

# SKYJACKER

## SUSPENSIONS

SKYJACKER.COM

2021> Chevy Tahoe 4WD  
2021> Chevy Suburban 1500 4WD  
2021> GMC Yukon 4WD  
2021> GMC Yukon XL 1500 4WD  
**3" Suspension Lift**

### Required Tools List:

- Standard Sockets \ Wrenches (7/16")
- Metric Sockets \ Wrenches (7mm, 10mm, 13mm, 15mm, 18mm, 21mm, 22mm & 24mm)
- Tie Rod Puller Tool
- Strut Spring Compressor
- Standard Screwdriver
- Ball Peen Hammer
- Mechanic Pick Tool
- Needle Nose Pliers
- Grease Gun
- Cut-Off Tool
- T15 Torx Bit
- Wheel Chock
- Jack Stands
- Paint Marker
- Rubber Mallet
- Pliers
- Safety Glasses
- Floor Jack
- 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: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

Passenger Side Front: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

Driver Side Rear: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

Passenger Side Rear: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

### Important Notes:

- This Suspension Lift is NOT Designed to Fit Following Models:
  - Chevrolet High Country or Premier Models (Except Part # C2130VM)
  - GMC AT4 or Denali Models (Except Part # C2130VM)
  - Chevrolet or GMC Models With Adaptive Ride Control
  - Chevrolet or GMC Models With All Wheel Drive
  - Chevrolet or GMC Models With Magnaride \ Magnetic Ride Control (Except Part # C2130VM)
  - Chevrolet or GMC Models With Super Cruise or Ultra Cruise

- This Suspension Lift Was Developed Using 275/60R20 Tires with OEM 20x9 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.

### Component Box Breakdown:

#### Part # C2130V

| Item #       | Description      | Qty |
|--------------|------------------|-----|
| GM19352UCA-L | UCA, DR \ LEFT   | 1   |
| GM19352UCA-R | UCA, PA \ RIGHT  | 1   |
| H-BOX C2130V | HDWR BOX: C2130V | 1   |

#### Part # C2130VM

| Item #        | Description       | Qty |
|---------------|-------------------|-----|
| GM19352UCA-L  | UCA, DR \ LEFT    | 1   |
| GM19352UCA-R  | UCA, PA \ RIGHT   | 1   |
| H-BOX C2130VM | HDWR BOX: C2130VM | 1   |

### Hardware Box Breakdown:

#### Part # H-BOX C2130V

| Item #      | Description                 | Qty |
|-------------|-----------------------------|-----|
| GM2120MS-S  | STRUT SPACER, FRONT, 1.5"   | 2   |
| GM2120RMS-S | STRUT SPACER, REAR, 1.5"    | 2   |
| GM21500CS-S | PRELOAD SPACER, RR, 0.500"  | 2   |
| GM21625CS-S | PRELOAD SPACER, FRT, 0.625" | 2   |
| HB-C2130V   | HDWR BAG: C2130V            | 1   |

#### Part # H-BOX C2130VM

| Item #      | Description                 | Qty |
|-------------|-----------------------------|-----|
| C21625CS-S  | PRELOAD SPACER, FRT, 0.625" | 8   |
| GM2120MS-S  | STRUT SPACER, FRONT, 1.5"   | 2   |
| GM2115RMS-S | STRUT SPACER, REAR, 1.5"    | 2   |
| HB-C2130MRC | HDWR BAG: C2130 MAGNERIDE   | 1   |
| HB-C2130V   | HDWR BAG: C2130V            | 1   |

### Hardware Bag Breakdown:

#### Part # HB-C2130V

| Item #      | Description                  | Qty |
|-------------|------------------------------|-----|
| 10MMX1.5NFN | 10MM X 1.5 N/I FLANGE NUT    | 16  |
| 10MMPN      | 10MM X 1.5 PUSH NUT          | 1   |
| 14CTN       | 1/4 COARSE THRD N/I LOCK NUT | 2   |
| 14SAEW      | 1/4 SAE WASHER               | 2   |
| 38X114FW    | 3/8 X 1-1/4 FENDER WASHER    | 1   |

#### Part # HB-C2130MRC

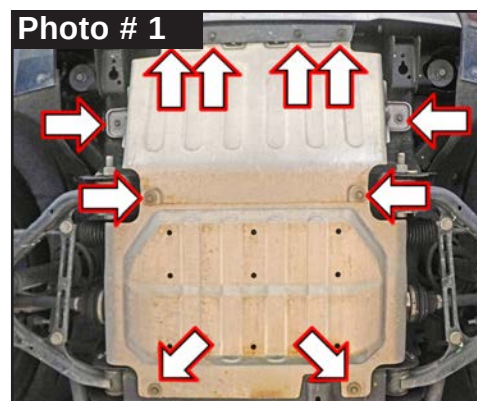
| Item #     | Description                  | Qty |
|------------|------------------------------|-----|
| C2130BPS-D | BRAKE PAD SENSOR BRKT        | 1   |
| C2130MRC-D | MAGNERIDE CONTROL BRKT, DR   | 1   |
| C2130MRC-P | MAGNERIDE CONTROL BRKT, PA   | 1   |
| 14X34CTBG5 | 1/4 X 3/4 COARSE THREAD BOLT | 2   |
| 14CTN      | 1/4 COARSE THRD N/I LOCK NUT | 2   |
| 14SAEW     | 1/4 SAE WASHER               | 4   |

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

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.
4. Remove two (2) OEM front skid plates located in front & under front differential. (Photo # 1)

Remove front four (4) front bolts using a 7mm socket \ wrench.

Remove six (6) OEM bolts using a 13mm socket \ wrench.





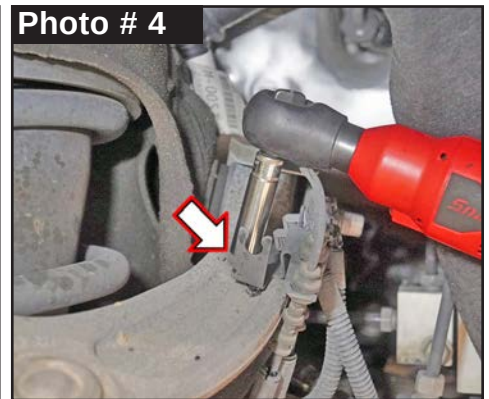
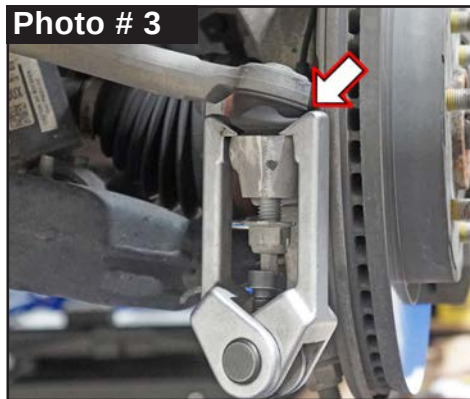
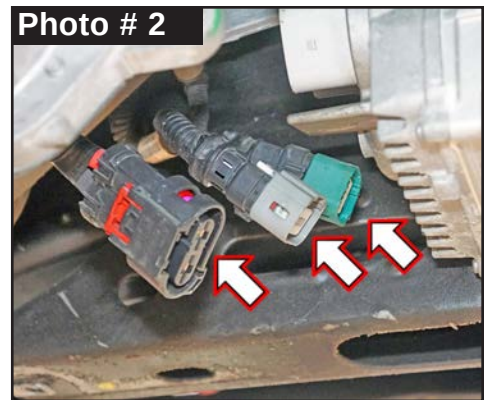
5. Disconnect three (3) EPAS plugs on steering assembly next to front differential. (Photo # 2) **Tech Note:** Red safety lock clip must be slid rearward to unlock. Press & hold rearward tang down, grab connector & pull away while from plug-in.

**Note:** Perform Steps 6-24 on One Side at a Time.

6. Disconnect OEM outer tie rod end bolt from OEM steering knuckle using a 21mm socket \ wrench. (Photo # 3)  
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.

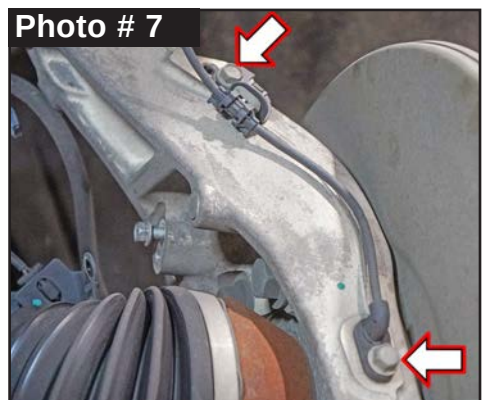
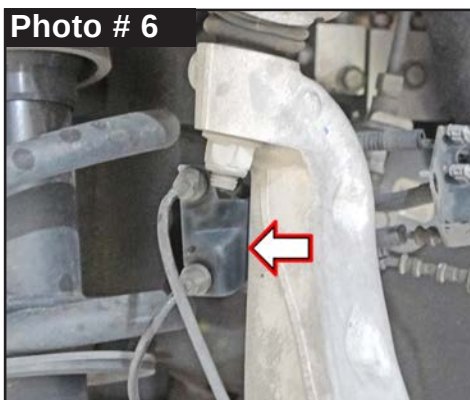
7. Disconnect OEM ABS \ wheel speed sensor bracket from OEM Upper Control Arm (UCA) using a 10mm socket \ wrench. (Photo # 4) **Proceed to Step 8.**



**NOTE:** Models Equipped with Magneride \ Magnetic Ride Control, Proceed to Step 11.

8. Disconnect OEM brake line \ ABS line \ wheel speed sensor brackets from rearward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 5)  
9. On driver side, disconnect OEM ABS \ wheel speed sensor bracket from inside of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 6)  
10. First, disconnect OEM ABS line bracket from forward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 7) Retain OEM hardware.

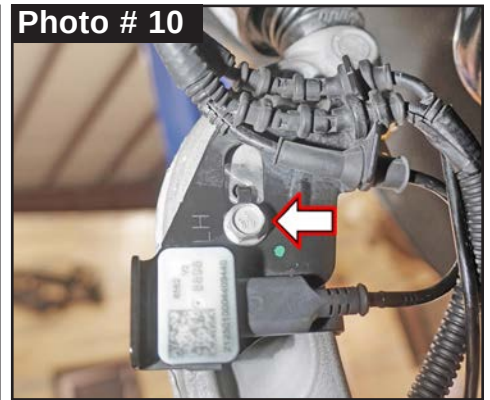
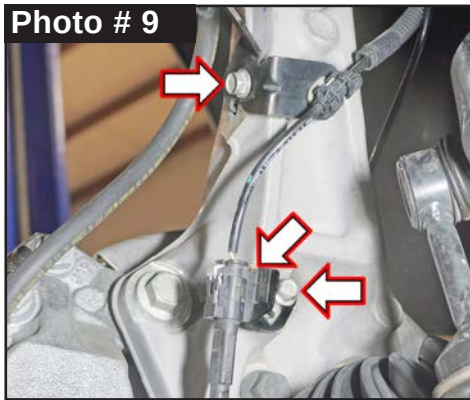
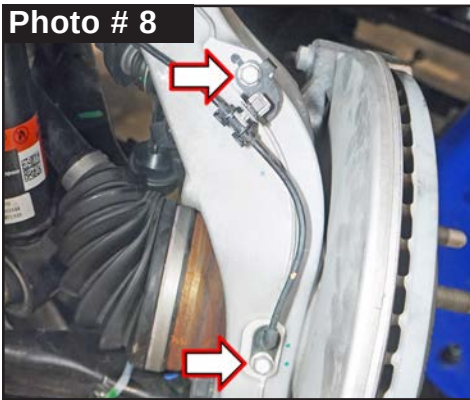
Next, disconnect OEM wheel speed sensor line from OEM steering knuckle using a 10mm socket \ wrench. (Photo # 7) Retain OEM hardware. **Proceed to Step 15.**



11. First, disconnect OEM ABS line bracket from forward side of OEM steering knuckle using a 10mm socket \wrench. (Photo # 8) Retain OEM hardware.

Next, disconnect OEM wheel speed sensor line from OEM steering knuckle using a 10mm socket \wrench. (Photo # 8) Retain OEM hardware.

12. On driver side, disconnect OEM brake pad sensor clip from OEM bracket on inside of OEM steering knuckle using pliers. (Photo # 9) Remove OEM brake pad sensor bracket from OEM steering knuckle using a 10mm socket \wrench. Retain OEM hardware.
13. Disconnect OEM brake line \brake sensor bracket from rearward side of OEM steering knuckle using a 10mm socket \wrench. (Photo # 9)
14. Disconnect OEM ABS \MagneRide control sensor harness bracket & cables from rearward side of OEM steering knuckle boss using a 10mm socket \wrench. (Photo # 10) **Proceed to Step 15.**



15. Disconnect OEM sway bar end link from OEM lower control arm using a 18mm socket \wrench. (Photo # 11)

16. Support bottom of OEM Lower Control Arm (LCA) with jack. Loosen, but do not remove, upper OEM ball joint nut from OEM knuckle using a 18mm socket \wrench. (Photo # 12)

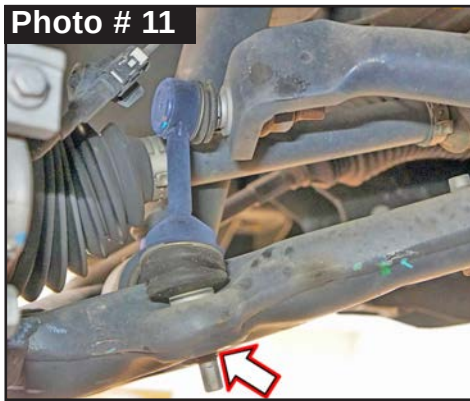
To unseat upper OEM ball joint taper, strike ball joint boss of knuckle using ball

peen hammer to dislodge. **Note:** ONLY strike knuckle portion only.

Remove nut & remove ball joint from knuckle. **Tech Note:** You may need to pry upper control arm down to disconnect ball joint.

17. 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 or pull CV axle shaft out. **Note:** Do Not Overextend CV Axle Shaft.

**Tech Note:** Use a bungee or ratchet strap to secure knuckle assembly from overextending.





**NOTE: Models Equipped with Magneride \ Magnetic Ride Control, Proceed to Steps 19-22.**

18. On driver side, disconnect wiring harness clip from OEM upper strut forward nut. (Photo # 13)

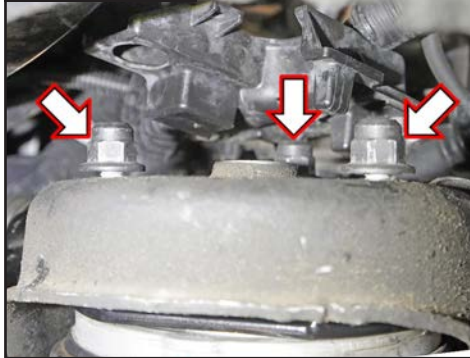
Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \ wrench. (Photo # 14) **Note:** Do Not remove center strut rod nut.

Remove two (2) OEM lower strut mounting bolts from bottom of LCA mount using a 15mm socket \ wrench. (Photo # 15) Remove OEM strut assembly. **Proceed to Step 23.**

**Photo # 13**



**Photo # 14**



**Photo # 15**



19. **Note:** Some Magneride models are equipped with upper wiring harness clip. (Photo # 16 & # 17) Other Magneride models are equipped with upper wiring harness clip enclosed inside a plastic covering. (Photo # 18 & #19)

20. Disconnect wiring harness clip from OEM upper strut forward nut. (Photo # 16)

21. Carefully release tabs \ latches on each side of OEM Magneride wiring plug cover using a small standard screwdriver or mechanic pick tool. (Photo # 16 & # 18)

Disconnect OEM Magneride wiring plug. **Note:** Red safety lock clip must be slid rearward to unlock. Press & hold rearward tang down, grab connector & pull away while from plug-in. (Photo # 19, 20, & # 21) **Tech Note:** You may need needle nose pliers to separate.

**Photo # 16**



**Photo # 17**



**Photo # 18**



**Photo # 19**



**Photo # 20**

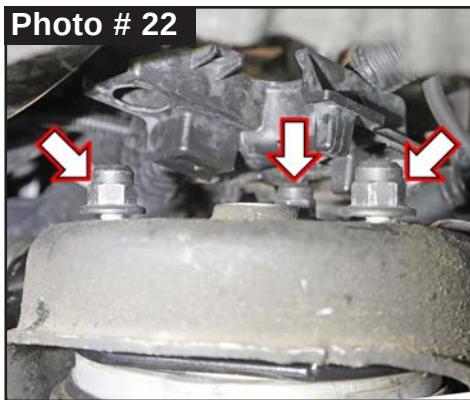


**Photo # 21**



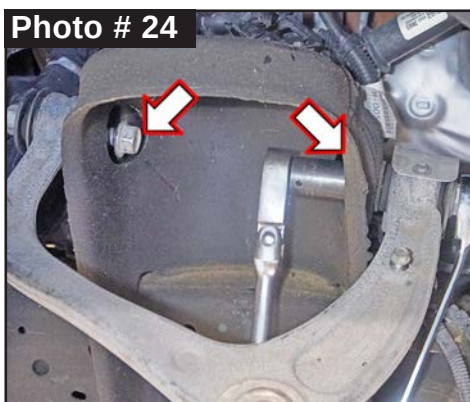


22. Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \ wrench. (Photo # 22) **Note:** Do Not remove center strut rod nut.

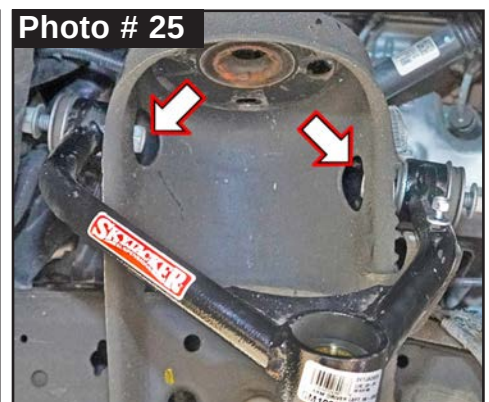


Remove two (2) OEM lower strut mounting bolts from bottom of LCA mount using a 15mm socket \ wrench. (Photo # 23) Remove OEM strut assembly. **Proceed to Step 23.**

23. Remove OEM UCA hardware using a 21mm socket \ wrench. (Photo # 24) Remove OEM UCA.



24. **Note:** Skyjacker UCA Are Side Specific:  
# GM19352UCA-L Driver &  
# GM19352UCA-R Passenger.

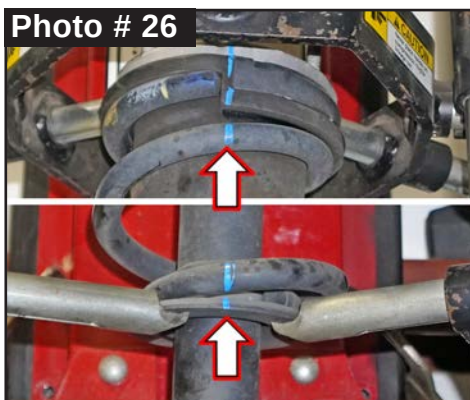


Install Skyjacker UCA to appropriate side of vehicle with OEM hardware using a 21mm socket \ wrench. (Photo # 25) Torque 80 ft-lbs.

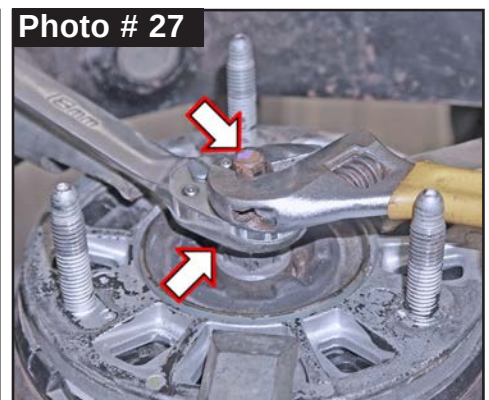
**Note:** Perform Steps 6-24 on Opposite Side Now. Then Proceed to Next Steps.

**NOTE:** Models Equipped with Magneride \ Magnetic Ride Control, Proceed to Steps 30-32.

25. Place OEM strut into a suitable strut spring compressor. (Photo # 26) **Note:** For proper reassembly, mark top hat upper strut mounting isolator, rubber isolator & coil spring at top of strut. Mark lower strut coil seat, isolator & coil spring at middle of strut.



26. Compress coil spring on strut assembly. Hold upper hex portion of shaft & remove upper strut isolator nut using a 18mm socket \ wrench. (Photo # 27) Leave coil spring in spring compressor.





27. Remove strut from spring compressor.

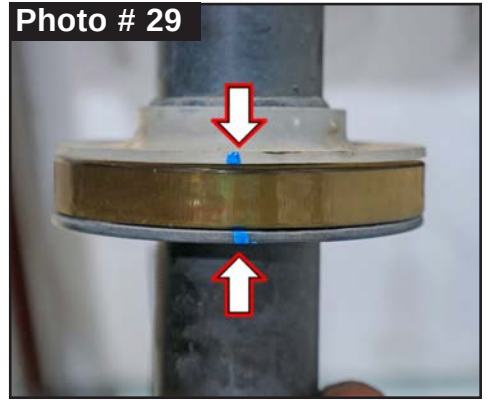
Remove OEM strut bump stop from upper rubber isolator & strut shaft.

Remove OEM strut top cap. To remove, gently tap around edges of top cap with a rubber mallet. (Photo # 28)

Photo # 28



Photo # 29



28. Remove lower OEM coil spring isolator from strut cylinder. Place Skyjacker # GM21625CS-S Front Preload Spacer (0.625" thick) onto lower coil spring seat. Reinstall lower OEM coil spring isolator to strut cylinder. (Photo # 29)

**Note:** Make sure that your 'marks' align correctly.

Photo # 30

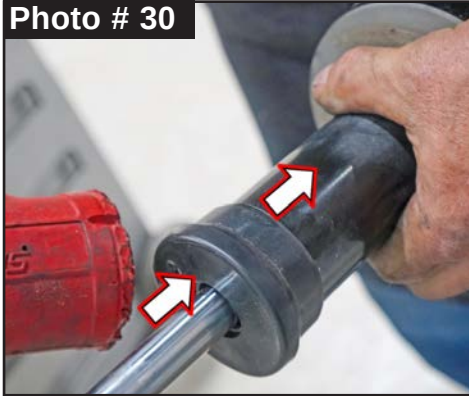


Photo # 31

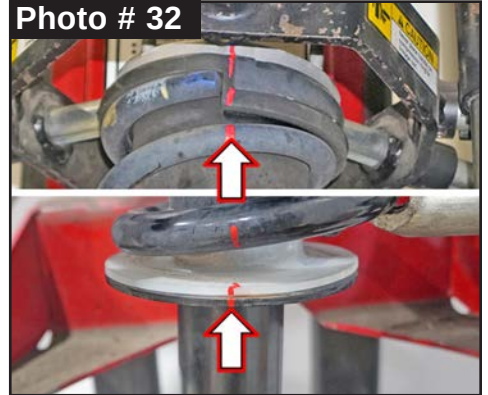


29. Reinstall OEM strut top cap.

Gently tap around edges of top cap with a rubber mallet. (Photo # 30) Reinstall OEM strut bump stop to upper rubber isolator & strut shaft. (Photo # 31) **Proceed to Step 33.**

30. Place OEM strut into a suitable strut spring compressor. (Photo # 32) **Note:** For proper reassembly, mark top hat upper strut mounting isolator, rubber isolator & coil spring at top of strut. Mark lower strut coil seat, isolator & coil spring at middle of strut.

Photo # 32



31. Compress coil spring on strut assembly. Leave strut in spring compressor. (Photo # 32)

32. Slide lower OEM coil spring isolator up on strut cylinder. Place one (1) Skyjacker # C21625CS-S Front Preload Spacer (0.625" thick) onto lower coil spring seat. (Photo # 33)

Place second Skyjacker Preload Spacer so that alignment tabs interlock. (Photo # 34)

Align lower OEM coil spring isolator to strut cylinder. (Photo # 35) **Note:** Make sure that your 'marks' align. **Proceed to Step 33.**

Photo # 33

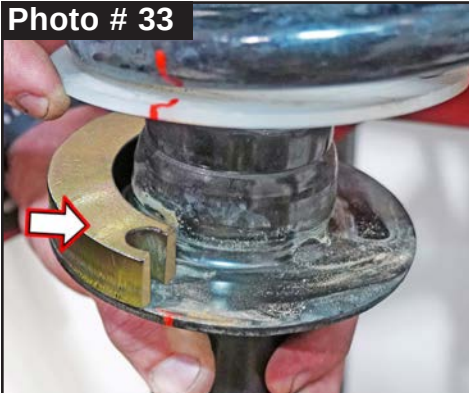


Photo # 34

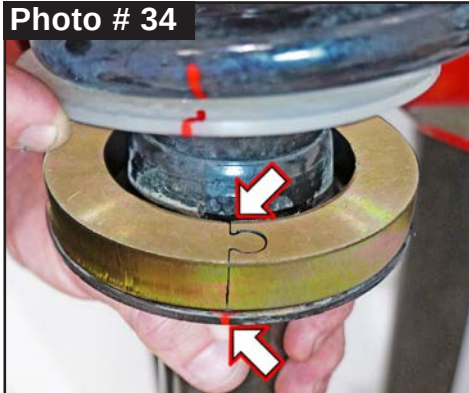
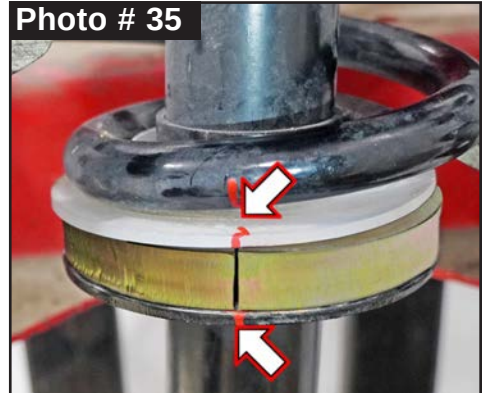
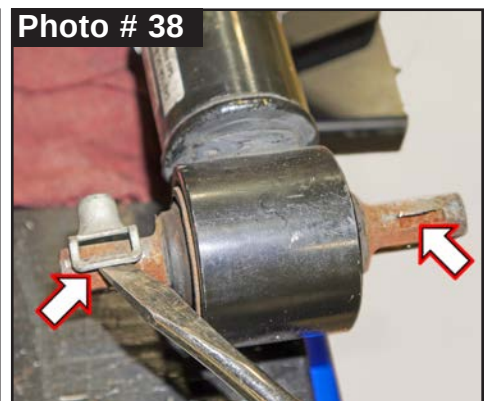
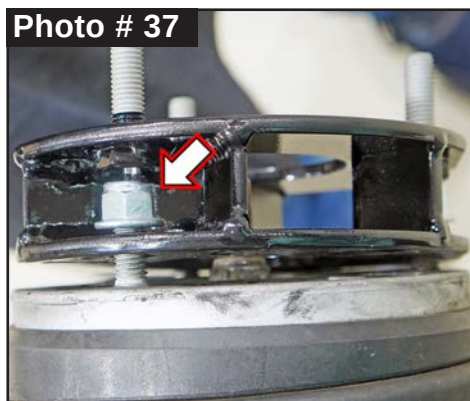
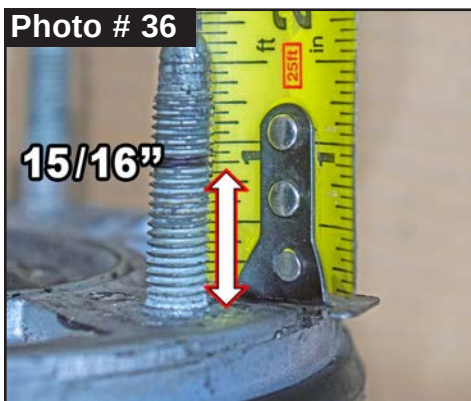


Photo # 35

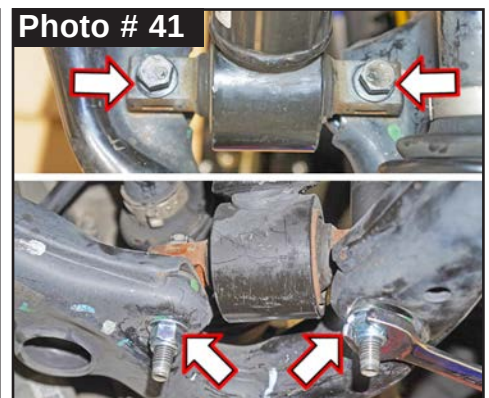
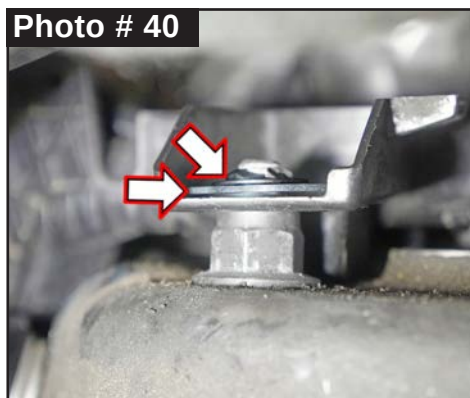
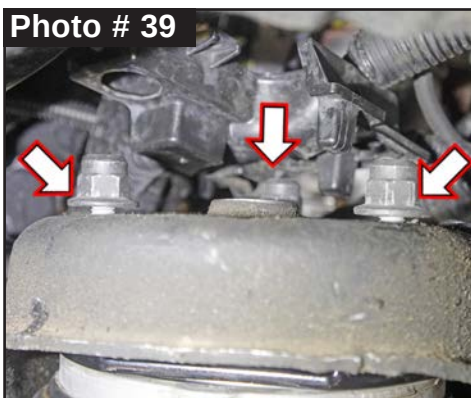


33. Align OEM top hat upper strut mounting isolator, rubber isolator & coil spring with previous marks & assemble Skyjacker\OEM strut assembly with OEM nut using a 18mm socket\wrench. (Photo # 26 & 32) **Note:** Make sure that your 'marks' align & that components are seated correctly into strut assembly alignment spiral.
34. **Note:** OEM strut upper stud bolts must be trimmed to install Skyjacker Front Strut Spacer. Measure & mark each OEM strut upper stud bolt from top of strut to 15/16" mark. (Photo # 36) Using a cut-off tool or similar tool, trim each bolt. After trimming, check threads with OEM bolt. Clean or bevel top threads as needed.
35. **Note:** Skyjacker Front Strut Spacers Are Not Side Specific.  
Attach Skyjacker Front Strut Spacer on top of OEM strut assembly with supplied 10mm Nylon Insert Flange Lock Nuts using a 15mm wrench. (Photo # 37) **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence. Torque 25 ft-lbs.
36. Remove both OEM clip nuts from lower OEM strut mount using a standard screwdriver. (Photo # 38)



**Note:** Perform Steps 37-54 on One Side at a Time.

37. Install Skyjacker\OEM strut assembly into upper strut mount at frame with OEM flange nuts using a 18mm socket\wrench. (Photo # 39) Secure, but **Do Not Completely Tighten** at this time. **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence.
38. Connect OEM wiring harness plastic bracket to driver side OEM upper strut stud with OEM clip or supplied 3/8" x 1-1/4" Fender Washer, then 10mm Push Nut on top. (Photo # 40)
39. Attach Skyjacker\OEM strut assembly lower mount to LCA mount with OEM bolt installed from top-to-bottom. Attach with supplied 10mm Nylon Insert Flange Lock Nuts using a 15mm wrench. (Photo # 41) Secure, but **Do Not Completely Tighten**.





40. While supporting OEM LCA with a jack, connect Skyjacker UCA to OEM steering knuckle. (Photo # 42) While connecting upper ball joint, be sure CV shaft aligns properly into hub.

**Tech Note:** If needed, use a pry bar to lower Skyjacker UCA to attach 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.

Photo # 42



Photo # 43



41. 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 # 43)

**NOTE:** Models Equipped with Magneride \ Magnetic Ride Control, Proceed to Steps 46-52.

42. Driver side OEM ABS \wheel speed sensor bracket that attaches to inside of OEM steering knuckle has to be rotated for additional strut \coil spring clearance. (Photo # 6)

Flatten \straighten OEM bracket tab using pliers or hammer. (Photo # 44)

Rotate OEM bracket 180 degrees (from front-to rear) & attach with OEM bolt using a 10mm socket \wrench. (Photo # 45)

Attach OEM brake line \speed sensor lines while checking for appropriate slack. (Photo # 46)

Photo # 44



Photo # 45

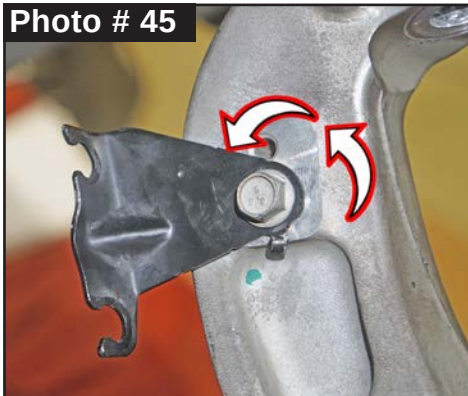
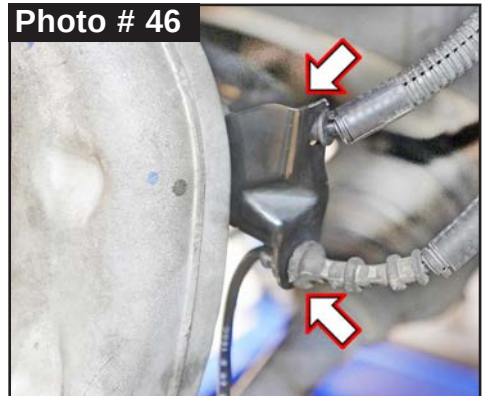


Photo # 46



43. Connect OEM wheel speed sensor line to OEM steering knuckle with OEM hardware using a 10mm socket \wrench. (Photo # 7)

Connect OEM ABS line bracket to forward side of OEM steering knuckle with OEM hardware using a 10mm socket \wrench. (Photo # 7)

44. Connect OEM brake line \ABS line \wheel speed sensor brackets to rearward side of OEM steering knuckle using a 10mm socket \wrench. (Photo # 5)

45. Connect OEM ABS \brake bracket to Skyjacker UCA mount with supplied 1/4" SAE Washer & 1/4" Course Thread Nylon Insert Lock Nut using a 7/16" socket \wrench. (Photo # 47)

**Proceed to Step 53.**

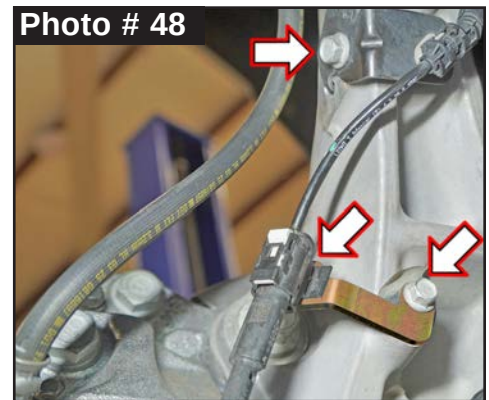
Photo # 47



46. Connect OEM wheel speed sensor line to OEM steering knuckle with OEM hardware using a 10mm socket \ wrench. (Photo # 8)

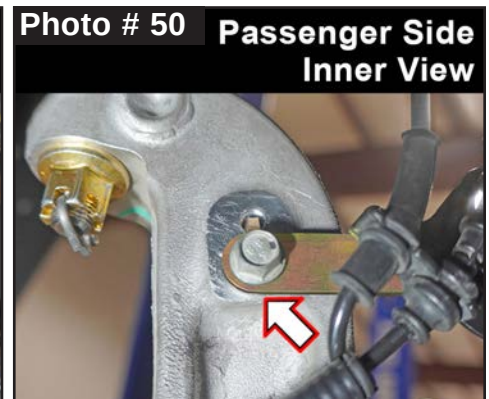
Connect OEM ABS line bracket to forward side of OEM steering knuckle with OEM hardware using a 10mm socket \ wrench. (Photo # 8)

47. Connect OEM brake line \ brake pad sensor bracket to rearward side of OEM steering knuckle with OEM hardware using a 10mm socket \ wrench. (Photo # 48)
48. On driver side, install Skyjacker Brake Pad Sensor Bracket to inside of OEM steering knuckle with OEM hardware using a 10mm socket \ wrench. (Photo # 48) Connect OEM brake pad sensor clip sensor clip into Skyjacker Brake Pad Sensor Bracket. (Photo # 48)



49. **Note:** Skyjacker Magneride Control Brackets Are Side Specific: # C2130MRC-D Driver & # C2130MRC-P Passenger. (Photos # 51 & # 52)

Attach appropriate Skyjacker Magneride Control Bracket into OEM position on inward side of OEM steering knuckle boss with OEM hardware using a 10mm socket \ wrench. (Photos # 49 & # 50)



50. Attach OEM ABS \ Magneride control sensor harness bracket to appropriate Skyjacker Bracket with supplied 1/4" x 3/4" Course Thread Bolt with 1/4" SAE Washer from outside-to-inside. Attach with supplied 1/4" SAE Washer & 1/4" Nylon Insert Lock Nut using a 7/16" socket \ wrench. (Photos # 51 & # 52)



51. Connect OEM Magneride wiring plug. **Tech Note:** Pull out on connector to verify that it is securely plugged in properly. Carefully connect tabs \ latches on OEM Magneride wiring cover over wiring plug. (Photos # 16 & # 18)

52. Connect OEM ABS \ brake bracket to Skyjacker UCA mount with supplied 1/4" SAE Washer & 1/4" Course Thread Nylon Insert Lock Nut using a 7/16" socket \ wrench. (Photo # 53)  
**Proceed to Step 53.**





53. Connect OEM outer tie rod end bolt to OEM steering knuckle using a 21mm socket \wrench. (Photo # 3) Torque 65 ft-lbs.

54. Connect OEM sway bar end link to OEM LCA with OEM hardware using a 18mm socket. (Photo # 11) Secure, but **Do Not Completely Tighten**.

**Note:** Perform Steps 27-54 on Opposite Side Now. Then Proceed to Next Steps.

55. Connect three (3) EPAS plugs on steering assembly. (Photo # 2) **Tech Note:** Press & hold rearward black tang down, grab connector & push plug-in. Push red slide into lock position.

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

56. Install two (2) OEM front skid plates. Front four (4) front bolts using a 7mm socket \wrench. Six (6) OEM bolts using a 13mm socket \wrench. (Photo # 1)

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

**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.

**Note:** Perform Steps 3-12 on One Side at a Time.

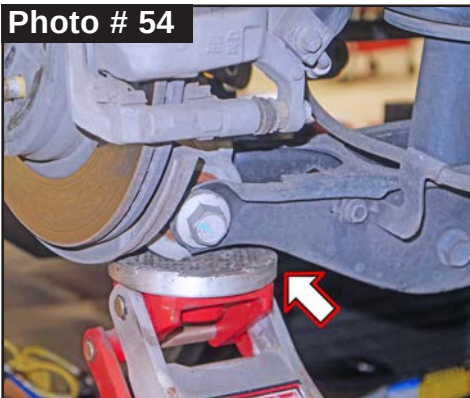
3. Support bottom of rear OEM LCA with jack. (Photo # 54)

Mark front & rear of OEM LCA cam positions at center crossmember. (Photo # 55)

Loosen, but do not remove, OEM LCA hardware at OEM crossmember mount using a 24mm socket \wrench. (Photo # 55)

4. Loosen, but do not remove, OEM UCA at OEM knuckle using a 21mm socket \wrench. (Photo # 56)

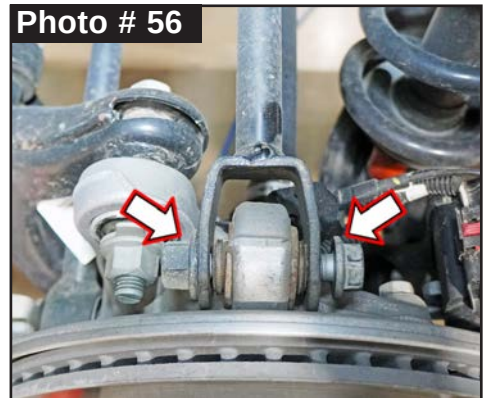
**Photo # 54**



**Photo # 55**



**Photo # 56**



5. To access OEM upper strut mounting nuts more easily, remove two (2) OEM inner fender liner retaining bolts using a T15 Torx bit socket \wrench. (Photo # 57)

Fold OEM inner fender backward to access OEM upper strut mounting nuts. (Photo # 58) **Note:** Hold back with wire or bungee.

**Photo # 57**



**Photo # 58**



**NOTE:** Models Equipped with Magneride \ Magnetic Ride Control, Proceed to Steps 7-9.

6. Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \wrench. (Photo # 59)

**Note:** Do Not remove center strut rod nut. **Proceed to Step 10.**

7. Disconnect Magneride wiring harness clip from OEM inboard upper strut nut. (Photo # 60)

8. Disconnect OEM Magneride wiring plug. **Note:** Red safety lock clip must be slid rearward to unlock. (Photo # 61) Press & hold rearward tang down, grab connector & pull away while from plug-in. (Photo # 62) **Tech Note:** You may need needle nose pliers to separate.

Photo # 59



Photo # 60



Photo # 61



Photo # 62



9. Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \wrench. (Photo # 59) **Note:** Do Not remove center strut rod nut. **Proceed to Step 10.**

10. Disconnect two (2) OEM brake line brackets from OEM LCA using a 13mm socket \wrench. (Photo # 63) Let brake line hang out of way to lower OEM LCA.

11. Remove OEM LCA hardware at OEM knuckle using a 24mm socket \wrench. (Photo # 64)

12. Lower jack under OEM LCA enough to release OEM knuckle.

Remove OEM lower strut mounting bolt from LCA mount using a 21mm socket \wrench. (Photo # 65) Remove OEM strut assembly.

Photo # 63



Photo # 64



Photo # 65

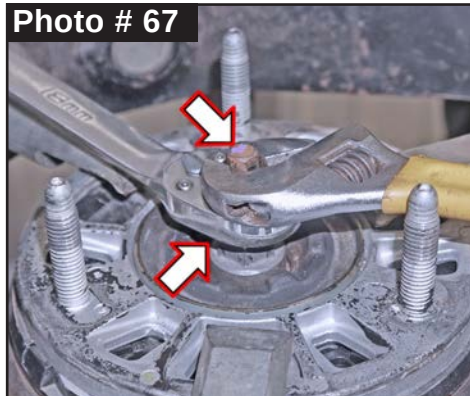
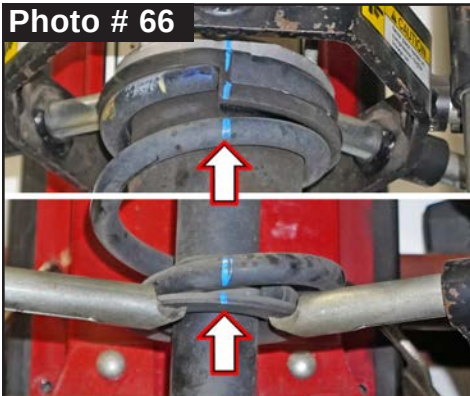


**Note:** Perform Steps 3-12 on Opposite Side Now. Then Proceed to Next Steps.

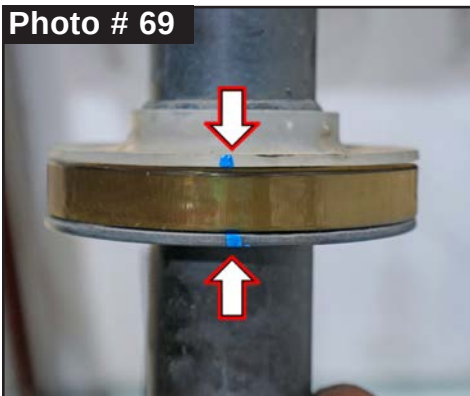


**NOTE: Models Equipped with Magneride \ Magnetic Ride Control, Proceed to Steps 19-21.**

13. Place OEM strut into a suitable strut spring compressor. (Photo # 66) **Note:** For proper reassembly realignment, mark top hat upper strut mounting isolator, rubber isolator & coil spring at top of strut. Mark lower strut coil seat, isolator & coil spring at middle of strut.
14. Compress coil spring on strut assembly. Hold upper hex portion of shaft & remove upper strut isolator nut using a 18mm socket \ wrench. (Photo # 67) Leave coil spring in spring compressor. Remove strut from spring compressor.
15. Remove OEM strut bump stop from upper rubber isolator & strut shaft.  
Remove OEM strut top cap. To remove, gently tap around edges of top cap with a rubber mallet. (Photo # 68)

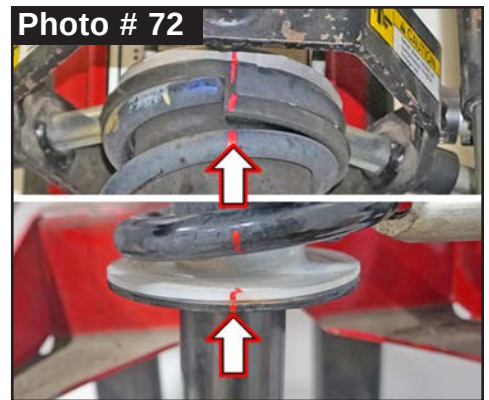


16. Remove lower OEM coil spring isolator from strut cylinder. Place Skyjacker # GM21500CS-S Rear Preload Spacer (0.500" thick) onto lower coil spring seat. Reinstall lower OEM coil spring isolator to strut cylinder. (Photo # 69) **Note:** Make sure that your 'marks' align correctly.
17. Reinstall OEM strut top cap. Gently tap around edges of top cap with a rubber mallet. (Photo # 70) Reinstall OEM strut bump stop to upper rubber isolator & strut shaft. (Photo # 71)



18. Align OEM top hat upper strut mounting isolator, rubber isolator & coil spring with previous marks & assemble Skyjacker \ OEM strut assembly with OEM nut using a 18mm socket \ wrench. (Photo # 66) **Note:** Make sure that your 'marks' align & that components are seated correctly into strut assembly alignment spiral. **Proceed to Step 22.**

19. Place OEM strut into a suitable strut spring compressor. (Photo # 72) **Note:** For proper reassembly, mark top hat upper strut mounting isolator, rubber isolator & coil spring at top of strut. Mark lower strut coil seat, isolator & coil spring at middle of strut.

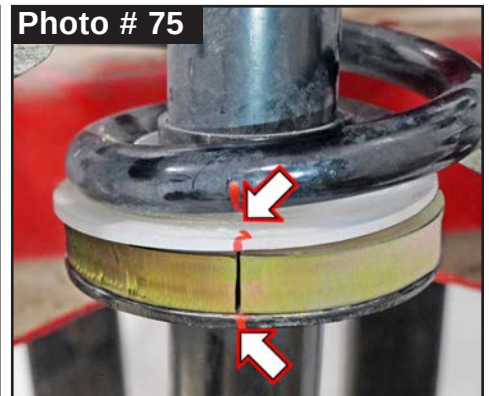
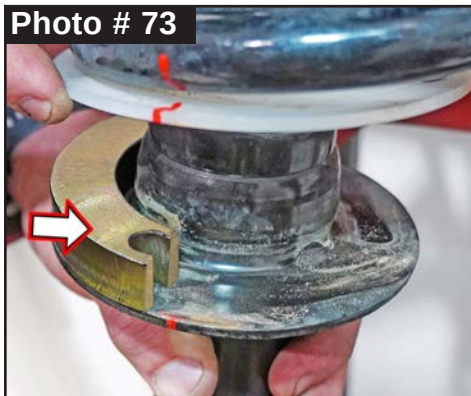


20. Compress coil spring on strut assembly. Leave strut in spring compressor. (Photo # 72)

21. Slide lower OEM coil spring isolator up on strut cylinder. Place one (1) Skyjacker # C21625CS-S Front Preload Spacer (0.625" thick) onto lower coil spring seat. (Photo # 73)

Place second Skyjacker Preload Spacer so that alignment tabs interlock. (Photo # 74)

Align lower OEM coil spring isolator to strut cylinder. (Photo # 75) **Note:** Make sure that your 'marks' align. **Proceed to Step 22.**



22. **Note:** OEM strut upper stud bolts must be trimmed to install Skyjacker Front Strut Spacer.

Measure & mark each OEM strut upper stud bolt from top of strut to 15/16" mark. (Photo # 76)

Using a cut-off tool or similar tool, trim each bolt. After trimming, check threads with OEM bolt. Clean or bevel top threads as needed.



23. **Note:** Skyjacker Rear Strut Spacers Are Not Side Specific.

Attach Skyjacker Rear Strut Spacer on top of OEM strut assembly with supplied 10mm Nylon Insert Flange Lock Nuts using a 15mm wrench. (Photo # 77)

**Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence. Torque 25 ft-lbs.



**Note:** Perform Steps 24-30 on One Side at a Time.

24. Install Skyjacker\OEM strut assembly into upper strut mount at frame with OEM flange nuts using a 18mm socket\wrench. (Photo # 78) Secure, but **Do Not Completely Tighten** at this time. **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence. **Proceed to Step 26.**

**NOTE:** Models Equipped with Magneride \Magnetic Ride Control, Proceed to Step 25.

25. Connect OEM Magneride wiring plug. (Photos # 79)

**Tech Note:** Pull out on connector to verify that it is securely plugged in properly. Carefully connect tabs \latches on OEM Magneride wiring cover over wiring plug.

Connect Magneride wiring harness clip to OEM inboard upper strut nut. (Photo # 60) **Proceed to Step 26.**

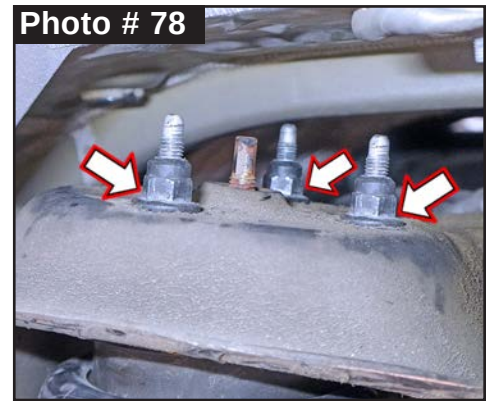
26. Attach Skyjacker\OEM strut assembly lower mount to LCA mount with OEM hardware using a 21mm wrench. (Photo # 65) Secure, but **Do Not Completely Tighten**.
27. Raise OEM LCA with a supporting jack, install OEM LCA hardware at OEM knuckle using a 24mm socket\wrench. (Photo # 64) Secure, but **Do Not Completely Tighten**.
28. Align front & rear OEM LCA cams position at center crossmember with previous marks. (Photo # 55) Secure, but **Do Not Completely Tighten** OEM LCA hardware at OEM crossmember mount using a 24mm socket\wrench. (Photo # 55)
29. Connect two (2) OEM brake line brackets to OEM LCA using a 13mm socket\wrench. (Photo # 63)
30. Install two (2) OEM inner fender liner retaining bolts using a T15 Torx bit socket\wrench. (Photo # 57)

**Note:** Perform Steps 24-30 on Opposite Side Now. Then Proceed to Next Step.

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

### **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 attention to clearance between tires \wheels, control arms, brake hoses, ABS wiring, etc.  
If steering wheel is not centered properly, ABS \traction control lights may activate. With steering wheel centered, turn tie rod ends until tires are straight.
3. **Front Tighten & Torque Sequence.**  
Skyjacker\OEM strut to upper mount using a 18mm socket\wrench. Torque 35 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.  
OEM sway bar end link to OEM LCA using a 18mm socket\wrench. Torque 45 ft-lbs.



#### 4. Rear Tighten & Torque Sequence.

Skyjacker\OEM strut to upper mount using a 18mm socket\wrench. Torque 35 ft-lbs.

Skyjacker\OEM strut to lower mount using a 21mm socket\wrench. Torque 110 ft-lbs.

OEM UCA hardware at OEM knuckle using a 21mm socket\wrench. 110 ft-lbs.

OEM LCA hardware at OEM knuckle using a 24mm socket\wrench. Torque 160 ft-lbs.

OEM LCA hardware at OEM crossmember using a 24mm socket\wrench. Torque 160 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<br>When Bolt Is Being Installed With a Bushing. |            |            |               |            |            |

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