

SKYJACKER

SUSPENSIONS

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2019> Chevy Silverado 1500 Trail Boss 4WD
2022> Chevy Silverado 1500 ZR2 4WD
2019> Chevy Sierra 1500 AT4 4WD
2022> Chevy Sierra 1500 AT4X 4WD

1.5" Suspension Leveling Kit Installation Instructions

Required Tools List:

- Standard Sockets \ Wrenches (7/16")
- Metric Sockets \ Wrenches (10mm, 15mm, 18mm, 21mm, 22mm)
- Tie Rod Puller Tool
- Strut Spring Compressor
- Ball Peen Hammer
- Grease Gun
- Adjustable Pliers
- Pry Bar
- Safety Glasses
- Wheel Chock
- Floor Jack
- Jack Stands
- Measuring Tape
- Paint Marker
- 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: _____ / _____
BEFORE / AFTER

Passenger Side Front: _____ / _____
BEFORE / AFTER

Driver Side Rear: _____ / _____
BEFORE / AFTER

Passenger Side Rear: _____ / _____
BEFORE / AFTER

Important Notes:

CAUTION: Take caution when installing aftermarket wheels. These vehicles have fixed 4-piston calipers & require a concave spoke designed wheel for clearance. Make sure wheels completely clear brake caliper. Any pressure from wheel on brake caliper will cause an error in OEM braking system & it will not function properly. Vehicle will have to be reset by a GM dealership.

- This Suspension Lift Was Developed Using 275/75R18 Tires with OEM 18x8.5 Wheels. If Wider Tires Are Used, Offset Wheels Will Be Required.
- If Larger Tires (10% More Than OEM Diameter) Are Installed, Speedometer Recalibration Will Be Necessary. Contact Your Local GM Dealer or an Authorized Skyjacker® Dealer for Details.
- If Equipped, Advanced Driver Assistance Systems (ADAS) Recalibration May Be Necessary. Contact Your Local GM Dealer or an Authorized Skyjacker® Dealer for Details.
- After Installation, a Qualified Alignment Facility Is Required to Align Vehicle to OEM Specifications.

Kit Box Breakdown:**Part # C19150**

Item #	Description	Qty
GM19352UCA-L	UPPER CONTROL ARM, DR	1
GM19352UCA-R	UPPER CONTROL ARM, PA	1
H-BOX C19150	HDWR BOX: FOR C19150	1

Hardware Box Breakdown:**Part # H-BOX 19150**

Item #	Description	Qty
C19375FMS-S	STRUT SPACER, FRT, TOP	2
C21625CS-S	STRUT SPACER, FRT, PRELOAD	4
HB-10MM/NFN	10MM 1.5 N/I FLANGE LOCK NUT	1
HB-14ARM	HDWR BAG: UCA OEM ABS LINE	1

Hardware Bag Breakdown:**Part # HB-10MM/NFN**

Item #	Description	Qty
10MMX1.5NFN	10MM 1.5 N/I FLANGE LOCK NUT	6

Part # HB-14ARM

Item #	Description	Qty
14CTN	1/4 COARSE THRD N/I LOCK NUT	2
14SAEW	1/4 SAE WASHER	2

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

Tech Note: When you remove a OEM nut or bolt, like ABS fasteners, sway bar link, ball joint nut, etc, put it back into OEM position for safe keeping. You will not have to look or sort through removed hardware to find proper factory fastener.

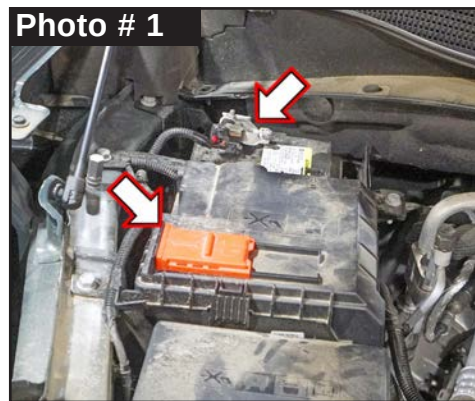
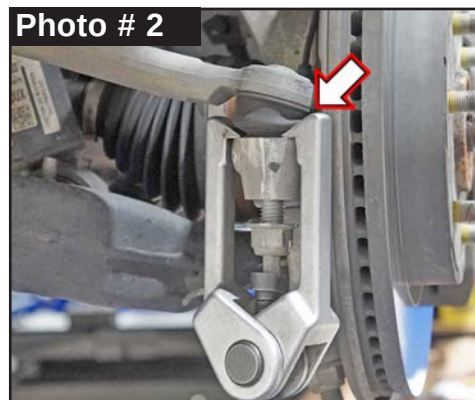
1. With vehicle on flat level ground, set emergency brake & chock rear tires \ wheels.
2. Raise front of vehicle, support frame rails using jack stands at indicated lift points in OEM service manual.
3. Remove front tires \ wheels using a 22mm socket \ wrench.
4. Open hood. First, disconnect ground terminal cable from battery. (Photo # 1) Next, disconnect positive terminal cable from battery. (Photo # 1).

Note: GM year make & models have various sway bar links, knuckles, brake lines designs. This removal is an example. It can vary, but removal process is similar.

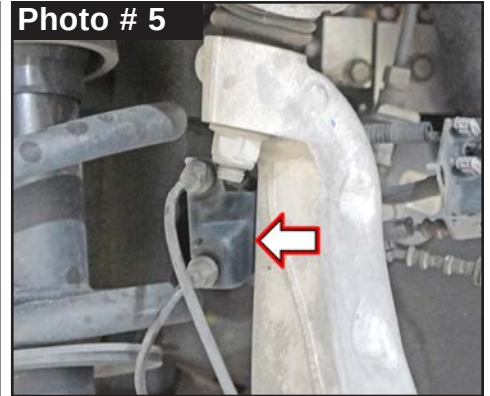
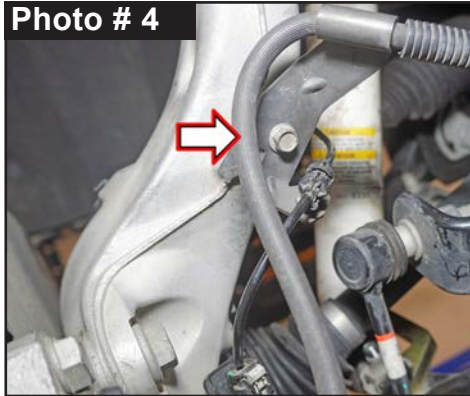
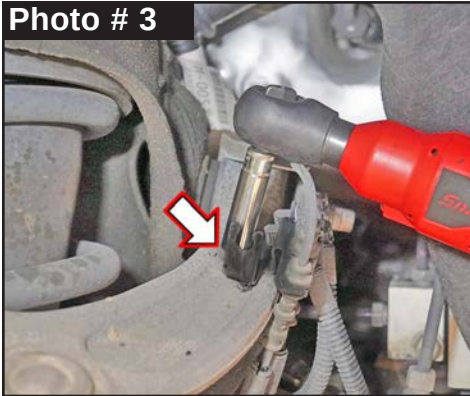
Note: Perform Steps 5-15 on One Side at a Time.

5. Disconnect OEM outer tie rod end bolt from OEM steering knuckle using a 21mm socket \ wrench. (Photo # 2)
Disconnect OEM outer tie rod end from OEM steering knuckle using a tie rod end puller tool.

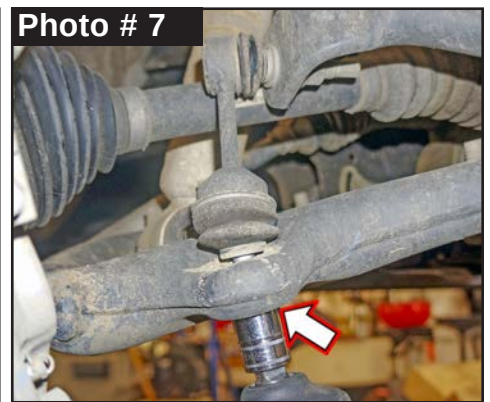
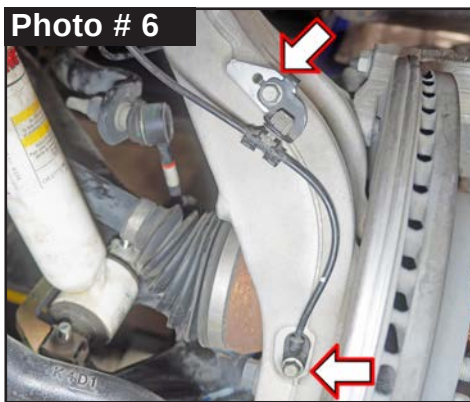
Tech Note: To unseat tie rod taper without puller tool, strike tie rod boss of knuckle at tie rod end with ball peen hammer to dislodge. **Note:** ONLY strike knuckle portion.

Photo # 1**Photo # 2**

6. Disconnect OEM ABS \ wheel speed sensor bracket from OEM Upper Control Arm (UCA) using a 10mm socket \ wrench. (Photo # 3)
7. Disconnect OEM brake line \ ABS line \ wheel speed sensor brackets from rearward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 4)
8. On driver side, disconnect OEM ABS \ wheel speed sensor bracket from inside of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 5)



9. Disconnect OEM wheel speed sensor line from forward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 6)
10. Disconnect OEM sway bar end link from OEM Lower Control Arm (LCA) using a 18mm socket \ wrench. (Photo # 7)

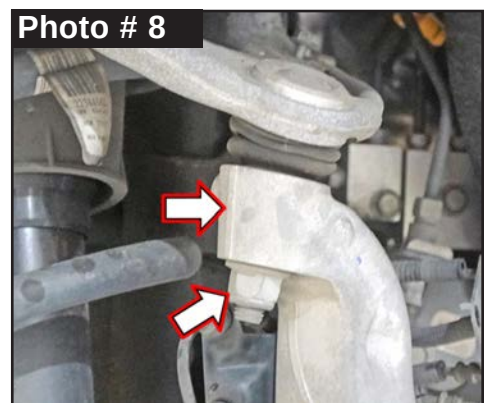


11. Support bottom of OEM LCA with jack. Loosen, but do not remove, upper OEM ball joint nut from OEM knuckle using a 18mm socket \ wrench. (Photo # 8) To unseat upper OEM ball joint taper, strike ball joint boss of knuckle using ball peen hammer to dislodge. **Note:** ONLY strike knuckle portion only. (Photo # 8)

Remove nut & remove ball joint from knuckle.

Tech Note: You may need to pry upper control arm down to disconnect ball joint.

While supporting OEM LCA, ease knuckle to rest back away from front strut. **CAUTION:** Do not let knuckle fall to side abruptly. It could cause damage to brake lines, etc.



12. On driver side, disconnect wiring harness clip from OEM upper strut forward nut. (Photo # 9)
Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \ wrench. (Photo # 10) **Note:** Do Not remove center strut rod nut.
Tech Note: On passenger side, back OEM upper strut mounting nut must be accessed from above through engine bay. (Photo # 11)

Photo # 9 **Driver Side**
Outer View



Photo # 10



Photo # 11 **Passenger Side**
Upper View



13. Remove two (2) OEM lower strut mounting bolts from bottom of OEM LCA mount using a 15mm socket \ wrench. (Photo # 12) Remove OEM strut assembly.
14. Remove OEM UCA hardware using a 21mm socket \ wrench. (Photo # 13) Remove OEM UCA.
15. **Note:** Skyjacker UCA Are Side Specific: Part number is on silver bar code label:
GM19352UCA-L Driver & # GM19352UCA-R Passenger.
- Install Skyjacker UCA to appropriate side of vehicle. Align location of OEM alignment cams with OEM hardware using a 21mm socket \ wrench. (Photo # 14) Torque 80 ft-lbs.

Photo # 12



Photo # 13

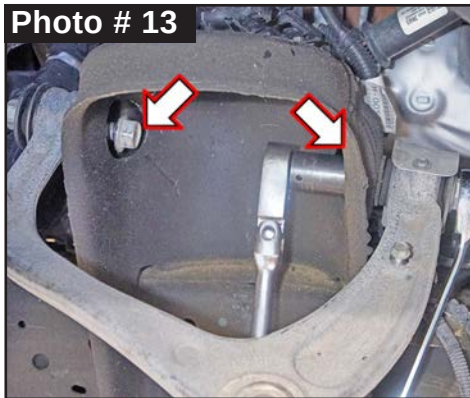
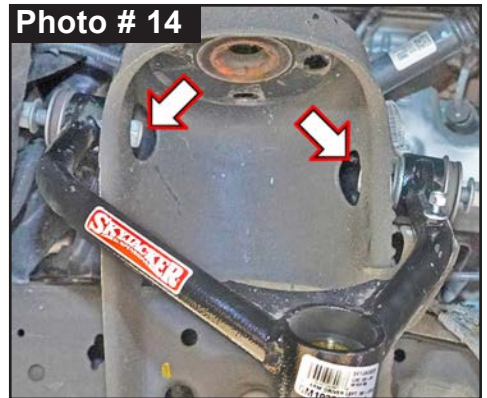


Photo # 14



NOTE: Perform Steps 5-15 on Opposite Side Now. Then Proceed to Step 16.

16. Place OEM strut into a suitable strut spring compressor.
- Note:** For proper reassembly, mark top hat upper strut mounting isolator, rubber isolator & coil spring at top of strut. (Photo # 15) Mark lower strut coil seat, isolator & coil spring at middle of strut. (Photo # 15) Compress coil spring on strut assembly. Leave strut in spring compressor.
17. Slide lower OEM coil spring isolator up on strut cylinder. (Photo # 16)

Photo # 15

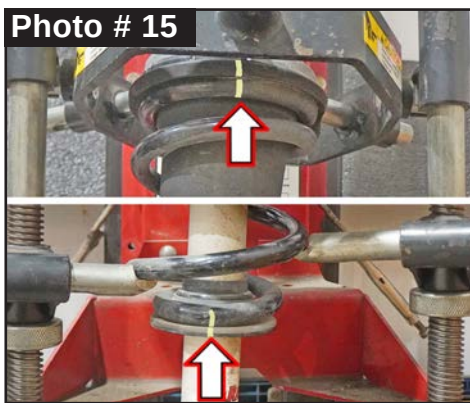
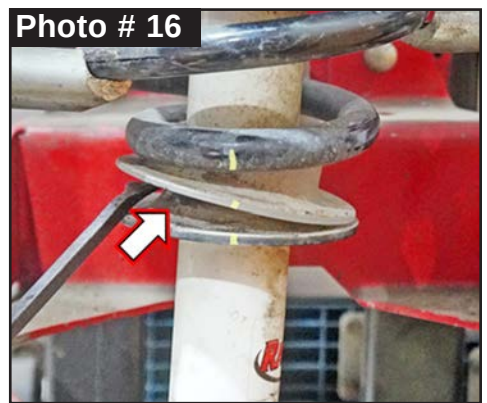


Photo # 16

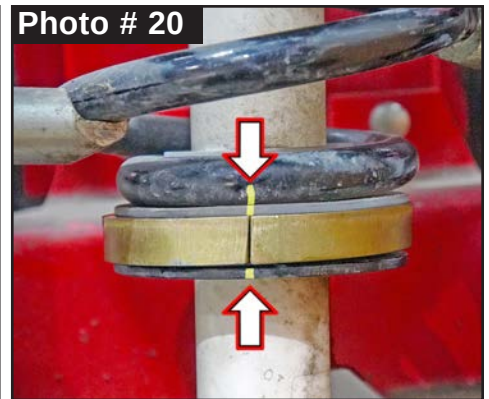
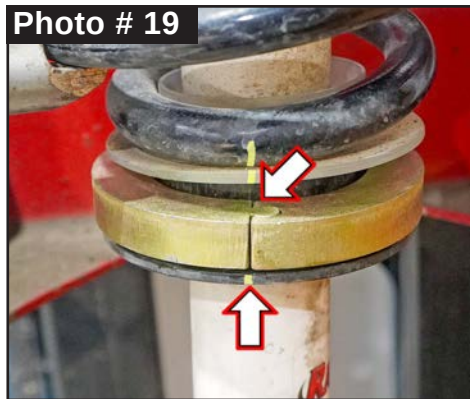
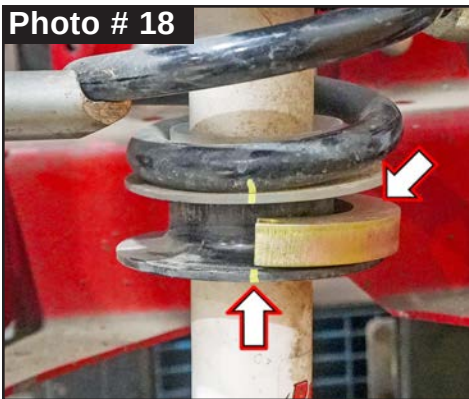


18. **Note:** Skyjacker # C21625CS-S Front Preload Spacers have a "chamfer" edge on inner circle. Chamfer mounts onto lower coil spring seat. (Photo # 17)

Place one (1) Skyjacker Preload Spacer onto lower coil spring seat. (Photo # 18)

Place second Skyjacker Preload Spacer so that alignment tabs interlock. (Photo # 19)

Align lower OEM coil spring isolator to strut cylinder. (Photo # 20) **Note:** Make sure that your 'marks' align.

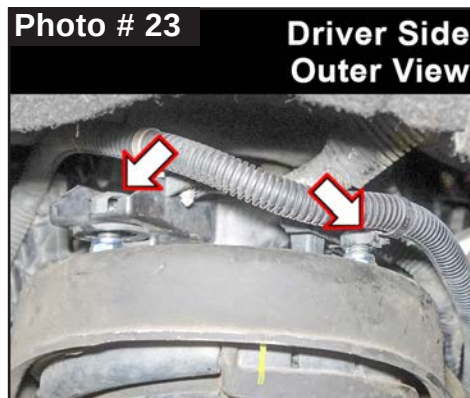
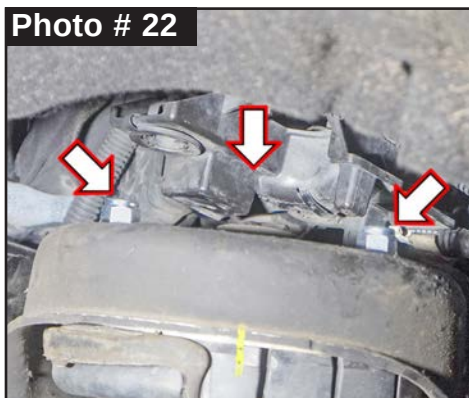
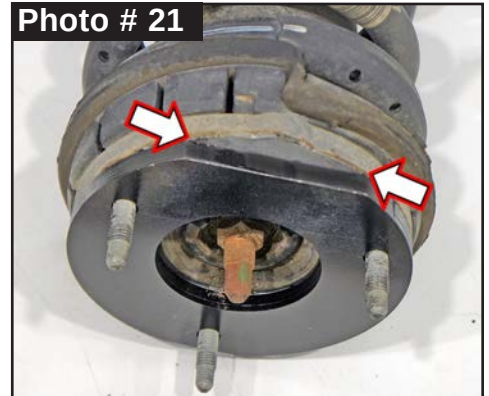


19. Install Skyjacker # C19375FMS-S Upper Strut Spacer on top of Skyjacker \ OEM strut assembly. (Photos # 21) **Note:** Flat portion of Strut Spacer aligns to outside of strut.

Note: Perform Steps 20-29 on One Side at a Time.

20. Install Skyjacker \ OEM strut assembly into upper strut mount at frame. Attach with supplied three (3) 10mm Nylon Insert Flange Nuts using a 18mm socket \ wrench. (Photo # 22) Torque 25 ft-lbs.

On driver side, connect OEM wiring harness clip to OEM upper strut forward nut. (Photo # 23)



22. While supporting OEM LCA with a jack, connect Skyjacker UCA to OEM steering knuckle. (Photo # 25) While connecting upper ball joint, be sure CV shaft aligns properly into hub.

Tech Note: You may need to pry UCA down to connect ball joint.

Attach Skyjacker UCA ball joint to OEM knuckle with supplied castle nut using a 18mm socket \ wrench. **Note:** Ensure castle nut & cotter pin align properly into Skyjacker UCA ball joint. Never loosen castle nut to align cotter pin; always tighten.

23. Grease Skyjacker UCA ball joint using a grease gun.

CAUTION: Skyjacker UCA Ball Joint is not fully greased from factory. GREASE Must Be Added to Skyjacker UCA Ball Joint using a grease gun. (Photo # 26)



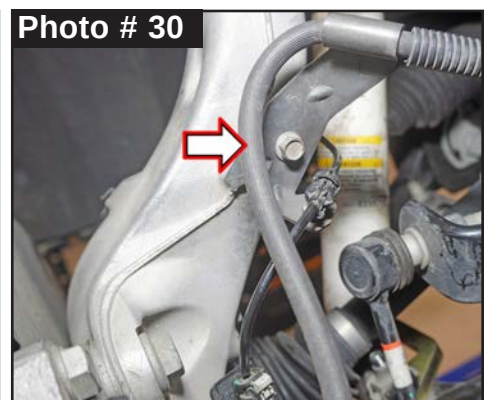
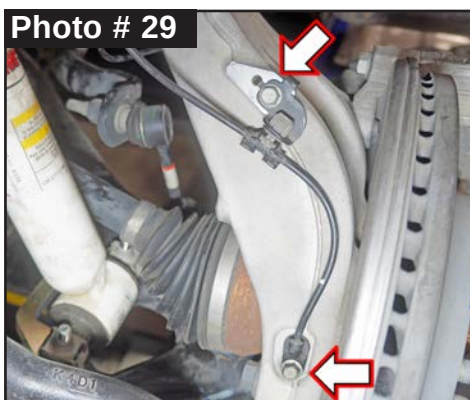
24. Connect OEM ABS line bracket to Skyjacker UCA with supplied 1/4" SAE Washer with 1/4" Coarse Nylon Insert Lock Nut using a 7/16" socket \ wrench. (Photo # 27)



25. On driver side, connect OEM ABS \ wheel speed sensor bracket to inside of OEM steering knuckle with OEM bolt using a 10mm socket \ wrench. (Photo # 28)

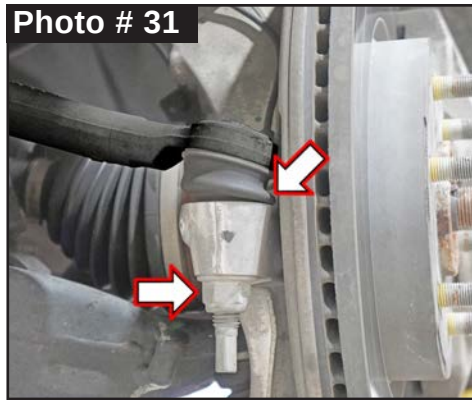
Attach OEM brake line \ speed sensor lines while checking for appropriate slack.

26. Connect OEM wheel speed sensor line to forward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 29)

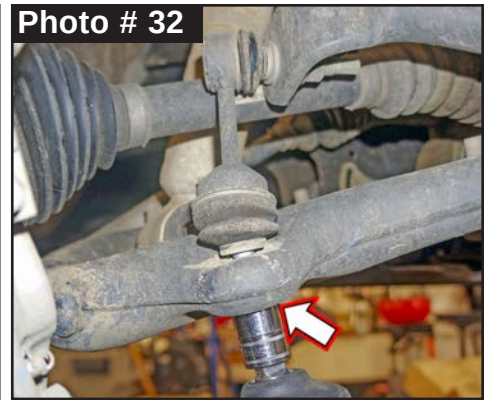


27. Connect OEM brake line \ ABS line \ wheel speed sensor brackets to rearward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 30)

28. Connect OEM outer tie rod end bolt to OEM steering knuckle using a 21mm socket \ wrench. (Photo # 31) Torque 32 ft-lbs.



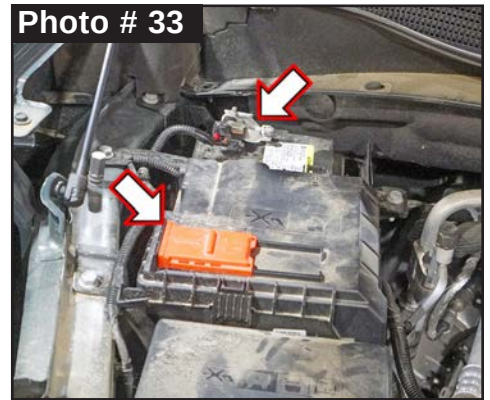
29. Connect OEM sway bar end link to OEM LCA with OEM hardware using a 18mm socket. (Photo # 32) Secure, but **Do Not Completely Tighten**.



Note: Perform Steps 20-29 on Opposite Side Now. Then Proceed to Step 30.

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

31. Connect positive terminal cable to battery using a 10mm socket \ wrench. (Photo # 33)
Connect ground terminal cable to battery using a 10mm socket \ wrench. (Photo # 33)



Final Front 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, strut assembly, control arms, brake hoses, ABS wiring, etc.
3. **Front Tighten & Torque Sequence.**
Skyjacker \ OEM strut to upper mount using a 18mm socket \ wrench. Torque 25 ft-lbs.
Skyjacker \ OEM strut to lower mount using a 15mm socket \ wrench. Torque 45 ft-lbs.
Tie rod end to steering knuckle using a 21mm socket \ wrench. Torque 65 ft-lbs.
Sway bar end link to sway bar using a 18mm socket \ wrench. Torque 35 ft-lbs.

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.

TORQUE SPECIFICATIONS					
INCH SYSTEM			METRIC SYSTEM		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	180 in-lbs	240 in-lbs	6MM	102 in-lbs	108 in-lbs
3/8	30 ft-lbs	35 ft-lbs	8MM	16 ft-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
Above Specifications Are Not to Be Used When Bolt Is Being Installed With a Bushing.					

Seat Belts Save Lives, Please Wear Your Seat Belt.

