

Required Tools List:

- SAE Hex Key & Sockets \ Wrenches
(7/16", 1/2", 9/16", 5/8", 13/16, 1-1/16" & 1-3/16")
- Metric Hex Key & Sockets \ Wrenches
(5mm Hex Key, 12mm 12-point, 6mm, 8mm, 10mm, 13mm, 15mm, 18mm, 19mm, 21mm, 24mm, 27mm & 30mm)
- Strut Coil Spring Compressor
- Cut-Off Tool or Reciprocating Saw
- Alignment Bar or Screwdriver
- Pliers
- Drill
- Hammer
- Safety Glasses
- Wheel Chock
- Paint Marker
- Torque Wrench
- Diagonal Cutting Pliers
- 13/32" Drill Bit
- Grinder
- Jack Stands
- Floor Jack
- Measuring Tape



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:
 - 2004 Ford F150 Heritage Models.
 - 7-Lug HD Models.
- If Larger Tires (10% More Than OEM Diameter) Are Installed, Speedometer Recalibration Will Be Necessary. Contact Your Local FORD 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 # F4601A-NSP**

Item #	Description	Qty
F460L	STEERING KNUCKLE, LEFT \ DR	1
F460R	STEERING KNUCKLE, RIGHT \ PA	1

Part # F4602BST

Item #	Description	Qty
F4602FCM-S	CROSSMEMBER, FRONT	1
F4602RCM-S	CROSSMEMBER, REAR	1
F4602SKD-S	SKID PLATE, DIFFERENTIAL	1
F460DDS-S	DIFFERENTIAL BRACKET, DR	1
F460DPS-S	DIFFERENTIAL BRACKET, PA	1
F460ST-S	STRUT, SINGLE, 6"	2
STSP1	STRUT SPACER RING, PAIR	1
SBL460-B	SWAY BAR LOWERING BRACKET	2
RB452	REAR BLOCK, 4.5" DUAL PIN	2
916X318X14U	9/16 X 3-1/8 X 14, SQUARE	4
HB-F460-BLE	HDWR BAG: BRAKE LINE BRKTS	1
HB-F460DXBU	HDWR BAG: DIFF BRKTS	1
HB-F462-CM	HDWR BAG: CROSSMEMBER	1
HB-SBL	HDWR BAG: SWAY BAR BRKTS	1
HB-SKD	HDWR BAG: SKID PLATE	1
HB-916	HDWR BAG: 9/16" N/I LOCK NUTS	1

Part # F4602BSST

Item #	Description	Qty
F4602FCM-S	CROSSMEMBER, FRONT	1
F4602RCM-S	CROSSMEMBER, REAR	1
F4602SKD-S	SKID PLATE, DIFFERENTIAL	1
F460DDS-S	DIFFERENTIAL BRACKET, DR	1
F460DPS-S	DIFFERENTIAL BRACKET, PA	1
F460ST-S	STRUT, SINGLE, 6"	2
STSP1	STRUT SPACER RING, PAIR	1
SBL460-B	SWAY BAR LOWERING BRACKET	2
916X318X912U	9/16 X 3-1/8 X 10-1/2, SQUARE	4
HB-F460-BLE	HDWR BAG: BRAKE LINE BRKTS	1
HB-F460DXBU	HDWR BAG: DIFF BRKTS	1
HB-F462-CM	HDWR BAG: CROSSMEMBER	1
HB-SBL	HDWR BAG: SWAY BAR BRKTS	1
HB-SKD	HDWR BAG: SKID PLATE	1
HB-916	HDWR BAG: 9/16" N/I LOCK NUTS	1

Hardware Box Breakdown:**Part # HB-F460-BLE**

Item #	Description	Qty
F460BLE-F	BRAKE LINE BRACKETS, FRONT	2
DVL10	BRAKE LINE BRACKET, FLAT	1
14X1FTB	1/4 X 1 FINE THREAD BOLT	3
14FTN	1/4 FINE THREAD N/I LOCK NUT	3
14SAEW	1/4 SAE WASHER	6
38CC	CABLE CLAMPS, 3/8"	2
5MMX12SHB	5MM X 12MM KNUCKLE BOLTS	2

Part # HB-F460DXBU

Item #	Description	Qty
12X90MMB	12MM X 90MM BOLT, 10.9	3
12MMN	12MM NYLON INSERT LOCK NUT	3
12SAEW	1/2 SAE WASHER	3

Part # HB-F462-CM

Item #	Description	Qty
18X150MMB	18MM X 150MM BOLT, 10.9	4
34SAEW	3/4 SAE WASHER	8
18MMN	18MM NYLON INSERT LOCK NUT	4
12X512FTB	1/2 X 5-1/2 FINE THREAD BOLT	4
12SAEW	1/2 SAE WASHER	8
12FTN	1/2 FINE THREAD N/I LOCK NUT	4
CS4530	CRUSH SLEEVE, F462FCM-S, FRT	1
CS3980	CRUSH SLEEVE, F462RCM-S, RR	2
14X150MMBG5	14MM X 150MM BOLT, 8.8	1
916SAEW	9/16 SAE WASHER	2
14MMN	14MM NYLON INSERT LOCK NUT	1

Part # HB-SBL

Item #	Description	Qty
716X112FTB	7/16 X 1-1/2 FINE THREAD BOLT	4
716FTN	7/16 FINE THREAD N/I LOCK NUT	4
716SAEW	7/16 SAE WASHER	8

Part # HB-SKD

Item #	Description	Qty
516X1FTB	5/16 X 1 FINE THREAD BOLT	4
516FTN	5/16 FINE THREAD N/I LOCK NUT	4
516SAEW	5/16 SAE WASHER	8

Part # HB-916

Item #	Description	Qty
916FTN	9/16 FINE THREAD N/I LOCK NUT	8

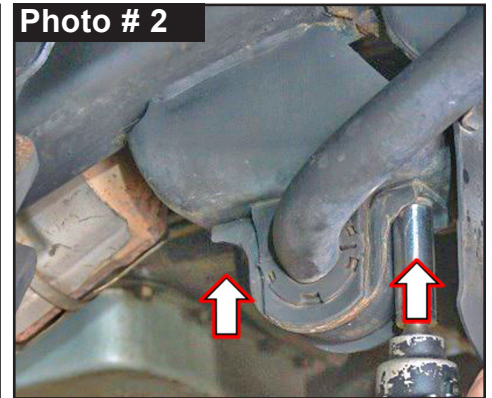
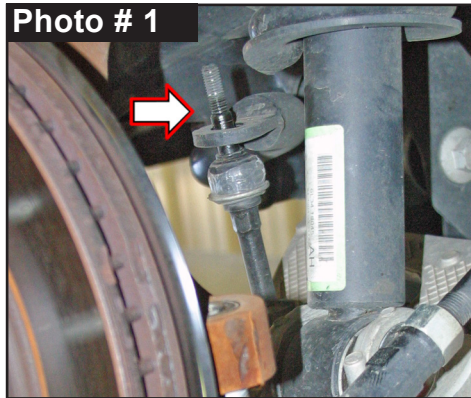
Pre-Installation Tips: Install Rear Shock Boots, Bushings & Sleeves.

1. Install supplied Shock Boot over Skyjacker Shock. Attach boot to cylinder body with supplied Boot Cable Tie. Remove excess cable tie with diagonal cutting pliers.
2. Coat Hourglass Bushings with a water resistant grease & press into each shock eye. Coat Sleeve & press into cylinder eye bushings.

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 21mm socket \ wrench.
4. If equipped with OEM front skid plate, remove skid plate using a 15mm socket \ wrench.

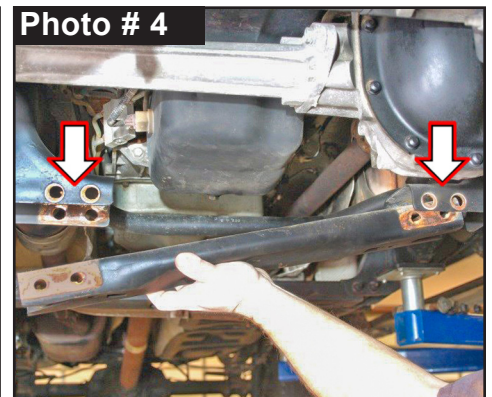
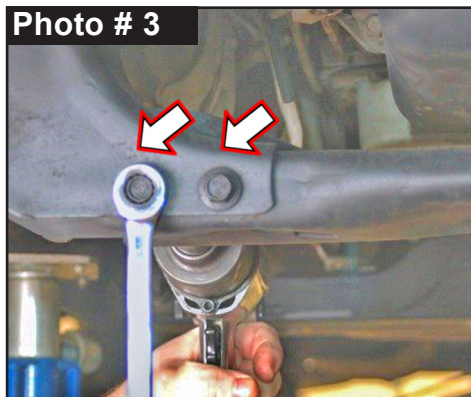
5. Disconnect driver & passenger side OEM sway bar end link upper mount from OEM sway bar using a 15mm socket \ wrench. (Photo # 1)



Disconnect driver & passenger side OEM sway bar upper mounting brackets from OEM frame using a 15mm socket \ wrench.

Remove sway bar from vehicle. (Photo # 2)

6. Disconnect OEM center crossmember from driver & passenger side OEM frame mounts. Remove two (2) bolts per side using a 18mm & a 13mm socket \ wrench. (Photo # 3)



Remove center crossmember. (Photo # 4)

7. For additional driveshaft clearance, you are removing a section of OEM rear crossmember frame mount on driver side only.

Locate supplied OEM Rear Crossmember Cut Template on Page 15 of this installation instruction booklet.

Cut out template using 'outside' edge of lines as a guide.

Cut out dashed line circles to align with rear crossmember OEM holes.

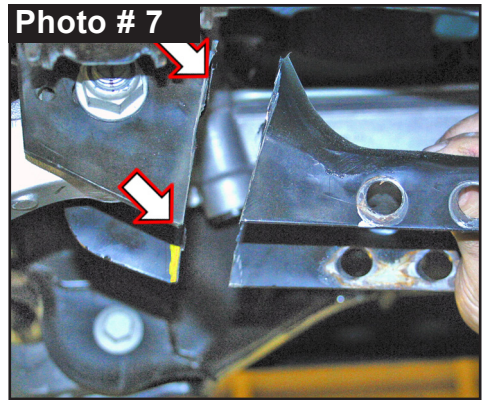
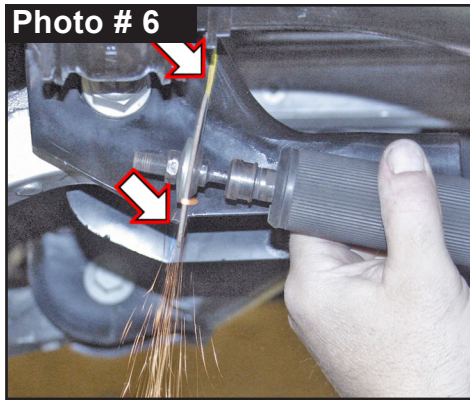
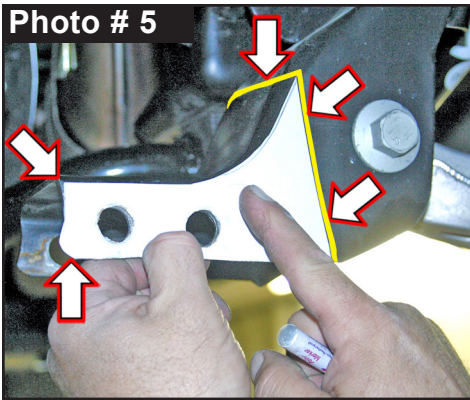
Align template with inner edges & with OEM mounting holes on driver side rear crossmember frame mount. (Photo # 5) Follow outer edge of template & mark a line up frame mount.

Move template to opposite side & mark a line up frame mount. Connect front & rear marks in a straight line on top side of frame mount.

Cut marked lines using a cut-off tool, reciprocating saw or similar tool. (Photo # 6)

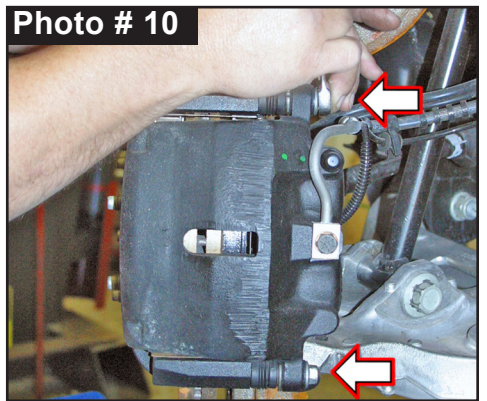
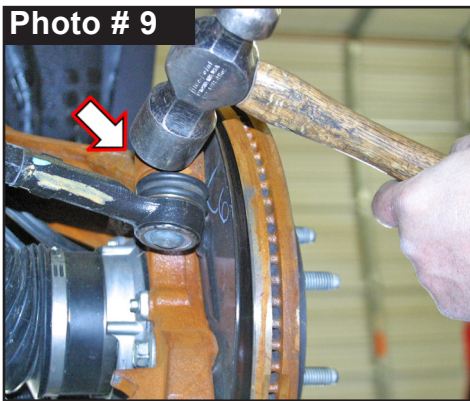
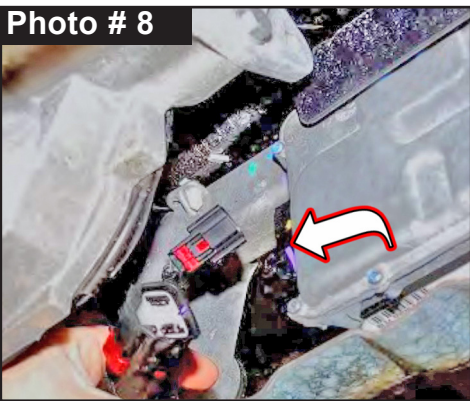
Remove cut portion from frame. (Photo # 7)

Grind smooth any burrs or sharp edges on OEM crossmember frame mount, then paint or undercoat all exposed metal.

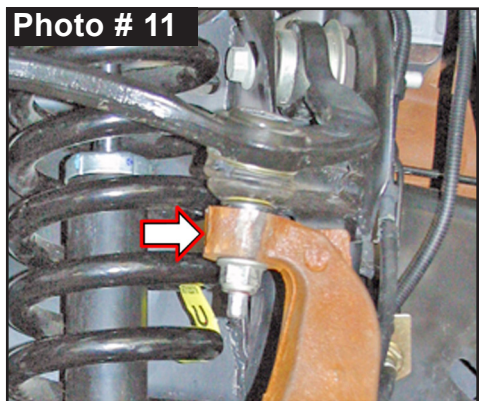


Note: Perform Steps 8-14 on One Side at a Time.

8. Disconnect Electronic Power Assist Steering (EPAS) plugs on steering assembly next to front differential. (See Photo # 8) **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.
9. Disconnect OEM outer tie rod ends from OEM steering knuckles using a 21mm socket \ wrench. (Photo # 9) **Note:** It may be necessary to strike OEM steering knuckles to dislodge OEM tie rod ends. Be careful not to damage OEM tie rod ends.
10. On rearward side of OEM knuckle, disconnect OEM ABS sensor from wheel bearing using a 5mm hex key socket \ wrench. Remove vacuum hose from knuckle.
11. Remove two (2) OEM brake caliper mounting bolts & remove brake caliper from OEM knuckle using a 18mm socket \ wrench. (Photo # 10) **Tech Note:** Hang brake caliper on frame out of way using a hook or bungee. Do Not hang by rubber brake line.



12. Remove OEM brake rotor. Remove CV axle nut dust cover from center of hub assembly with standard screwdriver or pliers. Remove CV axle nut using a 13mm socket. Disconnect CV axle from knuckle. **Note:** Do Not Overextend CV Axle Shaft.
13. Support bottom of OEM Lower Control Arm (LCA) with jack. Loosen, but do not remove OEM Upper Control Arm (UCA) ball joint nut from OEM knuckle using a 21mm socket \ wrench. (Photo # 11)
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 & disconnect ball joint from knuckle.
Tech Note: You may need to pry upper control arm down to disconnect ball joint.

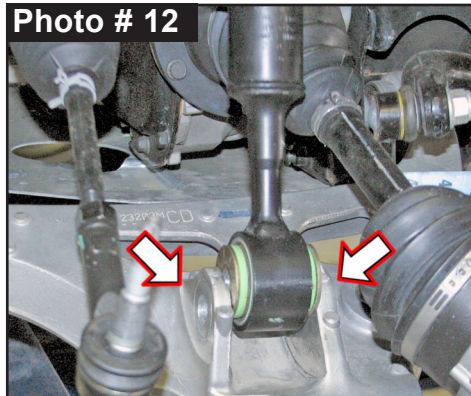


14. Loosen, but do not remove OEM LCA ball joint nut from OEM knuckle using a 24mm wrench. To unseat ball joint taper, strike ball joint boss of knuckle with ball peen hammer to dislodge.
Note: ONLY strike knuckle portion.
Remove ball joint from knuckle. Remove knuckle \ hub assembly.

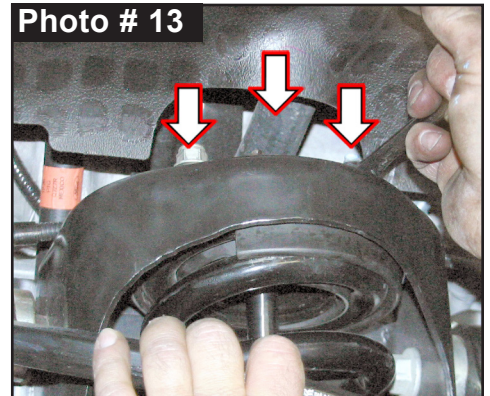
Note: Perform Steps 8-14 on Opposite Side Now. Then Proceed to Step 15.

Note: Perform Steps 15-18 on One Side at a Time.

15. Remove OEM lower strut mount bolt from OEM LCA using a 27mm & 30mm or 1-1/16" & 1-3/16" socket \ wrench. Remove bolt.
(Photo # 12)

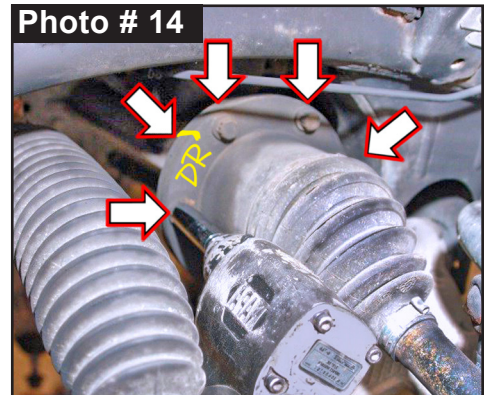


16. Disconnect three (3) OEM upper strut mounting nuts from frame mount using a 15mm socket \ wrench.
(Photo # 13)



Note: Do Not remove center strut rod nut. Remove OEM strut assembly.

17. Mark location of OEM CV axle at inner axle flange to OEM front differential (so CV axles can be reinstalled into its OEM position). (Photo # 14) **Note:** Failure to do so may result in a driveline imbalance & subsequent vibration. Mark DR & PA side on appropriate CV axle.



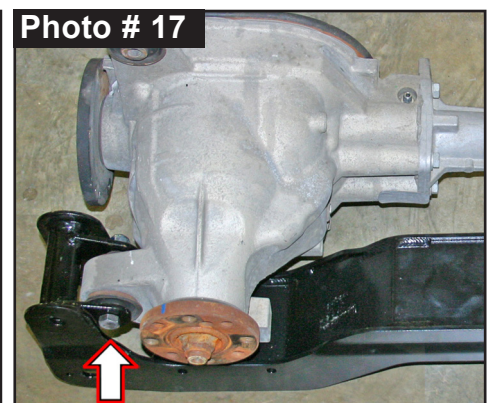
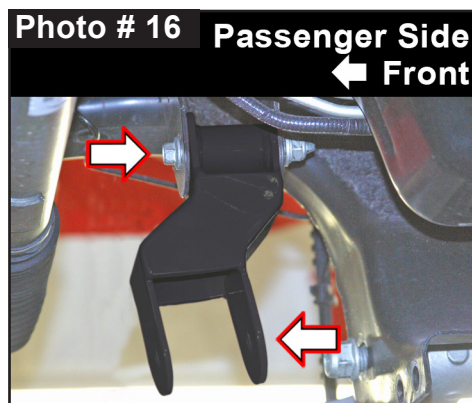
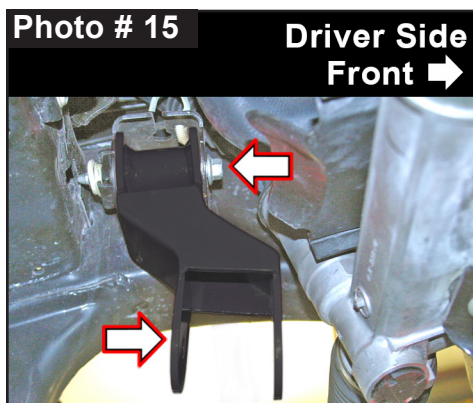
Remove six (6) OEM flange bolts from CV axle flange at differential using a 12mm 12-point socket \ wrench. **Tech Note:** Have someone get inside to push brake pedal as you break bolts loose. Let off brake, rotate CV axle & continue process to remove all six (6) OEM flange bolts.

18. Remove OEM LCA bolts at frame mounts using a 21mm & 27mm (or 1-1/16") socket \ wrench. Remove OEM LCA.

Note: Perform Steps 15-18 on Opposite Side Now. Then Proceed to Step 19.

19. Mark location of OEM front driveshaft \ flange at differential.
Remove front driveshaft to differential OEM bolts. Retain hardware. **Note:** Do not remove driveshaft from OEM transfer case. Use a strap or bungee to secure driveshaft up out of way.
20. Support front differential using a floor jack. Unplug differential solenoid.
Remove driver side OEM differential bolt at front frame mount (above CV axle mount) using a 15mm socket \ wrench. **Tech Note:** It may be necessary to slightly turn steering wheel to allow bolt to clear steering assembly.
Remove driver side OEM differential bolt at rear frame mount (next to driveshaft mount) using a 15mm socket \ wrench.
Remove passenger side OEM differential bolt at front frame mount (above CV axle mount) using a 15mm socket \ wrench.
Remove differential vent hose. Retain for later use.
Lower differential to install Skyjacker drop brackets.

21. Locate Skyjacker # F460DDS-S Driver Side Differential Bracket.
Install Skyjacker bracket into driver side OEM frame mount with OEM hardware using a 15mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time. **Note:** Offset of bracket's lower mount goes to front of vehicle. (Photo # 15)
22. Locate Skyjacker # F460DPS-S Passenger Side Differential Bracket.
Install Skyjacker bracket into passenger side OEM frame mount with OEM hardware using a 15mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time. **Note:** Offset of bracket's lower mount goes to front of vehicle. (Photo # 16)
23. Locate Skyjacker # F4602RCM-S Rear Crossmember. **Note:** Skyjacker Rear Crossmember has a rear mount for OEM differential built into it. OEM differential must be mounted to Skyjacker crossmember & installed all together. (Photo # 17)
- Attach OEM differential rear mount to Skyjacker crossmember with supplied 12mm x 90mm Bolt from rear-to-front through crossmember & differential. Attach with supplied 1/2" SAE Washer & 12mm Nylon Insert Lock Nut using 18mm & 19mm socket \ wrench.



24. Support Skyjacker crossmember \ differential assembly with jack. Raise assembly up into position to install into vehicle.
Align Skyjacker rear crossmember into OEM rear LCA frame mounts. Attach with OEM hardware from rear-to-front using a 18mm & a 13mm socket \ wrench. (Photo # 18)
Secure, but **Do Not Completely Tighten** at this time.

Align OEM differential into Skyjacker driver & passenger diff brackets. Attach with supplied 12mm x 90mm Bolt from rear-to-front through crossmember & differential. Attach with supplied 1/2" SAE Washer & 12mm Nylon Insert Lock Nut using 18mm & 19mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.



25. Locate Skyjacker # F4602FCM-S Front Crossmember.
Align Skyjacker front crossmember into OEM front LCA frame mounts.
Attach with OEM hardware from rear-to-front using a 18mm & a 13mm socket \ wrench.



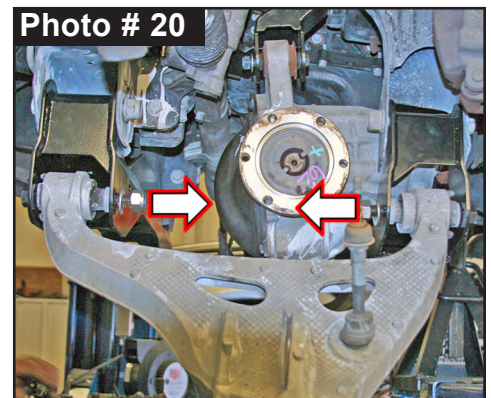
Secure, but **Do Not Completely Tighten** at this time. (Photo # 19)

26. Align previously made marks on OEM front differential flange & OEM drive shaft flange.
Connect front driveshaft to differential with OEM bolts.

Note: Perform Steps 27-34 on One Side at a Time.

27. Attach OEM LCA to Skyjacker front & rear crossmembers.

Attach OEM LCA to front crossmember mount with supplied 18mm x 150mm Bolt with 3/4" SAE Washer through crossmember & LCA (each bolt points to inside of LCA).
(Photo # 20)

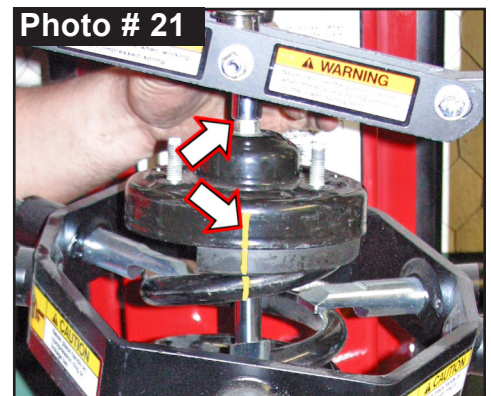


Attach with supplied 3/4" SAE Washer & 18mm Nylon Insert Lock Nut using 27mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.

Attach OEM LCA to rear crossmember mount with supplied 18mm x 150mm Bolt with 3/4" SAE Washer from rear-to-front through crossmember & LCA. Attach with supplied 3/4" SAE Washer & 18mm Nylon Insert Lock Nut using 27mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.

28. Align previously made marks on OEM flange bolts to CV axle flange at differential. (Photo # 14) Attach six (6) OEM flange bolts using a 12mm 12-point socket \ wrench.

29. **Note:** For strut alignment purposes, mark top hat upper strut mount isolator, rubber isolator & coil spring at top of strut.
(Photo # 21)



Compress coil spring on strut assembly with a suitable strut spring compressor & remove OEM upper strut isolator nut using a 9/16" socket \ wrench. (Photo # 21) Remove OEM strut from OEM coil spring. **Tech Note:** Leave OEM rubber isolator in place on top of OEM coil spring.

30. Locate Skyjacker # F460ST-S Replacement Strut.

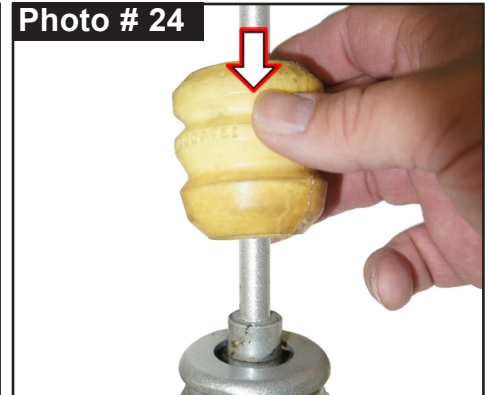
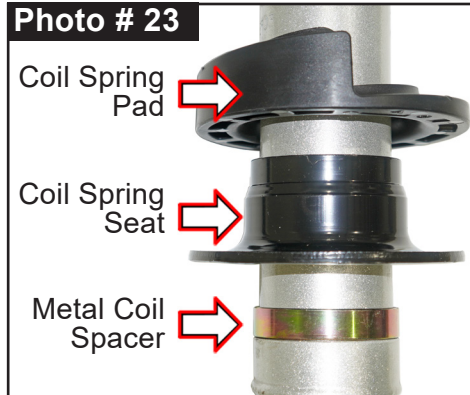
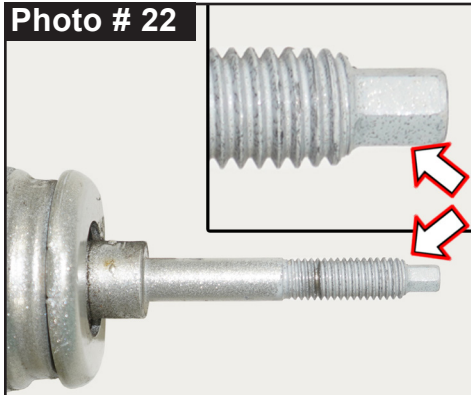
To unlock & extend Skyjacker strut shaft, rotate upper hex portion of shaft 'Counter Clockwise' using a 6mm socket \ wrench. (Photo # 22)

31. Assemble Skyjacker strut.

Install supplied Skyjacker # STSP1 Metal Coil Spring Spacer onto strut cylinder. (Photo # 23)

Next install supplied Coil Spring Seat & Coil Spring Pad onto strut cylinder.

Next slide supplied Skyjacker Bump Stop onto strut shaft. (Photo # 24)



32. 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 9/16" socket \ wrench. (Photo # 21) **Note:** Make sure that your 'marks' align & that components are seated correctly into strut assembly alignment spiral.

33. Install Skyjacker \ OEM strut assembly into OEM upper strut mount at frame mount with OEM hardware using a 15mm socket \ wrench. (Photo # 13) Secure, but **Do Not Completely Tighten** at this time.

34. Install Skyjacker \ OEM strut assembly into OEM LCA mount with OEM hardware using a 21mm & 27mm or a 1-1/16" & 1-3/16" socket \ wrench. (Photo # 12) Secure, but **Do Not Completely Tighten** at this time.

Note: Perform Steps 27-34 on Opposite Side Now. Then Proceed to Next Steps.

Note: Perform Steps 35-42 on One Side at a Time.

35. Skyjacker Steering Knuckles Are Side Specific:
F460L Driver Side & # F460R Passenger Side.

Transfer appropriate hub bearing assembly from OEM knuckle to Skyjacker Knuckle. (Photo # 25)

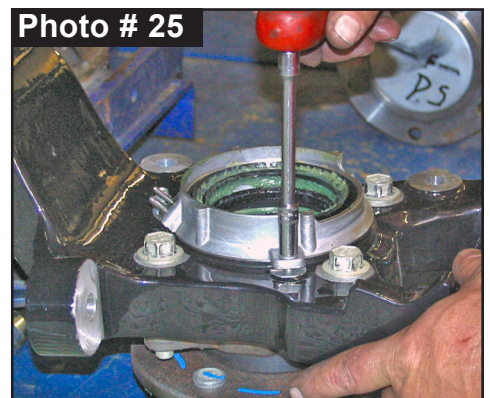
Remove three (3) OEM hub inner bearing bolts using a 8mm socket \ wrench.

Remove four (4) OEM hub outer bearing bolts using a 15mm socket \ wrench.

Remove OEM dust shield from opposite side of knuckle.

Note: OEM dust shield will not be reused.

Install appropriate OEM hub bearing assembly to Skyjacker Knuckle. **Tech Note:** Install OEM hub bearing assembly with ABS line pointing toward top of Skyjacker Knuckle.



36. Install Skyjacker Knuckle assembly. Support bottom of OEM LCA with jack. Attach Skyjacker Knuckle assembly to OEM LCA ball joint using a 24mm wrench. Secure, but **Do Not Completely Tighten** at this time.

Guide CV axle through Skyjacker Knuckle hub assembly. 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 Skyjacker Knuckle with OEM nut using a 21mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.

37. Attach OEM CV shaft using OEM axle nut & a 13mm socket \ wrench. Torque 30 ft-lbs.

CAUTION: Do Not Use an impact to tighten. Do not damage CV shaft or threads. Install OEM CV shaft dust cover to center of hub assembly with a rubber mallet.

38. Tighten UCA ball joint nut using a 21mm socket \ wrench. Torque 85 ft-lb.

Tighten LCA ball joint nut using a 21mm socket \ wrench. Torque 111 ft-lb.

39. On rearward side of Skyjacker Knuckle, there is a new mounting location for OEM ABS sensor line. Attach ABS sensor line to new mounting location with supplied 3/8" Cable Clamps & 5mm x 12mm Bolts using a 8mm socket \ wrench.

Attach OEM vacuum hose to hub bearing assembly.

40. Attach OEM outer tie rod to Skyjacker Knuckle with OEM hardware. Torque to 111 ft-lb.

41. Attach brake rotor onto Skyjacker Knuckle assembly. **Tech Note:** Use a OEM lug nut to temporarily secure rotor into place. Attach OEM brake caliper onto brake rotor & Skyjacker Knuckle assembly using a 18mm socket \ wrench. Torque 184 ft-lb.

42. Locate Skyjacker # F460BLE-F Front Brake Line Extension Bracket.

Remove OEM front bracket line bracket from OEM frame mount using a 10mm socket \ wrench. (Photo # 26) Install supplied Skyjacker # F460BLE-F Front Brake Line Extension Bracket into OEM frame mount with OEM bolt using a 10mm socket \ wrench.

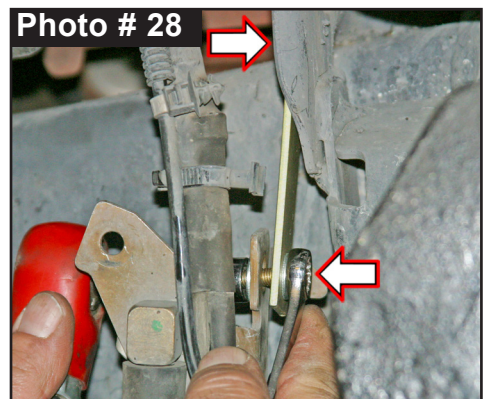
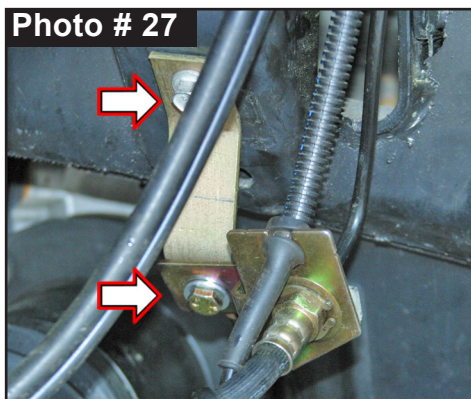
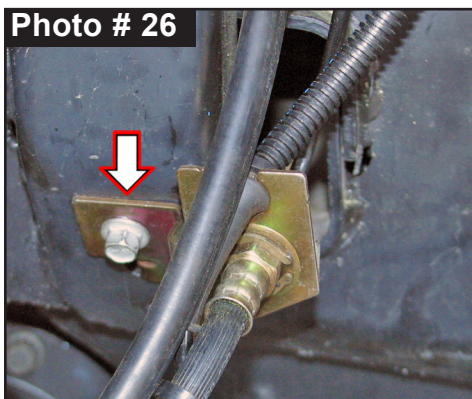
Attach OEM front brake line bracket to Skyjacker Bracket with supplied 1/4" x 1" Fine Thread Bolt with 1/4" SAE Washer through both brackets. (Photo # 27) Attach with supplied 1/4" SAE Washer & 1/4" Nylon Insert Lock Nut using a 7/16" socket \ wrench.

Note: There are some OEM front brake line mounting configurations that will require modifications to Skyjacker Brake Line Bracket.

One requires that Skyjacker Brake Line Bracket be flattened. Flatten Skyjacker Brake Line Bracket bend in a vise or simply tap flat with a hammer. (Photo # 28)

Another requires that Skyjacker Brake Line Bracket upper mounting hole be enlarged. Place Skyjacker Brake Line Bracket in a vise & drill out upper mounting hole using a 13/32" drill bit.

Note: Perform Steps 35-42 on Opposite Side Now. Then Proceed to Next Steps.



43. Locate Skyjacker # SBL460-B Front Sway Bar Lowering Bracket. **Tech Note:** Bracket bend goes toward inside of vehicle & flat side of bracket goes toward outside of vehicle. Bracket's 'pointed' flat side points toward rear of vehicle.

Attach Skyjacker Front Sway Bar Lowering Bracket to driver & passenger side OEM sway bar upper frame mount with OEM hardware using a 15mm socket \ wrench. (Photo # 4) Secure, but **Do Not Completely Tighten** at this time.

Attach OEM sway bar upper mounting brackets to Skyjacker Brackets with supplied 7/16" x 1-1/2" Fine Thread Bolt with 7/16" SAE Washer up through bottom of bracket. Attach with supplied 7/16" SAE Washer with 7/16" Nylon Insert Lock Nut on top using a 5/8" socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.

Attach driver & passenger side OEM sway bar end link upper mount to OEM sway bar using a 15mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.

44. Connect EPAS plugs on steering assembly. (Photo # 8) **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.

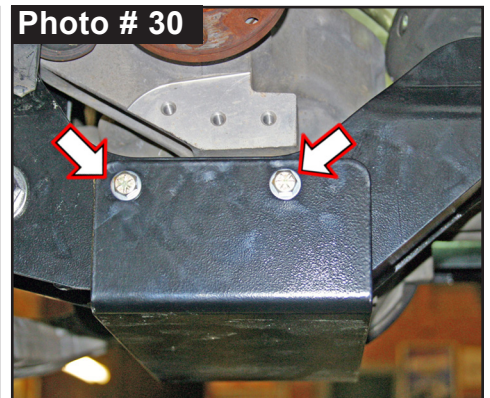
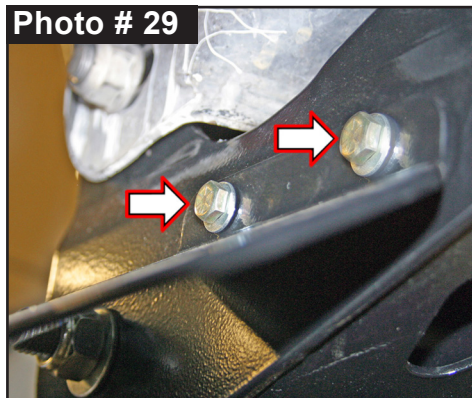
45. Locate Skyjacker # F4602SKD-S Front Differential Skid Plate.

Place narrow bend of Skyjacker Skid Plate to rear of Skyjacker front cross-member. (Photo # 29)

Place taller bend of Skyjacker Skid Plate to rear of Skyjacker rear crossmember. (Photo # 30)

Attach each mounting hole with a supplied 5/16" x 1" Fine Thread Bolt with 5/16"

SAE Washer through skid plate \ crossmember. Attach with supplied 5/16" SAE Washer with 5/16" Nylon Insert Lock Nut on top using a 1/2" socket \ wrench.



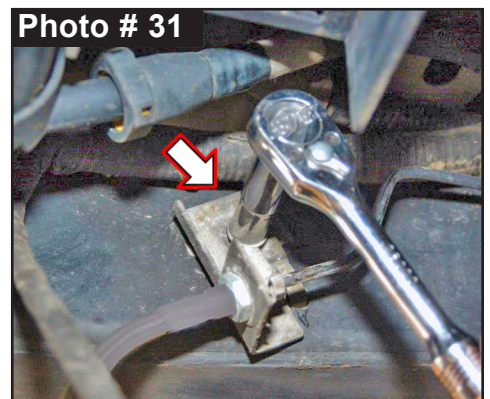
46. Install front tires \ wheels using a 21mm socket. Lower vehicle to ground. Torque lugs to OEM service manual specifications.

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

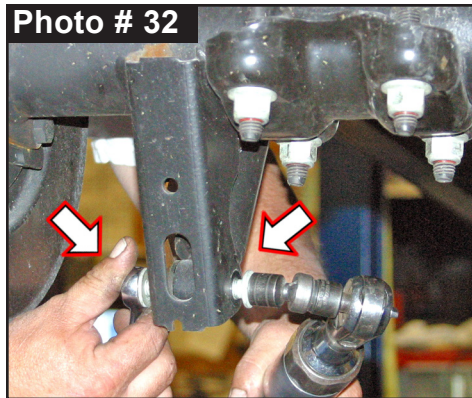
1. Chock front tires \ wheels, raise rear of vehicle & support frame rails using jack stands at indicated lift points in service manual.
2. Remove rear tires \ wheels using a 21mm socket.
3. Support rear axle with a hydraulic jack. Allow ample room to lower rear axle.

4. Disconnect OEM rear brake line bracket from frame rail using a 10mm socket \ wrench. (Photo # 31)

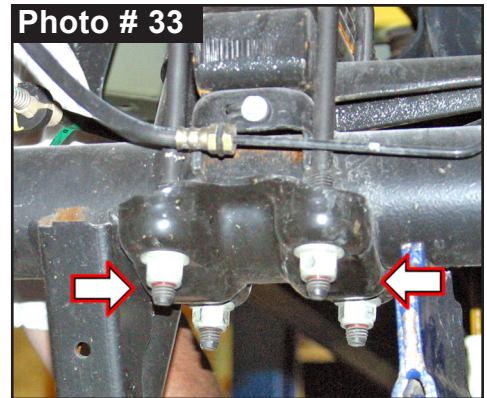
Disconnect OEM E-brake cable from OEM E-brake bracket.



5. Remove OEM rear shock using a 15mm & a 18mm socket \ wrench.
(Photo # 32)

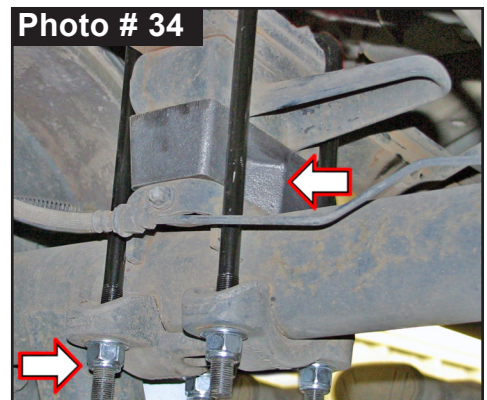


6. Remove OEM u-bolts using a 21mm socket \ wrench.
(Photo # 33)
Discard u-bolts & hardware.
Retain lower OEM u-bolt plate.



Rear Lift Option 1: Rear Block Kit Installation

7. While checking for appropriate slack in ABS lines, brake lines, rear emergency brake cables, & etc. Lower axle away from leaf springs to allow clearance for installation.
8. Clean spring pads of all debris. Position Skyjacker # RB452 4.5" Tapered Block with Dual Pin on top of axle pad. **Note:** Place taller end of tapered block toward rear of vehicle.
(Photo # 34) **Tech Note:** OEM block with built-in bump stop goes on top Skyjacker Block.



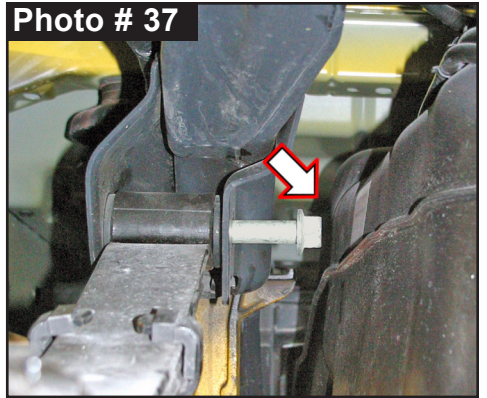
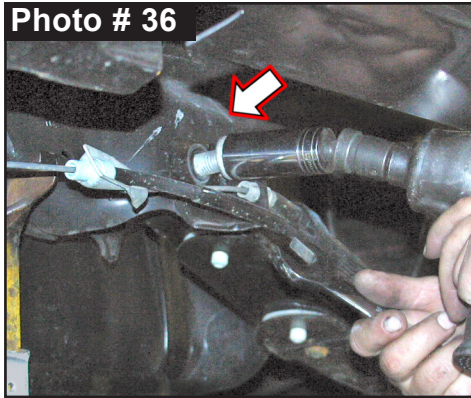
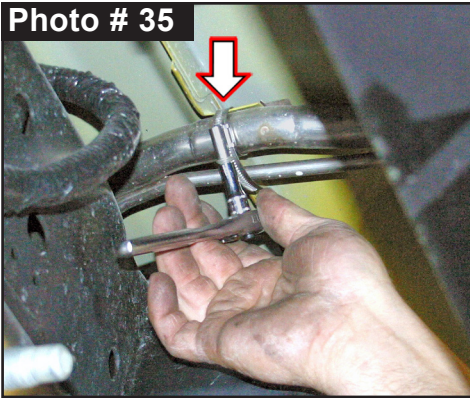
Raise axle to mate leaf springs to lift blocks.

Note: Be sure that leaf spring center bolts head seat properly into block & that block pins seat properly into top of axle pad.

9. Install Skyjacker 9/16" U-Bolts over OEM top plate \ leaf springs down into OEM u-bolt plate. Install supplied 9/16" Nylon Insert Nuts using a 13/16" socket \ wrench. (Photo # 34)
Torque u-bolts evenly using an 'X' crisscross tightening sequence. Torque 125 ft.-lbs.
Proceed to Step 14 or Step 15.

Rear Lift Option 2: Replacement Softride® Leaf Spring Installation

10. **Note:** To allow OEM axle to lower down far enough to install Skyjacker rear leaf springs, OEM fuel filler extension must be disconnected from truck bed.
Disconnect OEM fuel filler extension bolts located behind OEM fuel door. Disconnect OEM fuel extension clamp located on outside of driver side frame rail also. (Photo # 35)
11. While checking for appropriate slack in ABS lines, brake lines, rear emergency brake cables, & etc. Lower axle away from leaf springs to allow clearance for installation.
Loosen front spring eye bolt using a 21mm socket \ wrench. (Photo # 36)
Tech Note: On driver side, support fuel tank with a hydraulic jack. Loosen OEM fuel tank straps to allow gas tank to slide over enough to remove leaf spring eye bolt. (Photo # 37)
Tech Note: On passenger side, disconnect & remove OEM exhaust. Remove exhaust from in front of OEM muffler.
Loosen rear spring eye bolt using a 21mm socket \ wrench.
Loosen rear shackle eye bolt using a 21mm socket \ wrench.
Disconnect spring eye bolts & remove leaf spring with rear shackle attached.



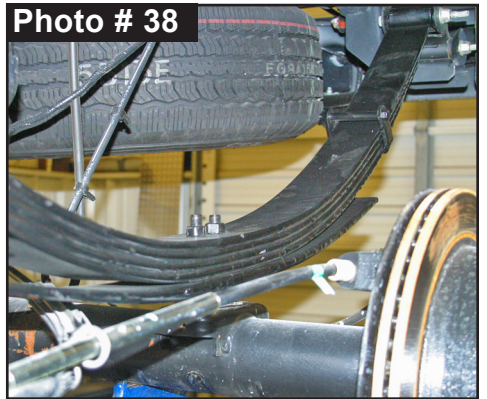
12 Attach 'short' end of Skyjacker leaf spring to forward frame mount with OEM hardware. (Photo # 38)

Attach 'long' end of Skyjacker leaf spring to rear shackle mount with OEM hardware.

Note: Skyjacker springs have a degree shim attached to bottom to correct pinion angle.

Place taller end of shim toward rear of vehicle.

Secure OEM hardware, but **Do Not Completely Tighten** leaf spring hardware at this time. To set spring bushings properly for ride height, these will be tightened once vehicle is on ground with full vehicle weight on tires \ wheels.



13. OEM block with built-in bump stop remains. Clean spring pads & OEM block of all debris. Install Skyjacker springs on top of OEM block.

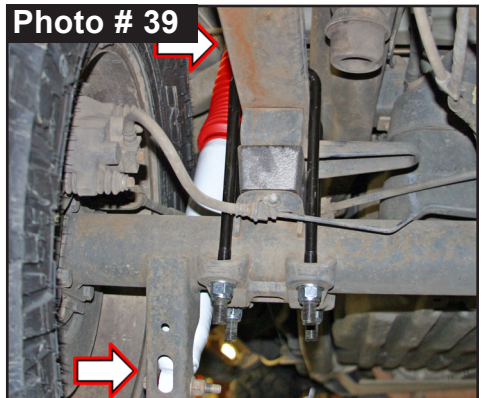
Raise axle to mate leaf springs to OEM block \ OEM axle pad. **Note:** Be sure that leaf spring center bolt heads seat properly into OEM block & that OEM block pins seat properly into top of axle pad.

Install Skyjacker supplied 9/16" U-bolts over axle up into OEM U-bolt plate. Install supplied 9/16" Nylon Insert Nuts using a 13/16" socket \ wrench. Tighten U-bolts evenly using an 'X' crisscross tightening sequence. Torque to 125 ft-lbs. **Proceed to Step 14 or Step 15.**

NOTE: Kit With HYDRO, NITRO, Black MAX, or M95 Monotube: Proceed to Step 14.

Kit With ADX 2.0 Remote Reservoir: Proceed to Step 15.

14. Install Skyjacker rear shock. (Photo # 39) Connect upper shock mount with OEM hardware using a 15mm & a 18mm socket \ wrench. Connect lower shock mount with OEM hardware using a 15mm & a 18mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.



15. Locate Skyjacker ADX rear shock. Loosely assemble two (2) supplied reservoir clamps with two (2) supplied hex head bolts using a Hex Key socket. Position clamp into place around shock body & reservoir cylinder. Secure, but **Do Not Completely Tighten** at this time.
Install Skyjacker ADX rear shock. Connect upper shock mount with OEM hardware using a 15mm & a 18mm socket \wrench. Connect lower shock mount with OEM hardware using a 15mm & a 18mm socket \wrench. Secure, but **Do Not Completely Tighten** at this time.
CAUTION: Make Sure ADX Shock Reservoir \ Reservoir Hose Does Not & Will Not Make Contact with Anything Throughout Full Travel Cycle of Suspension. (frame, frame brackets, springs, brake lines, exhaust, etc.) For proper clearance, it may be necessary to change location or orientation of reservoir on shock body. Use a Hex Key socket to loosen clamps to position reservoir cylinder as needed.
16. Locate Skyjacker # DVL10 Rear Brake Line Extension Bracket.
Install supplied Skyjacker # DVL10 Rear Brake Line Extension Bracket into OEM frame mount with OEM bolt using a 10mm socket \wrench. (Photo # 31)
Attach OEM front brake line bracket to Skyjacker Bracket with supplied 1/4" x 1" Fine Thread Bolt with 1/4" SAE Washer through both brackets.
Attach with supplied 1/4" SAE Washer & 1/4" Nylon Insert Lock Nut using a 7/16" socket \wrench.
Reconnect OEM E-brake cable to OEM E-brake bracket.
17. If disconnected for Skyjacker Replacement Rear Leaf Springs:
Reconnect OEM fuel extension clamp located on outside of driver side frame rail. (Photo # 34)
Reconnect OEM fuel filler extension bolts located behind OEM fuel door.
On driver side, reconnect OEM gas tank straps. (Photo # 35)
On passenger side, reconnect OEM exhaust.
18. Install rear tires \wheels using a 21mm socket & lower rear of vehicle to ground.

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 Shocks & Reservoirs, control arms, brake hoses, ABS wiring, etc.
If Suspension Component Contact or Interference is Present, Lower Coil Spring Seat by Removing a Coil Spring Seat Spacer Ring Until No Contact or Interference is Present.
3. **Front Tighten & Torque Sequence.**
Skyjacker \OEM strut to upper mount using a 15mm socket \wrench. Torque 30 ft-lbs.
Skyjacker \OEM strut to lower mount using a 21mm & 27mm or a 1-1/16" & 1-3/16" socket \wrench. Torque 351 ft-lbs. ('Ford Torque Specifications' for this bolt).
Tie rod end to steering knuckle using a 21mm socket \wrench. Torque 111 ft-lbs.
Skyjacker Sway Bar Lowering Bracket to frame using a 15mm socket \wrench.
Torque 30 ft-lbs.
OEM sway bar to Skyjacker Sway Bar Lowering Bracket using a 5/8 socket \wrench.
Torque 60 ft-lbs.
OEM sway bar end link to OEM sway bar using a 15mm socket \wrench. Torque 30 ft-lbs.

4. **Rear Tighten & Torque Sequence.**

Tighten Shock Bushings until bushing starts to swell slightly.

ADX Reservoir clamp. Double check position & clearance. Tighten with Hex Key socket.

Tighten Leaf Springs in this sequence:

Front spring eye bolt. Rear spring eye bolt. Rear shackle eye bolt.

Torque u-bolts evenly using an 'X' crisscross tightening sequence. Torque 125 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.
- **Note:** Periodically re-torque OEM upper \ lower ball joints & OEM outer tie rod ends.

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	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

**Above Specifications Are Not to Be Used
When Bolt Is Being Installed With a Bushing.**

Seat Belts Save Lives, Please Wear Your Seat Belt.

OEM Rear Crossmember Cut Template

