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2015-2020 Ford F-150 4WD 4.5" - 6" Suspension Lift Installation Instructions

Required Tools List:

- **SAE Sockets \ Wrenches**
  (7/16", 1/2", 9/16", 5/8", 3/4" & 7/8")
- **Metric Hex Key & Metric Sockets \ Wrenches**
  (5mm & 8mm Hex Keys, 8mm, 10mm, 13mm, 15mm, 17mm, 18mm, 21mm, 22mm, & 27mm)
- **Jack Stands**
- **Floor Jack**
- **Wheel Chocks**
- **Measuring Tape**
- **Safety Glasses**
- **Paint Marker**
- **Torque Wrench**
- **Ball Peen Hammer**
- **Rubber Mallet**
- **Standard Screwdriver**
- **Power Drill**
- **Drill Bits** 13/32" & 1/2"
- **Reciprocating Saw or Suitable Cutting Tool**
- **Power Grinder**
- **Paint \ Undercoating**
- **Plastic Fastener Removal Tool**



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

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

Driver Side Front: _____ Passenger Side Front: _____

Driver Side Rear: _____ Passenger Side Rear: _____

Important Notes:

- If Larger Tires (10% More Than the 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 the Vehicle to the OEM Specifications.
- Twenty (20) Inch Diameter or Larger Wheels Must Be Used With the Installation of this Suspension Lift.

Component Box Breakdown:

Part # F15461A

Item #	Description	Qty
F1546L	LEFT STEERING KNUCKLE	1
F1546R	RIGHT STEERING KNUCKLE	1
F1546FCM-B	FRONT CROSSMEMBER	1
F1546RCM-B	REAR CROSSMEMBER	1

Item #	Description	Qty
F1546SBL-P	SWAY BAR BRACKET, PA. SIDE	1
F960DDB-B	FRONT DIFF BRACKET, DR. SIDE	1
F960DRB-B	REAR DIFF BRACKET, DR. SIDE	1
F960PDB-B	FRONT DIFF BRACKET, PA. SIDE	1

Component Box Breakdown:

Part # H-BOX F1545BB (4.5"/BLACK MAX)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1545BH	1
B8560	BLACK MAX SHOCK W/BOOT	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1545BH (4.5"/HYDRO)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1545BH	1
H7060	HYDRO SHOCK W/RED BOOT	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1545BM (4.5"/M95)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1545BH	1
M9560	M95 MONOTUBE SHOCK, M9560	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1545BN (4.5"/NITRO)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1114U	9/16 X 3-1/8 X 11-1/4 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1545BH	1
N8060	NITRO SHOCK W/RED BOOT	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1560BB (6"/BLACK MAX)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1312U	9/16 X 3-1/8 X 13-1/2 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1560BH	1
B8579	BLACK MAX SHOCK W/BOOT	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1560BH (6"/HYDRO)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1312U	9/16 X 3-1/8 X 13-1/2 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1560BH	1
H7079	HYDRO SHOCK W/RED BOOT	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1560BM (6"/M95)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1312U	9/16 X 3-1/8 X 13-1/2 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1560BH	1
M9579	M95 MONOTUBE SHOCK, M9560	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Component Box Breakdown:

Part # H-BOX F1560BN (6"/NITRO)

Item #	Description	Qty
F1546SKD-S	DIFFERENTIAL SKID PLATE	1
RB452	DUAL PIN REAR BLOCK, 4.5	2
916X318X1312U	9/16 X 3-1/8 X 13-1/2 SQUARE	4
H-BOX F1545BH	HDWR BOX: F1560BH	1
N8079	NITRO SHOCK W/RED BOOT	2
I-F1546SP	INST SHEET: F1545BB/BH/BM/BN	1

Hardware Box Breakdown:

Part # H-BOX F1545BH AND # H-BOX F1560BH

Item #	Description	Qty
CBL255-B	CARRIER BEARING LWR BRKT	1
F1546RCM-8	REAR CROSSMEMBER BRACE	1
(F945MS-S Included With H-BOX F1545BH)		
F945MS-S	FRONT STRUT SPACER, 4.5 INCH	2
(F960MS-S Included With H-BOX F1560BH)		
F960MS-S	FRONT STRUT SPACER, 6 INCH	2
F960DSS-S	FRONT DRIVESHAFT SPACER	1
HB-F1546-BLE	HDWR BAG: BRAKE LINE BRKTS	1
HB-F1546-CBL	HDWR BAG: CARRIER BEARING	1
HB-F1546-CM	HDWR BAG: CROSSMEMBER	1
HB-F946-MS	HDWR BAG: FRT STRUT SPACER	1
HB-F960-DB	HDWR BAG: DIFF BRACKETS	1
HB-F960-DSS	HDWR BAG: DRIVESHAFT SPACER	1
HB-F960-SBL	HDWR BAG: SWAY BAR	1
HB-CARBSKD	HDWR BAG: SKID PLATE	1
HB-916	HDWR BAG: 9/16 LOCK NUT	1

Hardware Bags Breakdown:

Part # HB-F1546-BLE

Item #	Description	Qty
BTIE-K	BLACK PLASTIC CABLE TIE	10
DVL10	BRAKE LINE BRACKET, FLAT	1
RBLE10-S	BRAKE LINE EXT BRACKET	2
VT53229	VACUUM TUBE: 5/32 X 29 LONG	2
VT76429	VACUUM TUBE: 7/64 X 29 LONG	2
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

Part # HB-F1546-CBL

Item #	Description	Qty
10MMX90MMB	10MM X 90MM METRIC BOLT	2
38SAEW	3/8 SAE WASHER	2

Part # HB-F1546-CM

Item #	Description	Qty
18X150MMB	18MM X 150MM METRIC BOLT	2
18X50MMB	18MM X 50MM METRIC BOLT	2
18MMN	18MM METRIC N/I LOCK NUT	4
34SAEW	3/4 SAE WASHER	8
38X114FTB	3/8 X 1-1/4 FINE THREAD BOLT	2
38SAEW	3/8 SAE WASHER	4
38FTN	3/8 FINE THREAD N/I LOCK NUT	2
12X112FTB	1/2 X 1-1/2 FINE THREAD BOLT	4
12X2FTB	1/2 X 2 FINE THREAD BOLT	2
12SAEW	1/2 SAE WASHER	12
12FTN	1/2 FINE THREAD N/I LOCK NUT	6
CS8125	X-MEMBER CRUSH SLEEVE, 13/16	2

Hardware Bags Breakdown:

Part # HB-F946-MS

Item #	Description	Qty
10MMX1.5NFN	10MM NYLON FLANGE NUT	6
10MMX30CARB	10MM X 30MM CARRIAGE BOLT	6
10MMPN	10MM PUSH NUT	6

Part # HB-F960-DB

Item #	Description	Qty
14X90MMB	14MM X 90MM METRIC BOLT	3
14MMN	14MM METRIC N/I LOCK NUT	3
916SAEW	9/16 SAE WASHER	2

Part # HB-F960-DSS

Item #	Description	Qty
10X80SHB	10 X 80MM SOCKET HEAD BOLT	6
LT100	THREAD LOCK COMPOUND TUBE	1

Part # HB-F960-SBL

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

Part # HB-CARDSKD

Item #	Description	Qty
516X1CARB	5/16 X 1 CARRIAGE BOLT	4
516CTN	5/16 COARSE THRD N/I LOCK NUT	4
516SAEW	5/16 SAE WASHER	4

Part # HB-916

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

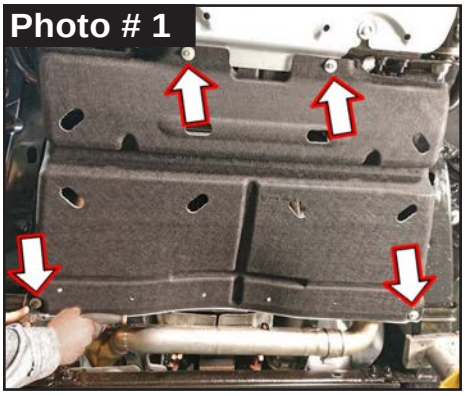
Front Installation:

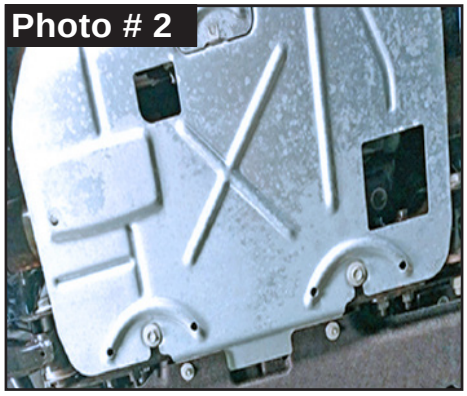
Note: Save all factory components and hardware for reuse, unless noted.

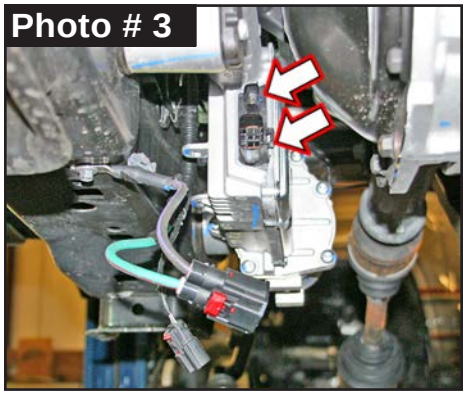
1. With the vehicle on flat level ground, set the emergency brake & chock the rear tires\wheels.
2. Raise the front of the vehicle, support the frame rails using jack stands at the indicated lift points in the service manual.
3. Remove the front tires\wheels using a 21mm socket.
4. If equipped, remove the OEM lower splash guard by removing the four (4) front bolts with a 13mm socket\wrench. (See Photo # 1) Discard splash guard.
5. If equipped, remove the OEM lower skid plate by removing the four (4) front bolts with a 13mm socket\wrench. (See Photo # 2) Discard skid plate.

Note: Disconnect the Electric Power Assist Steering (EPAS) connector. The sudden jar of a hammer blow or impact wrench to other suspension components could cause the contacts of the EPAS internal power relay to arch or short out.

6. Disconnect the two (2) EPAS plugs on the steering assembly next to the front differential. (See Photo # 3)

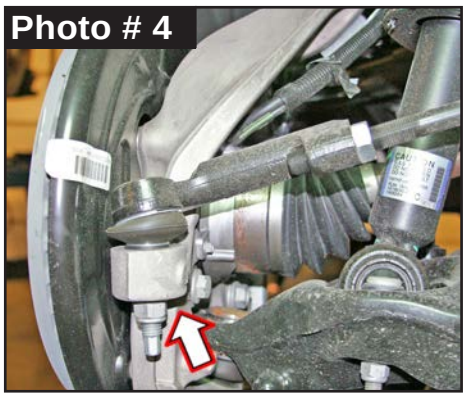


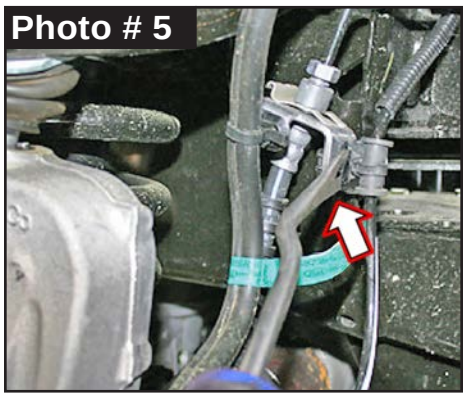




Note: **Perform Steps 7-20 on One Side At A Time. Complete Steps 7-20 on One Side, THEN Go to the Opposite Side & Repeat Same Steps.**

7. Loosen, but do not remove the OEM tie rod nut from the OEM knuckle using a 21mm socket\wrench. (See Photo # 4) To unseat the tie rod taper, strike the tie rod boss of the knuckle at the tie rod end to dislodge.
   Note: ONLY strike the knuckle portion. Remove the nut and remove the tie rod end from the knuckle.
8. Disconnect the OEM vacuum module line from the brake line bracket at the frame mount using a plastic fastener removal tool. (See Photo # 5)





9. Disconnect the OEM brake line bracket from the rearward side of the OEM knuckle using a 10mm socket \ wrench. Disconnect the OEM ABS sensor wire bracket using a 8mm socket \ wrench. (See Photo # 6)

10. Disconnect the brake caliper from the OEM knuckle using a 21mm socket \ wrench. (See Photo # 7) **Tech Note:** Hang the brake caliper on the frame out of the way with a hook or bungee. To prevent damage, **Do Not** hang the brake caliper by the rubber brake line.

11. Remove the OEM brake rotor. Remove the OEM CV shaft nut dust cover from the center of the OEM hub assembly with a standard screwdriver. Remove the OEM CV shaft nut using a 15mm socket. (See Photo # 8)

Photo # 6

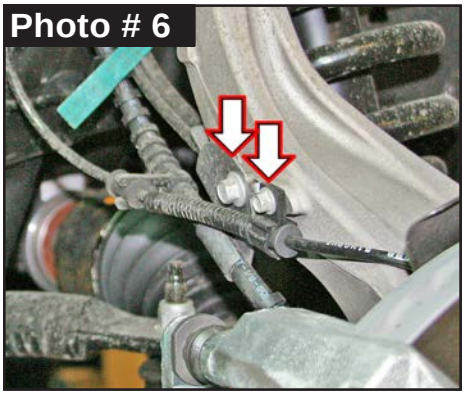


Photo # 7

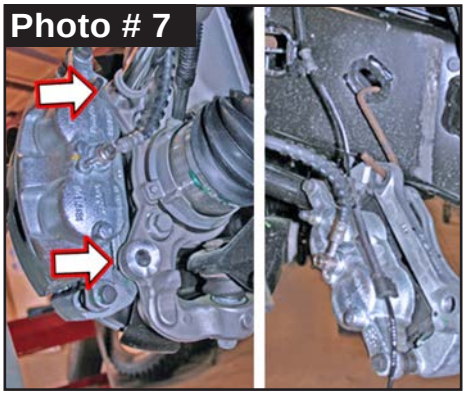
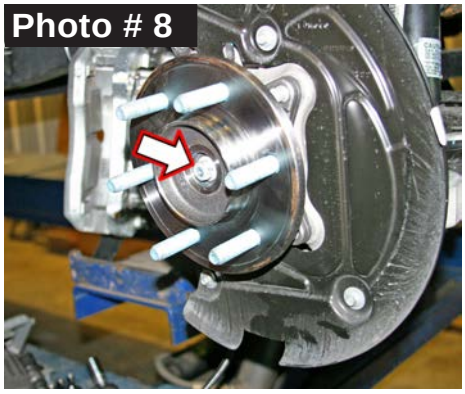


Photo # 8



12. Disconnect the ABS sensor bracket from the outward side of the OEM knuckle using a 5mm hex key wrench. (See Photo # 9)

13. Disconnect the OEM integrated vacuum line from the OEM 4WD actuator at the rearward side of the knuckle. (See Photo # 10)

14. Remove the three (3) bolts and remove the OEM disc brake shield using a 8mm socket \ wrench. (See Photo # 11)

Photo # 9

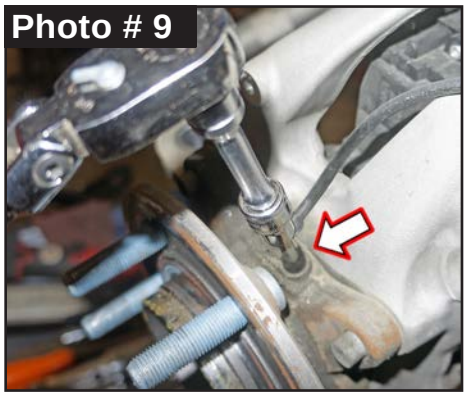


Photo # 10

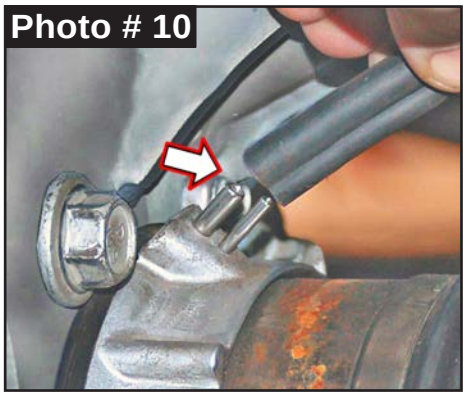
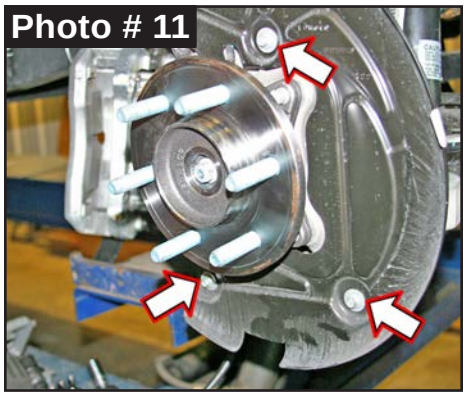
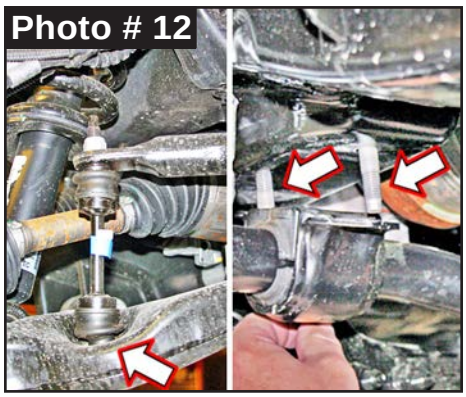


Photo # 11



15. Disconnect the OEM sway bar end link from the OEM lower control arm using a 18mm socket \ wrench. (See Photo # 12) Mark the Driver & Passenger side orientation of the sway bar body. Disconnect the OEM sway bar mounting brackets from the frame using a 15mm socket \ wrench. (See Photo # 12) Remove the sway bar from the vehicle. Remove the sway bar stud plates from each side and retain for later use.

Photo # 12



16. Support the OEM lower control arm with a jack. Loosen, but do not remove the upper OEM ball joint nut from the OEM knuckle using an 8mm wrench and a 21mm wrench. (See Photo # 13) To unseat the ball joint taper, strike the ball joint boss of the knuckle to dislodge. **Note:** ONLY strike the knuckle portion. Remove the nut and remove the ball joint from the knuckle. Ease the knuckle outward to rest back away from the front strut assembly.

17. Loosen, but do not remove the OEM lower control arm ball joint nut from the OEM knuckle using a 21mm wrench. (See Photo # 14) To unseat the ball joint taper, strike the ball joint boss of the knuckle to dislodge. **Note:** ONLY strike the knuckle portion. Remove the nut and remove the ball joint from the knuckle. Remove the knuckle \ hub assembly.

18. Remove the three (3) OEM upper strut mounting nuts from the frame mount using a 15mm socket \ wrench. (See Photo # 15) **Note:** Do Not remove the center strut rod nut.

Photo # 13

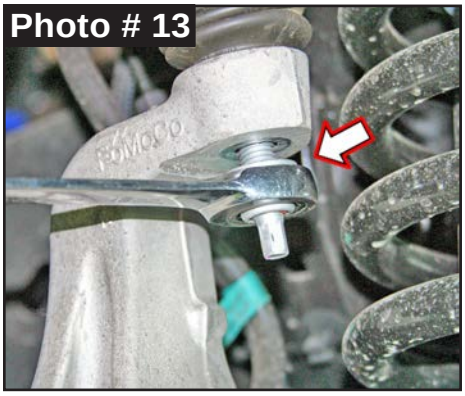


Photo # 14

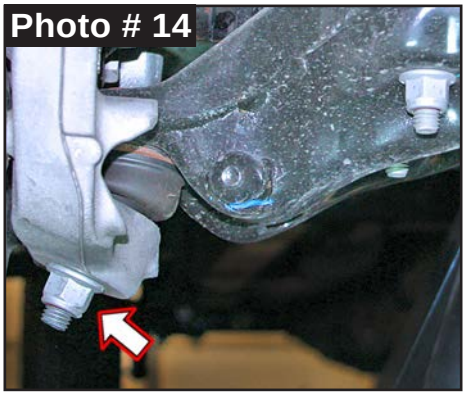
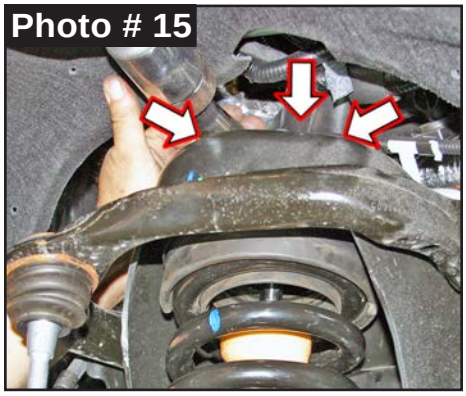


Photo # 15



19. Remove the two (2) OEM lower strut mount nuts from the bottom side of the OEM lower control arm using a 18mm socket \ wrench. (See Photo # 16) Remove the OEM strut assembly.

20. Remove the OEM lower control arm front & rear mounting hardware using a 21mm socket \ wrench & a 27mm socket \ wrench. (See Photo # 17) Remove the OEM lower control arm. Retain arm & hardware for later use.

Photo # 16

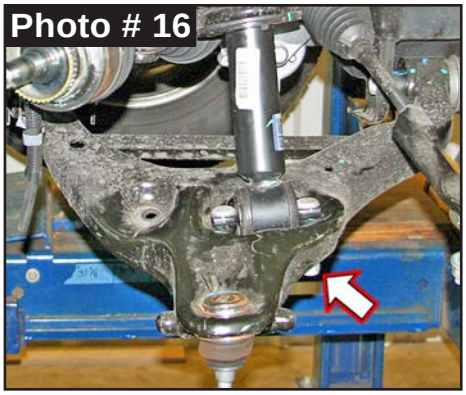
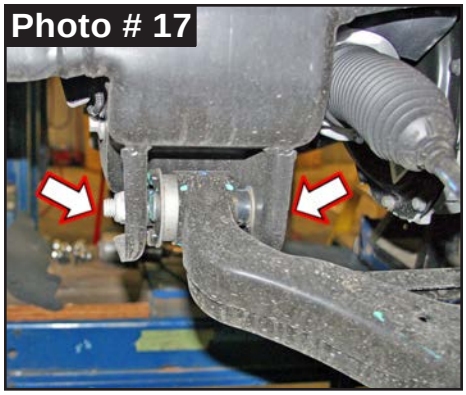


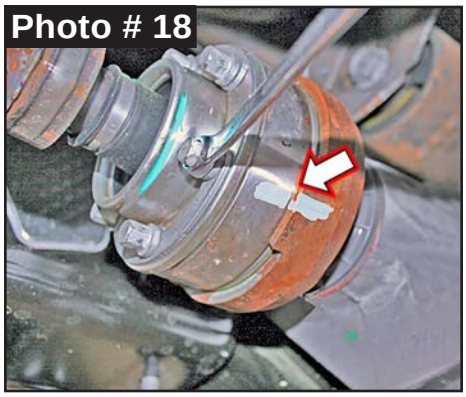
Photo # 17



Note: **Perform Steps 7-20 on the Opposite Side At This Time.**

21. For proper reassembly realignment, mark the position of the OEM front differential flange & OEM driveshaft flange. (See Photo # 18) Remove the six (6) OEM front driveshaft mounting bolts from the OEM front differential using a 10mm socket \ wrench. Remove the retaining rings and retain for later use. **Tech Note**: Hang the driveshaft on the frame out of the way with wire or a bungee strap.

Photo # 18

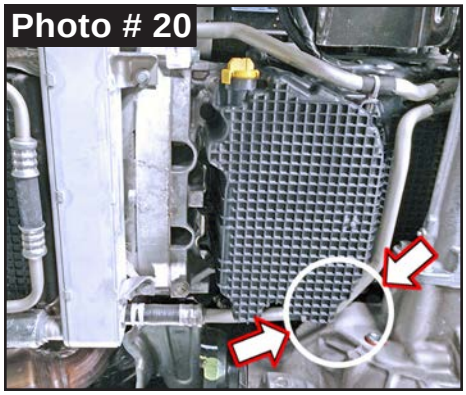


22. Remove the four (4) OEM rear crossmember frame connecting bolts using a 15mm socket \ wrench. (See Photo # 19)
Remove the OEM rear crossmember.
Retain hardware for later use.



NOTICE: The Driver Side Rear Lower Control Arm / Crossmember Mount Has to be Trimmed on ALL Models to Allow Clearance for the Front Driveshaft.

CAUTION: IF Equipped with the Second-Generation 3.5-L EcoBoost V6 with the 10R80 10-Speed Automatic Transmission, The Driver Side Rear Lower Control Arm / Crossmember Mount has to be trimmed BEFORE the differential can be removed due to the clearance in-between the differential and the oil pan. (See Photo # 20) Usually equipped in 2017-20 Models.

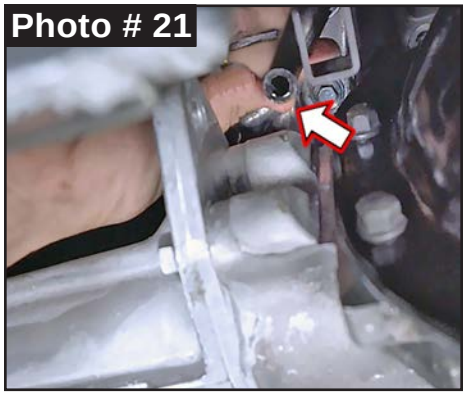


On Other Engine Combinations, the differential can be removed first, then the crossmember mount can be trimmed.

Note: IF Equipped with the Second-Generation 3.5-L EcoBoost V6 with the 10R80 10-Speed Automatic Transmission, **Proceed to Step 24**.

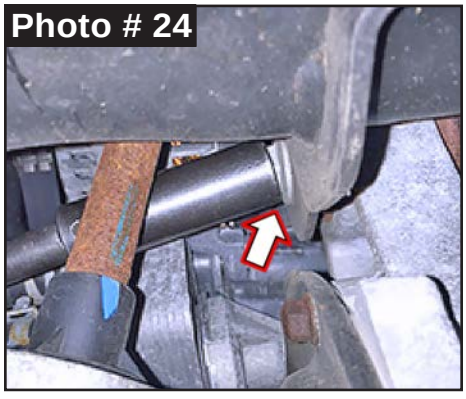
Note: Other Engine Combinations, **Proceed to Step 23**.

23. Disconnect OEM differential vent tube from OEM differential. (See Photo # 21) **Tech Note**: The vent tube is located on the top of the center section towards the middle of the vehicle.
Support the OEM front differential with a transmission jack, then remove the OEM differential mounting bolts.
First remove the driver side rear differential bolt using a 21mm socket \ wrench. (See Photo # 22)
Next remove the driver side front differential bolt using a 18mm socket \ wrench. (See Photo # 23)
Then remove the passenger side front differential bolt using a 18mm socket \ wrench. (See Photo # 24)
Once these bolts are removed, carefully lower the differential assembly out of the vehicle.









24. It will now be necessary to cut the OEM rear crossmember for differential clearance when the lift is installed. **CAUTION:** When using a power cutting tool or plasma cutter, beware of the sparks and the undercoating. Take precautions to cover yourself, the vehicle and the floor from this extremely HOT material.

    Locate the Driver Side OEM Rear Crossmember Mount Bracket. You will be removing sections of the factory mount to be able to mount the Skyjacker crossmember. (See Photos # 28 & 30)

    On the Forward Outer Edge of the OEM bracket, Measure from the Top of the Slotted Hole Up 1.5". Mark a straight cut line parallel to the slotted hole on the bracket. (See Photo # 25)

    On the Rearward Outer Edge of the OEM bracket, Measure from the Top of the Slotted Hole Up 2.75". Mark a straight cut line parallel to the slotted hole on the bracket. (See Photo # 26)

    On the Inside Edge of the OEM bracket, mark a cut line using the Rearward Outer Edge across the top of the bracket. (See Photo # 27)

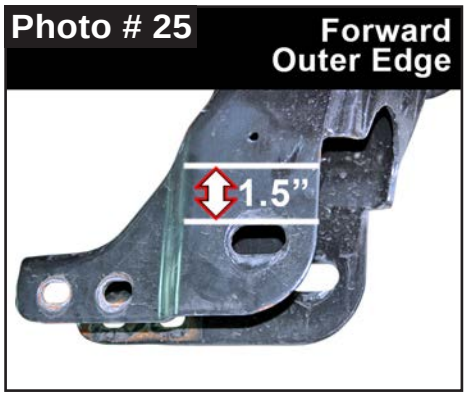
    Mark a cut line from the Forward Outer Edge Up to the Inside Edge. (See Photo # 27)

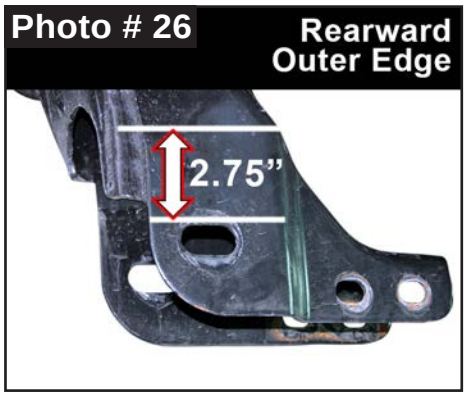
    Use a suitable Cut Off Tool, Sawzall Reciprocating Saw, etc to cut along the marked edges. (See Photo # 28)

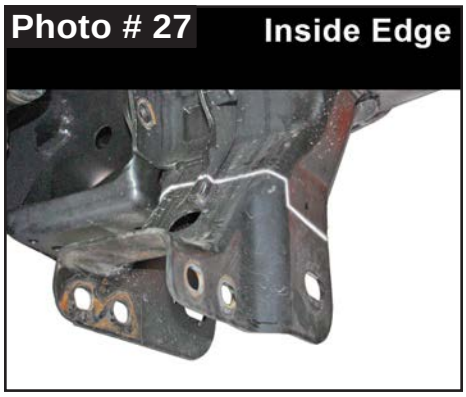
    On the Forward Outer Edge of the OEM bracket, drill out the factory hole using a drill & 13/32" drill bit. (See Photo # 29)

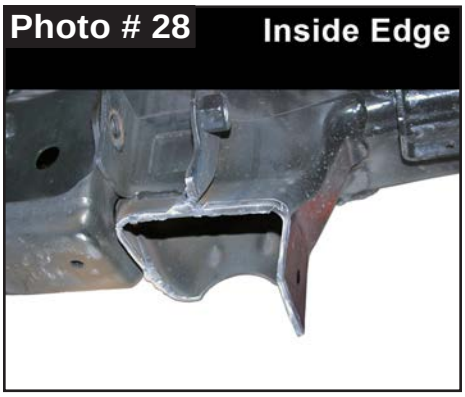
    Refer to the 3D Cad model for an example of what the OEM brackets will look like once cut & drilled. (See Photo # 30)

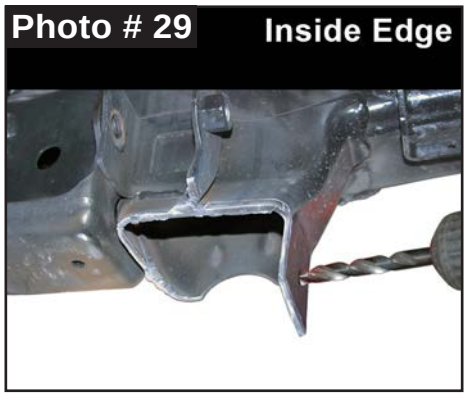
    Note: File smooth any burrs or sharp edges on the OEM bracket, then paint or undercoat all exposed metal.

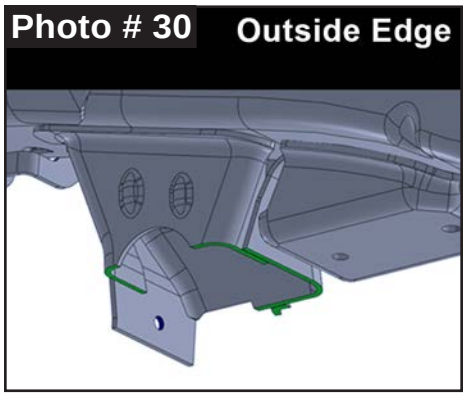






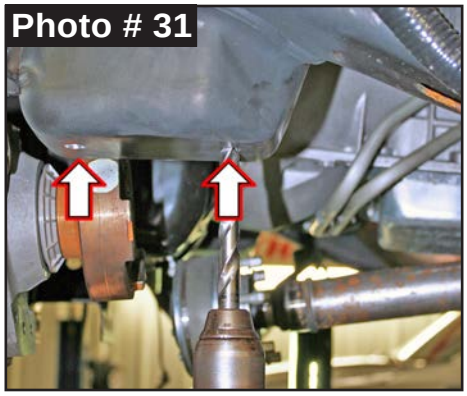


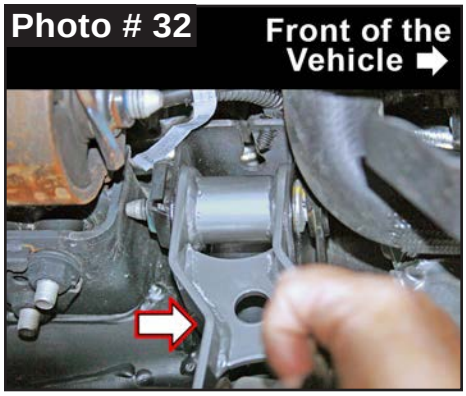




Note: IF Equipped with the Second-Generation 3.5-L EcoBoost V6 with the 10R80 10-Speed Automatic Transmission, **Proceed Back to Step 23**.

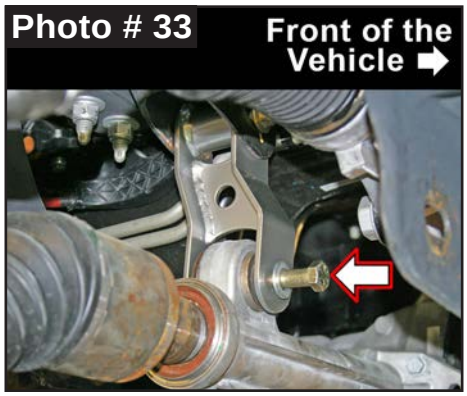
25. On the driver side frame, drill out the two (2) OEM Sway Bar Mounting Bracket Holes using a drill & 1/2" drill bit. (See Photo # 31)

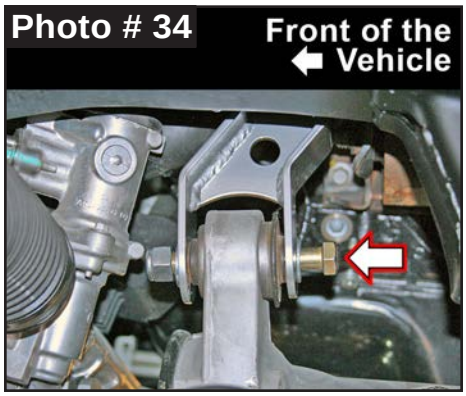




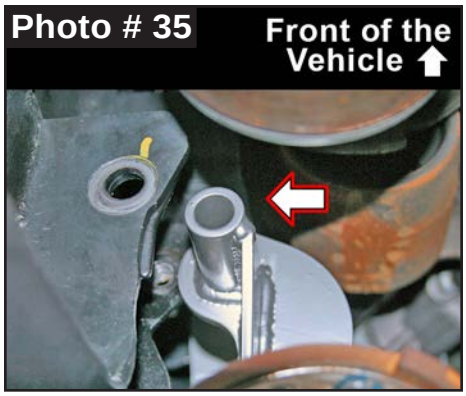
26. Install the Skyjacker Front Differential Brackets in the OEM location using the OEM hardware, a 18mm & a 21mm socket \ wrench. Install with the offset of the diff brackets facing toward the front of the vehicle. (See Photo # 32) **Note:** The Skyjacker brackets are Side Specific: The part number is on the silver bar code label. # F960DDB-B Driver Side & # F960PDB-B Passenger Side) Secure hardware, but leave loose at this time.

27. Support the OEM differential with a jack. Reconnect the OEM vent tube to differential. (See Photo # 21) Install the differential. (See Photos # 33 & # 34) Install the supplied 14mm x 90mm Bolt with 9/16" SAE Washer on the front side and a 14mm Nylon Insert Nut on the back side in the lower mounting location of the Skyjacker Driver & Passenger Side Front Differential Brackets using a 21mm & a 22mm socket \ wrench. **Note:** The supplied 9/16" SAE Washers are to be installed on the hex head side of the supplied 14mm x 90mm bolts. Secure hardware, but leave loose at this time.



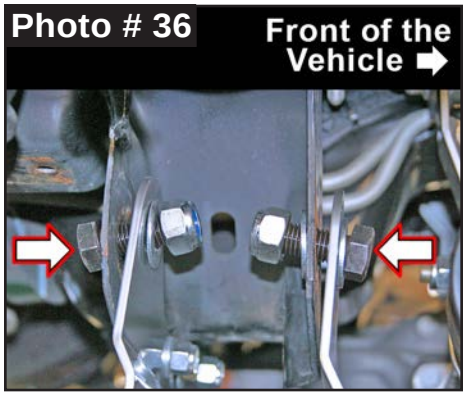


28. Install the Skyjacker # F960DRB-B Driver Side Rear Differential Bracket in the OEM location with the flat side of the Skyjacker bracket facing toward the front of the vehicle. (See Photo # 35) Use the OEM hardware & a 21mm socket \ wrench. Secure hardware, but leave loose at this time.



29. Install the Skyjacker # F1546RCM-B Rear Crossmember, with the driver side integrated sway bar lowering bracket facing toward the rear of the vehicle.

    In the Passenger side upper two (2) holes of the Skyjacker rear crossmember, install the supplied 18mm x 50mm Bolt with 3/4" SAE Washer on the outside and a 3/4" SAE Washer and a 18mm Nylon Insert Nut on the inside side using a 27mm socket \ wrench. (See Photo # 36)
    Note: The bolts install from the outside with the Nylon Insert Nut attached on the inside of the OEM mount. Secure hardware, but leave loose at this time.



30. Install the Skyjacker Crossmember Integrated Sway Bar Lowering Bracket into the two (2) drilled out holes with the supplied 1/2" x 1-1/2" Bolt with 1/2" SAE Washer on the bottom and a 1/2" SAE Washer and a 1/2" Nylon Insert Nut on the top using a 3/4" socket \ wrench. Secure hardware, but leave loose at this time. (See Photo # 37)

31. Install the Skyjacker # F1546RCM-8 Rear Crossmember Brace into the front hole of the driver side OEM rear crossmember mount that was cut and drilled & the Skyjacker Rear Crossmember hole. Use the supplied 3/8" x 1-1/4" Bolt with a 3/8" SAE Washer on the front side and a 3/8" SAE Washer and 3/8" Nylon Insert Nut on the back side with a 9/16" socket \ wrench. (See Photo # 38)

32. Install the supplied 14mm x 90mm Bolt & 14mm Nylon Insert Nut in the lower mount hole of the Skyjacker Driver Side Rear Differential Bracket & Rear Crossmember using a 21mm & a 22mm socket \ wrench. Secure hardware, but leave loose at this time. (See Photo # 39)

Photo # 37

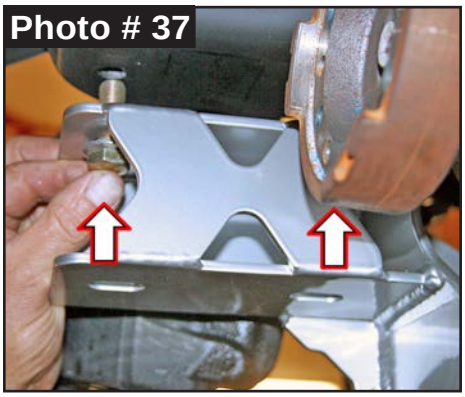


Photo # 38

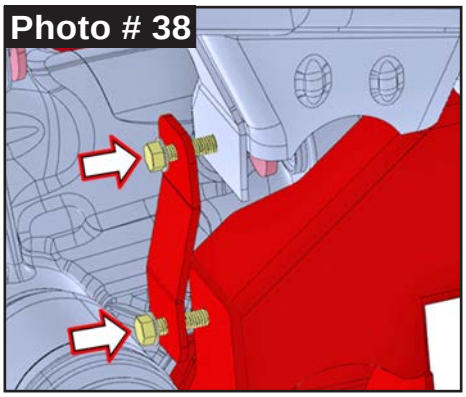
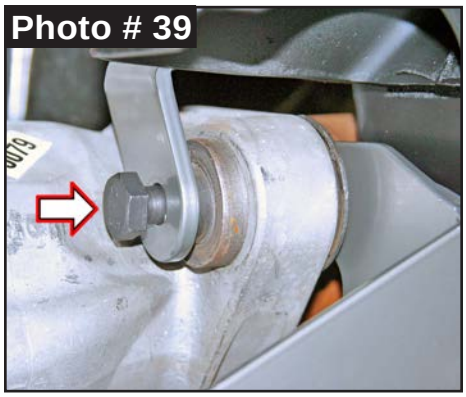


Photo # 39



33. On the Passenger side, attach the two (2) rear holes of the Skyjacker Rear Crossmember to the OEM rear crossmember mount bracket by installing the supplied 1/2" x 1-1/2" Bolts with 1/2" SAE Washer on the outside and 1/2" SAE Washer and 1/2" Nylon Insert Nut on the inside using a 3/4" socket \ wrench. Secure hardware, but leave loose at this time. (See Photo # 40)

34. On the Passenger side, attach the two (2) front holes of the Skyjacker Rear Crossmember to the OEM rear crossmember mount bracket by installing the supplied 1/2" x 2" Bolts with 1/2" SAE Washer on the outside, the # CS8125 13/16" Long Crush Sleeves in between and 1/2" SAE Washer and 1/2" Nylon Insert Nut on the inside using a 3/4" socket \ wrench. Secure hardware, but leave loose at this time. (See Photo # 41)

35. Tighten the 1/2" x 1-1/2" Bolts & 1/2" Nylon Insert Nuts located on the Skyjacker Integrated Sway Bar Lowering Bracket using a 3/4" socket \ wrench. (See Photo # 37)

36. Tighten the 18mm x 50mm Bolts & 18mm Nylon Insert Nuts in the Passenger Side Upper Rear Crossmember using a 27mm socket \ wrench. (See Photo # 36)

Photo # 40

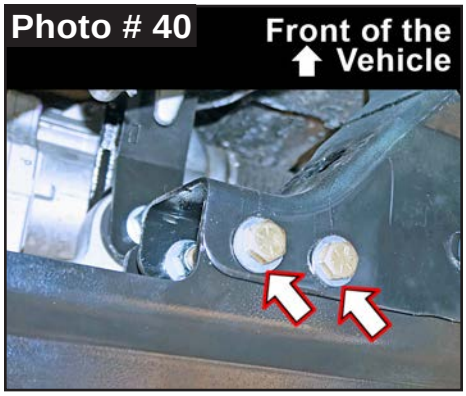
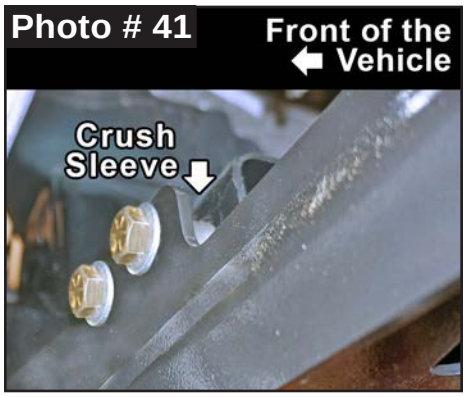


Photo # 41



37. Tighten the 1/2" x 1-1/2" Bolts, 1/2" x 2" Bolts & 1/2" Nylon Insert Nuts of the front & rear passenger side OEM crossmember bracket & Skyjacker crossmember using a 3/4" socket / wrench. (See Photos # 40 & # 41)

38. Tighten the OEM hardware at the upper mount of the Skyjacker Driver Side Rear Differential Bracket using a 21mm socket / wrench. (See Photo # 35)
    Tighten the 14mm x 90mm Bolt & 14mm Nylon Insert Nut at the lower mount of the Skyjacker Driver Side Rear Differential Bracket & Rear Crossmember using a 21mm socket / wrench & a 22mm socket / wrench. (See Photo # 39)

39. Tighten the OEM hardware at the upper mounts of the Skyjacker Driver & Passenger Side Front Differential Brackets using a 18mm & a 21mm socket \ wrench. (See Photo # 32)
    Tighten the 14mm x 90mm Bolt & 14mm Nylon Insert Nut at the lower mounts of the of the Skyjacker Driver & Passenger Side Front Differential Brackets using a 21mm & a 22mm socket \ wrench. (See Photo # 42)

40. Install the Skyjacker # F1546FCM-B Front Crossmember with the offset facing toward the front of the vehicle. Install using the supplied 18mm x 150mm Bolt with a 3/4" SAE Washer on the front side and a 3/4" SAE Washer & 18mm Nylon Insert Nut on the back side in the upper two (2) holes of the Skyjacker Crossmember using a 21mm & a 27mm socket \ wrench. (See Photo # 43)

41. Install the OEM lower control arms into the Skyjacker front & rear crossmember lower mounts using the OEM hardware and a 21mm & a 27mm socket \ wrench. (See Photo # 44)
    Note: Insert the front crossmember bolt in from front-to-rear. Insert the rear crossmember bolt in from rear-to-front.

Photo # 42 Front of the Vehicle ⬅

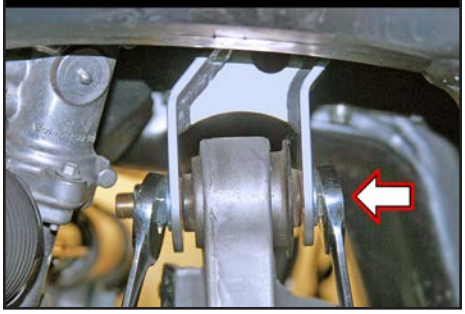


Photo # 43 Front of the Vehicle ➡

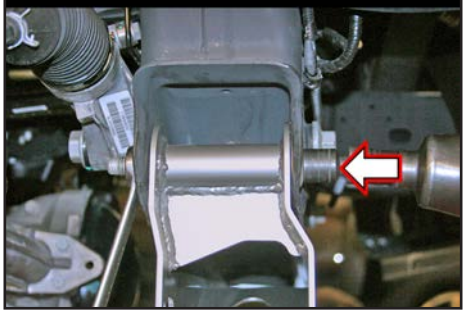
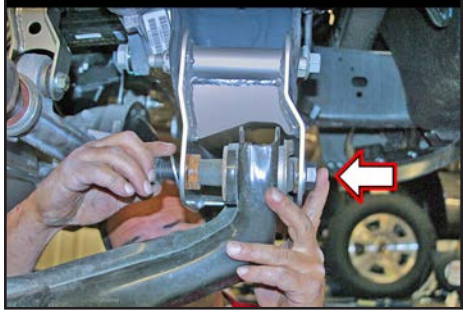


Photo # 44 Front of the Vehicle ➡

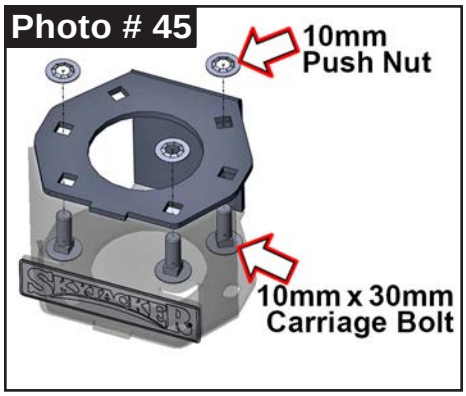


Note: **Perform Steps 42-59 on One Side At A Time. Complete Steps 42-59 on One Side, THEN Go to the Opposite Side & Repeat Same Steps.**

42. Assemble the Skyjacker Strut Spacer using the supplied 10mm x 30mm Carriage Bolts & 10mm Push Nuts. (See Photo # 45) **Note:** The Skyjacker Strut Spacers are not side specific. They are lift height specific # F945MS-S 4.5 Inch or # F960MS-S 6 Inch.

43. Install the Skyjacker Strut Spacers on the top of the OEM strut assembly using the OEM hardware & a 15mm socket \ wrench. Secure hardware, but leave loose at this time.

Photo # 45



44. Install the Skyjacker\OEM strut assembly into the upper strut mount at the frame. Align the three (3) studs of the strut spacer with the OEM mount. For proper strut alignment purposes, mark the location of the upper strut mount & Skyjacker strut spacer. (See Photo # 46)

45. Remove the Skyjacker\OEM strut assembly. Align with the previously made marks & tighten the Skyjacker Spacer to the OEM strut assembly using a 15mm socket \ wrench. (See Photo # 47)

46. Install the Skyjacker\OEM strut assembly into the upper strut mount at the frame using the supplied 10mm nuts & a 15mm socket \ wrench. (See Photo # 48)

Photo # 46



Photo # 47

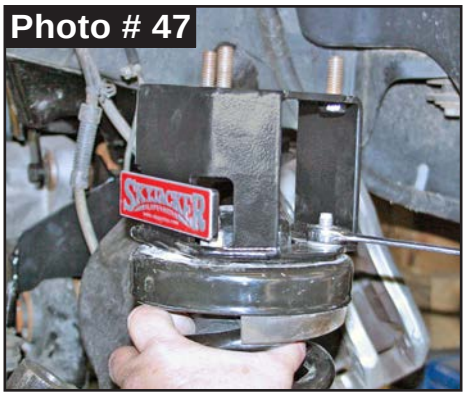
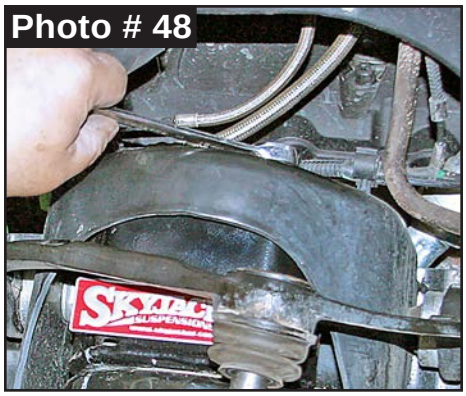


Photo # 48



47. Install the Skyjacker\OEM strut assembly into the lower control arm mount using the factory hardware and a 18mm socket \ wrench. (See Photo # 16)

48. Transfer the vacuum module and hub bearing assembly from the OEM knuckle to the Skyjacker knuckle. The knuckles are side specific. # F1546L Driver Side & # F1546R Passenger Side.

    Note: Check the orientation of the vacuum module & hub bearing assembly on the OEM knuckle.

    Remove the three (3) OEM 4WD actuator bolts using a 8mm socket \ wrench. (See Photo # 49)

    Remove the four (4) OEM hub bearing assembly using a 18mm socket \ wrench. (See Photo # 50)

    Apply the supplied Thread Lock Compound to the four (4) OEM hub bearing bolts.
    Install the OEM hub bearing assembly to the Skyjacker Steering Knuckle using the four (4) OEM hub bearing bolts & a 18mm socket \ wrench. (See Photo # 51)
    Note: Make sure that the OEM ABS sensor connection is pointing upward.

49. Install the OEM 4WD actuator using the OEM hardware & a 8mm socket \ wrench.
    Note: Make sure that the OEM hose connection is pointing upward. (See Photo # 51)

Photo # 49

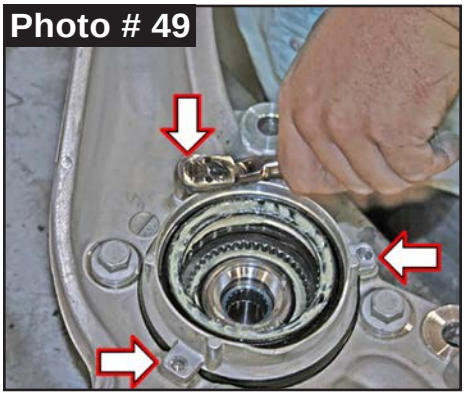


Photo # 50

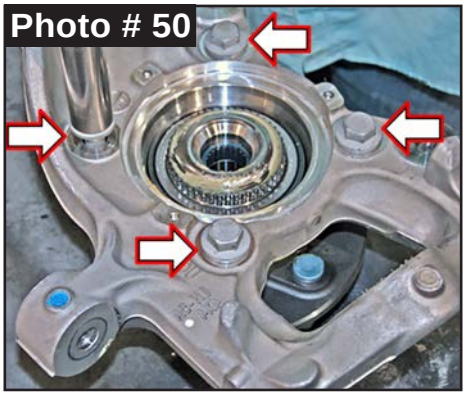
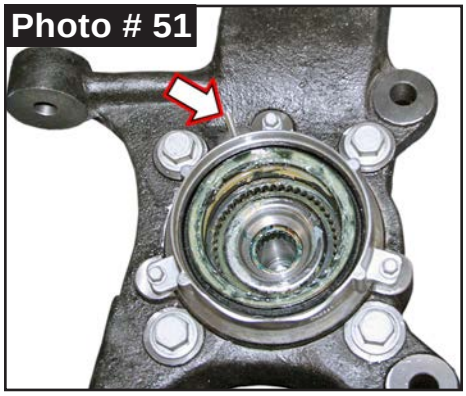
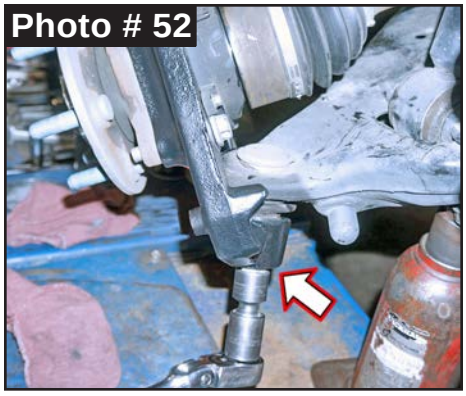


Photo # 51

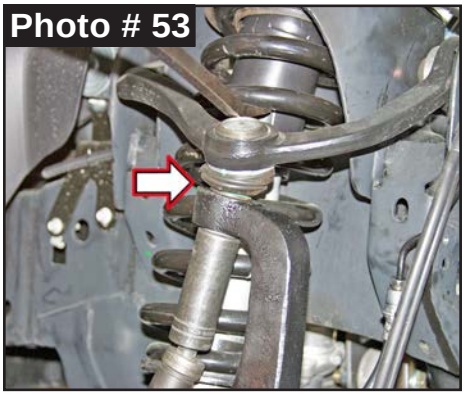


50. Connect the Skyjacker Steering Knuckle to the OEM lower control arm ball joint using the OEM hardware & a 21mm socket \ wrench. (See Photo # 52)


Photo # 52

51. Connect the OEM upper ball joint to the Skyjacker Steering Knuckle using an 8mm wrench and a 21mm wrench. (See Photo # 53) **Note:** While connecting the upper ball joint, be sure the CV shaft properly aligns into the hub. **Tech Note**: It may be necessary to use a jack to raise the OEM lower control arms in order to install the OEM upper ball joint. Install the OEM CV-shaft using the OEM hardware & a 15mm socket \ wrench. (See Photo # 54)
Install the OEM CV shaft dust cover to the center of the OEM hub assembly with a rubber mallet. Tighten & torque lower ball joint nut to 111 ft.-lbs. Tighten & torque upper ball joint nut to 103 ft.-lbs.

52. Connect the ABS sensor bracket to the outward side of the Skyjacker knuckle using the OEM hardware & a 5mm hex key wrench. (See Photo # 54) Secure the ABS sensor line to the Skyjacker steering knuckle using the supplied plastic cable tie. (See Photo # 55)


Photo # 53

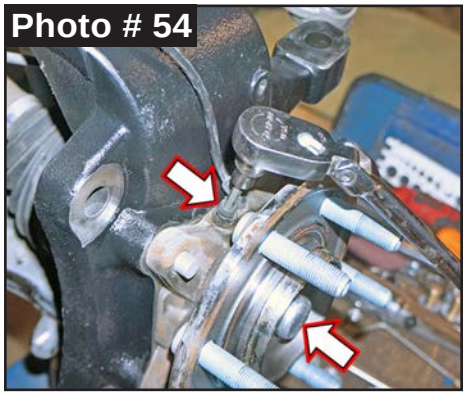
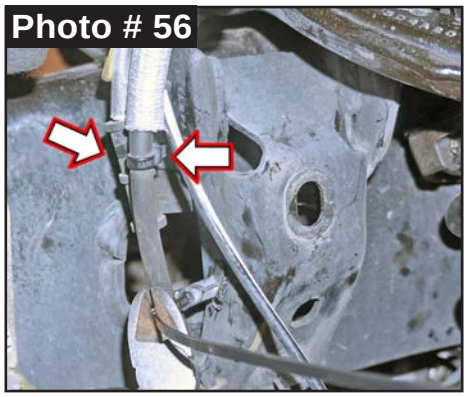
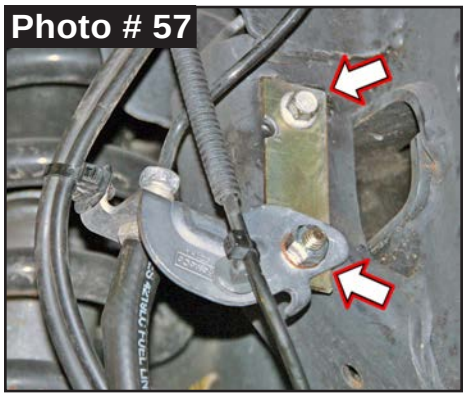

Photo # 54


Photo # 55

53. Disconnect the two (2) OEM 4WD actuator vacuum hoses at the upper frame connection. Connect the supplied Skyjacker # VT53229 7/64" & # VT76429 5/32" Vacuum Tube lines to the OEM 4WD actuator tube upper frame connection.
Use the supplied plastic cable ties to secure in place. Connect the OEM integrated vacuum line to the OEM 4WD actuator at the rearward side of the knuckle. (See Photo # 56)


Photo # 56


Photo # 57

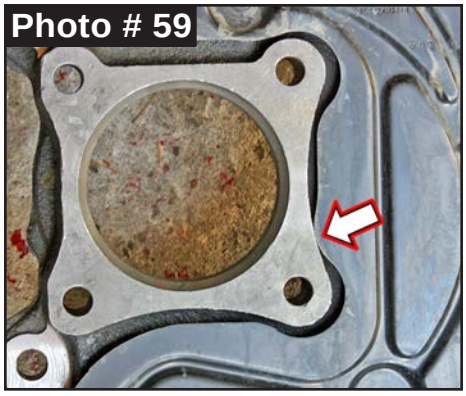
54. Disconnect the OEM front brake line brackets from the frame using a 10mm socket \ wrench.
Install the Skyjacker # RBLE10-S Front Brake Line Extension Bracket into the OEM position on the frame using the OEM hardware and a 10mm socket \ wrench.
Connect the OEM brake line bracket to the Skyjacker Bracket using the supplied 1/4" x 1" Bolt with 1/4" SAE Washer on the inside and a 1/4" SAE Washer and a 1/4" Nylon Insert Nut on the outside using a 7/16" socket \ wrench. (See Photo # 57)

55. Install the OEM disc brake shield using the three (3) OEM bolts & a 8mm socket \ wrench. (See Photo # 58) **Note:** Some models may require the inside edge of the OEM disc brake shield to be ground in order to align properly to the Skyjacker steering knuckle. (See Photo # 59)

Photo # 58



Photo # 59



56. Connect the brake rotor onto the Skyjacker knuckle \ hub assembly. **Tech Note:** Use a factory lug nut to secure the rotor into place.

57. Apply the supplied Thread Lock Compound to the two (2) OEM brake caliper bolts. Connect the caliper onto the rotor and the Skyjacker knuckle \ hub assembly using a 21mm socket \ wrench. (See Photo # 60)

58. Connect the OEM brake line bracket to the rearward side of the OEM knuckle using the OEM bolt and a 10mm socket \ wrench. Connect the OEM ABS sensor wire bracket using the OEM bolt and a 8mm socket \ wrench. (See Photo # 61)

59. Connect the OEM outer tie rod end to the Skyjacker steering knuckle using the OEM hardware & a 21mm socket \ wrench. (See Photo # 62)

Photo # 60

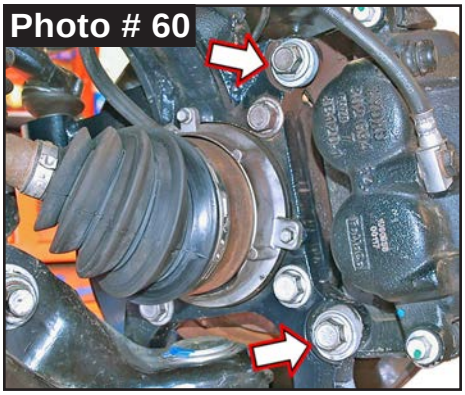


Photo # 61

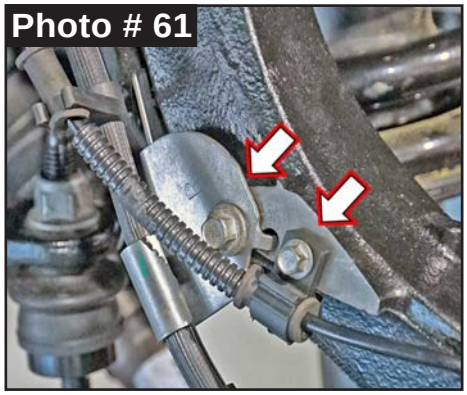
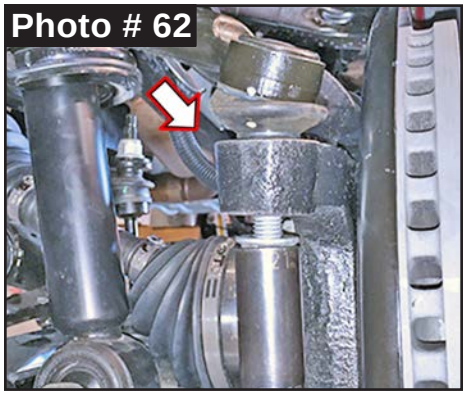


Photo # 62



Note: **Perform Steps 42-59 on the Opposite Side At This Time.**

60. Install the Skyjacker # F1546SBL-P Sway Bar Drop Bracket on the Passenger Side frame using the supplied 7/16" x 1-1/2" Bolt with 7/16" SAE Washer up from the bottom and a 7/16" SAE Washer and a 7/16" Nylon Insert Nut down from the top using a 5/8" socket \ wrench. Secure hardware, but leave loose at this time. (See Photo # 63)

61. Connect the OEM sway bar to the Skyjacker Sway Bar Lowering Brackets using the OEM stud plate hardware & a 15mm socket \ wrench. (See Photo # 64)

Photo # 63

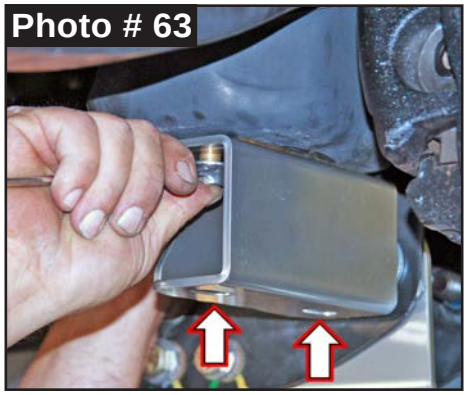
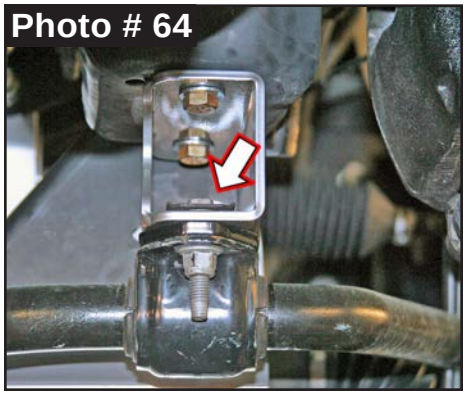


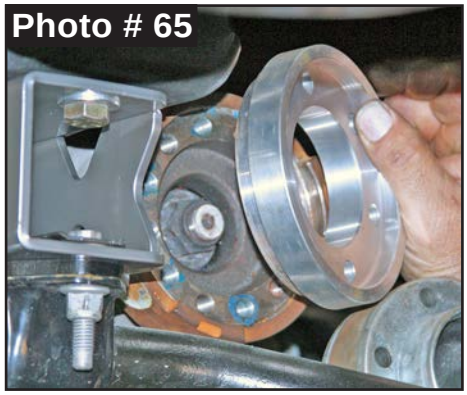
Photo # 64

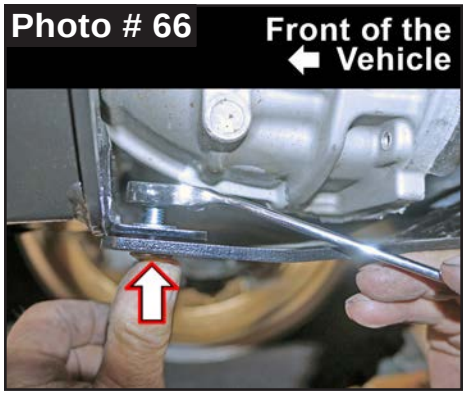


62. Connect the OEM sway bar end links to the OEM lower control arms using the OEM hardware & a 18mm socket\wrench. (See Photo # 12)

63. Connect the two (2) EPAS (Electric Power Assist Steering) plugs on the steering assembly. (See Photo # 3)

64. Apply the supplied Thread Lock Compound to the supplied 10mm x 80mm Socket Head Bolts. Install the Skyjacker # F960DSS-S Front Drive Shaft Spacer with the male side facing the differential using the supplied 10mm x 80mm Socket Head Bolts, OEM retaining rings, & a 8mm hex key.
Note: Be sure to align the previously made marks on the OEM front differential flange & OEM drive shaft flange. (See Photo # 65)





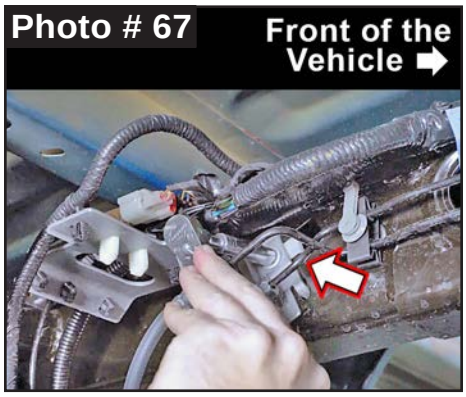
65. Install the Skyjacker # F1546SKD-S Front Differential Skid Plate to the Skyjacker Front & Rear Crossmembers. Attach using the supplied 5/16" x 1" carriage bolts up through the skid plate with 5/16" SAE Washers and 5/16" Nylon Insert Nuts on top with a 1/2" socket\wrench. (See Photo # 66)

66. Install the front tires\wheels using a 21mm socket & lower the front of the vehicle to the ground.

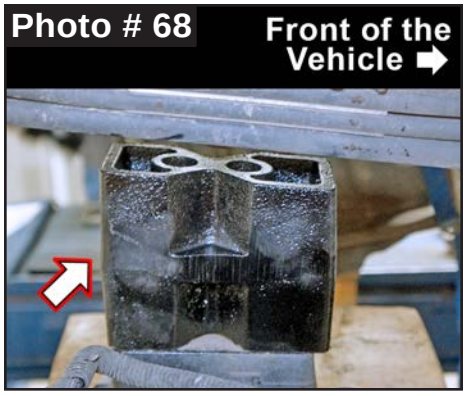
Rear Installation:

Note: Save all factory components and hardware for reuse, unless noted.

1. Chock the front tires\wheels. Raise the rear of the vehicle and support the frame rails using jack stands at the indicated lift points in the service manual.
2. Remove the rear tires\wheels using a 21mm socket.
3. Support the rear axle with a hydraulic jack. Allow ample room to lower the rear axle.
4. On the driver side inner frame rail near the rear bump stop mount, locate the OEM rear brake line connection where the hard brake lines connect to the brake hoses. Disconnect the OEM rear brake line bracket from the frame rail using a 10mm socket\wrench. (See Photo # 67)
5. Remove the OEM rear shocks a 15mm & a 18mm socket\wrench.
6. Remove the OEM u-bolts using a 21mm socket\wrench. Discard the u-bolts and hardware. Retain the lower OEM u-bolt plate.



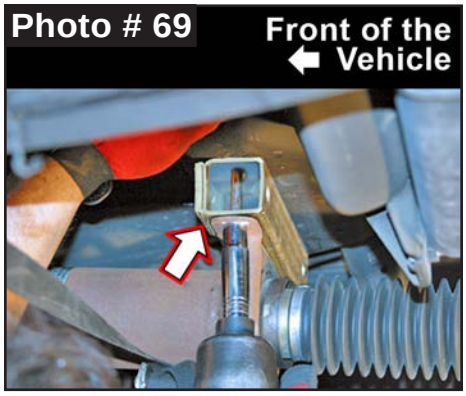
7. **4.5" Lift:** While checking for appropriate slack in ABS lines, brake lines, differential breather hose, & etc, lower the rear axle & remove the OEM rear blocks.
   Clean spring pads of all debris.
   Position the Skyjacker # RB452 Dual Pin 4.5" Rear Lift Block on top of the axle pad. (See Photo # 68)
   Note: Place the taller end of the lift block toward the rear of the vehicle.



   6" Lift: While checking for appropriate slack in ABS lines, brake lines, differential breather hose, & etc, lower the rear axle. Clean spring pads of all debris.
   Position the Skyjacker # RB452 Dual Pin 4.5" Rear Lift Block on top of the OEM block and axle pad. (See Photo # 68)
   Note: Place the taller end of the lift block toward the rear of the vehicle.

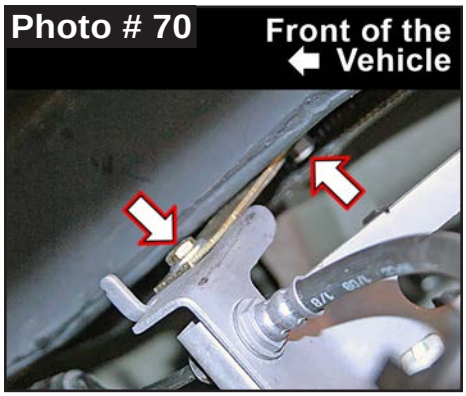
8. Raise the axle to mate the leaf springs to the lift blocks. **Note:** Be sure that the leaf spring center bolts heads seat properly into the block and that the block pin seats properly into the top of the spring perch.

9. Install the Skyjacker 9/16” u-bolts over the leaf springs\top plate down into the OEM u-bolt plate. Install the supplied 9/16" Nylon Insert Nuts using a 7/8" socket\wrench. Torque the u-bolts evenly using an 'X' crisscross tightening sequence. Torque to 90 ft.-lbs.



10. On models equipped with a carrier bearing on the rear driveshaft, it will be necessary to install the supplied # CBL255-B Carrier Bearing Lowering Bracket to help eliminate any driveline vibration. The bracket will mount between the OEM carrier bearing & the OEM mount on the frame. Install bracket using the supplied 10mm x 90mm bolts, washers, & a 17mm socket\wrench. (See Photo # 69)

11. Install the Skyjacker # DVL10 Rear Brake Line Bracket into the OEM position using the OEM hardware and a 10mm socket\wrench.
    Connect the OEM brake line bracket to the Skyjacker Bracket using the supplied 1/4" x 1" Bolt with 1/4" SAE Washer on the outside and a 1/4" SAE Washer and a 1/4" Nylon Insert Nut on the inside using a 7/16" socket\wrench. (See Photo # 70)



12. Install your choice of Skyjacker rear shocks using the supplied shock hardware, OEM mounting hardware with a 15mm & a 18mm socket\wrench.

13. Install the rear tires\wheels using a 21mm socket & lower the rear of the vehicle to the ground.

Final Notes:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (**Note:** Do not re-tighten the nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines & wiring harnesses for proper operation, tightness & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center align the vehicle to the OEM specifications.
- After the first 100 miles, check all hardware for the 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	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FT LB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

The above specifications are not to be used when the bolt is being installed with a bushing.

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JESUS ROCKS

Jesus Forgives, Rocks Don't

Jesus Christ Died For You.

John 3:16

For God so loved the world that He gave His only Son, so that everyone who believes in Him should not perish, but have everlasting life.
Romans 3:23

For all have sinned; all fall short of God's glorious standard.
Ephesians 2:8

God saved you by his special favor when you believed. And you can't take credit for this; it is a gift from God.
Psalms 18:2

The Lord is my Rock, my fortress, and my savior; my God is my Rock, in whom I find protection. He is my shield, the strength of my salvation, and my stronghold.
Romans 10:9-10

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

Pray This Simple Prayer:
God, I come to You admitting I have sinned against You and I need you to take control of my life. The Bible says anyone who calls on the name of the Lord will be saved. I am calling on You, Jesus. I ask that You come live in my heart and be the Lord over my life today. I do believe You died on the cross for me and came back to life to give me life! Thank You, Lord Jesus for a new life in You!

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

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

To listen to commercial free Christian radio on the web, go to www.887fm.org

Jesús murió por ti.

Juan 3:16

"Porque tanto amó Dios al mundo, que dio a su Hijo unigénito, para que todo el que cree en él no se pierda, sino que tenga vida eterna."
Romanos 3:23

"Pues todos han pecado y están privados de la gloria de Dios."
Efesios 2:8

"Porque por gracia ustedes han sido salvados mediante la fe; esto no procede de ustedes, sino que es el regalo de Dios."
Salmos 18:2

"El Señor es mi roca, mi amparo, mi libertador; es mi Dios, el peñasco en que me refugio. Es mi escudo, el poder que me salva, ¡mi más alto escondite!"
Romanos 10:9-10

"9 Que si confi esas con tu boca que Jesús es el Señor, y crees en tu corazón que Dios lo levantó de entre los muertos, serás salvo. 10 Porque con el corazón se cree para ser justifi cado, pero con la boca se confi esa para ser salvo."

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

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

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

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www.kcm.org



