



# 2.5" Spacer Suspension Lift Kit, JL

Congratulations on your purchase of a Rugged Ridge™ suspension kit. To fully enjoy and understand this product, we ask that you take a few moments to read through these instructions. Before beginning the installation, read these instructions and the enclosed driver's "WARNING NOTICE" thoroughly and completely. Also, please affix the "WARNING" decal in passenger compartment within clear view of all occupants. If any of these items are missing from this instruction packet, do not proceed with installation and call Omix-Ada to obtain needed items. If you have any questions or reservations about installing this lift kit, call Omix-Ada at 770-614-6101 for technical assistance and customer service.

### A FEW WORDS ABOUT SAFETY:

Your safety and the safety of other motorists is very important. As the owner of a modified suspension vehicle, you are the person choosing the combination of suspension, wheels, tires, and drivetrain that best fit your intended use. Likewise, you are the person responsible for the safety and legality of the vehicle you modify. In modifying your vehicle's suspension, balance your off-road capabilities against how the vehicle may actually be used off-road and on-road. It is not practical or possible to warn about all hazards associated with modifying your suspension for improved off-road capabilities. To help you make informed decisions about safety, we have provided certain information in the form of "Notices", "Cautions", and "Warnings". This information alerts you to potential hazards that could hurt you or others.

- **NOTICE:** This is a caution against anything which **may cause damage** to the vehicle or its equipment if the caution is ignored. This notice includes information about how you can avoid or reduce those risks.
- **CAUTION:** This is a signal telling you that you or others **CAN BE HURT** if you don't follow the instructions. The caution box includes information about how you can avoid those risks.
- **WARNING:** This is a signal telling you that you **CAN BE KILLED** or **SERIOUSLY HURT** if you do not follow the instructions. The warning box includes information about what you must or must not do in order to reduce the risk of injury to yourself and others.

The following warning label is included with your Rugged Ridge™ suspension kit and should be placed on the vehicle visor or other conspicuous location after installation:

WARNING

HIGHER ROLLOVER RISK

The suspension of this vehicle has been modified by the owner to improve off-road capabilities. As a result, this vehicle may handle differently than the factory-equipped version. Differences include increased ride-height, reduced lateral stability, and higher risk of rollover or other accident. In addition, the owner's choice of larger tire and wheel combinations may require additional braking force or increased stopping distances.

- Failure to drive this vehicle safely may result in serious injury or damage. Avoid sharp turns or other abrupt maneuvers. Do not drive the vehicle under any speed or maneuvering conditions that may cause the vehicle to trip, roll, lose traction, or compromise your ability to safely brake in an emergency.
- Familiarize yourself with all vehicle manufacturers and Rugged Ridge™ warnings, instructions, and limited warranties before driving this modified suspension vehicle. Follow recommended maintenance procedures and routinely inspect your vehicle components for unusual wear or off-road damage.
- Always wear seatbelts and/or appropriate off-road restraints, reduce your speed, tread lightly, and safely enjoy your off-road vehicle.

### PRE-INSTALLATION NOTES:

**NOTICE:** This kit should only be installed by a professional with significant automotive experience.

- Refer to parts list and inventory your kit to ensure that all parts and hardware pieces are available before beginning installation. Contact your independent dealer immediately if parts are missing.
- Installed lift will vary depending on vehicle options and configuration. As a reference and important guide should technical assistance be required, establish base ride-height measurements before beginning installation. Park vehicle on hard, level surface. Carefully measure the four corners of the vehicle (front and rear – both sides) from the ground up to the center of the fender opening above the axle. Record below and save.

Driver Side Front: _____	Passenger Side Front: _____
Driver Side Rear: _____	Passenger Side Rear: _____

OMIX-ADA® TECHNICAL SUPPORT  
PHONE: M-F 8am - 5pm EST 1-800-449-6649  
FOR WARRANTY OR TECH CONCERNS, EMAIL: [webmaster@omixsupport.com](mailto:webmaster@omixsupport.com)

**ATTN: STATE OF CALIFORNIA CONSUMERS**  
 **WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**



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### WARNING!

**Improper use of air and power tools can cause serious injury.** Familiarize yourself with tool manufacturers' warnings and instructions before use. Always wear approved safety glasses.

### WARNING!

Altering vehicle ride height affects handling dynamics. **Lifted vehicles can increase roll potential.** Avoid situations where a side rollover can occur. Seatbelts and/or harnesses should be worn at all times.

The lift kit is designed for use with 35" tires and wider wheels with wider than stock offset for optimal performance off-road. Larger tires can be used but may result in contact with lower control arms or sway bar links during sharp turns. It is the installer's responsibility to inspect fitment of tires and wheel offset to ensure that safe driving characteristics are maintained.

## TOOL REQUIREMENTS

### Wrenches – sized to sockets:

- 6mm Allen wrench
- 10mm wrench
- 10mm socket
- 15mm socket
- 15mm wrench
- 18mm socket
- 18mm open-end wrench
- 21mm socket
- 22mm deep well socket
- 9/16" socket
- 9/16" wrench
- 3/4" socket
- Needle-nose pliers
- Floor jack
- Jack stands

### Bolt/nut torque specifications:

- 1/2" – 95 ft./lbs. (Grade 5)
- 1/2" – 90 ft./lbs. (Grade 8)
- 3/8" – 30 ft./lbs. (Grade 5)
- 3/8" – 35 ft./lbs. (Grade 8)
- 12mm – 95 ft./lbs. (Class 8.8)
- 12mm – 90 ft./lbs. (Class 10.9)

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## KIT CONTENT: BRACKETS / SPACERS

**A.** Front coil spacer (2)



**B.** Rear coil spacer (2)



**C.** Front shock bracket (2)



**D.** Rear shock bracket (2)



**E.** Front sway bar links (2)



**F.** Front bump stop spacer (2)



**G.** Rear bump stop spacer (2)



**H.** Rear sway bar links (2)



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### KIT CONTENT: HARDWARE BAGS

**I.** ½" flat washers (12)



**J.** ½" Nyloc nuts (2)



**K.** ½" x 1.25" bolts (2)



**L.** ½" x 2.5" bolts (2)

**M.** 3/8" x 1" bolt (2)



**N.** 3/8" x .75" bolt (4)

**O.** 3/8" x 3" bolt (2)



**P.** 3/8" flat washers (8)

**Q.** 3/8" flange locknuts (8)



**R.** 12mm x 65mm bolts (8)

**S.** 12mm flange locknuts (8)



**T.** Rear-threaded spacer washers (2)

**U.** Front shock bracket sleeves (4)



**V.** Rear shock bracket sleeves (4)

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### FRONT SUSPENSION INSTALLATION INSTRUCTIONS

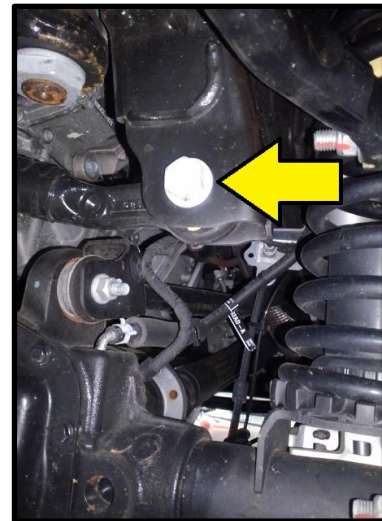
1. Place vehicle in first gear or park and check rear tires. Raise front of vehicle using floor jack and secure with jack stands along front frame rail just behind control arm mounts. Carefully lower vehicle onto stands. The floor jack should be placed under front axle to support during coil spring removal.

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2. Using a 22mm deep well socket, remove wheels and tires.

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3. Using a 21mm socket, remove the front track bar at frame mount. **Do not discard OE hardware.** It will be reused.



4. Using an 18mm socket and wrench, remove the lower bolts to sway bar links. **Do not discard OE hardware.** It will be reused. Repeat for the other side.





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5. Using a silver marker, draw index lines onto the front drive shaft at flange. This will ensure proper alignment and balance of the drive shaft when reinstalled. Using a 15mm socket, remove the front drive shaft flange from differential. **NOTE:** Suspend drive shaft from vehicle using cord, wire, or bungees. **DO NOT ALLOW drive shaft to hang**, as damage to rubber butt may result.



6. Using a 15mm socket or wrench, remove frame mount brake line bracket. **Do not discard OE hardware.** Repeat for other side.

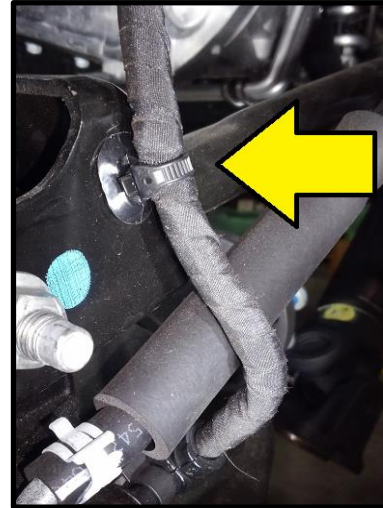


7. Using 18mm socket and wrench, remove lower shock mounting bolt. Use floor jack to raise vehicle as needed to reduce load on bolt. Swing shock out of the way. Repeat for other side.



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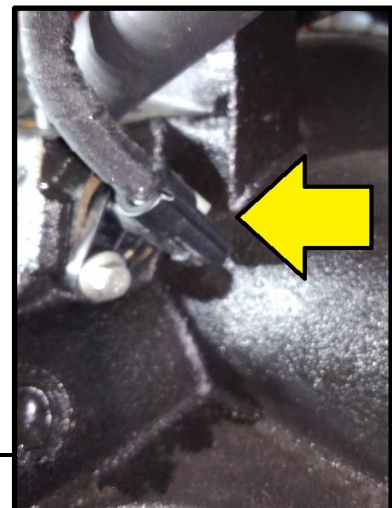
**8.** Using needle-nose pliers, remove wire harness from upper control arm. Repeat for other side.



**9.** Using needle-nose pliers, remove vent line from differential.



**10.** Unplug the locker harness at differential, if equipped.

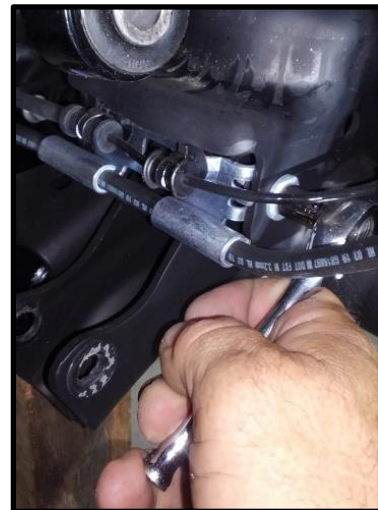


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**11.** Using pliers, pull 4x4 actuator harness wire from control arm and disconnect at axle plug.



**12.** Using a 10mm socket, disconnect brake line brackets from axle coil mounts. **Do not discard factory hardware.** It will be reused.



**13.** Carefully lower floor jack and allow axle to slowly drop downward to full droop. Remove factory coils and isolator.



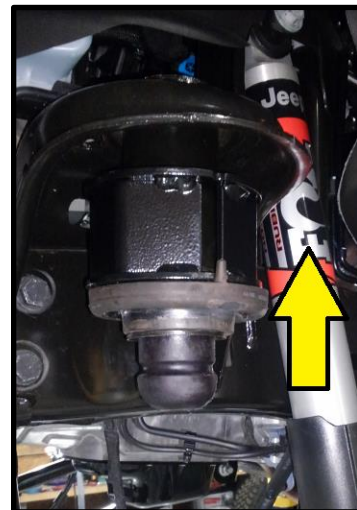


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**14.** If required, remove on location the nip from rubber isolator. Install onto 2.5" spacer. Repeat for other side.



**15.** Slide 2.5" spacer into place on upper frame spring mount with factory isolator installed. Repeat for other side.

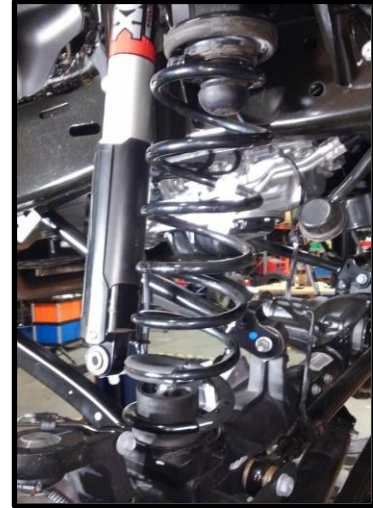


**16.** Install bump stop spacer onto axle coil spring mount. Secure using supplied 3/8" x 3" bolt, 3/8" flat washer, and 3/8" flange nut. Tighten using 9/16" wrench and repeat for other side.



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**17.** Install factory coil spring, ensuring that the upper coils are seated into the isolator correctly. Repeat for other side.



**18.** Using a 10mm wrench, reinstall the brake line bracket to axle coil spring mount. Use factory hardware saved in **Step 12**.



**19.** Place front shock extension brackets over stock axle mounts using 3/8" x 1" bolt, 3/8" flat washer, and 3/8" flange nut. Repeat for other side. **Do not tighten at this time.**



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**20.** Place supplied crush sleeve inside factory shock mount and reinstall factory shock bolt removed in **Step 7**. **Do not tighten at this time.** Repeat for other side.



**21.** Placing floor jack on working side of axle, compress suspension to allow alignment of factory shock into upper mounting holes of shock extension bracket. Slide 12mm x 65mm bolt through and secure with flat washer and 12mm nut.



**22.** Using 9/16" socket and wrench, torque lower bolt to 30 ft./lbs., factory bolt to 55 ft./lbs., and upper shock to shock bracket to 55 ft./lbs. Repeat for other side.



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**23.** Using 15mm wrench, reinstall brake line bracket to lower control arm using hardware removed in **Step 6**. Repeat for other side.



**24.** Remove factory sway bar link from sway bar using 6mm Allen wrench and a 18mm wrench. Install supplied front bent sway bar link with supplied 12mm x 65mm bolt, flat washer, and 12mm Nyloc nut. Torque to 60ft/lbs. Repeat for other side.



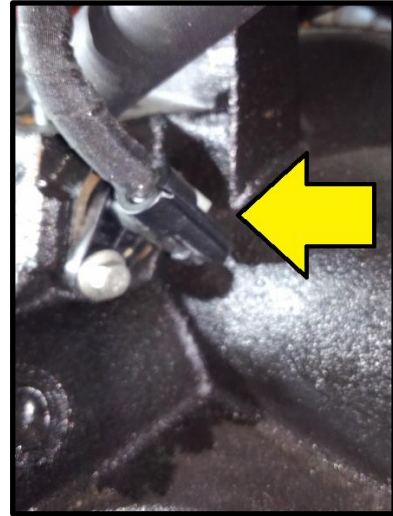
**25.** Reconnect 4x4 actuator harness plug and secure wire harness to housing and upper control arm.





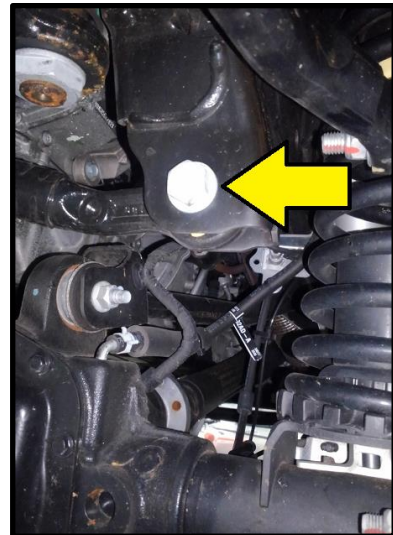
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**26.** If equipped, reconnect locker harness to differential plug. Reconnect locker harness, locker wire harness, and differential vent lines removed in **Steps 8-10**.



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**27.** Reinstall wheels and tires to vehicle using 22mm deep well socket and lower vehicle to floor. Reattach track bar to frame mount using factory hardware removed in **Step 3**. Tighten using 21mm socket to 150 ft./lbs.







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### REAR SUSPENSION INSTALLATION INSTRUCTIONS

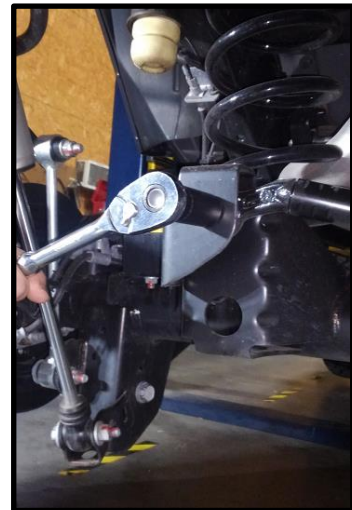
1. Place vehicle in first gear or park and check front tires. Raise rear of vehicle using floor jack and secure with jack stands. Carefully lower vehicle onto stands. Position floor jack under rear differential to support rear axle, but do not raise.

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2. Using a 22mm deep well socket, remove rear wheels and tires.

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3. Using a 21mm socket, remove rear track bar at axle mount. **Do not discard OE hardware.** It will be reused.

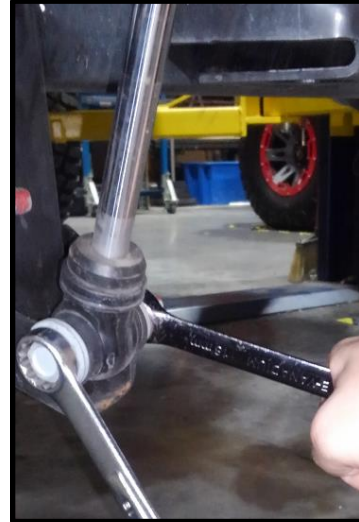


4. Using an 18mm socket and wrench, remove lower bolts to sway bar links. **Do not discard factory hardware.** Repeat for other side.



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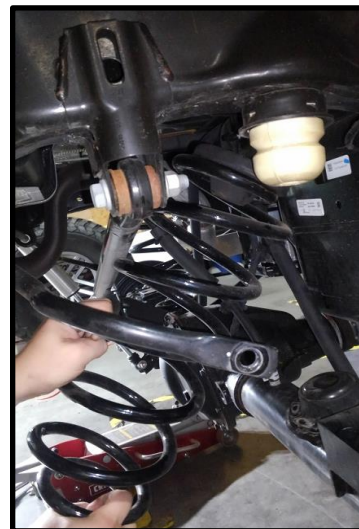
**5.** Using 18mm socket and wrench, remove lower shock mounting hardware. Repeat for other side. **Do not discard hardware.**



**6.** Bolt bump stop spacer to axle using 3/8" bolt, 3/8" flat washer, and 3/8" flange nut (two sets per side). Tighten bolts to 30 ft./lbs. Repeat for other side.



**7.** Lower floor jack to allow axle to droop. Remove coil springs and isolators.



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**8.** Using 6mm Allen wrench and an 18mm wrench, remove factory sway bar link from sway bar. Attach longer supplied sway bar link to sway bar using supplied 12mm x 65mm bolt, flat washers, and 12mm flange nut. Tighten to 75 ft./lbs. Repeat for other side.



**9.** Place supplied coil spring threaded spacer washer on top of rear coil spring frame mount. Make sure it is centered. Repeat for other side.



**10.** Install 2.5" spacer using 1/2" x 2.5" bolt. Tighten using 3/4" socket. Tighten to 65 ft./lbs. Repeat on other side.

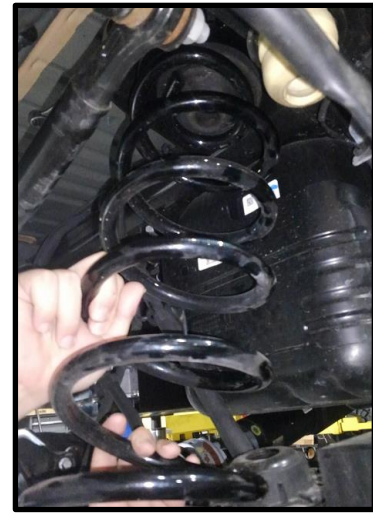


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**11.** If required, remove on location nip from rubber isolator and install onto 2.5" spacer. Repeat for other side.



**12.** Reinstall coil spring isolator and coil spring. Make sure coil spring is properly seated to isolator. Repeat for other side.



**13.** Place rear shock extension brackets over stock axle mounts using 3/8" x 1" bolt, 3/8" flat washer, and 3/8" flange nut. Repeat for other side. **Do not tighten at this time.**





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**14.** Place supplied crush sleeve inside factory shock mount and reinstall factory shock bolt removed in **Step 5**. **Do not tighten at this time.** Repeat for other side.



**15.** Using a floor jack, compress suspension to allow alignment of factory shock into upper mounting holes of shock extension bracket. Slide 12mm x 65mm bolt through and secure with flat washer and 12mm nut.



**16.** Using 9/16" socket and wrench, torque lower bolt to 55 ft./lbs. Factory bolt to 55 ft./lbs. and upper shock to shock bracket to 65 ft./lbs. Repeat for other side.







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**17.** Using the factory hardware removed in **Step 4**, install lower sway bar link to axle mount. Tighten to 55 ft./lbs. Repeat for other side.

**18.** Reinstall rear wheels and tires using 22mm deep well socket. Lower vehicle to ground and reinstall track bar using hardware removed in **Step 3**. Tighten to 150 ft./lbs.



### POST-INSTALLATION INSTRUCTIONS

- 1.** Adjust steering drag link as needed to set steering back to center before the vehicle is driven. Computer error and poor performance will result if not properly set. Perform full steering cycle to check for tire to control arm clearance.
- 2.** Test all vehicle functions. Ensure brakes function correctly.
- 3.** Check for clearance of all moving parts and cycling suspension components.
- 4.** Check all fasteners and double-check to torque specs supplied.
- 5.** Check for clearance of all moving parts and cycling suspension components.
- 6.** Adjust headlights to factory setting.
- 7.** The final alignment is to be performed by a qualified alignment center.
- 8.** After 500 miles, re-torque fasteners. At 1000 miles, re-inspect and tighten as needed.