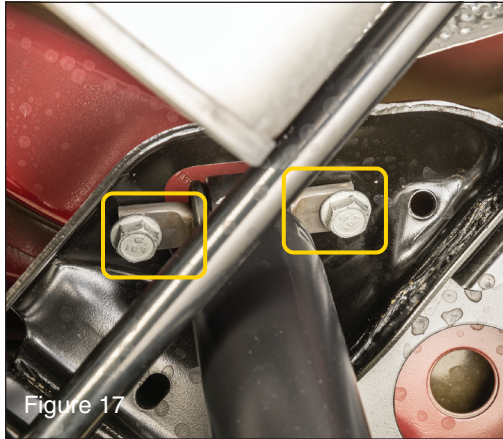


Figure 17

Raise rear end and properly support using jack stands. Disconnect the rear trackbar bracket from axle using 21mm socket and loosen the frame end mount, remove rear lower shock bolts and sway bar end links using a 18mm socket & open end wrench (FIG 17).

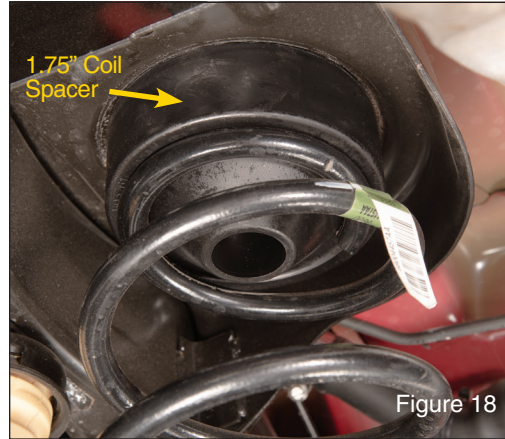


Figure 18

Lower axle down and remove factory rear coil springs and isolators. Discard isolators. Replace isolators with the provided spacers on top of the original springs making sure they are properly aligned. (see FIG 18). Repeat on other side of vehicle.

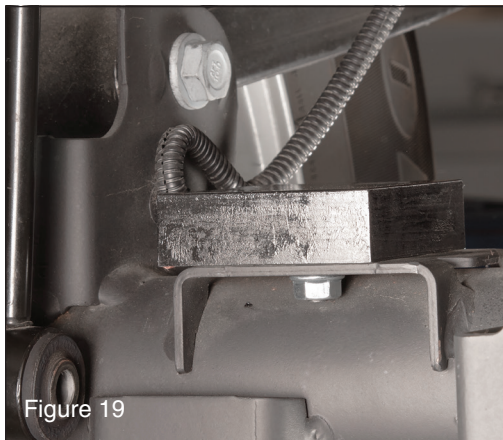


Figure 19

Install the bump stops to the axle pad with the 3/8" flat head screws and flange nuts using a 5.5mm hex key and tighten. (FIG 19).

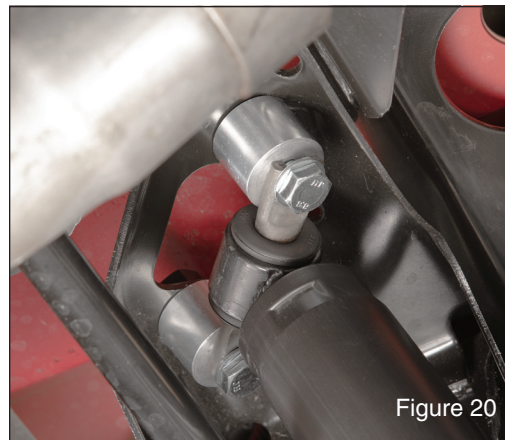


Figure 20

Install the original shocks with the provided spacers and M10 hardware and 3/8" washers using a 17mm socket. Torque to 37ft-lbs. (FIG 20)

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2" Coil Spacer Lift Kit Installation: Rear

Raise the axle slowly using a floor jack and guide the springs into place on the spacers. Once they are in position raise the jack so the full weight of vehicle is on the coil springs. 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 the vehicles owners manual specifications.

Finally, remove jack stands and lower vehicle onto the ground. Re-attach trackbar using factory hardware and torque to 111 ft lbs, torque frame side mount to 96ft-lbs. Torque the upper and lower control arms to 125ft-lbs.

This completes the installation work on the rear of the vehicle.

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2" Coil Spacer Lift Kit Installation

⚠ 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 off-road performance. It may handle differently than its factory equipment including increased ride-height, reduced lateral stability and higher risk of rollover or other accident. Also, owner's choice of larger tire/wheel combinations may require additional road pressure or increased distance to stop; cause speedometer to read slow and may reduce stability around the vehicle. Choice of tire/wheel combinations other than as listed or recommended may compromise FMVSS 126 compatibility.

Do not drive under any speed or maneuvering conditions which may cause the vehicle to flip, 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 manufacturer 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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