



2021-2023 Chevy Tahoe 4WD
2021-2023 Chevy Suburban 1500 4WD
2021-2023 GMC Yukon 4WD
2021-2023 GMC Yukon XL 1500 4WD

Required Tools List:

- Metric Hex Key & Metric Sockets \ Wrenches
(7mm, 10mm, 13mm, 15mm, 18mm, 21mm, 22mm & 24mm)
- Tie Rod Puller Tool
- Cut-Off Tool
- Flathead \ Slotted Screwdriver
- Pliers
- Ball Peen Hammer
- Wheel Chock
- Jack Stands
- Paint Marker
- T15 Torx Bit
- Safety Glasses
- Floor Jack
- Measuring Tape
- Torque Wrench

**2" Suspension Lift
Installation Instructions**



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
 - GMC AT4 or Denali Models
 - Chevrolet or GMC Models With Adaptive Ride Control
 - Chevrolet or GMC Models With All Wheel Drive
 - Chevrolet or GMC Models With Magneride \ Magnetic Ride Control
 - 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.
- After Installation, a Qualified Alignment Facility Is Required to Align Vehicle to OEM Specifications.

Component Box Breakdown:**Part # C2120V**

Item #	Description	Qty
GM2120MS-S	STRUT SPACER, FRONT, 2"	2
GM2120RMS-S	STRUT SPACER, REAR, 1.75"	2
HB-C2120V	HDWR BAG: C2120V	1

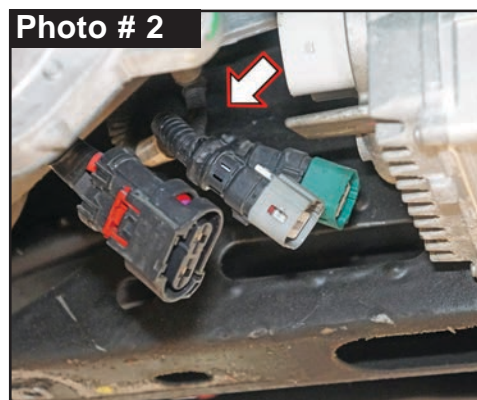
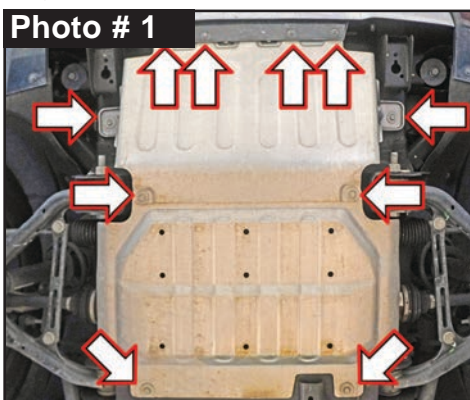
Hardware Bag Breakdown:**Part # HB-C2120V**

Item #	Description	Qty
10MMX1.5NFN	10MM X 1.5 NI FLANGE NUT	16
10MMPN	10MM X 1.5 PUSH NUT	1
38X114FW	3/8 X 1-1/4 FENDER WASHER	1

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.

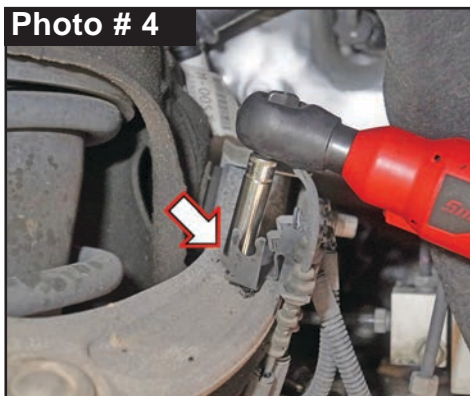
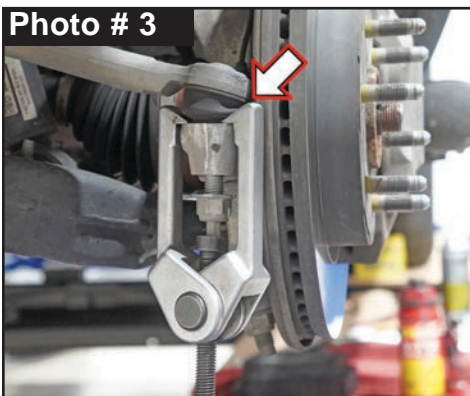
4. Remove two (2) OEM front skid plates located in front & under front differential. Remove front four (4) front bolts using a 7mm socket \ wrench. Remove six (6) OEM bolts using a 13mm socket \ wrench. (Photo # 1)



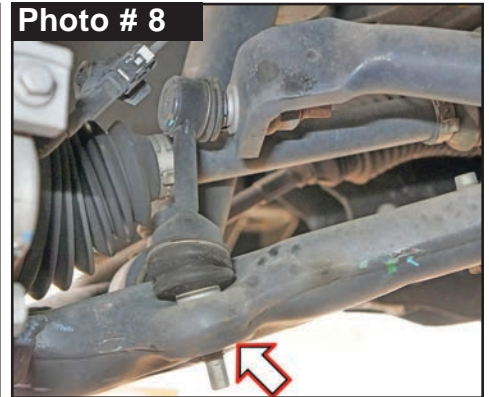
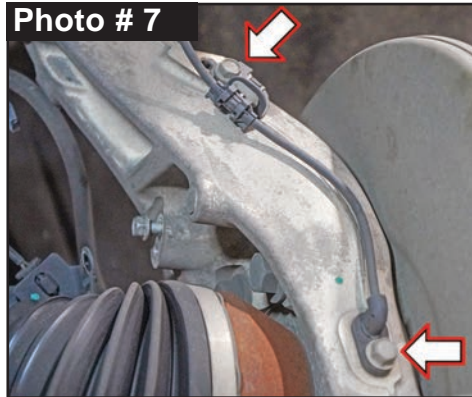
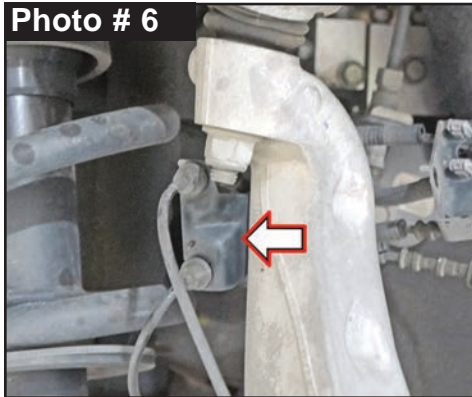
5. Disconnect three (3) EPAS plugs on steering assembly next to front differential. (Photo # 2) **Tech Note:** Red safety lock clip must be slid rearward to unlock. Press & hold rearward tang down, grab connector & pull away while from plug-in.

Note: Perform Steps 6-14 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.
7. Disconnect OEM ABS \ wheel speed sensor bracket from OEM Upper Control Arm (UCA) using a 10mm socket \ wrench. (Photo # 4)
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. Disconnect OEM wheel speed sensor line from forward side of OEM steering knuckle using a 10mm socket \ wrench. (Photo # 7)
11. Disconnect OEM sway bar end link from OEM lower control arm using a 18mm socket \ wrench. (Photo # 8)



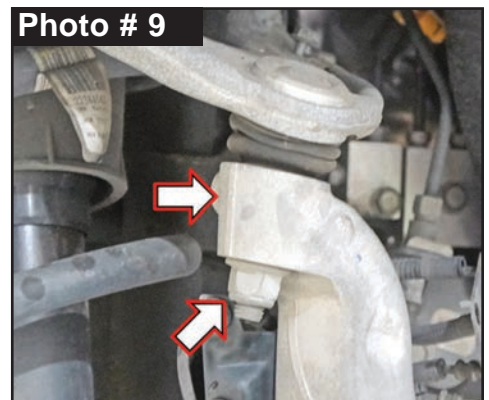
12. Support bottom of OEM LCA with jack. Loosen, but do not remove, upper OEM ball joint nut from OEM knuckle using a 18mm socket \ wrench. (Photo # 9) To unseat upper OEM ball joint taper, strike ball joint boss of knuckle using ball peen hammer to dislodge.

Note: ONLY strike knuckle portion only. Remove nut & remove ball joint from knuckle.

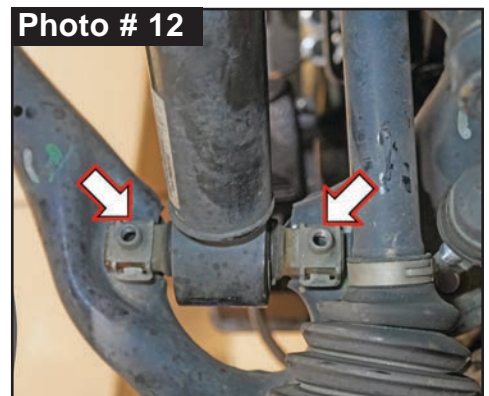
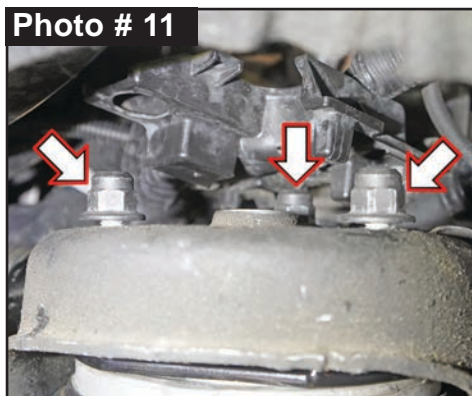
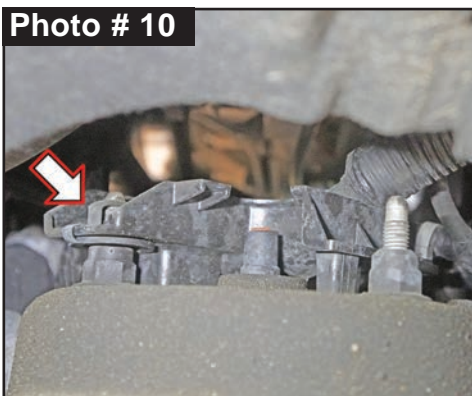
Tech Note: You may need to pry upper control arm down to disconnect ball joint.

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.

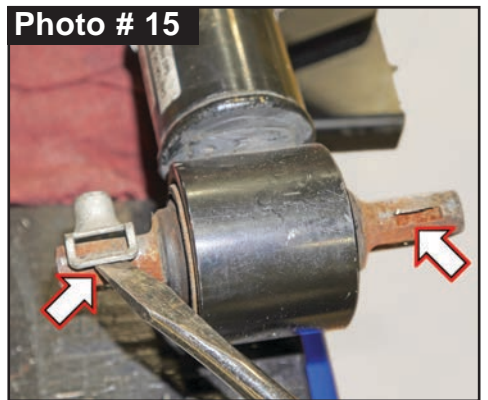
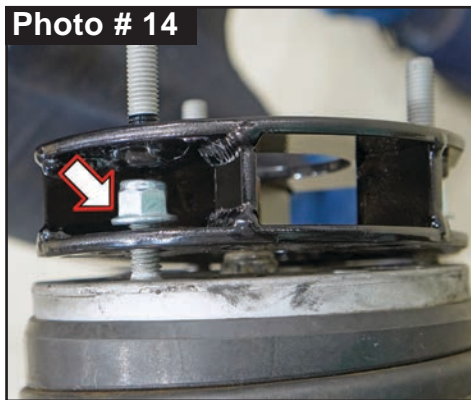
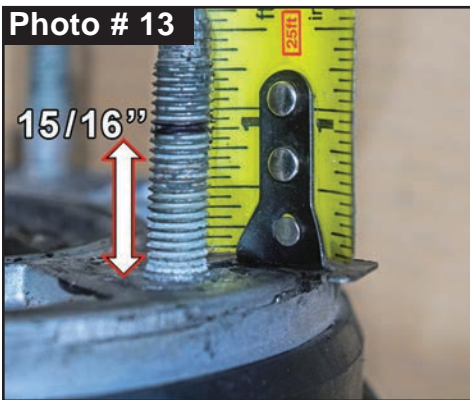


13. Disconnect wiring harness clip from driver side OEM upper strut forward nut. (Photo # 10) Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \ wrench. (Photo # 11) **Note:** Do Not remove center strut rod nut.
14. Remove two (2) OEM lower strut mounting bolts from bottom of LCA mount using a 15mm socket \ wrench. (Photo # 12) Remove OEM strut assembly.



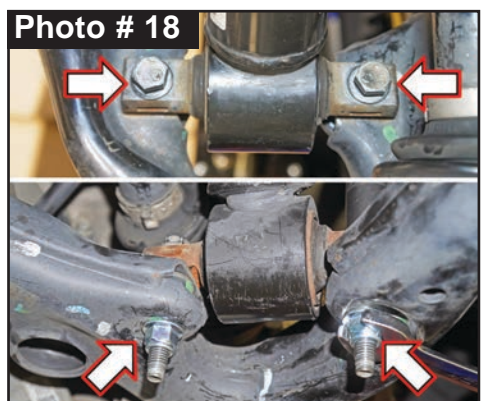
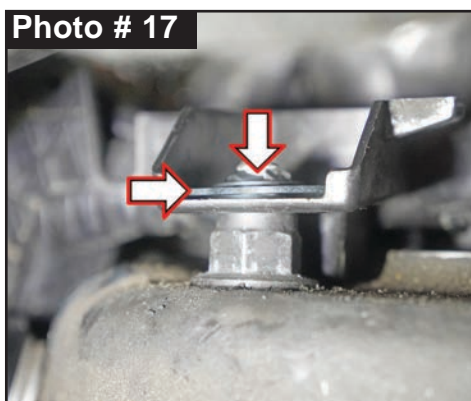
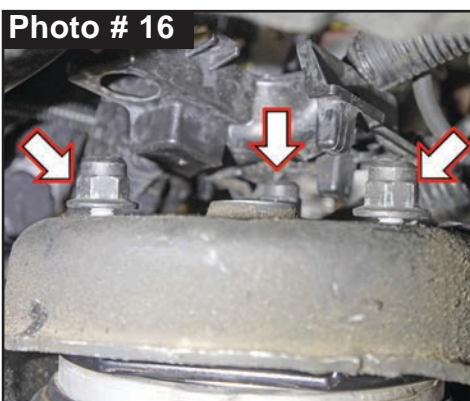
Note: Perform Steps 6-14 on Opposite Side Now. Then Proceed to Next Steps.

15. 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 # 13)
 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.
16. Locate Skyjacker # GM2120MS-S Front Strut Spacers.
 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 # 14) **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence. Torque 25 ft-lbs.
17. Remove both OEM clip nuts from lower OEM strut mount using a flathead \ slotted screwdriver. (Photo # 15)



Note: Perform Steps 18-27 on One Side at a Time.

18. Install Skyjacker \ OEM strut assembly into upper strut mount at frame with OEM flange nuts using a 18mm socket \ wrench. (Photos # 16) Secure, but **Do Not Completely Tighten** at this time. **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence.
19. 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. (Photos # 17)
20. 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. (Photos # 18) Secure, but **Do Not Completely Tighten**.



21. While supporting OEM LCA with a jack, connect OEM UCA ball joint to OEM steering knuckle. (Photos # 19)

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 OEM UCA ball joint to OEM knuckle with OEM nut using a 18mm socket \wrench. Secure, but **Do Not Completely Tighten** at this time.

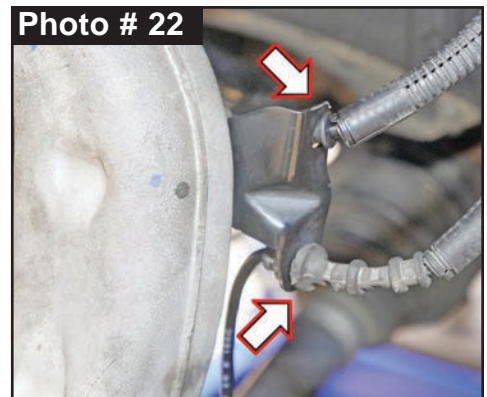
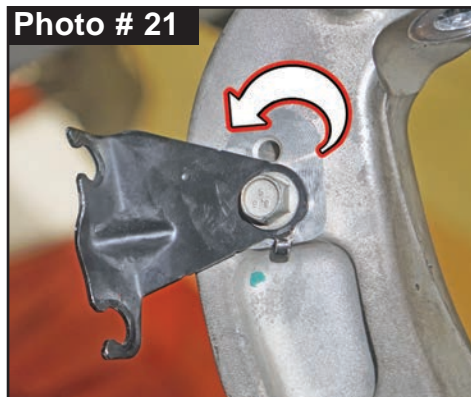


22. Driver side OEM ABS \wheel speed sensor bracket that attaches to inside of OEM steering knuckle has to be rotated for additional strut \coil spring clearance. (Photo # 6)

Flatten \straighten OEM bracket tab using pliers or hammer. (Photos # 20)

Rotate OEM bracket 180 degrees (from front-to rear) & attach with OEM bolt using a 10mm socket \wrench. (Photos # 21)

Attach OEM brake line \speed sensor lines while checking for appropriate slack. (Photos # 22)



23. Connect OEM wheel speed sensor line to forward side of OEM steering knuckle using a 10mm socket \wrench. (Photo # 7)

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

25. Connect OEM ABS \wheel speed sensor bracket to OEM Upper Control Arm (UCA) using a 10mm socket \wrench. (Photo # 4)

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

27. Connect OEM sway bar end link to OEM LCA with OEM hardware using a 18mm socket. (Photo # 8) Secure, but **Do Not Completely Tighten**.

Note: Perform Steps 18-27 on Opposite Side Now. Then Proceed to Next Steps.

28. 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.

29. 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)

30. 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.

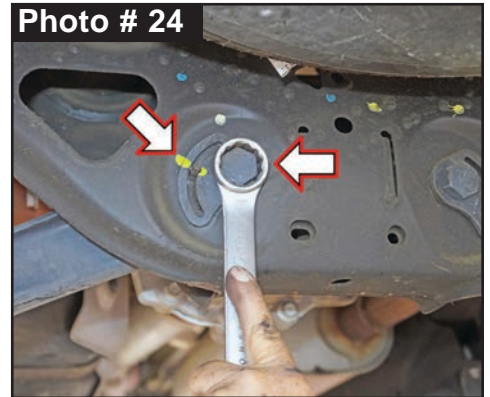
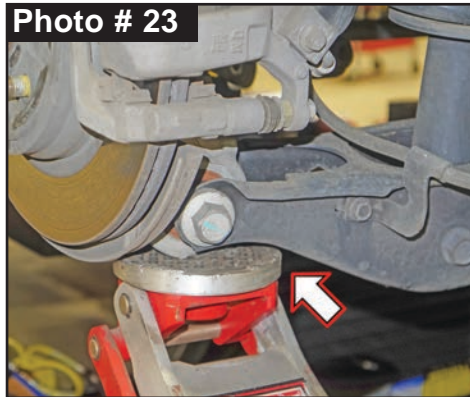
1. Chock front tires \ wheels. Raise rear of vehicle & support frame rails using jack stands at indicated lift points in OEM service manual.
2. Remove rear tires \ wheels using a 22mm socket.

Note: Perform Steps 3-7 on One Side at a Time.

3. Support bottom of rear OEM LCA with jack. (Photos # 23)

Mark front & rear of OEM LCA cam positions at center crossmember. (Photos # 24)

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



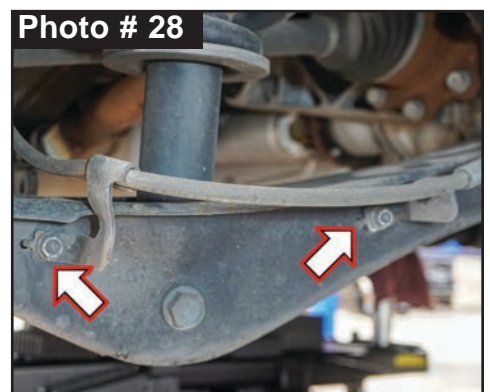
4. To access OEM upper strut mounting nuts from frame mount more easily, remove two (2) OEM inner fender liner retaining bolts using a T15 Torx bit socket \ wrench. (Photos # 25)

Fold OEM inner fender backward to access OEM upper strut mounting nuts. (Photos # 26)

Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 18mm socket \ wrench. (Photo # 27) **Note:** Do Not remove center strut rod nut.



5. Disconnect two (2) OEM brake line brackets from OEM LCA using a 13mm socket \ wrench. (Photo # 28) Let brake line hang out of way to lower OEM LCA.

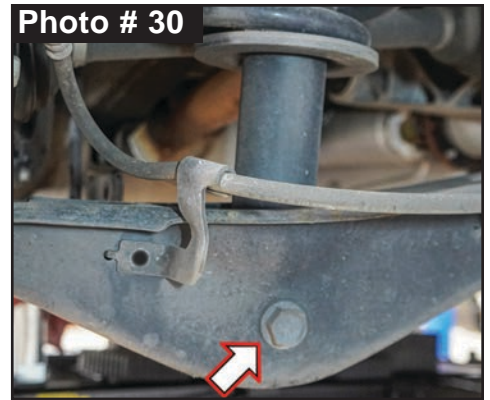


6. Remove OEM LCA hardware at OEM knuckle using a 24mm socket \ wrench. (Photo # 29)



7. 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 # 30) Remove OEM strut assembly.



Note: Perform Steps 3-7 on Opposite Side Now. Then Proceed to Next Steps.

8. OEM strut upper stud bolts must be trimmed to install Skyjacker Rear Strut Spacer. Measure & mark each OEM strut upper stud bolt from top of strut to 15/16" mark. (Photo # 31) 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.



9. Locate Skyjacker # GM2120RMS-S Rear Strut Spacers. 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 # 32) **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence. Torque 25 ft-lbs.

Note: Perform Steps 10-15 on One Side at a Time.

10. Install Skyjacker\OEM strut assembly into upper strut mount at frame with OEM flange nuts using a 18mm socket \ wrench. (Photos # 27) Secure, but **Do Not Completely Tighten** at this time. **Tech Note:** Start all three (3) OEM flange nuts before beginning tightening sequence.

11. Attach Skyjacker\OEM strut assembly lower mount to LCA mount with OEM hardware using a 21mm wrench. (Photos # 30) Secure, but **Do Not Completely Tighten**.

12. Raise OEM LCA with a supporting jack, install OEM LCA hardware at OEM knuckle using a 24mm socket \ wrench. (Photos # 29) Secure, but **Do Not Completely Tighten**.

13. Align front & rear OEM LCA cams position at center crossmember with previous marks. (Photos # 24) Secure, but **Do Not Completely Tighten** OEM LCA hardware at OEM crossmember mount using a 24mm socket \ wrench. (Photos # 24)

14. Connect two (2) OEM brake line brackets to OEM LCA using a 13mm socket \ wrench. (Photo # 28)

15. Install two (2) OEM inner fender liner retaining bolts using a T15 Torx bit socket \ wrench. (Photos # 25)

Note: Perform Steps 10-15 on Opposite Side Now. Then Proceed to Next Step.

16. 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 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 When Bolt Is Being Installed With a Bushing.					

Seat Belts Save Lives, Please Wear Your Seat Belt.