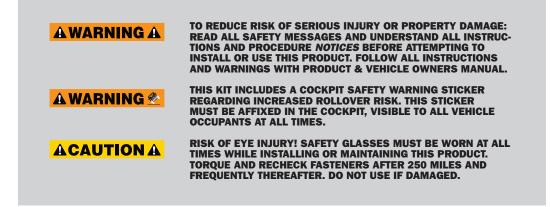
# Quadratec<sup>®</sup> 2.5" Coil Suspension Lift Kit

Installation Manual: for 2007-Current Wrangler (JK) #16400.0X4X



### PARTS LIST:

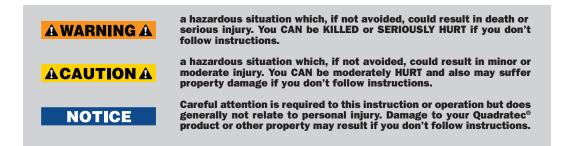
Front Coil Springs - QTY 2 Rear Coil Springs - QTY 2 2" Front Bump Stop Spacers - QTY 2 2" Rear Bump Stop Spacers - QTY 2 Rear Track Bar Bracket - QTY 1 Brake Line Drop Brackets - QTY 4 Front Shocks - QTY 2 Rear Shocks - QTY 2 Kit Hardware Listed Inside Booklet





#### A Few Words About Product Safety:

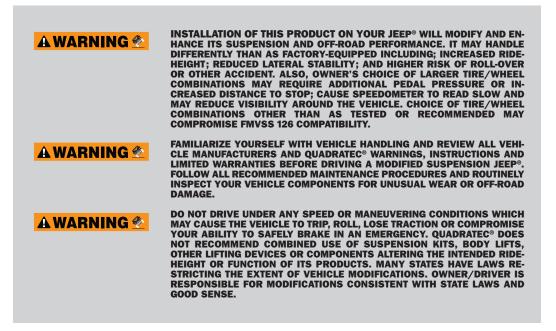
Your Ouadratec Suspension product is intended to enhance the utility and enjoyment of your off road capable vehicle. Before installation, please review the following safety information and installation recommendations. Throughout these instructions important safety information is generally preceded by 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 2.5" Coil Spring 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**





#### **IMPORTANT PRODUCT SAFETY TIPS**

**ACAUTION A** 

QUADRATEC® RECOMMENDS PROFESSIONAL INSTALLATION OF THIS PRODUCT.



#### 2.5" COIL SPRING KIT PARTS LIST:

Front Coil Springs - QTY 2 Rear Coil Springs - QTY 2 2" Front Bump Stop Spacers - QTY 2 10mm Button Head Bolts - QTY 2 %" SAE Washers - QTY 2 10mm Locknuts - QTY 2 2" Rear Bump Stop Spacers - QTY 2 %" x 1 Fine Thread Bolts - QTY 4 %" SAE Washers - QTY 8 5%" Fine Thread Locknuts - QTY 4 Rear Track Bar Bracket - QTY 1 1/2" x 1/4" Fine Thread Bolt - QTY 1 1/2" SAE Washer - QTY 1 1/2" Fine Thread Locknut - QTY 1 %" x 3 Fine Thread Bolt - QTY 1 %" SAE Washers - QTY 2 %" Fine Thread Locknut - QTY 1 <sup>7</sup>/<sub>6</sub>" x 1 Fine Thread Bolt - QTY 1 %" SAE Washer - OTY 1 7/6" Fine Thread Locknut - OTY 1 Crush Sleeve - QTY 1

#### Brake Line Drop Brackets - QTY 4

1/4" x 1 Fine Thread Bolts - QTY 4
1/4" SAE Washers - QTY 8
1/4" Fine Thread Locknuts - QTY 4
Front Shocks - QTY 2
Rear Shocks - QTY 2

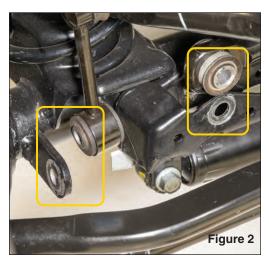
#### **REQUIRED TOOLS:**

Safety Glasses <sup>2</sup>%4" Drill Bit & Hand Drill <sup>1</sup>%2" Drill Bit <sup>1</sup>%2" Allen Wrench <sup>1</sup>/2" Socket 10, 15, 16, 18, 19, 21mm Sockets <sup>1</sup>/2" Open End Wrench <sup>1</sup>%6" Open End Wrench <sup>1</sup>%6" Open End Wrench <sup>1</sup>8mm Open End Wrench <sup>1</sup>%7" Open End Wrench <sup>1</sup>%7" Open End Wrench <sup>1</sup>Locking Pliers (I.E. Vise Grips) Diagonal Wire Cutters Paint Pen or Marker



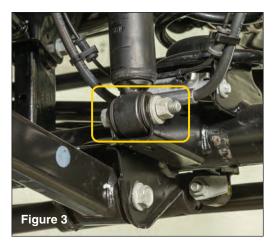


**Caution:** Park the vehicle on flat, level ground and set emergency brake. Put on safety glasses. Raise the front of the vehicle and support frame rails using jack stands. Do not lower the axle at

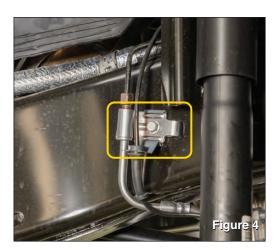


this time. Remove front tires/wheels. Disconnect the front sway bar end links using a 18mm socket and open end wrench. Disconnect front track bar using a 21mm socket. (see FIG 1 & 2)

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



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)



**The Trusted Source** 



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).



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



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



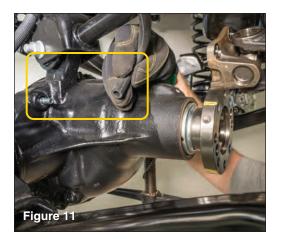
**The Trusted Source** 



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



Mark the front drive shaft position with a paint marker and remove 4 bolts using a 15mm socket. (see FIG 10)



Disconnect axle vent line. (see FIG 11)

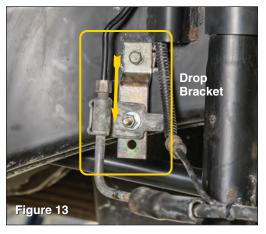


Gently lower axle housing towards the ground and remove original coil springs. (see FIG 12)

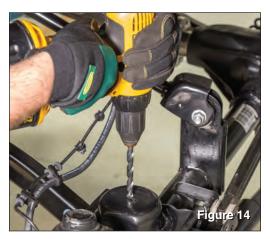
**ACAUTION A** THE COIL SPRINGS MAY BE UNDER TENSION. REMOVE CAREFULLY.



**The Trusted Source** 



For '07-'10 model years only: Using a 7/16" open end wrench and socket, install brake line drop brackets and separate ABS line from top of brake line using ¼" fine thread bolts, washers and locknuts as shown. (see FIG 13)



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  $^{25}/_{64}$ " drill bit. (See FIG 14).



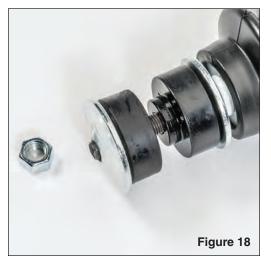
With axle in drop position, place bump stop in coil springs, and position the new coil springs.



Attach bump stop to axle using the 10mm button head bolts and one washer under the 10mm nut, as shown (see FIG 15&16). Perform this on both sides of the vehicle.

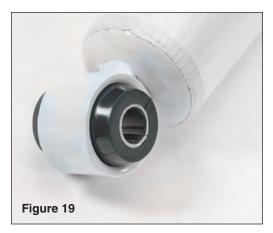






Assemble your new front shocks as shown in FIG 15, 16 &17. Install the shock boots and secure with zip-ties. Clip off zip-tie tail.

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



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. Using factory hardware, re-attach bottom end of shock and torque to 56 ft lbs. Re-attach the driveshaft and torque to 81 ft. lbs. Also re-attach the axle vent line at this time.

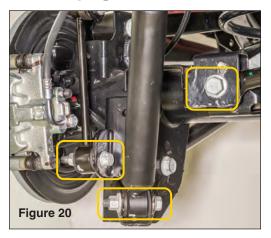
Finally, raise the axle using a floor jack so the full weight of vehicle is on the new coil springs.

Re-attach sway bar end links to the axle housing using factory hardware and torque to 60 ft lbs. Install wheels/tires and torque to 105 ft lbs.

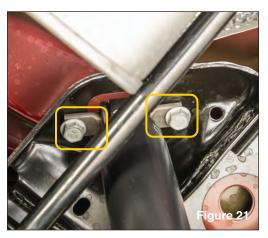
Finally, remove jack stands and lower vehicle onto the ground. Re-attach track bar using factory hardware and torque to 111 ft lbs.

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



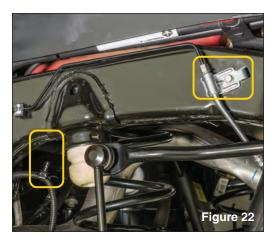


Moving to the rear of the vehicle: Raise rear end and properly support using jack stands. Disconnect the rear track bar bracket from axle using 21mm socket, remove rear lower shock bolts and sway bar end links using a 18mm socket and open end wrench (FIG 20).



Now disconnect the top end shock bolts shown above using a 16mm socket. (see FIG 21).

**ACAUTION A** Always support frame rails using jack stands.



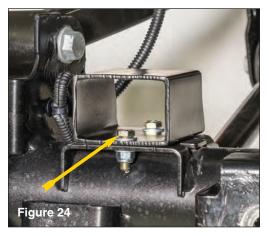
Disconnect ABS line from frame and disconnect brake line from frame using a 10mm socket. (see FIG 22)



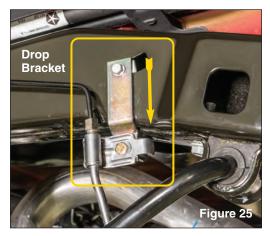
Disconnect axle housing vent line. (see FIG 23)



**The Trusted Source** 



Safely lower the rear axle in order to remove the original equipment rear springs. Install the new coil springs in position. Gently raise axle to hold new springs in place. Install new bump stops with 5/16" fine thread bolts, washers and locknuts as shown using ½" socket



and open end wrench. (see FIG 24) Install brake line drop brackets using the original bolt to the frame, and the supplied ¼" fine thread bolts, washers and locknuts as shown with a 7/16" socket and open end wrench. (see FIG 25)

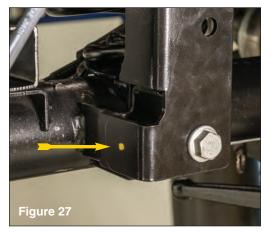


Place supplied rear track bar bracket over axle housing. Install OEM bolt and crush sleeve, but do not tighten at this time. Carefully drill a hole through the track bar bracket into axle housing bracket as shown using a <sup>15</sup>/<sub>32</sub>" drill bit. Consider drilling pilot holes. (see FIG 26)

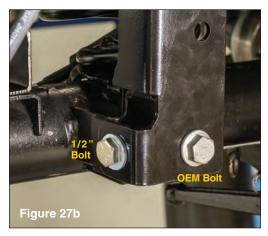


Install supplied 7/16" fine thread bolt, and washer into the hole you have just drilled. Secure from the underside with the supplied locknut, do not tighten at this time. (see FIG 26b)





Mark location on the center of the new bracket face with paint marker as shown (see FIG 27). Consider drilling a pilot hole. It will be necessary to carefully drill through the drivers side of the new bracket and the axle housing mount using a 17/32" drill bit.



Install supplied  $\frac{1}{2}$ " x  $1^{1}/4$ " fine thread bolt, washer and locknut loosely at this time. Tighten OEM track bar bolt followed by the  $\frac{7}{16}$ " and  $\frac{1}{2}$ " bolts.



Assemble your new rear shocks as shown in FIG 28, 29 & 30. Install the shock boots and secure with zip-ties. Clip off zip-tie tail. (see FIG 29).



Assemble the shock bottom bushings exactly as shown (see FIG 30).



**The Trusted Source** 

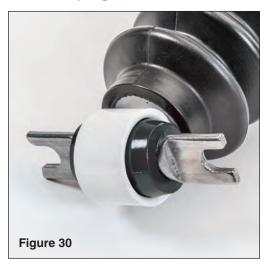


Figure 31

Push the mounting plate with bushing through the top eyelet of the rear shocks (see FIG 30).

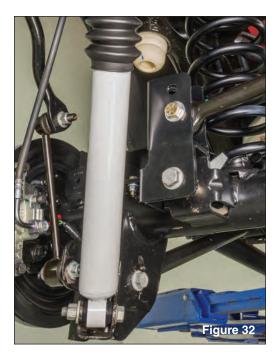
Install the top end of the new rear shocks using a 16mm socket.

Finally, raise the axle using a floor jack so the full weight of vehicle is on the new coil springs.

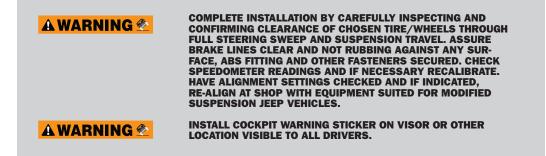
Re-attach rear sway bar end links to the axle housing using factory hardware and torque to 60 ft lbs. Using factory hardware, re-attach bottom end of shocks and torque to 56 ft lbs. Install wheels/tires and torque to 105 ft lbs. Finally, remove jack stands and lower vehicle onto the ground.

Re-attach track bar using the included 9/16" x 3" bolt, washer and locknut in lower mounting hole for 2.5" lifts and torque to 111 ft lbs. (see FIG 32)

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









FALLINE TO DRIVE THIS VEHICLE SAFELY MAY RESULT IN SERIOLS WILLIY OR DAMAGE. This keep'n has been modified to exonismo its supportion and offroad performance. It may handle differently than as factory-exploped including: increased including's rinking of larger stability; and higher risk in raiofus or or views accident. Also, waver's sincle of larger tire/wheel cambinations may require additional pedal pressure or increased instruct or solic, cause specomentor to risk and work will built and used the vehicle. Choice of tire/wheel cambinations other than as texted or encommanded may compounds FMVSS 126 compatibility.

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17" x 8" for '07-'15 Wrangler #92615.22XX...from \$139.99 each each sold individually





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> Classic 5 - Spoke Pattern in 17" x 9"

- > 4.75" back-spacing w/deep Lug pockets
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- > Aluminum castings with CNC machined surfaces
- > Easy to keep clean with no hidden nooks & crannies
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- 17" x 9" for '07-'15 Wrangler #92615.23XX...from \$149.99 each each sold individually



SATIN BLACK

SILVER FINISH MACHINE FACED

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- > 5 Spoke with classic. clean and strong looks
- > Totally transform the look of your Wrangler!
- > Custom Color matched snap-in center caps
- > Aluminum castings with CNC machined surfaces > Easy to keep clean with no hidden nooks & crannies
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### Quadratec<sup>®</sup> Exclusive Limited Lifetime Warranty

Your Quadratec<sup>®</sup> 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<sup>®</sup> 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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VersaHitch, plug-n-play hitch wiring & hitch plug.

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- > Haul your bikes using the two VersaHitch 1.5" receiver ports
- > Dual arms virtually eliminate lurching and wobble of loaded rack
- > Even with bike rack installed you can still tow with 2" receiver\*
- > Soft rubber cradles, hold downs and pedal straps are bike-friendly
- > Unloaded rack folds to allow tailgate access
- > Holds up to 4 bikes, up to 140 lbs total
- > Quadratec Limited 3 Year Limited Warranty

VersaHitch Bike Rack #92034.3000...<sup>\$</sup>199.99 Optional Y-Frame Adapter #92034.1010...\$24.99 \*VersaHitch Extended Ball Mount Kit #92018.0002...<sup>\$</sup>24.99 Required for towing with Bike Rack Installed





ONLINE VIDEO

### **ALL NEW! VersaHitch™** for '07-'15 JK Wrangler > Full function 2" Class II Receiver Hitch > Patented Dual 1.5" Accessory Receiver Tubes

- > Designed & engineered for Custom Accessories
- > Made to provide the ULTIMATE in cargo stability
- > 3500 lb Tow Rating (for 4 door Wrangler)
- > Easy no-drill installation with simple instructions
- > Plug & Play Wiring Harness (Sold Separately) > Quadratec Limited 3 Year Limited Warrantv
- VersaHitch for '07-'15 Wrangler #12015.1002 ...<sup>\$</sup>119.99

Plug-n-Play Hitch wiring for '07-'15 JK #92015.8001 ... \$24.99 Jeep® Logo Hitch Plug #12019.700 ...\$14.99 Please Note: VersaHitch is NOT compatible with '13-'15 Rubicon models with factory modular STEEL bumpers.

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> Unprecedented rigidity and stability with two arms instead of one

- > Dual arms virtually eliminates loaded cargo rack wobble
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- > Aluminum & steel construction offers excellent strength

VersaHitch Cargo Rack #12033.3000...<sup>\$</sup>249.99 \*VersaHitch Extended Ball Mount Kit #92018.0002...<sup>\$24.99</sup> Required for towing with folded Cargo Rack Installed

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