



## Installation Instructions

Jeep JL Rear 2.0 Coilover Kit  
AOR-1000-0005

For the latest version visit  
[AccuTuneOFFROAD.com](http://AccuTuneOFFROAD.com), navigate to  
the product and click on Specifications.

### Warranty

**No Warranty.** There is no warranty, express or implied, other than as expressly set forth or referred to herein and, in particular, neither Party makes any warranties to each other or any other person or entity, whether express, implied or statutory, as to the description, quality, merchantability, completeness or fitness for any purpose of any services, products or information provided hereunder or described herein, or as to any other matter all of which warranties are hereby excluded and specifically disclaimed.. THE SAFETY, EFFECTIVENESS, AND PERFORMANCE OF THIS PRODUCT IS DIRECTLY RELATED TO THE MANNER IN WHICH IT IS INSTALLED, USED, AND/OR MAINTAINED. THE USER ASSUMES ALL RISK.

### Notice

Vehicles that have been enhanced for off-road performance often have unique handling characteristics due to the higher center of gravity and larger tires. This vehicle may handle, react and stop differently than many passenger cars or unmodified vehicles, both on and off-road. You must drive your vehicle safely! Extreme care should always be taken to prevent vehicle rollover or loss of control, which can result in serious injury or even death. Always avoid sudden sharp turns or abrupt maneuvers and allow more time and distance for braking! AccuTune Off-Road reminds you to fasten your seat belts at all times and reduce speed! We will gladly answer any questions concerning the design, function, maintenance and correct use of our products.

### Tools Required

Proper Safety Equipment	Jack & Jack Stands
Basic Hand Tools (Wrenches, Sockets, Ratchets, Etc)	Coil Spring Compressor (optional)
Torque Wrench	Two 3" C-Clamps
Drill or Impact To Fasten Zip Screws	
Sharpie (Preferably Silver)	

### Parts List

P/N	Description	QTY
2000-047-050	Spacer, 0.875 OD x 0.472 ID x 0.50 Long	2
2000-047-175	Spacer, 0.875 OD x 0.472 ID x 1.75 Long	2
2000-045-L	Reservoir Mount, 08+ JL, Rear Left	1
2000-045-R	Reservoir Mount, 08+ JL, Rear Right	1
3000-014-12-100	Screw, Hex Head, Self Drilling, Zinc Plated, 1/4"-14 x 1.00"	6
3000-009-036	Hose Clamp, SS, 0.50" W, Up To 2.75" ID	4

### Other Modifications or Parts Required & Not Included

Requires 68" wide axles (Rubicon Axles)

Bump Stop Spacers: Rear 2.0"

Tires & Wheels:

Tire bulge must be 5.25" from outside of frame min

Measured on flat parts of frame just behind bump stop

37x12.5R17 – 17" wheel, 8-9" wide, 4.0" backspacing min

40x12.5R17 – 17" wheel, 8-9" wide, 3.5" backspacing min

Rear Sway Bar Links – 11.25" long

**NOTE:** If your measurements are different you must cycle the suspension to verify tire to coilover & coilover to frame clearance. Fully articulate the suspension each direction and check clearance

### Prepare the Vehicle

Jack the vehicle up and securely set the chassis and axles on jack stands. Remove wheels and tires.

**\*\*Instructions assume you already have a suspension kit capable of similar droop. If not check e-locker and diff breather hose and reroute as necessary. See Figure 1.**

### Disassembly:

1. Remove rear OEM components:

Rear springs (coil spring compressor can be helpful)

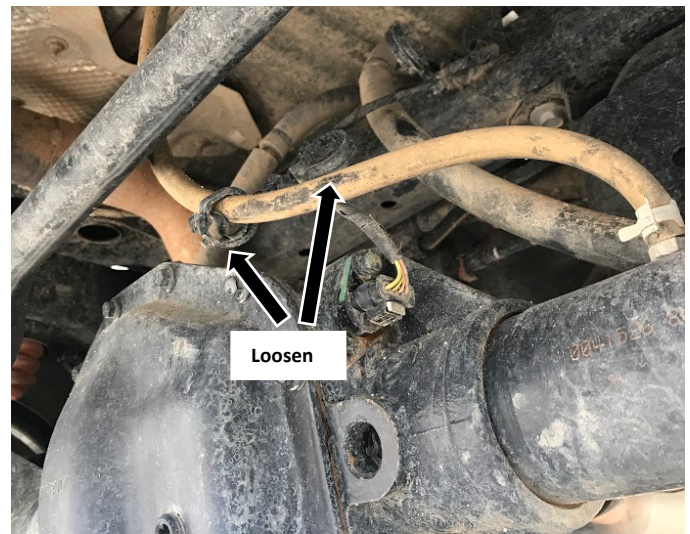
Rear shocks

### Coilover Installation:

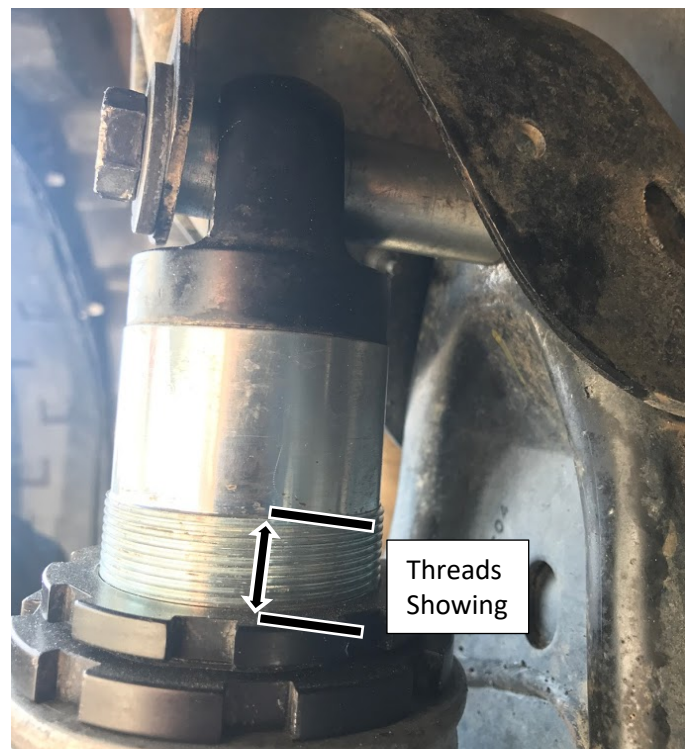
2. Install coilover into upper mounts using the OEM Bolt and 7/8" OD spacers. Narrow spacer goes on the outside of the upper mount. Torque to 80 ft-lb. Do not install springs at this time.

3. Install the coilover into the lower mount using oem bolt and supplied spacers. Install the bolt with nut towards the tire to protect the threads off-road.

**Figure 1:** Wiring and vent hose to re-route as necessary



**Figure 2:** Spring preload and upper spacers



### Remote Reservoir Bracket Installation:

4. Remove OEM frame bump stops by prying them out of the metal can. Jack axle up to full bump (metal to metal). Check that sway bar end links do not exceed 11.25" eye to eye.
5. Use the hose clamps to lightly clamp the reservoir and bracket together. **Be sure to mount the reservoir as high as possible on the frame to ensure sway bar end link clearance.** Clock the bracket so it sits flat against the frame. Trace the outside edge of the bracket using the sharpie.
6. Remove the bracket from the reservoir and hold it up to your marks. Use zip screws to fasten the bracket.

### Setting Ride Height

7. Install springs on to the shocks, lighter/shorter springs on top, spring slider with short side up. Using a spring compressor will make it a lot easier. Set the upper nuts with the following amount of threads above the perch:

#### Fox 2.0 For 3" of Lift:

- 1" preload when 0" of thread showing
- JLR start with 0" of thread showing
- JLUR start with 1.0" of thread showing

0 to 1.5" of thread showing is acceptable, swap springs if outside this range. Note, springs must be in new condition to swap.

#### King 2.0 For 3" of Lift:

TBD

8. Reinstall tires & wheels, torque to factory spec., set vehicle back on its own weight.
9. Adjust upper springs nuts until desired ride height is achieved. 1" of adjustment equals 1" of ride height. Sometimes it is easier to remove the coilover and use a spring compressor.

Note: wheels & tires do not need to be removed to take off the coilovers (if you have a lift).

10. Set the dual rate nuts to 1.5" away from the spring slider at ride height.

Figure 3: Lower coilover spacer installation



Figure 4: Reservoir bracket installation



How To Measure &  
Set Coilover Spring Preload

## TORQUE SETTINGS

AccuTune Offroad  
Jeep JL, Suspension Settings

JOINT	WRENCH SIZE	TORQUE
Front LCA to Axle	21mm/24mm	190 ft-lb
Front LCA to Frame	21mm/24mm	190 ft-lb
Front UCA to Axle	8mm/18mm	80 ft-lb
Front UCA to Frame	18mm/21mm	80 ft-lb
Front Track Bar to Axle	21mm/21mm	110 ft-lb
Front Track Bar to Frame	21mm/21mm	110 ft-lb
Front Brake Hose To LCA	15mm	15 ft-lb
Front Sway Bar Link To Axle	5/8"/3/4"	60 ft-lb
Front Sway Bar Link To Frame	5/8"/3/4"	60 ft-lb
Front UCA Heat Shield	10mm	40 in-lb
Front Bump Stop	9/16"	20 ft-lb
Front Shock To Frame	18mm	80 ft-lb
Front Shock To Axle	18mm	75 ft-lb
Rear LCA to Axle	21mm/21mm	90 ft-lb
Rear LCA to Frame	21mm/21mm	90 ft-lb
Rear UCA to Axle	21mm/21mm	95 ft-lb
Rear UCA to Frame	21mm/21mm	120 ft-lb
Rear Track Bar to Axle	21mm/21mm	90 ft-lb
Rear Track Bar to Frame	21mm/21mm	90 ft-lb
Rear Sway Bar Link To Axle	5/8"/3/4"	60 ft-lb
Rear Sway Bar Link To Frame	5/8"/3/4"	60 ft-lb
Rear Bump Stop	9/16"	20 ft-lb
Rear Shock To Frame	18mm	80 ft-lb
Rear Shock To Axle	18mm	75 ft-lb

### FRONT SUSPENSION

SWAY BAR END LINK	LOWER CONTROL ARM LENGTH	UPPER CONTROL ARM LENGTH	TRACK BAR LENGTH
8.50"	24.125"	20.188"	34.125"

### REAR SUSPENSION

SWAY BAR END LINK	LOWER CONTROL ARM LENGTH	UPPER CONTROL ARM LENGTH	TRACK BAR LENGTH
8.50"	19.75"	17.43"	37.875"

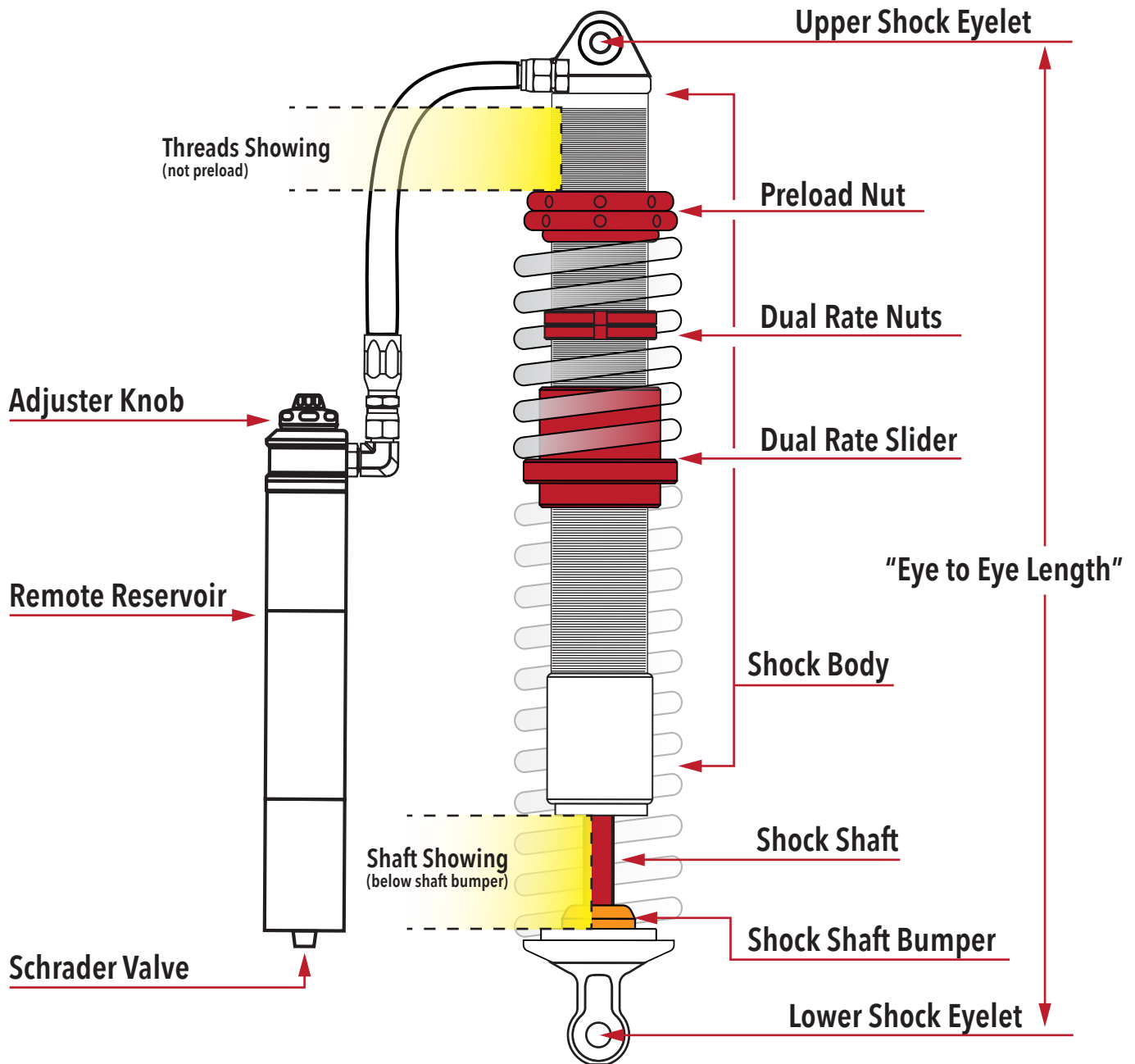
### TIRE/WHEEL SIZE & BUMP STOP REQUIREMENTS

MODEL	TIRE	WHEEL	FRONT BUMP STOP	REAR BUMP STOP
JLUR	37/12.5R17	17x8, 4.5" BS	2.50"	2.00"
JLUR	35/12.5R17	17x8, 4.5" BS	1.00"	1.00"
JLU	35/12.5R17	17x8.5, 4.75" BS	3.00"	2.00"

### ALIGNMENT SPECIFICATIONS

SPEC	FRONT LEFT	FRONT RIGHT
Caster	4.80 +/- 1.0 Degree	4.80 +/- 1.0 Degree
Toe-In	0.0 - 0.12	0.0 - 0.12





**Preload Nut:** Allows you to adjust the preload on the coilover shock. For zero preload, extend shock completely and have the preload nut resting against the upper spring not allowing the springs to move up or down.

**Dual Rate Nuts:** Allows you to adjust the transition point between the softer upper spring and stiffer lower spring. For most applications, the stop nuts should be positioned about 1 inches above the Dual Rate Slider when the vehicle is at ride height and 2 inches in back.

**Dual Rate Slider:** Separates the upper and lower coilover springs.

**Adjuster Knob:** Fox Shocks will have either a Dual Speed Compression Adjuster (DSC) or a Low Speed Compression Adjuster (LSC). King Shocks will have one type of adjuster, which is a mid speed adjuster.