

# SKYJACKER

## SUSPENSIONS

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## Jeep Gladiator JT

Rubicon & Non-Rubicon Models  
3.5"-6" Rear Coilover Kit  
Installation Instructions

### Required Tools List:

- SAE Sockets \ Wrenches (5/16", & 9/16")
- Metric Hex Key & Sockets \ Wrenches (6mm Hex Key, 8mm, 10mm, 18mm, 21mm, 22mm, & 24mm)
- Standard & Phillips Screwdriver
- Plastic Fastener Removal Tool
- Hook Pick Tool
- Straight Pick Tool
- Impact Wrench
- Power Drill
- Drill Bit (5/16")
- Grinder
- Center Punch
- Ball Peen Hammer
- Scriber Tool
- Safety Glasses
- Jack Stands
- Wheel Chock
- Floor Jack
- Paint Marker
- Measuring Tape
- Torque Wrench



Before beginning installation, read these instructions & enclosed driver's WARNING NOTICE thoroughly & completely. Also affix WARNING decal in passenger compartment in clear view of all occupants. Please refer to Parts List to insure that all parts & hardware are received prior to disassembly of vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

**Please Record Important Measurement Information Below for Reference.**

**It Is Very Helpful on Determining an Accurate Achieved Lift Height Measurement.**

Make sure you park vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from factory, but is usually not noticed until a lift kit has been installed which makes difference more visible. Using a measuring tape, measure front & rear (both sides) from ground up to center of fender opening above axle.

Driver Side Front: _____ / _____	Passenger Side Front: _____ / _____
BEFORE / AFTER	BEFORE / AFTER
Driver Side Rear: _____ / _____	Passenger Side Rear: _____ / _____
BEFORE / AFTER	BEFORE / AFTER

### Important Notes:

- This Suspension Lift is NOT Designed to Fit Mojave Models.
- If Larger Tires (10% More Than OEM Diameter) Are Installed, Speedometer Recalibration Will Be Necessary. Contact Your Local JEEP Dealer or an Authorized Skyjacker® Dealer for Details.
- In Event that a Different Coil Spring Rate Option Is Needed Due to Custom Modifications, Extra Weight, Etc, Please Contact SKYJACKER® Technical Assistance at 318-388-0816.

- Adjustable Rear Lower Control Arms Are **Required**. # GLL24R-SX Includes Johnny Joints.
- Adjustable Rear Upper Control Arms Are **Recommended**. # GULR24-SX Includes Johnny Joints.
- A Replacement Dual Cardan CV Style Rear Driveshaft With Transfer Case Output Yoke **Required**.
- Wheel Back Spacing of 4.5" Or Less Is **Recommended**.
- After Installation, a Qualified Alignment Facility Is Required to Align Vehicle to OEM Specifications.

### Component Box Breakdown:

#### Part # G36RLS

Item #	Description	Qty
SKY2028G-PR	COILOVER SHOCK, PAIR, L & R	1
2.5X12X200	SPRING, 2.5 ID \ 12 H \ 200 RATE	2
2.5X14X300	SPRING, 2.5 ID \ 14 H \ 300 RATE	2
LSCOWRH-S	SPANNER WRENCH, COILOVER	1

### Hardware Bag Breakdown:

#### Part # HB-G36RLSB

Item #	Description	Qty
38X1TCFB	3/8 X 1 THRD-CUTTER FLG BOLT	12

### Component Box Breakdown:

#### Part # G36RLSB

Item #	Description	Qty
G36RDU-B	COILOVER UPPER BRKT, DR	1
G36RPU-B	COILOVER UPPER BRKT, PA	1
G36RRD-B	REMOTE RESERVOIR BRKT, DR	1
G36RRP-B	REMOTE RESERVOIR BRKT, PA	1
HB-G36RLSB	HDWR BAG: FOR G36RLSB	1

### Jeep Gladiator JT Optional Coilover Up-Grades



Adjustable Front Track Bar - Part # JLFTBA18



Front Air Bump Stop Kit  
Part # JLLSAB



Adjustable Rear UCA - Part # GULR24-SX



ADX Adventure Series Coilover Kit (Front)  
3.5"- 6" Lift Coilover - Part # JL36FLS  
3.5"- 6" Lift Brackets - Part # JL36FLSB



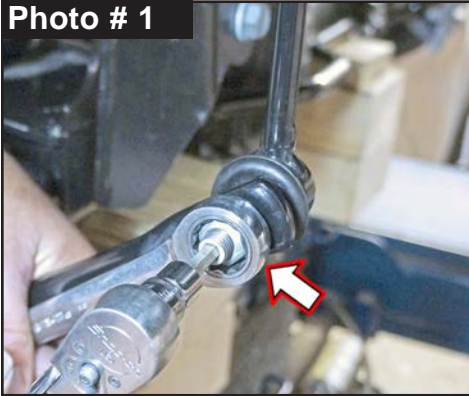
Adjustable Rear Track Bar - Part # JTGRTBA20



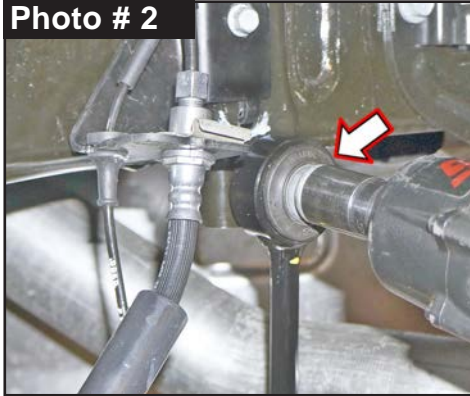
**Rear Installation: Note: Save all factory components & hardware for reuse, unless noted.**

1. Chock front tires\wheels. Raise rear of vehicle & support frame rails using jack stands at indicated lift points in OEM service manual.
2. Remove rear tires\wheels using a 22mm socket.
3. Remove OEM rear sway bar end links from each side. Disconnect lower link at sway bar using a 6mm hex key socket\wrench & 18mm socket\wrench. (Photo # 1)  
Disconnect upper link at outside frame using a 21mm socket\wrench. (Photo # 2)
4. Disconnect OEM brake line bracket at frame mount using a 10mm socket\wrench. (Photo # 3)

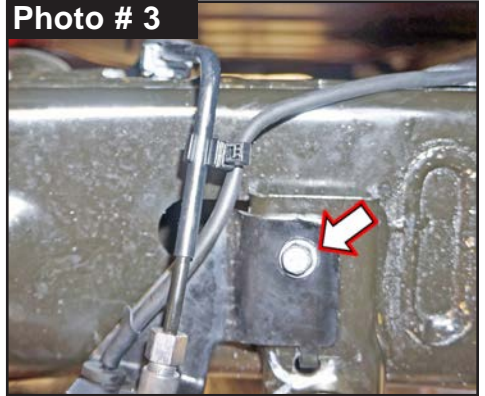
**Photo # 1**



**Photo # 2**



**Photo # 3**



5. In order to gain access to OEM rear upper shock mount, OEM rear inner fender can be completely removed or only removed where access is needed. **Note:** Jeep Gladiator year make & models have various rear inner fender\liner designs. This removal is an example. It can vary, but removal process is similar.

First, remove three (3) OEM retaining clips from inside of fender liner using a plastic fastener removal tool. (Photo # 4 & # 5)

Next, remove two (2) liner backing support screws using an 8mm socket\wrench. (Photo # 6)

**Photo # 4**



**Photo # 5**



**Photo # 6**



**Note:** If you decide to completely remove inner fender, outer fender & inner fender clips are pop rivets. If removed, rivets will have to be replaced. **Tech Note:** Push center pin of rivet with a pick tool or Phillips screwdriver, then remove rivet using a plastic fastener removal tool. (Photo # 7) Or you may have to drill out center pin of rivet, then remove rivet using a plastic fastener removal tool.

Separate OEM inner liner from fender flare & remove liner from vehicle.

**Photo # 7**



6. Disconnect OEM rear track bar from rear axle mount using a 21mm socket \ wrench. (Photo # 8) **Tech Note:** It may be necessary to raise \ lower axle to take pressure off track bar bolt. Retain OEM hardware.
7. Disconnect OEM rear shock at upper & lower hardware using a 21mm socket \ wrench. (Photo # 9 & # 10) Remove OEM rear shocks & retain hardware.

Photo # 8



Photo # 9



Photo # 10

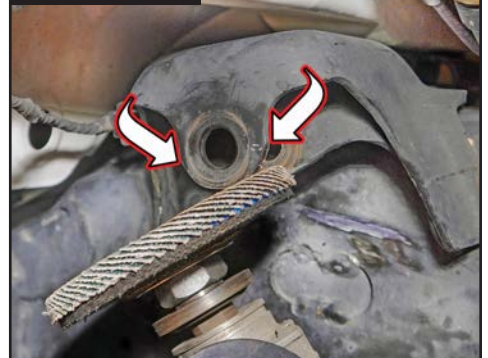


8. Disconnect OEM wiring harness clip from OEM upper shock frame mount using a plastic fastener removal tool. (Photo # 11)
9. For coilover clearance purposes, grind \ round off bottom points of both inner & outer OEM shock mounts to a smooth radius. (Photo # 12)

Photo # 11



Photo # 12



10. **Rubicon Models:** OEM rear locker must be disconnected so wiring connectors are not over-extended. On rear axle, unplug locker wiring harness from side of center differential housing. (Photo # 13) **Tech Note:** Safety lock clip must be slid rearward to unlock. Press rearward tang up, grab connector & pull away while from plug-in.

Remove OEM plastic retainer from stud on side of differential housing using a plastic fastener removal tool. (Photo # 13)

Follow OEM locker wiring harness up & unclip harness clamps from emergency brake cable.

Continue up OEM locker wiring harness & unclip two (2) wiring harness clips from driver side inner frame rail above axle using a plastic fastener removal tool.

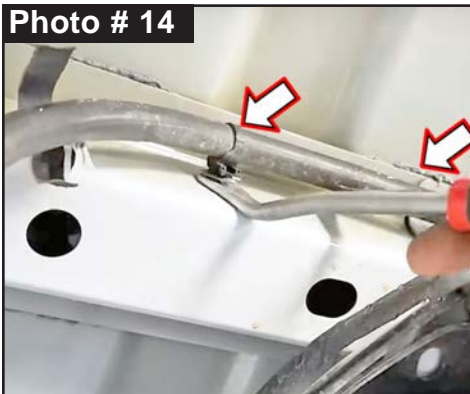
Photo # 13



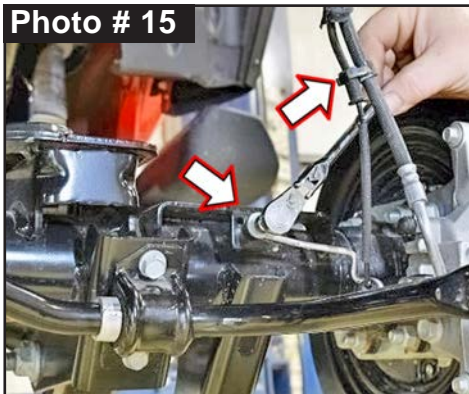


11. Follow OEM differential vent tube plastic clip up & disconnect OEM differential vent tube plastic clip from vehicle upper tub mount using a plastic fastener removal tool. (Photo # 14)
12. Disconnect OEM ABS bracket from axle mount using a 10mm socket\wrench. (Photo # 15)  
Unclip all ABS line rubber grommets from OEM brake line rubber keepers. (Photo # 15)  
Disconnect OEM ABS sensor from brake caliper bracket using a 8mm socket\wrench. (Photo # 16)

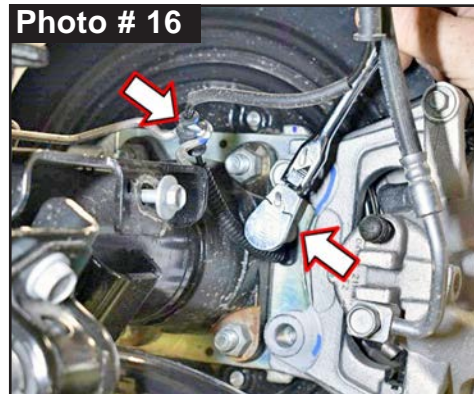
**Photo # 14**



**Photo # 15**



**Photo # 16**



13. Loosen, but **Do Not Remove** rear OEM upper & lower control arm links.

Loosen rear OEM upper & lower control arm links at rear OEM axle mounts using a 21mm & 24mm socket\wrench. (Photo # 17 & # 18)

Loosen rear OEM upper & lower control arm links at front OEM frame mounts using a 21mm & 24mm socket\wrench. (Photo # 19 & # 20)

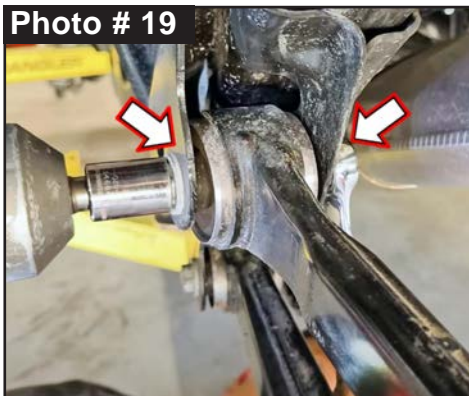
**Photo # 17**



**Photo # 18**



**Photo # 19**



**Photo # 20**



14. While checking for appropriate slack in ABS lines, brake lines, differential vent hose & etc. Lower rear axle. **RUBICON Models:** Watch rear locker connections.

Remove OEM rear coil springs & upper coil spring isolators. (Photo # 21)

**Photo # 21**





15. **Optional Step:** For durability purposes, OEM lower shock bracket can be welded completely around OEM axle.

(Photo # 22 & # 23)

**Note:** Grind smooth any burrs or sharp edges, then paint or undercoat all exposed metal.

Photo # 22

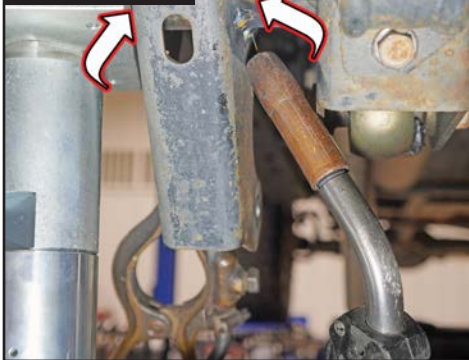


Photo # 23



**Note:** Perform Steps 16-27 on One Side at a Time.

16. Skyjacker Upper Shock Brackets Are Side Specific:  
# G36RDU-B Driver Side & # G36RPU-B Passenger Side

Attach appropriate Skyjacker Upper Shock Bracket to upper OEM shock bracket\frame mount with OEM hardware using a 21mm socket\wrench. (Photos # 24) Secure, but **Do Not Completely Tighten** at this time.

Photo # 24



17. Use Skyjacker Bracket as a guide for remaining four (4) mounting holes to OEM frame.

Mark & center punch each mounting hole. (Photos # 25)

Drill out each mounting hole with a 5/16" drill bit. (Photo # 26) **Note:** Prior to drilling, check behind surface area being worked on for any wires, brake lines, fuel lines, hoses, etc that could be damaged.

18. Attach four (4) Skyjacker Bracket to drilled mounting holes with supplied 3/8" x 1" Thread Cutter Flange Bolts using a 9/16" socket\wrench. (Photo # 27 & # 28) Torque 30 ft-lbs.

Photo # 25



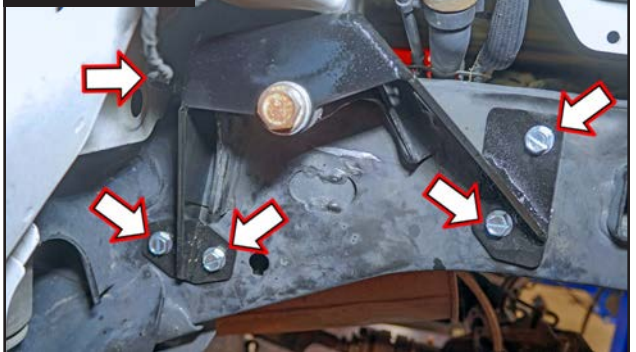
Photo # 26



Photo # 27



Photo # 28





19. Remove OEM hardware from Skyjacker Upper Shock Bracket using a 21mm socket\wrench.

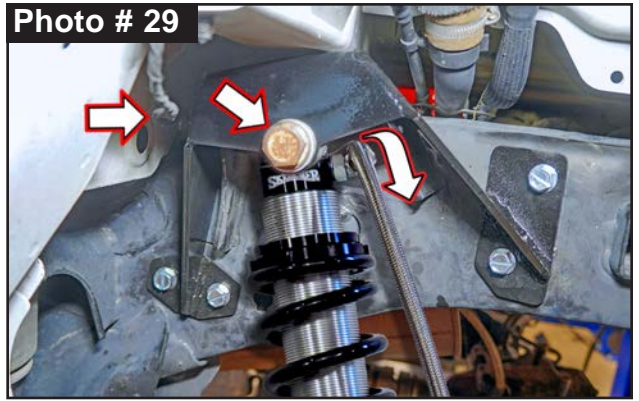
Skyjacker Rear Coilover Shocks Are Side Specific.

**Tech Note:** Coilover Shock Fitting, Reservoir Hose & Remote Reservoir Must Point Toward Rear of Vehicle. (Photo # 29)

Install Skyjacker Coilover Shock with one (1) supplied metal shock spacer\bushing on each side of upper shock mount.

Attach Skyjacker Coilover Shock to bracket\OEM frame with OEM hardware using a 21mm socket\wrench. (Photo # 29) Secure, but **Do Not Completely Tighten** at this time.

Photo # 29



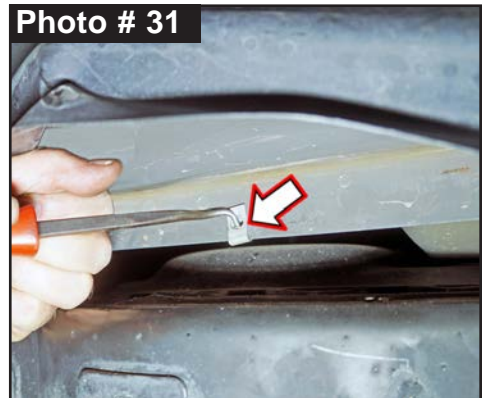
20. Connect OEM wiring harness clip to Skyjacker Upper Shock Bracket at forward hole mount. (Photo # 29)

21. Install Skyjacker Coilover Shock with one (1) supplied metal shock spacer\bushing on each side of lower shock mount. Attach Skyjacker Coilover Shock to OEM lower shock bracket with OEM hardware using a 21mm socket\wrench. (Photo # 30) Secure, but **Do Not Completely Tighten** at this time.

Photo # 30



Photo # 31



22. Remove second\middle OEM inner fender liner U-nut clip using a mechanic pick or standard screwdriver. (Photo # 31)

**Important Note:** If OEM rear inner fender liner was removed, it can be re-installed now.

**Note:** OEM rear inner fender liner Trimming May Be Required around Skyjacker Upper Shock Brackets & Each Reservoir Hose (Driver & Passenger Sides are trimmed in different points).

23. Skyjacker Remote Reservoir Brackets Are Side Specific:  
# G36RRD-B Driver & # G36RRP-B Passenger

Position appropriate Skyjacker Remote Reservoir Bracket onto second\middle OEM inner fender liner backing screw hole mount. (Photo # 32) Attach with supplied 3/8" x 1" Thread Cutter Flange Bolts using an impact wrench & 9/16" socket. Secure, but **Do Not Completely Tighten**.

24. Install first\forward OEM inner fender liner backing support screw into using an 8mm socket\wrench. (Photo # 33)

Use Skyjacker Bracket as a guide for second mounting hole. Mark\scrib & center punch mounting hole. (Photo # 33)

Photo # 32



Photo # 33



25. Using your punched marks as a guide, drill out mounting hole with a 5/16" drill bit. (Photo #

34) **Note:** Prior to drilling, check behind surface area being worked on for any wires, brake lines, fuel lines, hoses, etc.

Photo # 34

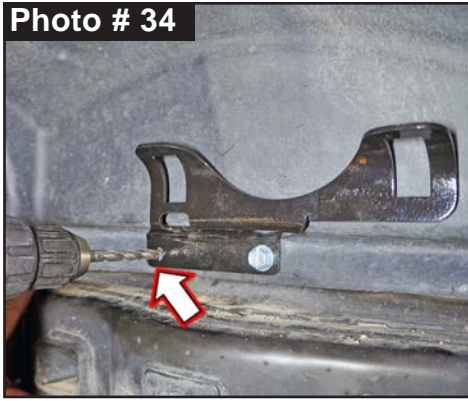
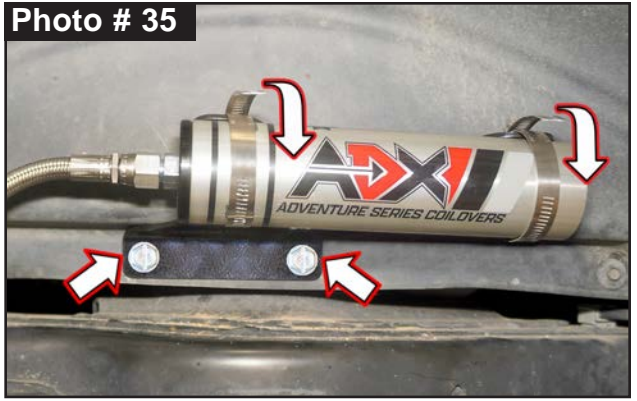


Photo # 35



26. Attach Skyjacker Bracket to drilled mounting hole

with supplied 3/8" x 1" Thread Cutter Flange Bolts using an impact wrench & 9/16" socket. (Photo # 35) Torque Both Cutter Flange Bolts 30 ft-lbs.

27. Place Skyjacker remote reservoir into cradle of reservoir bracket. Attach reservoir to bracket with two (2) supplied # 40 Hose Clamps. (Photo # 35) **Note:** Route clamps around over top of bracket & back through bracket cut-out then around reservoir.

Attach using a standard screwdriver or 5/16" socket \ wrench. (Photo # 35) Torque 180 in-lbs.

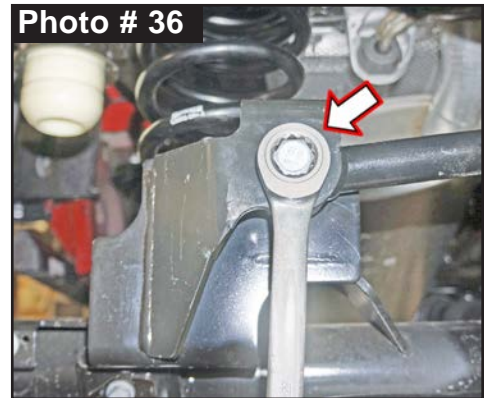
**Tech Note:** You can position or roll hose clamp rearward to hide bolts from view.

**Note:** Perform Steps 16-27 on Opposite Side at a this Time, Then Proceed to Step 28.

28. Connect OEM rear track bar to OEM lower track bar axle mount with OEM bolt & tab nut using a 21mm socket \ wrench. (Photo # 36) Secure, but **Do Not Completely Tighten**. **Note:** Install OEM bolt from rear-to-front of vehicle.

**Tech Note:** It may be necessary to raise \ lower axle to align track bar bolt. Secure, but **Do Not Completely Tighten**.

Photo # 36



29. Connect OEM ABS sensor to brake caliper bracket using a 8mm socket \ wrench. (Photo # 37) Torque 30 ft-lbs.

Connect OEM ABS bracket to axle mount using a 10mm socket \ wrench. (Photo # 38) Torque 30 ft-lbs.

Re-clip all ABS line rubber grommets to OEM brake line rubber keepers. (Photo # 38)

30. Connect OEM differential vent tube plastic clip to vehicle upper tub mount. (Photo # 39)

Photo # 37

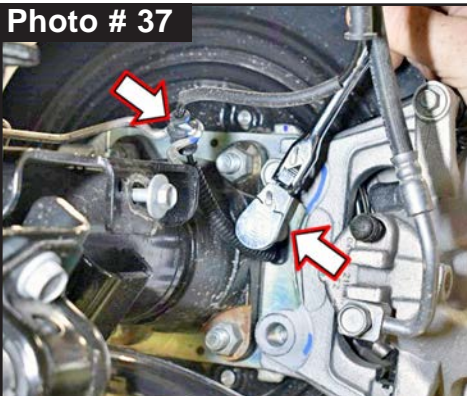


Photo # 38

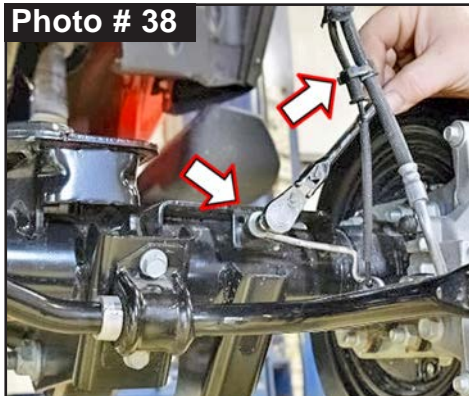


Photo # 39





31. **Rubicon Models:** Reconnect OEM rear locker wiring harness to side of center differential housing. (Photo # 40)

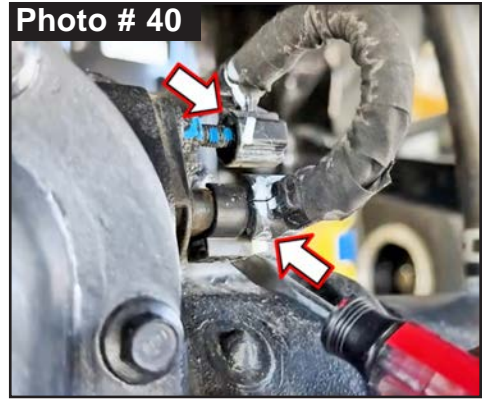
**Tech Note:** Pull out on connector to verify that it is securely plugged in properly.

Attach OEM plastic retainer to stud on side of differential housing. (Photo # 40)

Follow OEM locker wiring harness up & reattach OEM wiring harness clamps to OEM emergency brake cable.

Continue up OEM locker wiring harness & re-clip two (2) wiring harness clips to driver side inner frame rail above axle.

Photo # 40



32. Connect OEM brake line bracket at frame mount using a 10mm socket \ wrench. (Photo # 41)  
Torque 30 ft-lbs.

33. Connect OEM sway bar end link upper link at outside frame using a 21mm socket \ wrench. (Photo # 42) Secure, but **Do Not Completely Tighten**.

Connect OEM sway bar end link lower link at sway bar using a 6mm hex key socket \ wrench & 18mm socket \ wrench. Secure, but **Do Not Completely Tighten**. (Photo # 43)

Photo # 41

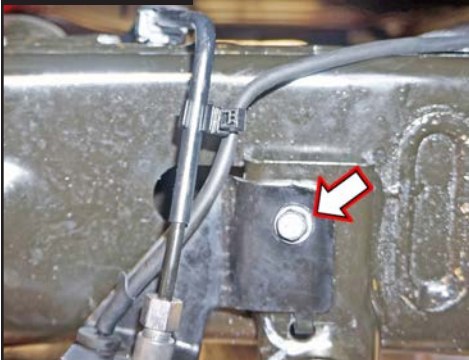


Photo # 42

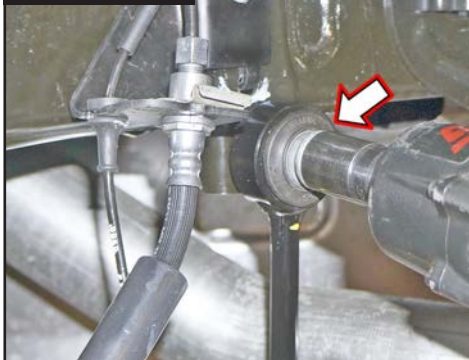


Photo # 43



34. Install rear tires \ wheels using a 22mm socket. Lower vehicle to ground. Torque lugs to OEM service manual specifications.

### **Final Clearance Check & Torque Steps:**

1. Start vehicle. Make sure there are no dash lights pertaining to suspension.
2. Jounce vehicle a couple of times. This will help suspension settle to new ride height. Cycle steering lock-to-lock & check all components for proper operation & clearances. Pay special attention to clearance between tires \ wheels & ADX Coilover Shocks & Reservoirs, control arms, brake hoses, ABS wiring, etc.

**CAUTION:** Make Sure ADX Coilover Reservoir \ Reservoir Hose Does Not & Will Not Make Contact with Anything Throughout Full Travel Cycle of Suspension. (Tire \ wheel, frame rail, frame brackets, springs, brake lines, exhaust, etc.) For proper clearance, it may be necessary to change location or orientation of reservoir on shock body.

### 3. Rear Tighten & Torque Sequence.

OEM rear track bar to OEM lower track bar axle mount using a 21mm socket\wrench.  
Torque 130 ft-lbs.

Skyjacker Coilover Shock to bracket\ OEM frame using a 21mm socket\wrench.  
Torque 90 ft-lbs.

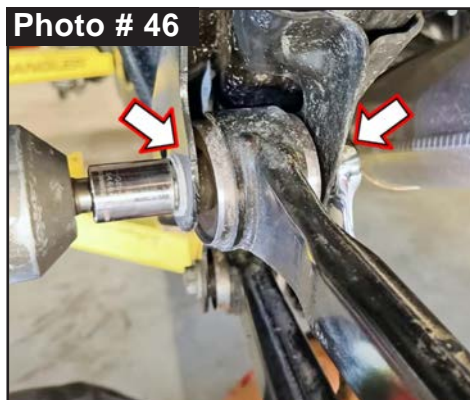
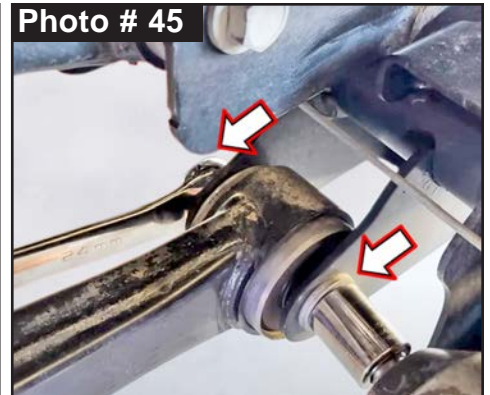
Skyjacker Coilover Shock to OEM lower shock bracket using a 21mm socket\wrench.  
Torque 90 ft-lbs.

OEM sway bar end link upper link at outside frame using a 21mm socket\wrench. Tighten bushings until bushing starts to swell slightly.

OEM sway bar end link lower link at sway bar using a 6mm hex key socket\wrench & 18mm socket\wrench. Torque 90 ft-lbs.

OEM upper & lower control arm links at rear OEM axle mounts using a 21mm & 24mm socket\wrench.  
(Photo # 44 & # 45)

OEM upper & lower control arm links at front OEM frame mounts using a 21mm & 24mm socket\wrench.  
(Photo # 46 & # 47)



### Adjusting Coilover Lift Height:

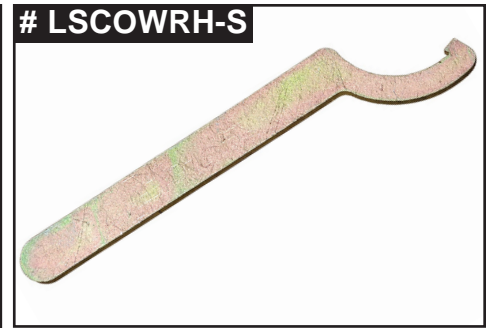
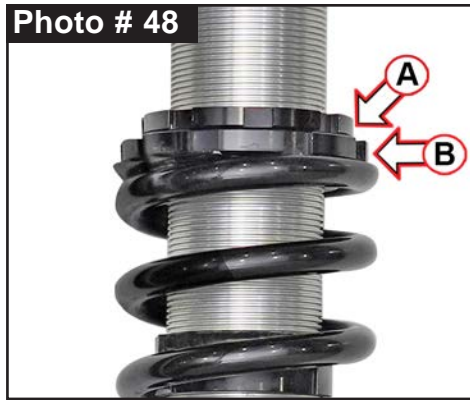
**Notes:** Reference your before & after measurements noted on Page 1 of these instructions.

Raise lift height by compressing Skyjacker Coilover upper coil spring. To raise vehicle height, turn coilover collars down shock body.

1. With vehicle on flat level ground, set emergency brake & chock front tires\wheels. Raise rear of vehicle, support frame rails using jack stands at indicated lift points in OEM service manual.
2. Remove rear tires\wheels using a 22mm socket. Make sure Skyjacker Coilover Shocks are fully extended with as much weight off coil springs as possible.



3. To adjust coilovers, first unlock Upper Collar A by turning it left \ clock-wise using # LSCOWRH-S Spanner Wrench. (Photo # 48) **Tech Note:** Amount of preload \ adjustment does not directly equal amount of lift you will achieve due to weight variances side-to-side (battery, gas tank, or aftermarket modifications, etc.). 1" of preload does not equal 1" of lift height.



Use Spanner Wrench to turn Lower Collar B right \ counter clock-wise to compress upper coil spring down. It does require a physical effort to rotate \ compress coil spring.

### **Final Notes:**

- After installation is complete, double check that all nuts & bolts are tight. Refer to following chart for proper torque specifications. (**Note:** Do not re-tighten nuts & bolts where thread lock compound was used.)
- With vehicle placed on ground, cycle steering lock to lock & inspect steering, suspension, brake lines, front & rear drivelines, fuel lines & wiring harnesses for proper operation, tightness & adequate clearance.
- Have headlights readjusted to proper settings.
- Have a qualified alignment center align vehicle to OEM specifications.
- After first 100 miles, check all hardware for proper torque & periodically thereafter.

<b>TORQUE SPECIFICATIONS</b>					
<b>INCH SYSTEM</b>			<b>METRIC SYSTEM</b>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
5/16	180 in-lbs	240 in-lbs	6MM	60 in-lbs	108 in-lbs
3/8	30 ft-lbs	35 ft-lbs	8MM	216 in-lbs	23 ft-lbs
7/16	45 ft-lbs	60 ft-lbs	10MM	32 ft-lbs	45 ft-lbs
1/2	65 ft-lbs	90 ft-lbs	12MM	55 ft-lbs	75 ft-lbs
9/16	95 ft-lbs	130 ft-lbs	14MM	85 ft-lbs	120 ft-lbs
5/8	135 ft-lbs	175 ft-lbs	16MM	130 ft-lbs	165 ft-lbs
3/4	185 ft-lbs	280 ft-lbs	18MM	170 ft-lbs	240 ft-lbs
<b>Above Specifications Are Not to Be Used When Bolt Is Being Installed With a Bushing.</b>					

**Seat Belts Save Lives, Please Wear Your Seat Belt.**

# SKYJACKER

## SUSPENSIONS

SKYJACKER.COM

Check Out Our Favorite Ministries at:

- [innministries.org](http://innministries.org)
- [familychurch.org](http://familychurch.org)
- [kcm.org](http://kcm.org)

## Jesus Christ Died For You.

John 3:16

For God so loved the world that He gave His only Son, so that everyone who believes in Him should not perish, but have everlasting life.

Romans 3:23

For all have sinned; all fall short of God's glorious standard.

Ephesians 2:8

God saved you by his special favor when you believed. And you can't take credit for this; it is a gift from God.

Psalms 18:2

The Lord is my Rock, my fortress, and my savior; my God is my Rock, in whom I find protection. He is my shield, the strength of my salvation, and my stronghold.

Romans 10:9-10

That if you shall confess with thy mouth the Lord Jesus, and shall believe in your heart that God hath raised him from the dead, you shall be saved. For with the heart man believeth unto righteousness; and with the mouth confession is made unto salvation.

Pray This Simple Prayer:

God, I come to You admitting I have sinned against You and I need you to take control of my life. The Bible says anyone who calls on the name of the Lord will be saved.

I am calling on You, Jesus. I ask that You come live in my heart and be the Lord over my life today. I do believe You died on the cross for me and came back to life to give me life! Thank You, Lord Jesus for a new life in You! Amen.

Now, go and tell somebody about your new life in Jesus, get a Bible, begin to read it, and go to a Bible believing church.

If you would like someone to pray with you, call Kenneth Copeland Ministries anytime at 800-600-7395.

To listen to commercial free Christian radio on the web, go to [www.887fm.org](http://www.887fm.org)



**JESUS  
FORGIVES  
ROCKS  
DON'T**

## Jesús murió por ti.

Juan 3:16

Porque tanto amó Dios al mundo, que dio a su Hijo unigénito, para que todo el que cree en él no se pierda, sino que tenga vida eterna.

Romanos 3:23

Pues todos han pecado y están privados de la gloria de Dios.

Efesios 2:8

Porque por gracia ustedes han sido salvados mediante la fe; esto no procede de ustedes, sino que es el regalo de Dios.

Salmos 18:2

El Señor es mi roca, mi amparo, mi libertador; es mi Dios, el peñasco en que me refugio. Es mi escudo, el poder que me salva, ¡mi más alto escondite!

Romanos 10:9-10

Que si confiesas con tu boca que Jesús es el Señor, y crees en tu corazón que Dios lo levantó de entre los muertos, serás salvo. Porque con el corazón se cree para ser justificado, pero con la boca se confiesa para ser salvo.

Ahora dí esta simple oración:

Dios, vengo a Ti y admito que he pecado contra Ti, necesito que tomes el control de mi vida. La Biblia dice que todo aquel que invoca el nombre del Señor escapará con vida. En este momento yo clamo ante Ti, Jesús; te pido que vengas a vivir en mi corazón y que tomes el control de mi vida. ¡Yo creo que tu moriste en la cruz y resucitaste para darme vida! ¡Gracias Señor Jesús, por una nueva vida que tengo en Ti! Amén.

Ahora ve y dile a alguien sobre la nueva vida que tienes en Cristo. Compra una Biblia y empieza a leerla. Busca una Iglesia que cree en la Biblia y hazte parte de esa Iglesia.

Si te gustaría orar con alguien, puedes llamar a este número 800-600-7395

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