TRAIL FORTRESS

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Rough Country 33331 Installation Instructions

4-Inch Lift Kit with N3 Shocks for Ram 1500 4WD (2012–2018)

Part number: 33331

trailfortress.com/rough-country-4-inch-lift-kit-33331

Scan for fitment, price and install help

921332000F

ROUGH COUNTRY SUSPENSION SYSTEMS®

RAM 2012-18 1500 4” & 6” LIFT KIT

Thank you for choosing Rough Country for all your suspension needs.

Rough Country recommends a certified technician install this system. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle.

Please read instructions before beginning installation. Check the kit hardware against the kit contents list. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have the tools needed to install the kit.

⚠WARNING Generally, braking performance and capability are decreased when larger/heavier tires and wheels are used. Take this into consideration while driving. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

Rough Country makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any product that is altered. We will be happy to answer any questions concerning the design, function, and use of our products.

This 6” suspension system was developed using a 37 X 12.5 tire with aftermarket 20” wheels with 5 1/2” backspacing and the 4” system was developed using a 35 X 12.50 tire with aftermarket 20” wheels with 5 1/2” backspacing.. **This kit will not work with wheels smaller than 20”.** As with any tire and wheel combination it is recommended to trial fit the tire / wheel to assure there are no clearance problems.

⚠NOTICE **Please note, this lift kit is not recommended for AWD (All Wheel Drive) Models. TRX models will achieve approximately 1" of additional lift. This lift is not recommended for use on the TRX models due to possible CV shaft vibration caused by the additional lift. Instead, consider our 4" lift system for about 5" of lift or replace the TRX struts with standard struts for use with this system.**

⚠NOTICE **NOTICE TO DEALER AND VEHICLE OWNER**

Any vehicle equipped with any Rough Country product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics. By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable Federal, State, and Local laws and regulations regarding the purchase, ownership, and use of the item. It shall be the buyers responsibility to comply with all Federal, State and Local laws governing the sales of any items listed, illustrated or sold. The buyer expressly agrees to indemnify and hold harmless Rough Country, LLC for all claims resulting directly or indirectly from the purchase, ownership, or use of the items.

INSTALLING DEALER - it is your responsibility to install the warning decal and forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service life.

Tools Needed:

WD-40
Loc-Tite
Reciprocating Saw
Hammer
Dead Blow Hammer
T30 Torx head bit
5mm Allen Wrench
8mm Socket / Wrench
10mm Socket / Wrench
13mm Socket / Wrench
14mm Socket / Wrench
15mm Socket / Wrench
16mm Socket / Wrench
17mm Socket / Wrench
18mm Socket / Wrench
19mm Socket / Wrench
21mm Socket / Wrench
22mm Socket / Wrench
24mm Socket / Wrench
35mm Socket
1 1/16” Socket

Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

4” Kit Boxes

33331 (4” Kit w/ N3 Rr Shocks):

3330991
333BOX1
1332BOX1
1380BOX1
1380BOX2
23220

33332 (4” Kit w/ N3 Struts & N3 Rr Shocks):

3330991
333BOX2
1332BOX1
1380BOX1
1380BOX2
501027
23220

6” Kit Boxes

33231 (6” Kit w/ N3 Rr Shocks):

3320991
332BOX5
1332BOX1
1328BOX1
1328BOX2
23153

33232 (6” Kit w/ N3 Struts & N3 Rr Shocks):

3320991
332BOX6
1332BOX1
1328BOX1
1328BOX2
501026
23153
9424

33270 (6” Kit w/ V2 Rr Shocks):

3320991
332BOX5
1332BOX1
1328BOX1
1328BOX2
760744

33271 (6” Kit w/ N3 Struts & V2 Rr Shocks):

3320991
332BOX6
1332BOX1
1328BOX1
1328BOX2
501026
760744
9424

4” Kit Box & Bag Contents

1332Box1
- 1-*Fr Cross-member*
- *1-Rr Cross-member*

3330991
- *1-1329BAG1*
- *1-3320991BAG1*
- *1-Dr Fr Diff Brkt*
- *1-Dr Rr Diff Brkt*
- *1-Pass Diff Brkt*
- *1-Skid Plate*
- *1-Fr Driveshaft Spacer*
- *4-Sway Bar Brkt*
- *2-Fr Sway Bar Link*
- *2-Rr Sway Bar Link*
- *1-Dr Fr Brake Brkt*
- *1-Pass Fr Brake Brkt*
- *2-Rr Brake Brkt*
- *2-Rr Bumpstop Brkt*
- *2-Rr Shock Flagnut*
- *1-LINKBAG2*

333Box1
- 1-10MMSTUDBAG-2
- *2-Fr Strut Spacers*
- *2-Rr Coil Spacers*
- *2-Rr Coil Retainers*
- *1-1328BAG3*

333Box2
- *2-Rr Coil Spacers*
- *2-Rr Coil Retainers*
- *1-1328BAG3*

1380Box1
- *1-Dr Knuckle*

1380Box2
- *1-Pass Knuckle*

23220-Rear N3 Shock

501027
- 2-N3 Loaded Strut

1329Bag1

For Front and Rear Cross-Members:
- *4-18mm x 150mm Bolt*
- *4-18mm Lock Nut*
- *8-Square Washers*

3320991BAG1

For Rear Upper Driver Diff Mount:
- *3-12mm x 45mm Bolts*
- *3-Flat Washers*
- *3-12mm Flange Lock Nuts*

For Front Upper Driver Diff Mount:
- *2-12mm x 45mm Bolts*
- *2-Flat Washers*
- *2-12mm Flange Lock Nuts*

For Passenger Side Diff Mount:
- *2-12mm x 45mm Bolts*
- *2-12mm Flange Lock Nuts*
- *2-Flat Washers*

For Drive Shaft Spacer:
- *4-12mm x 55mm Bolts*

For Front Skid Plate:
- *4-3/8” x 1” Bolts*
- *4-Flat Washers*
- *2-3/8” Lock Nuts*

For Front Brake Lines Brackets:
- *2-5/16” x 3/4” Bolts*
- *2-5/16” Flange Lock Nuts*
- *2-5/16” Flat Washers*
- *2-3/8” x 1” Bolt*
- *2-3/8” Flange Lock Nuts*
- *2-Flat Washers*

For Rear Bump Stops:
- *2-3/8” x 1.25” Bolts*
- *2-3/8” Flange Lock Nuts*
- *2-Flat Washers*

LINKBAG2

For Front Sway Bar Links:
- *2-12mm x 35mm Bolts*
- *2-12mm x 50mm Bolts*
- *4-12mm x 65mm Bolts*
- *8-12mm Flange Nuts*

10MMSTUDBAG-2

For Front Strut Spacer:
- *6-10mm Stud*
- *6-10mm Flange Nuts*
- *1-10mm Hex Nut*
- *1-1/2” Jam Nut*

1328Bag3

For Rear Coil Spacers:
- *2-3/8” x 3 1/2” Bolts*
- *2-3/8” Lock Nuts*

For Rear Bump Stops:
- *2-3/8” x 1.25” Bolts*
- *2-3/8” Flange Lock Nuts*
- *2-Flat Washers*

For Rear Sway Bar Links:
- *4-12mm x 65mm Bolts*
- *4-12mm Lock Nuts*
- *8-Flat Washers*

For Rear Brake Line Bracket:
- *2-5/16” x 3/4” Bolt*
- *2-5/16” Flange Lock Nuts*
- *2-Flat Washers*

For Rear Vent Hose:
- *1-Cable Tie*

For Rear Shock Absorbers:
- *2-Washers*

6” Kit Box & Bag Contents

1332Box1
- 1-*Fr Cross-member*
- *1-Rr Cross-member*

3320991
- *1-1329BAG1*
- *1-3320991BAG1*
- *1-Dr Fr Diff Brkt*
- *1-Dr Rr Diff Brkt*
- *1-Pass Diff Brkt*
- *1-Skid Plate*
- *1-Fr Driveshaft Spacer*
- *4-Sway Bar Brkt*
- *2-Fr Sway Bar Link*
- *2-Rr Sway Bar Link*
- *1-Dr Fr Brake Brkt*
- *1-Pass Fr Brake Brkt*
- *2-Rr Brake Brkt*
- *2-Rr Bumpstop Brkt*
- *2-Rr Shock Flagnut*
- *1-LINKBAG2*

332Box5
- *1-10MMSTUDBAG-2*
- *1-1329BAG3*
- *1-1329BAG7*
- *1-33430BAG6*
- *1-Rr Track Bar Bracket*
- *2-Fr Strut Spacers*
- *2-Rr UCA Brackets*
- *2-Rr Coil Spacers*
- *2-Rr Coil Retainers*
- *2-Strut Preload Spacers*

332Box3
- *1-1329BAG3*
- *1-1329BAG7*
- *1-Rr Track Bar Bracket*
- *2-Rr UCA*
- *2-Rr Coil Spacers*
- *2-Rr Coil Retainers*

332Box6
- *1-1329BAG3*
- *1-Rr Track Bar Bracket*
- *2-Rr UCA Brackets*
- *1-33430BAG6*

1328Box1
- *1-Dr Knuckle*

1328Box2
- *1-Pass Knuckle*

9424
- 2-Rear Coil Springs

23153-Rear N3 Shock

501026
- 2-N3 Strut

760744-Rear V2 Shock

332INSTBAG4
- *Instructions*

1329Bag1

For Front and Rear Cross-Members:
- *4-18mm x 150mm Bolt*
- *4-18mm Lock Nut*
- *8-Square Washers*

1332Bag2

For Rear Upper Driver Diff Mount:
- *3-12mm x 45mm Bolts*
- *3-Flat Washers*
- *3-12mm Flange Lock Nuts*

For Front Upper Driver Diff Mount:
- *2-12mm x 45mm Bolts*
- *2-Flat Washers*
- *2-12mm Flange Lock Nuts*

For Passenger Side Diff Mount:
- *2-12mm x 45mm Bolts*
- *2-12mm Flange Lock Nuts*
- *2-Flat Washers*

For Drive Shaft Spacer:
- *4-12mm x 55mm Bolts*

For Front Skid Plate:
- *4-3/8” x 1” Bolts*
- *4-Flat Washers*
- *2-3/8” Lock Nuts*

For Front Brake Lines Brackets:
- *2-5/16” x 3/4” Bolts*
- *2-5/16” Flange Lock Nuts*
- *2-5/16” Flat Washers*
- *2-3/8” x 1” Bolt*
- *2-3/8” Flange Lock Nuts*
- *2-Flat Washers*

For Rear Bump Stops:
- *2-3/8” x 1.25” Bolts*
- *2-3/8” Flange Lock Nuts*
- *2-Flat Washers*

LINKBAG2

For Front Sway Bar Links:
- *2-12mm x 35mm Bolts*
- *2-12mm x 50mm Bolts*
- *4-12mm x 65mm Bolts*
- *8-12mm Flange Nuts*

33430BAG6
- *2-Fr Brake Line Brackets*
- *2-UCA Bracket Sleeves*
- *1-Track Bar Bracket Flag Nut*
- *1-Dr Rr Brake Line Bracket*
- *1-Pass Rr Brake Line Bracket*

For Rear Control Arm Brackets:
- *2-5/8” x 4.5” Bolts*
- *2-5/8” Lock Nuts*
- *4-5/8” Flat Washers*
- *8-3/8” x 1.25” Bolts*
- *16-3/8” Flat Washers*
- *8-3/8” Lock Nuts*

For Rear Brake Line Brackets:
- *2-5/16” x 3/4” Bolts*
- *2-5/16” Flange Lock Nuts*

For Rear Sway Links:

10MMSTUDBAG-2

For Front Strut Spacer:
- *6-10mm Stud*
- *6-10mm Flange Nuts*
- *1-10mm Hex Nut*
- *1-1/2” Jam Nut*

1329Bag3

For Rear Track Rod Bracket:
- *1-Rear Track Bar Sleeve*
- *1-14mm x 80mm Bolt*
- *1-14mm Lock Nut*
- *2-Flat Washers*
- *3-3/8” X 1 1/4” Bolts*
- *3-3/8” Flange Lock Nuts*

For Rear Bump Stops:
- *2-3/8” x 1” Bolts*
- *2-3/8” Flange Lock Nuts*

For Rear Sway Bar Links:
- *4-12mm x 65mm Bolts*
- *4-12mm Lock Nuts*
- *4-Flat Washers*

For Rear Brake Line Bracket:
- *2-5/16” x 3/4” Bolt*
- *2-5/16” Flange Lock Nuts*
- *2-Flat Washers*

For Rear Vent Hose:
- *1-Cable Tie*

For Rear Shock Absorbers:
- *2-Washers*

1329Bag7

For Rear Coil Spacers
- *2-3/8” x 5” Bolts*

33231 6” Kit Shown



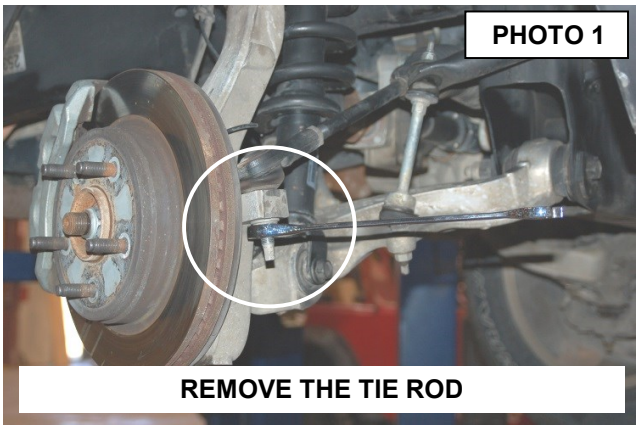
33232 6” Kit Shown

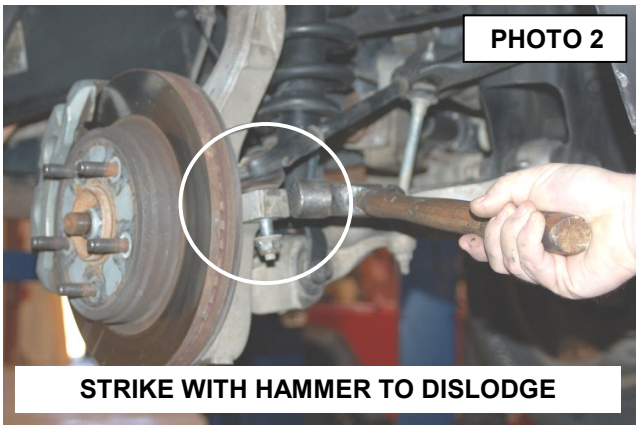


Thank You for choosing Rough Country for your off road needs!!!

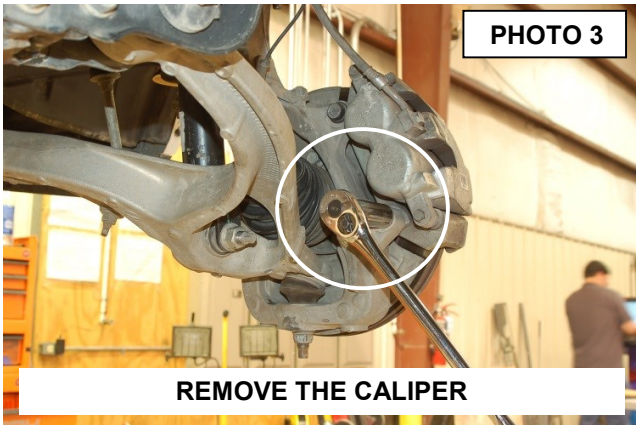
INSTALLATION INSTRUCTIONS

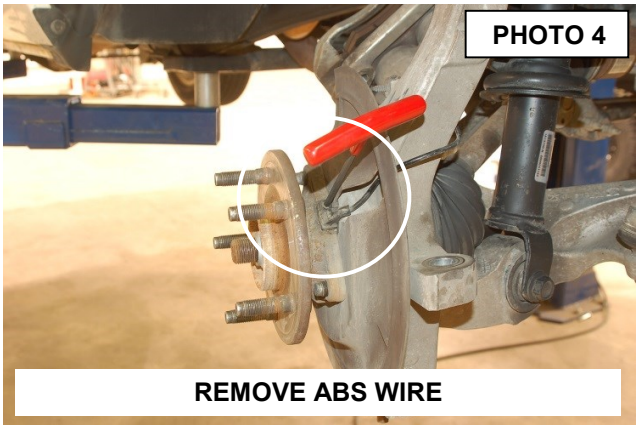
1. Chock rear wheels of the vehicle and raise the front of the vehicle using a floor jack.
2. Support the vehicle with jack stands.
3. Remove wheel using 22mm socket.
4. Remove tie-rod end nut using 21mm as shown in **Photo 1**.
5. Strike with hammer to dislodge the tie rod from the knuckle. **See Photo 2.**



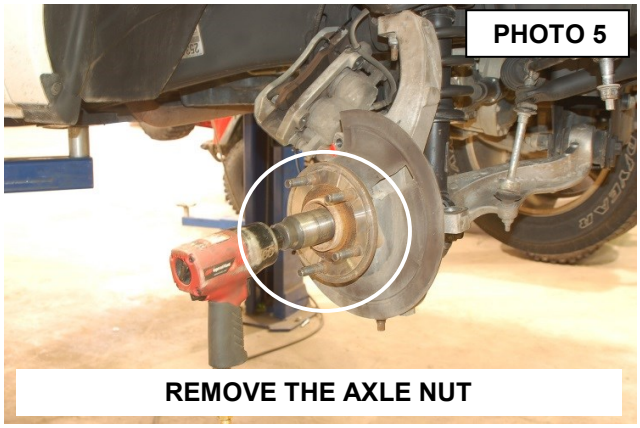


6. Remove brake caliper using 21mm wrench. **See Photo 3.** Secure out of way and remove rotor.
7. Remove ABS wire from hub using 5mm allen wrench, unclip ABS wire from knuckle also. **See Photo 4.**





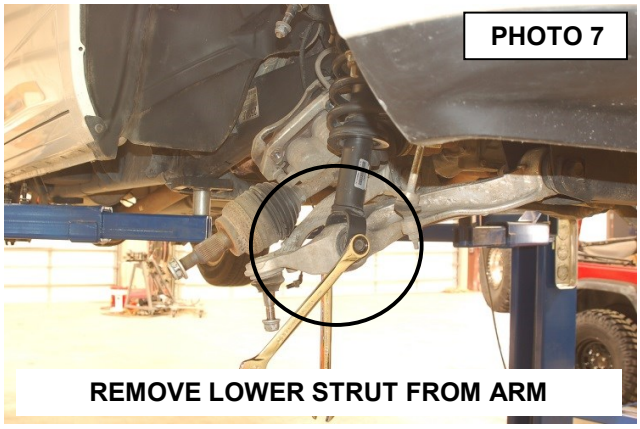
8. Remove axle nut using 35mm socket. **See Photo 5.**
9. Remove knuckle using 21mm wrench for top ball joint and 24mm wrench for lower ball joint. Strike with hammer as shown to dislodge the ball joints. Upper Joint shown in **Photo 6.**

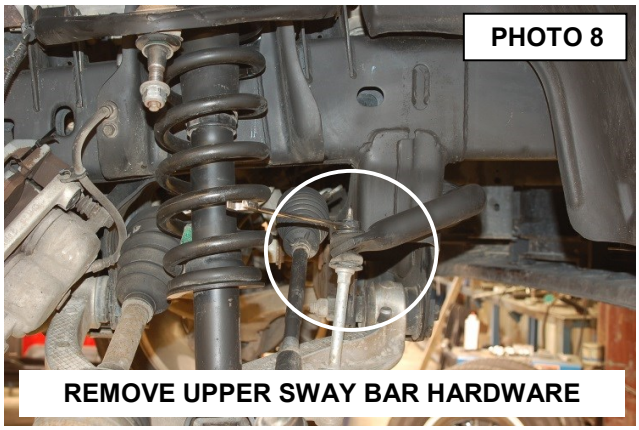




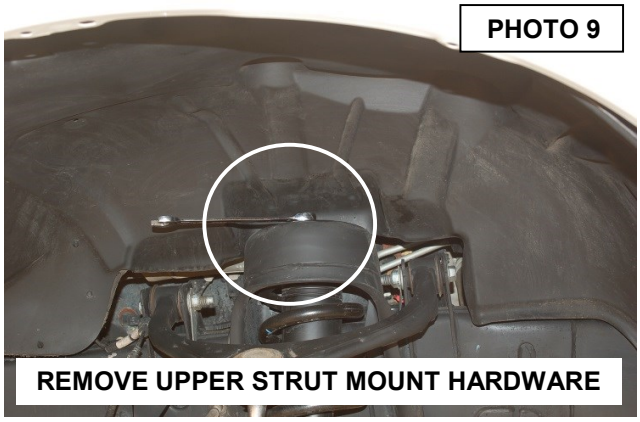
10. Remove the stock knuckle from the truck. **Take care not to allow the shaft to over extend.**

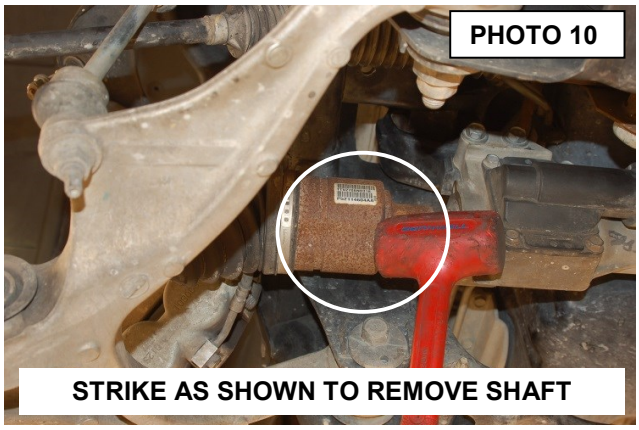
11. Remove lower strut mount using 21mm and 24 mm wrench. **See Photo 7.**
12. Remove sway-bar link from sway-bar using 16mm wrench. **See Photo 8.**



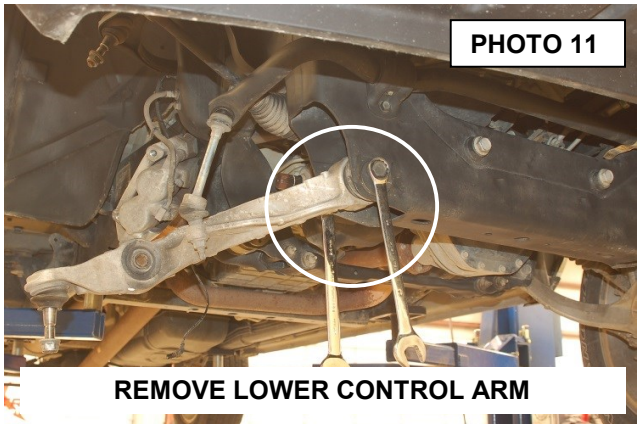


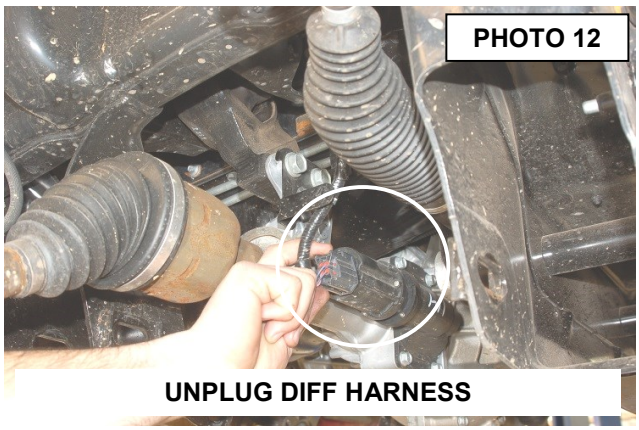
13. Remove upper strut mount using 15mm wrench and remove strut. **See Photo 9.**
14. Using a dead blow hammer remove axle from diff. **See Photo 10.**



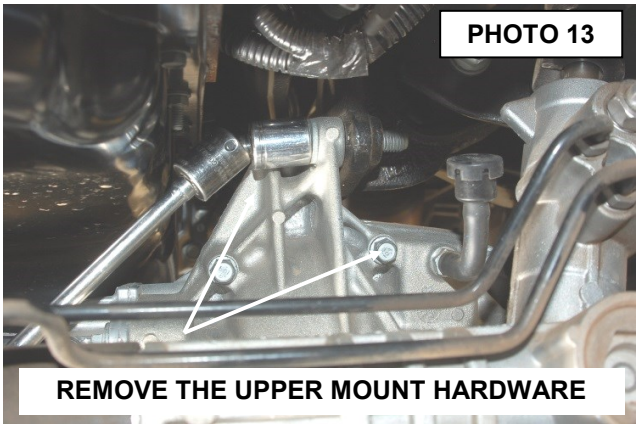


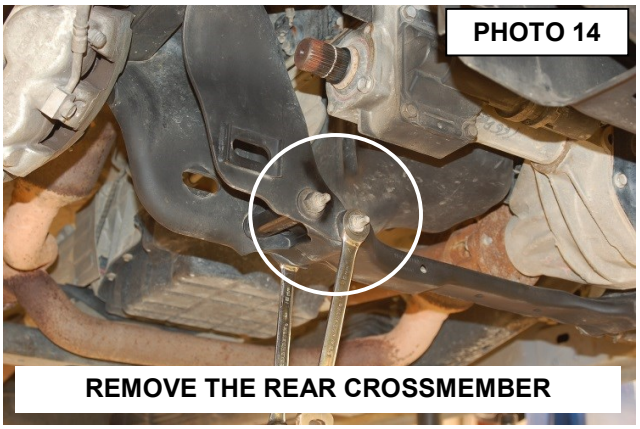
15. Using 24mm wrenches remove lower control arm. Retain the stock hardware for reuse. **See Photo 11.**
16. Unplug diff wiring harness from the differential. **See Photo 12.**



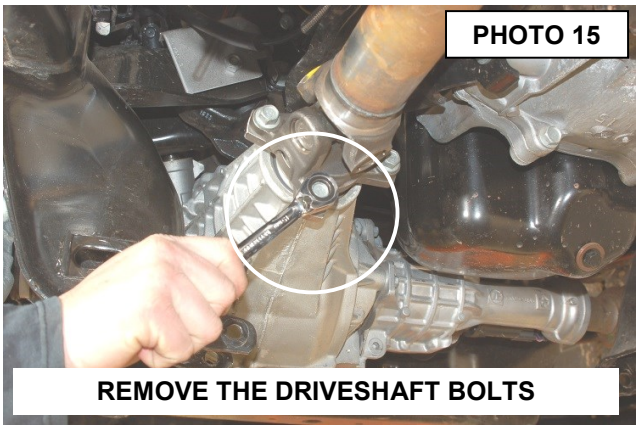


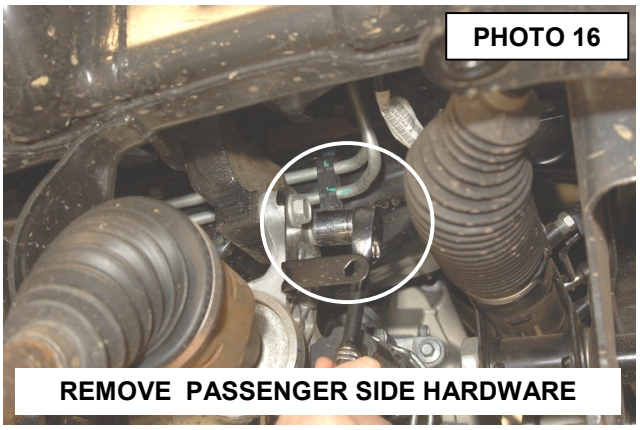
17. Remove the two upper diff bolt from the motor mount / diff mount using 18mm socket. Retain the stock hardware . **See Photo 13.**
18. Remove rear cross-member using 18mm wrench. **See Photo 14.**



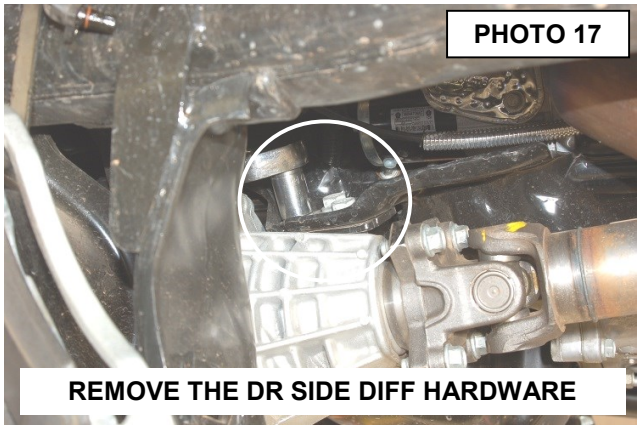


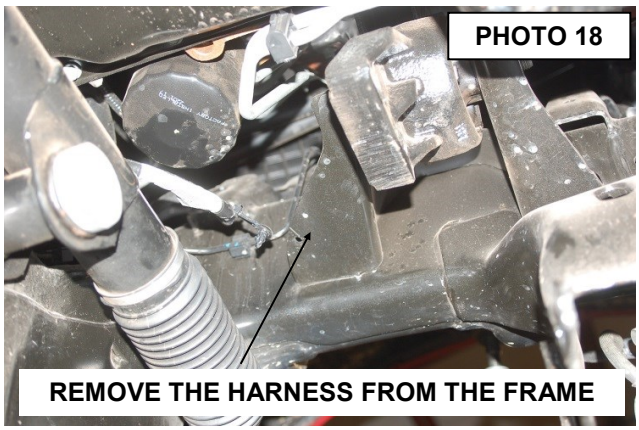
19. Remove driveshaft from diff using 15mm wrench. **See Photo 15.**



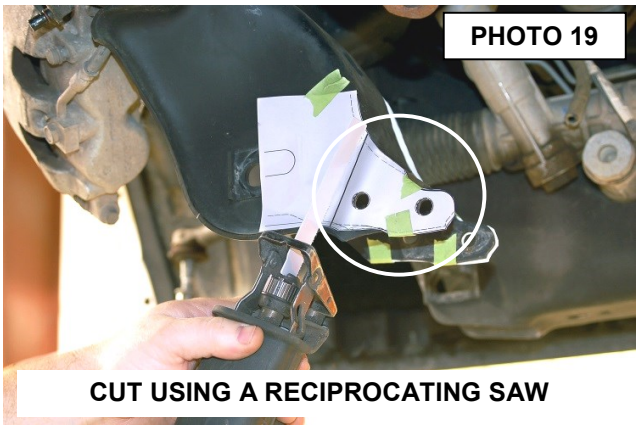


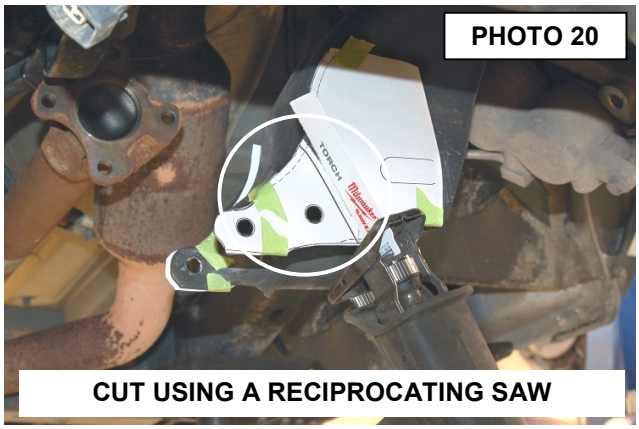
20. Support the diff and remove the passenger side bolts with 18mm wrench and remove the 3 bolts on driver side with same wrenches. **See Photo 16 & 17.**
21. Carefully remove differential from vehicle.
22. Follow the differential wiring harness up from the differential and remove the 3 plastic retainers securing the wiring harness to the frame. **See Photo 18.** This is performed to allow slack in the line when the differential is reinstalled with the differential brackets.



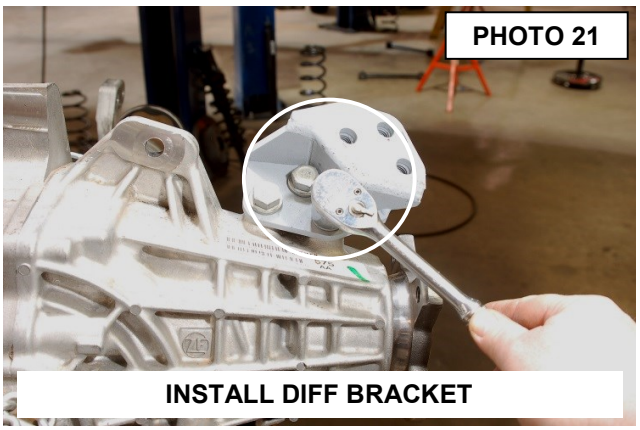


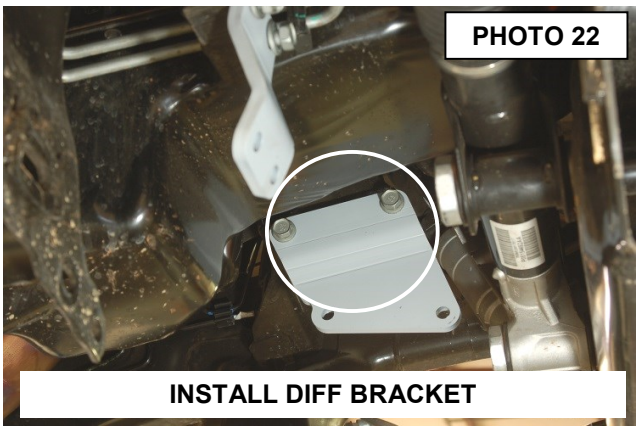
23. Align the supplied template with the lower holes. Tape cut out to driver side lower control arm rear pocket.
24. Cut at the line on the cut out. this is done to make room for rear cross member. Grind sharp edges and paint. **See Photo 19 & 20.**



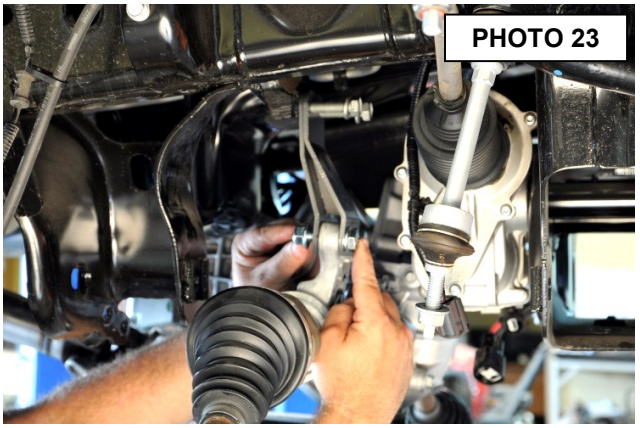


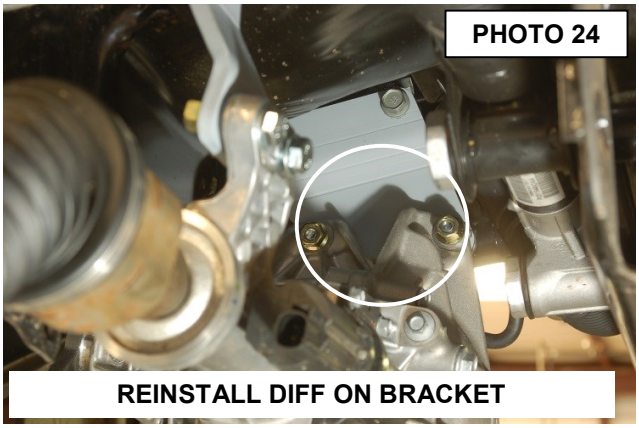
25. Install rear diff drop bracket on the differential using the stock hardware. **See Photo 21**. Tighten using a 18mm wrench.
26. Install driver side upper diff drop bracket using the stock hardware. **See Photo 22**. Do not tighten at this time.



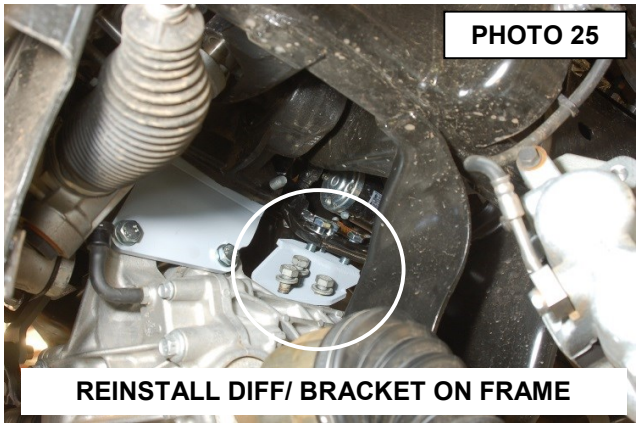


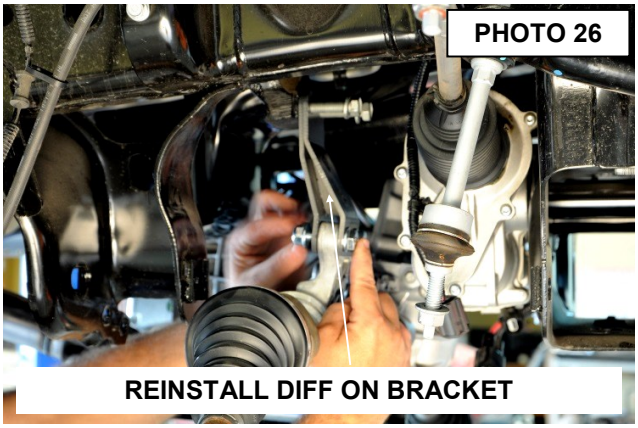
27. Install passenger side diff bracket using stock hardware in upper location as shown. **See Photo 23.**
28. Reinstall diff in the forward driver side mount as shown in **Photo 24** using supplied 12mm x 45mm bolts, washers. Do not tighten at this time.



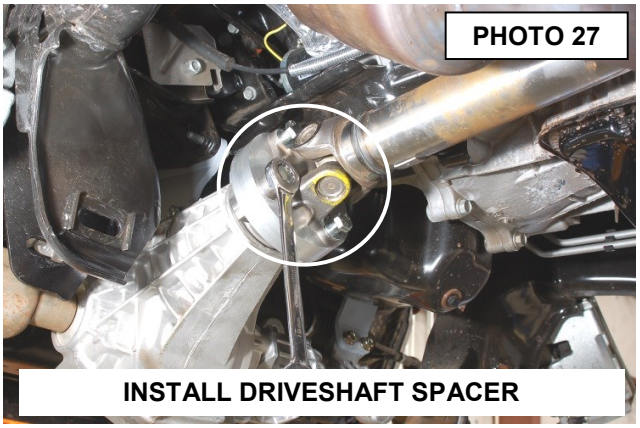


29. Secure the driver side differential to the frame using the supplied 12mm x 45mm bolts, flat washers, and flange lock nuts. **See Photo 25.**
30. Secure the differential in the passenger side bracket using the supplied 12mm x 45mm bolts & flange lock nuts and bend the stock diff wiring harness bracket up for clearance. **See Photo 26.**

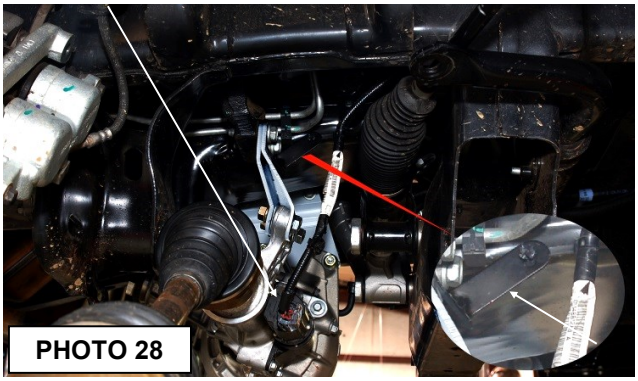




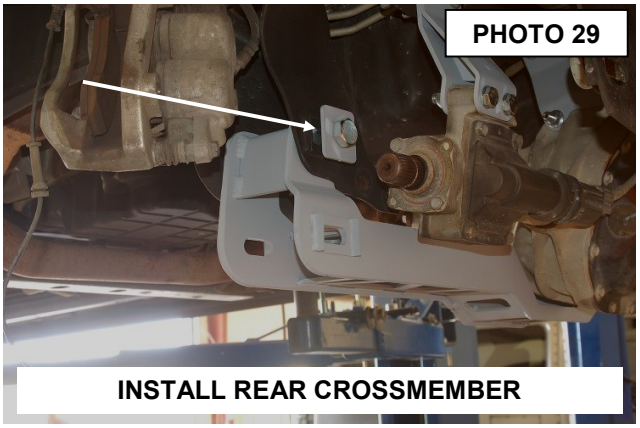
31. Tighten all diff bolts at this time using a 18mm / 19mm wrench.
32. Apply thread lock to supplied 12mm x 55mm bolts and install driveshaft spacer. Use a 19mm wrench to tighten. **See Photo 27**. ***NOTE:*** If equipped with the plastic driveshaft shield on the transmission see Photo 55.
33. Reinstall the diff plug back in the differential and reinstall the wiring harness in the bracket. Make sure the wiring harness clears the rack and pinion. **See Photo 28.**

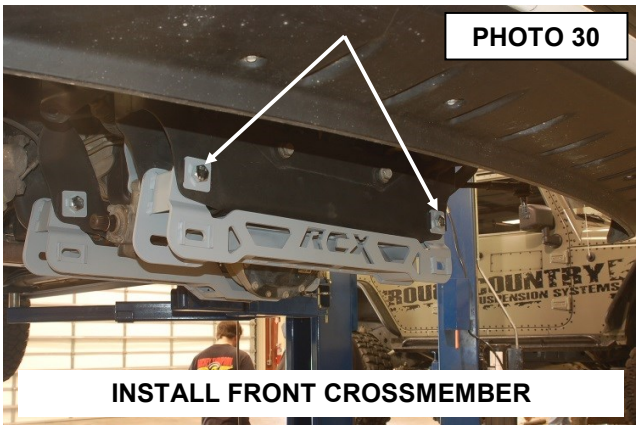


REINSTALL THE DIFF WIRING PLUG & BRACKET



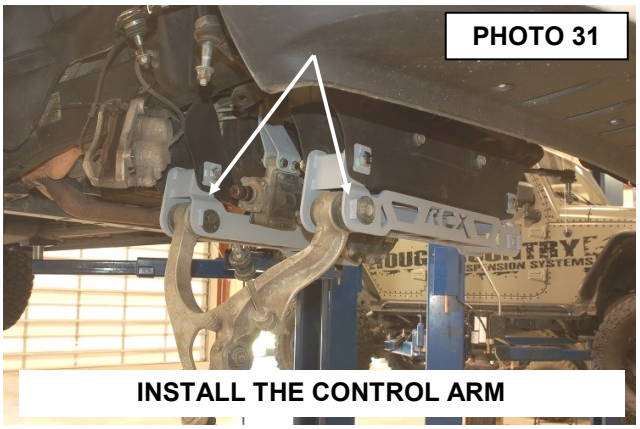
34. Install rear cross member using supplied 18mm x 150mm bolts, square washers and nuts. **See Photo 29.**
35. Install front cross member using supplied 18mm x 150mm bolts, square washers and nuts. **See Photo 30.** Do not tighten at this time.





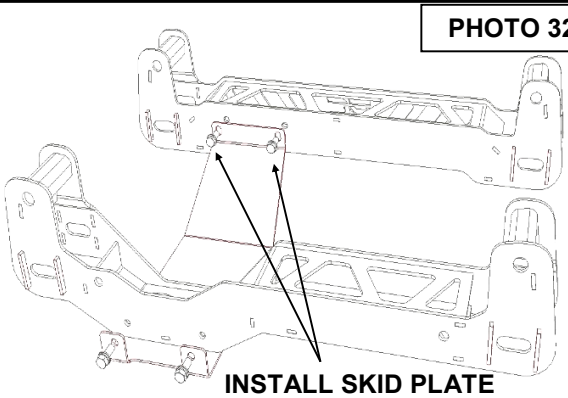
36. Install lower control arm using stock cam bolts. **See Photo 31.**
37. Install skid plate using supplied 3/8” X 1” bolts, washers, and lock nuts (1332BAG2) on the front cross-member. Use 14mm socket to tighten. **See Photo 32.**

PHOTO 31



INSTALL THE CONTROL ARM

PHOTO 32



INSTALL SKID PLATE

38. Install the skid plate on the rear cross-member as shown in **Photo 33** with the supplied 3/8” x 1” bolts and washers.
39. Using 1 1/16 wrench and socket tighten cross member bolts. **See Photo 34.**

PHOTO 33

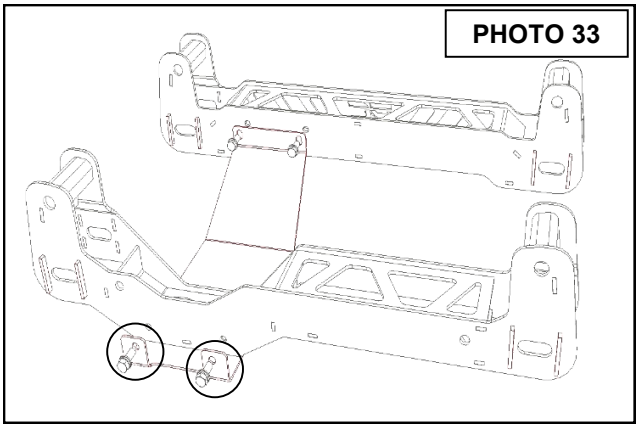
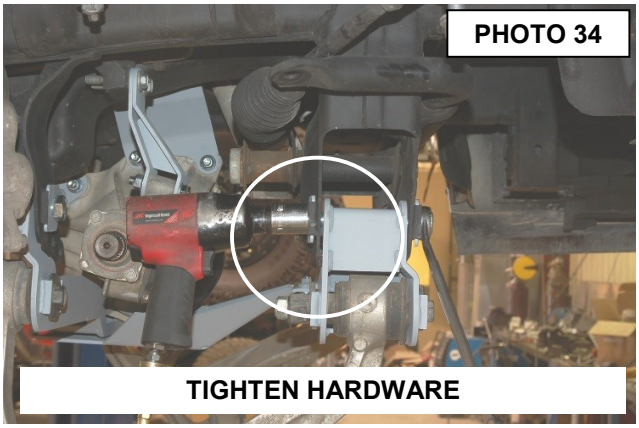


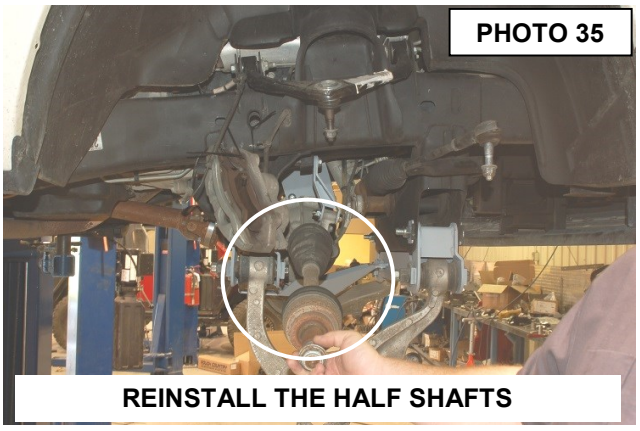
PHOTO 34



TIGHTEN HARDWARE

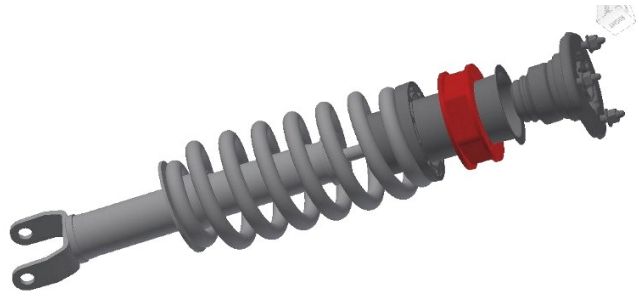
40. Install axle shafts making sure the axle is fully engaged in the housing. **See Photo 35.**
41. **4” Kits skip to step 43. Strut Kits refer to installation instructions included with the struts and skip to step 46.** Place a strut compressor on the coil spring and compress the coil, so the strut top nut can be removed. Next remove the strut top and add the preload spacer to the coil assembly. The spacer will fit between the factory coil isolator and the strut top. **See Photo 36.**

PHOTO 35



REINSTALL THE HALF SHAFTS

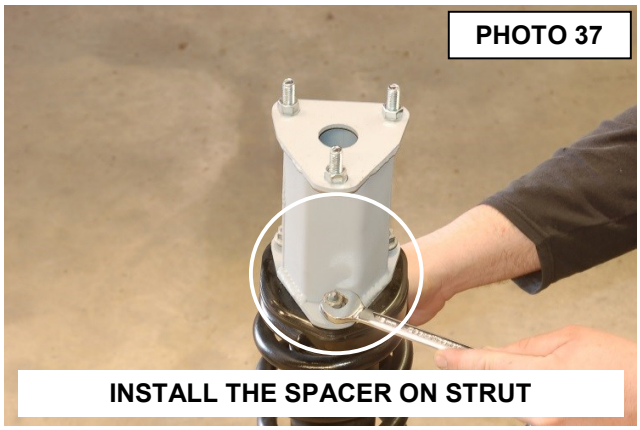
PHOTO 36

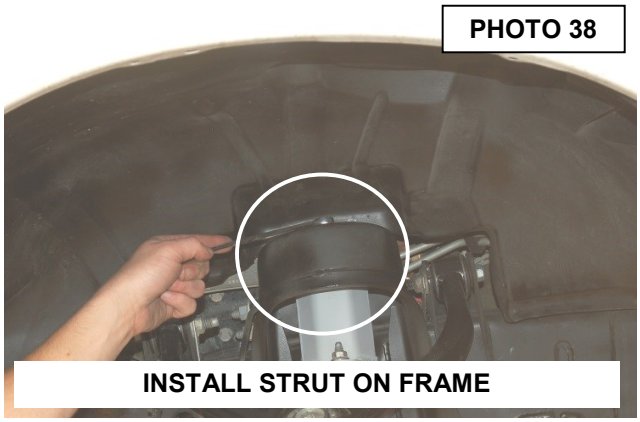


INSTALL THE PRELOAD SPACER

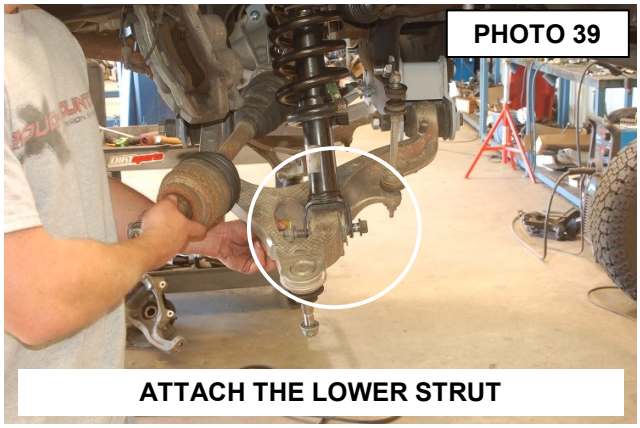
42. With the coil spring still compressed assemble the strut and tighten the strut top nut.
43. Install the supplied 10mm studs (10mmstudbag-2) into the strut spacer using the supplied 1/2” jam nut (10mmstudbag-2) between the spacer and the 10mm hex nut (10mmstudbag-2). Tighten the 10mm nut using a 17mm socket, pulling the stud into the spacer. **Do not using an impact.**

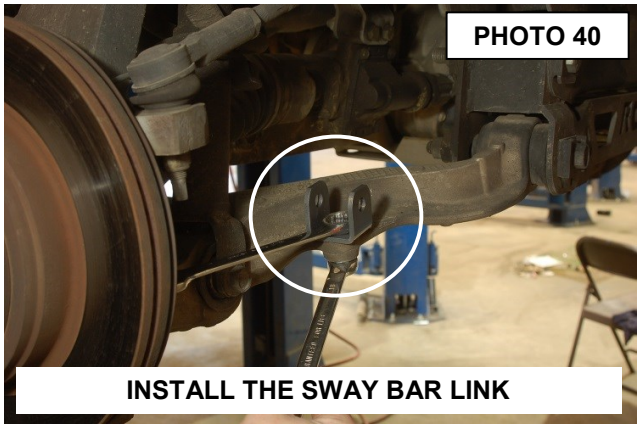
44. Install the spacer on strut using stock hardware using 15mm wrench. **See Photo 37.**
45. Install strut onto truck using 17mm wrench to tighten upper supplied 10mm flange nuts. **See Photo 38.**



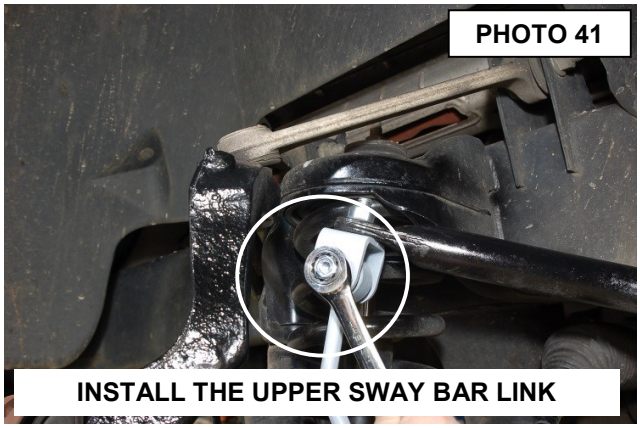


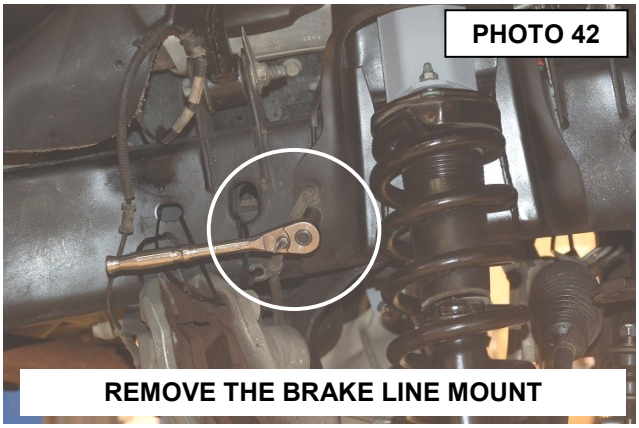
46. Attach lower control arm to lower part of strut using stock hardware. Tighten lower strut hardware using a 24mm and 21 mm wrench. **See Photo 39.**
47. Remove sway-bar link from control arm using 18mm and 8mm wrench.
48. Install the lower link bracket on the lower control arm with the supplied 12mm X 50mm bolt and flange nuts. Install the new link on the bracket with the supplied 12mm x 65mm bolts and flange nuts. Tighten using a 18mm and 19mm socket & wrench. **See Photo 40.**



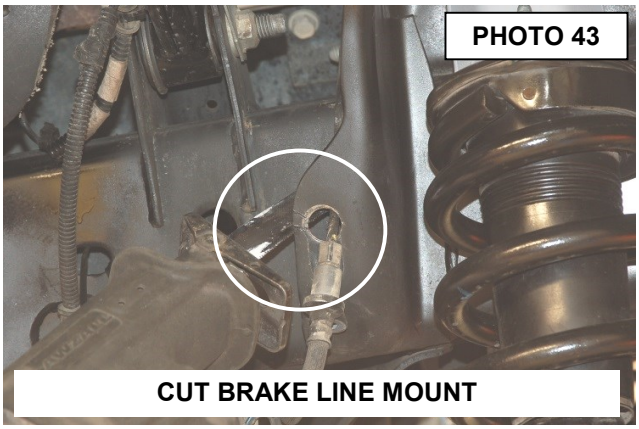


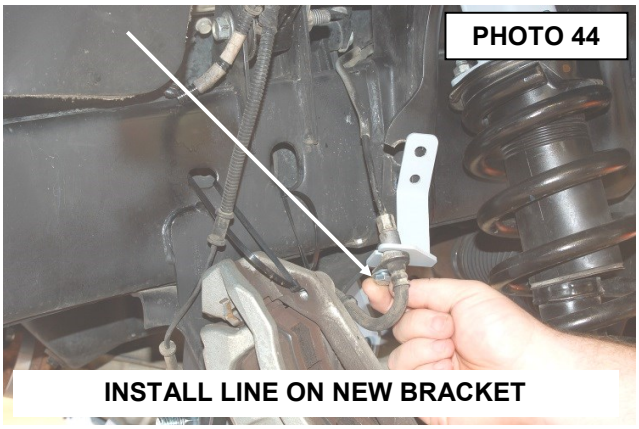
49. Install the sway bar link bracket to the bottom side of the sway bar and tighten with the 12mm x 35mm bolts and flange nut. Tighten using a 18mm and 19mm wrench. Next install the sway bar link to the bracket and tighten using the 12mm x 65mm bolts and flange nuts. **See Photo 41.**
50. Using a 13mm wrench remove bolt from brake line mount and pull brake line out to give clearance for cutting. **See Photo 42.**



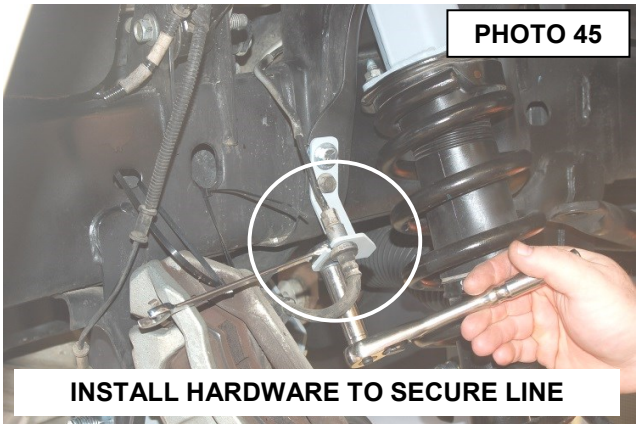


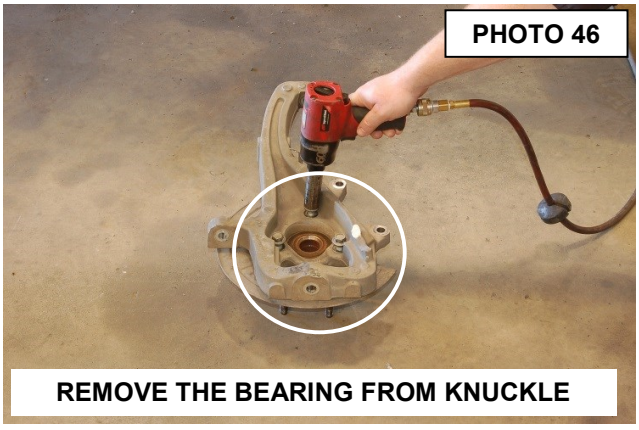
51. Notch a section of the stock mount to remove the brake line as shown in **Photo 43** and remove line from housing. Straighten bends in hard metal lines making sure to not kink lines.
52. Install new brake line bracket onto brake line using supplied 5/16” x 3/4” bolts, washers and nuts. **See Photo 44.**



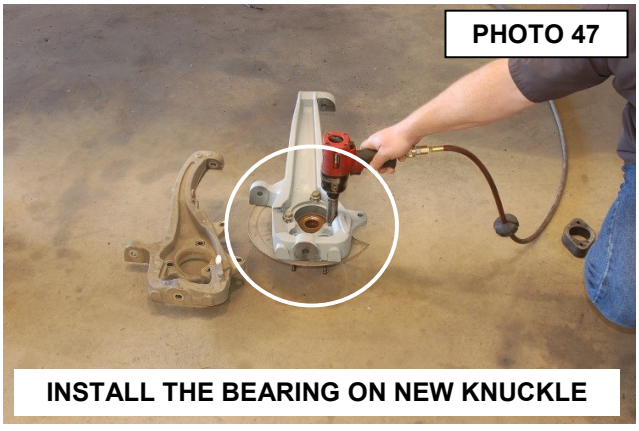


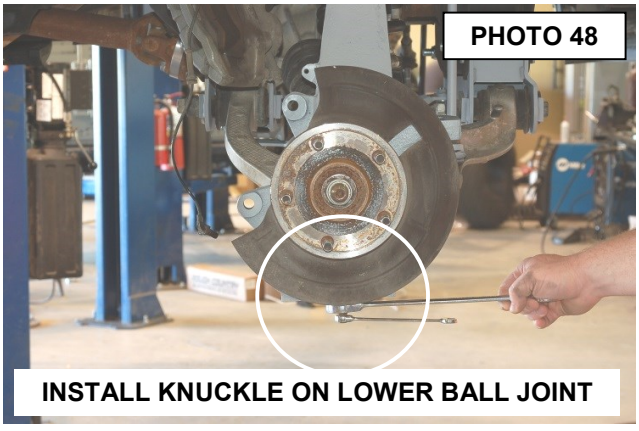
53. Then attach bracket to frame using stock bolt in lower hole and new supplied 3/8” x 1” bolts, washers and nuts. **See Photo 45.** Use a 13mm wrench to tighten stock bolt and lower brake line bolt then use a 14mm on top 3/8” bolt.
54. Remove bearing assembly from the stock knuckle using 18mm socket. **See Photo 46.**



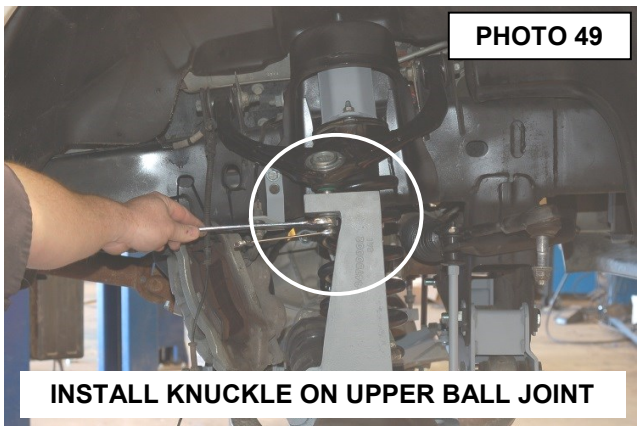


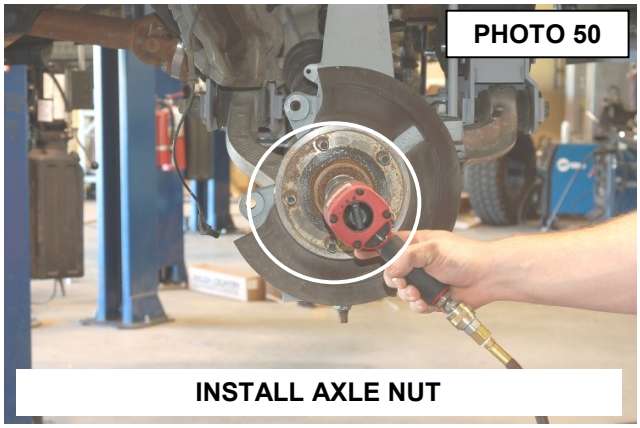
55. Install bearing into new knuckle using stock bolts and a thread locking compound. **See Photo 47.**
56. Install new knuckle onto truck using a 24 and 12mm wrench for lower ball joint. **See Photo 48.**



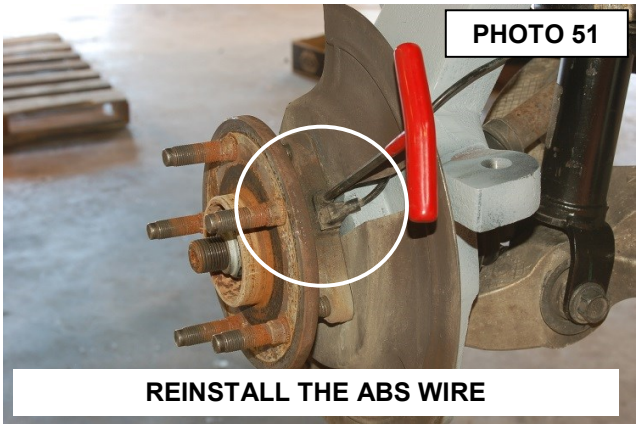


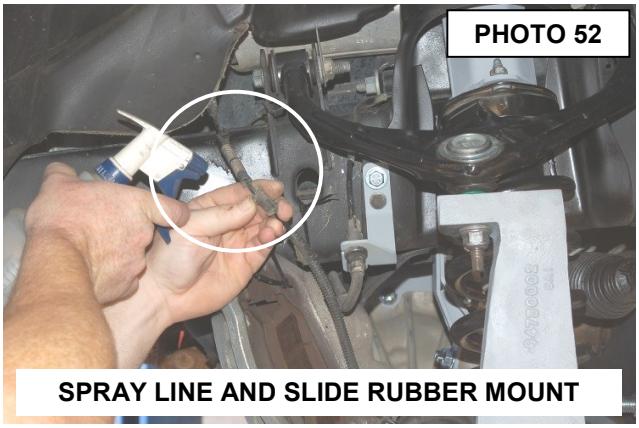
55. Slide the axle in the bearing assembly and install the knuckle on the upper ball joint using a 21mm and 10mm wrench. **See Photo 49.**
56. Tighten the axle nut using a 35mm socket. Torque to factory spec. **See Photo 50.**



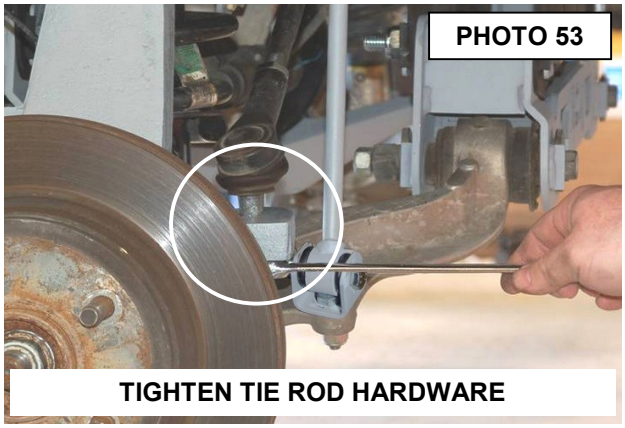


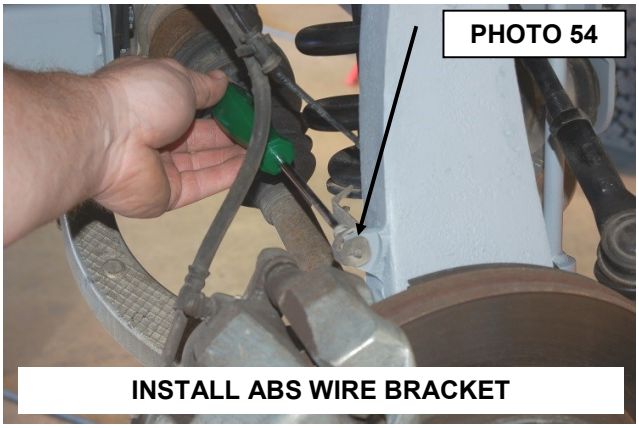
57. Unclip ABS wire from upper control arm and install wire back into bearing assembly using 5mm allen wrench. **See Photo 51**.
58. Using WD-40 move the rubber insulator into right spot and clip back into upper control arm. **See Photo 52**.



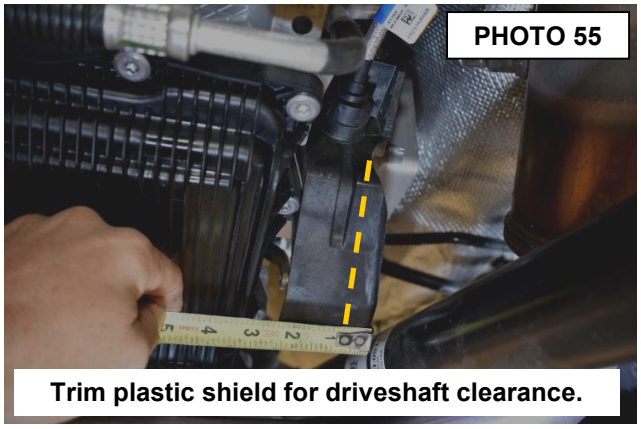


59. Install rotor and brake caliper. Use a 21mm socket to tighten caliper.
60. Install tie rod into knuckle using 21mm wrench. **See Photo 53.**
61. Using a T30 bit remove ABS wire bracket from old knuckle and install on new one. Reinstall the ABS wire on the mount. **See Photo 54.**





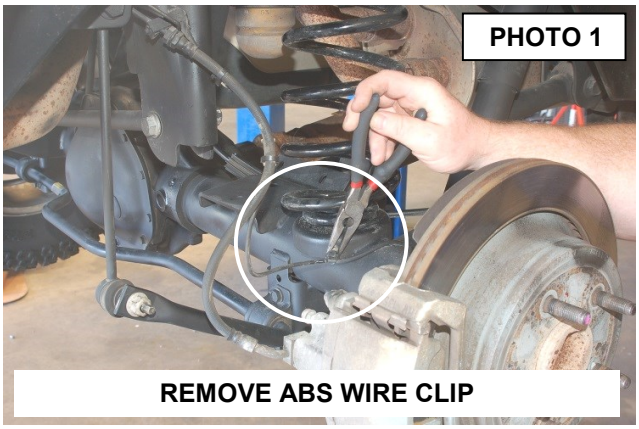
62. Measure over 3/4” and trim this plastic shield for driveshaft clearance. **See Photo 55.**

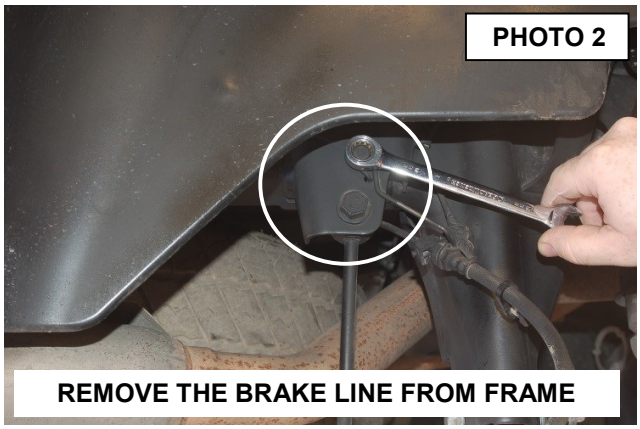


63. Repeat steps 38-57 for opposite side.
64. Install tires and wheels.
65. Remove the jack stands and lower the vehicle to the ground.
66. Tighten lower control arm hardware using a 24mm socket / wrench

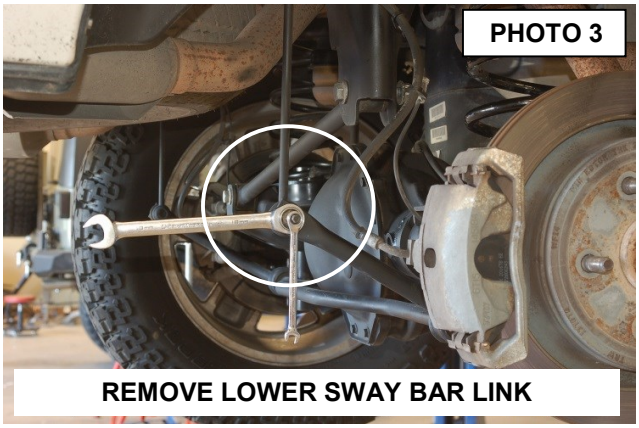
REAR INSTALLATION INSTRUCTIONS

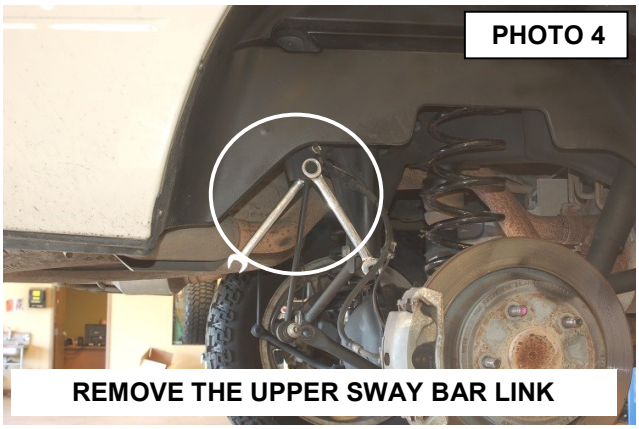
1. Chock the front tires. Raise rear of the vehicle with floor jack.
2. Support the rear with jack stands
3. Remove wheels using a 22mm socket.
4. Remove ABS clip from axle. **See Photo 1**.
5. Remove the brake line as shown in **Photo 2** using 13mm.





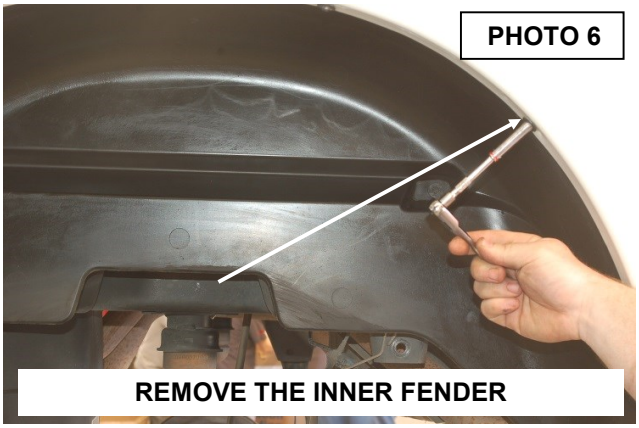
6. Remove sway-bar link using 8mm and 18mm wrench for lower end and 18mm for top end. **See Photo 3 & 4.**



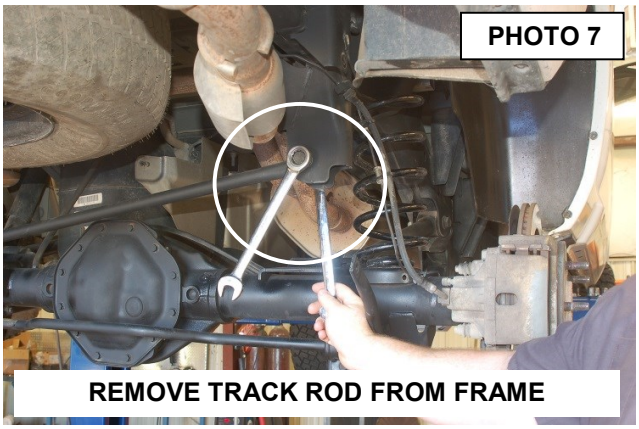


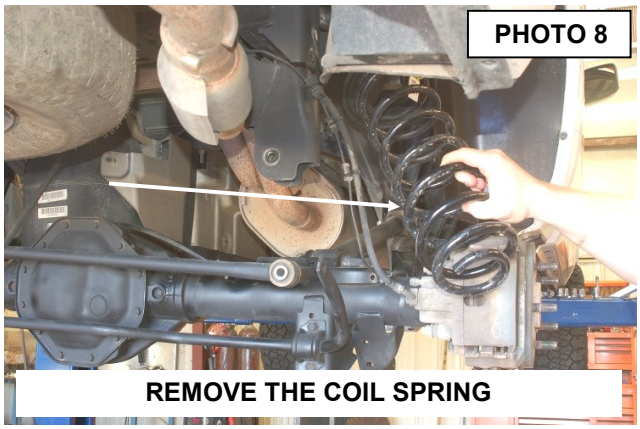
7. Remove the shocks from the axle using 21mm wrench. **See Photo 5.**
8. To remove the upper shocks from the frame mount, remove the inner fender well using 8mm socket. **See Photo 6**. There are **10** bolts on driver side and **10** on passenger side. This is done to gain access to nut on back of shock. Use a socket on back side to remove bolt.



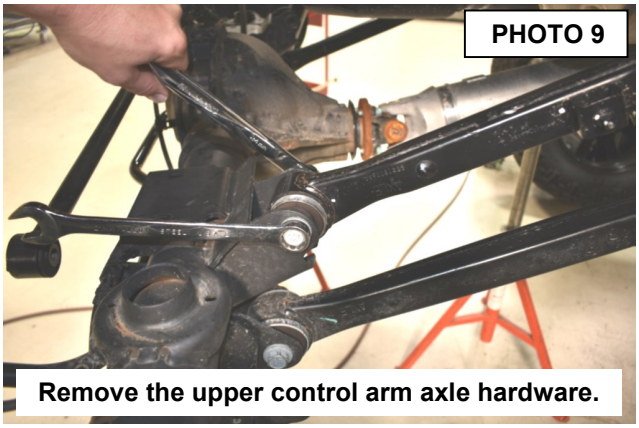


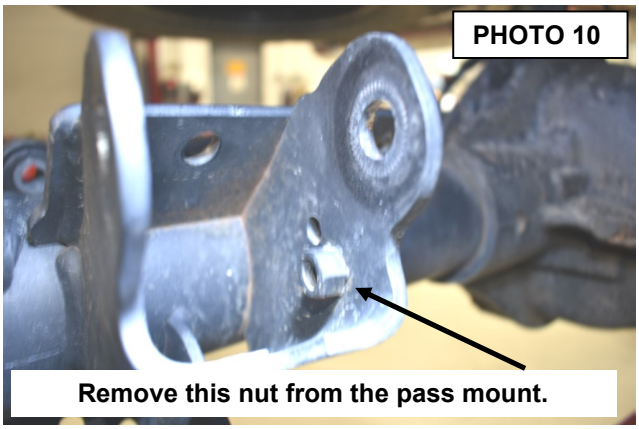
9. Remove upper track bar bolt using 21mm wrench. **See Photo 7.**
10. Remove the vent hose from the frame.
11. Remove coil springs. **See Photo 8.**





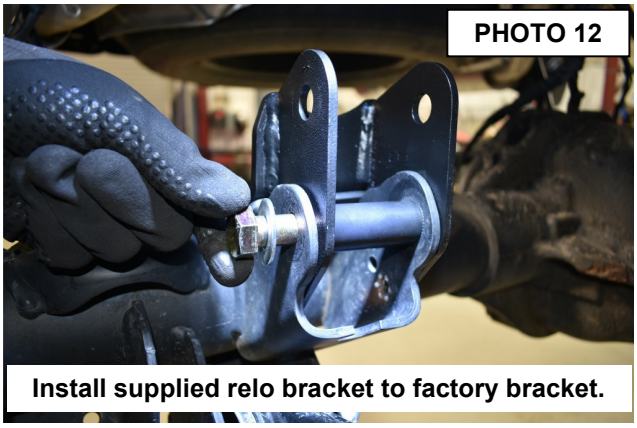
12. **4" kits skip to step 28.** Using a 21mm wrench and a 24mm wrench, remove the hardware from the axle end of the upper control arm. Retain hardware. **See Photo 9.**
13. Using a punch and hammer, remove the welded nut from the inside of the pass upper control arm mount. **See Photos 10 & 11.**





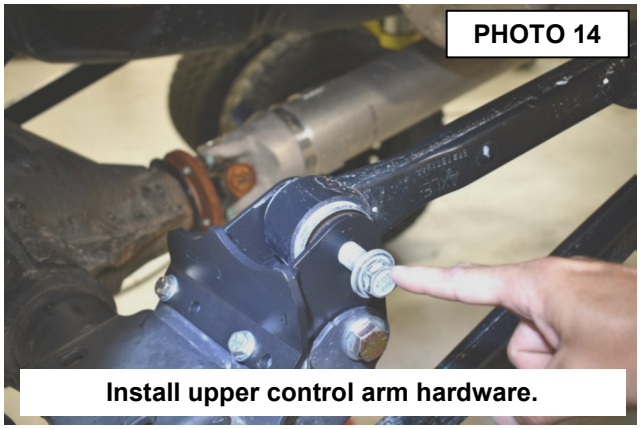
14. Install the supplied upper control arm relocation bracket in the factory bracket using the supplied sleeve and 5/8" x 4.5" bolt, washers, and nylock nut (33430BAG6). Do not tighten. **See Photo 12.**





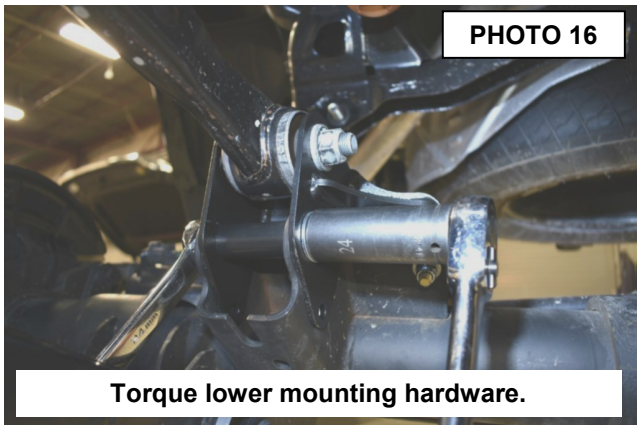
15. Install the supplied 3/8” x 1.25” bolts, washer, and nylock nuts into the rear of the mount. Torque to 30ft/lbs using a 9/16” socket and wrench. Do not tighten. **See Photo 13.**
16. Install the upper control arm in the relocation bracket using the factory hardware. Do not tighten. **See Photo 14.**



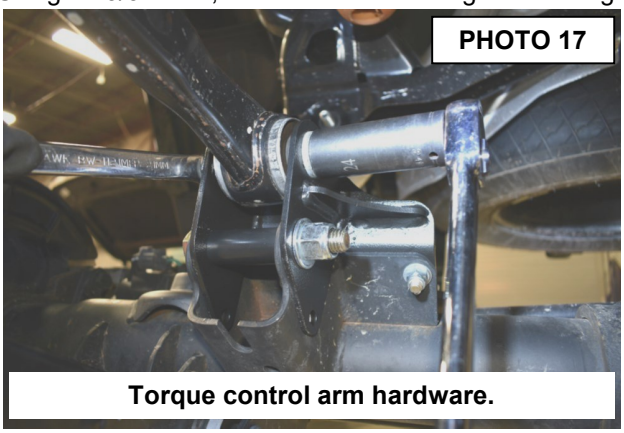


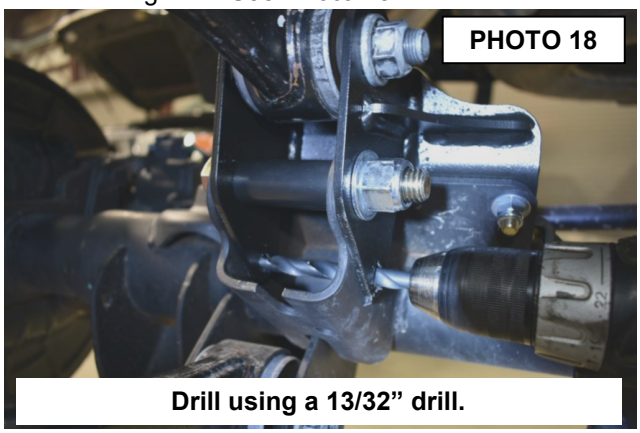
17. Torque the 3/8” hardware to 30ft/lbs using a 9/16” socket and wrench. **See Photo 15.**
18. Torque the 5/8” hardware to 135ft/lbs using a 15/16” wrench and socket. **See Photo 16.**



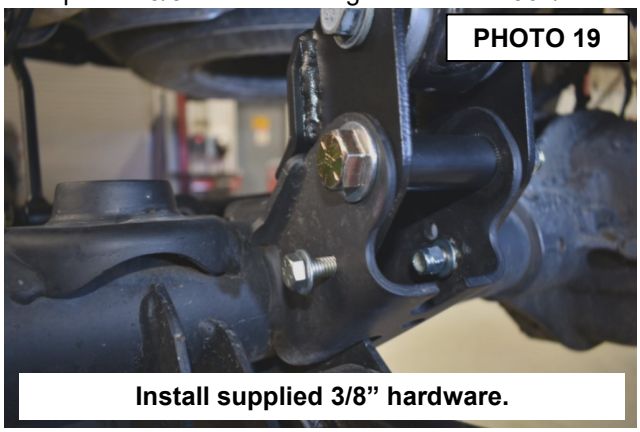


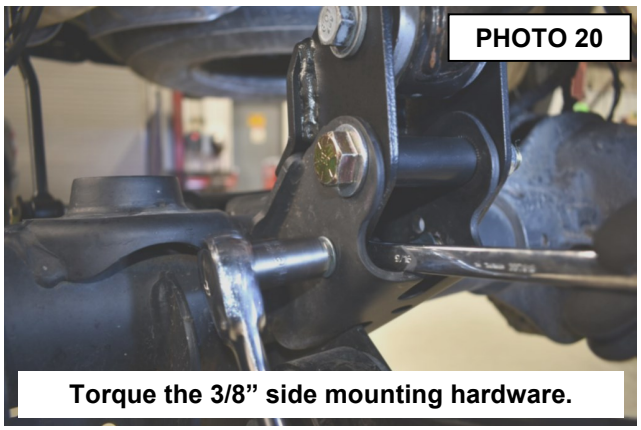
19. Torque the factory hardware to 145 ft-lbs. using a 24mm socket and 21mm wrench. **See Photo 17.**
20. Using a 13/32” drill, drill the side mounting holes using the bracket as a guide. **See Photo 18.**



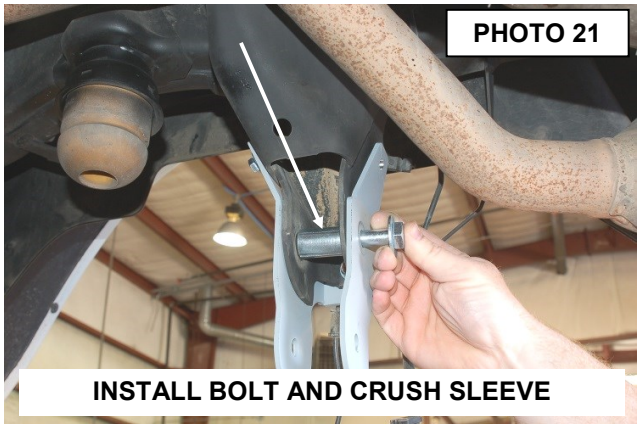


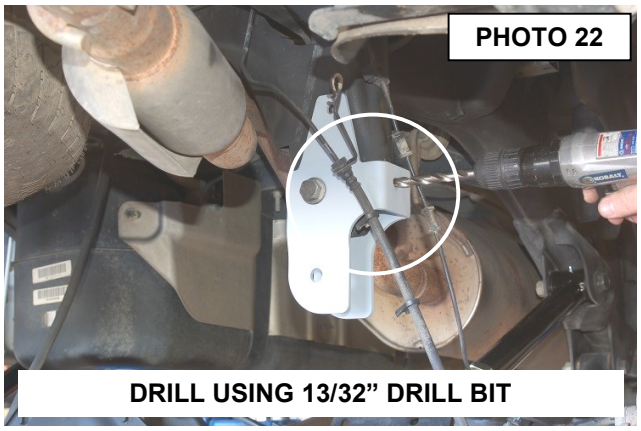
21. Install the supplied 3/8” x 1.25” bolts, washers, and nylock nuts (33430BAG6). **See Photo 19.**
22. Torque the 3/8” side mounting hardware to 30ft/lbs using a 9/16” socket and wrench. **See Photo 20.**



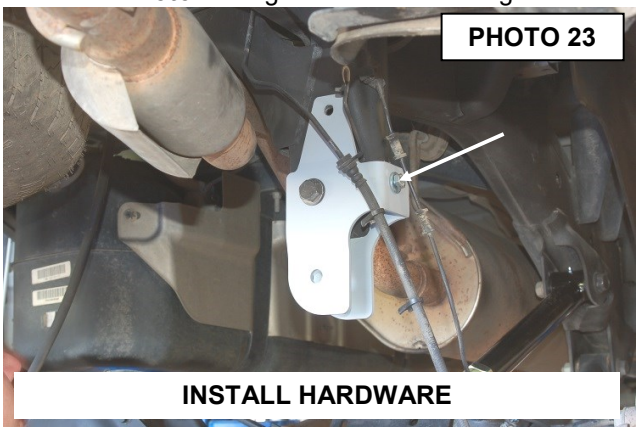


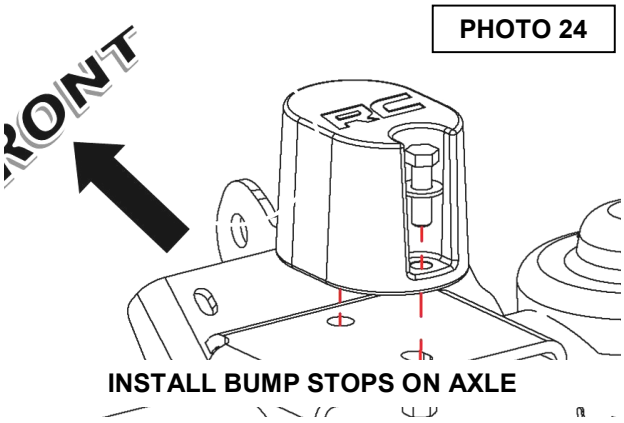
23. Install track bar bracket using supplied crush sleeve,14mm x 80mm bolt, washers and nut **See Photo 21.** Do not tighten at this time. **Make sure the bracket is installed correctly placing the lower hole in the new bracket directly below the stock hole. Failure to install this bracket correctly will push the axle out of center.**
24. Use bracket to mark the side hole to be drilled. Drill the hole on the side of the bracket using a 13/32 drill bit. **See Photo 22.**





25. Install the 3/8” x 1 1/4” Bolt, washers & nut on the side hole. Tighten using a 14mm socket / wrench. **See Photo 23.**
26. Double check to make sure the bracket is still in position.
27. Drill the other two upper holes using a 13/32” drill bit and install supplied 3/8” x 1 1/4” bolts, washers and nuts. Tighten using a 14mm wrench / socket.
28. Install bump stops using supplied 3/8” x 1.25” bolts, washers and nuts. The pin in the block goes in front hole as shown in **Photo 24.** Tighten hardware using a 14 mm wrench.





29. If **installing 9424 coil springs, skip to next step.** Install the round retainer washer from the top side of the upper coil pocket. Using the supplied 3/8" x 5.0 bolt, insert the bolt through the center hole of the rear coil spacer and tighten with a 9/16" socket. **See Photo 25.** Next install the factory coil spring and isolator.
30. Install the factory coil spring isolator in the upper coil spring bucket. **See Photo 26.**

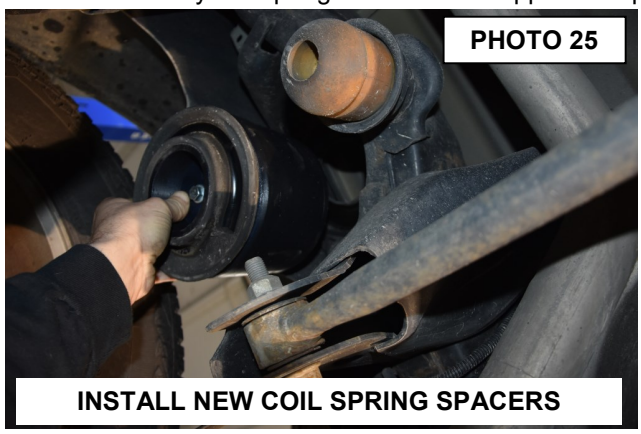
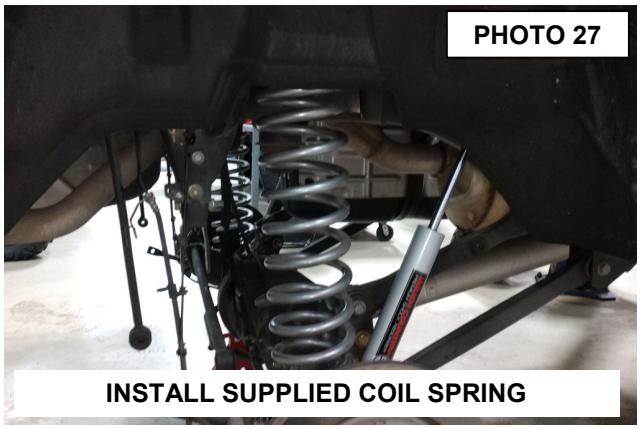
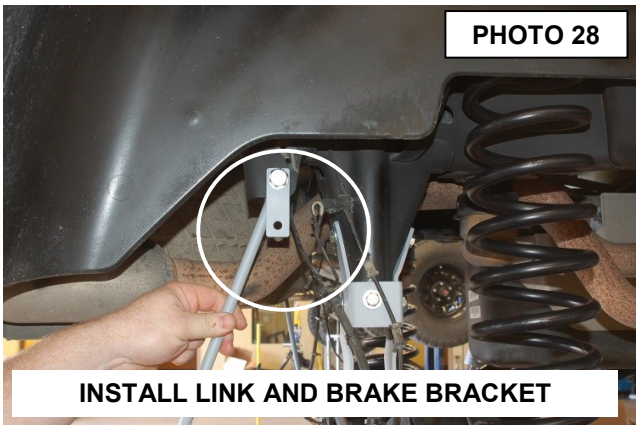

PHOTO 25
INSTALL NEW COIL SPRING SPACERS

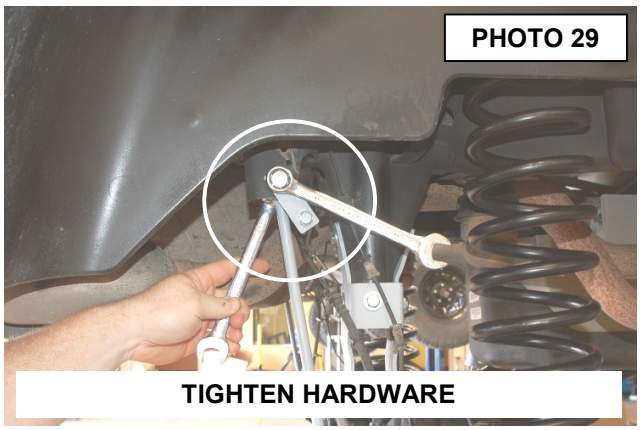

PHOTO 26
INSTALL FACTORY COIL ISOLATOR

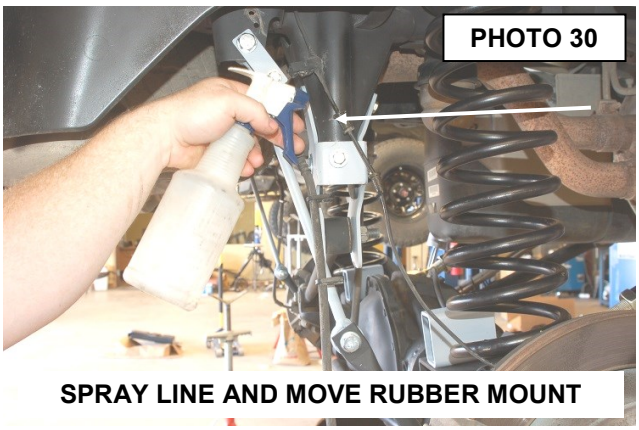
31. Install supplied coil spring in upper coil bucket and on axle mount. Make sure coil is seated in upper isolator. **See Photo 27.**
32. Install shock onto truck, **body of shock will go to bottom mount**, using stock hardware with supplied flag nut for top bolt. **If installing V2 rear shocks, refer to installation instructions included with those shocks.**
33. Also install washer on bottom of shock to the outside of truck. Use 21mm to tighten.
34. Pull down and straighten brake line. Take care not to kink the brake line.
35. Install sway bar links & brake line brackets on the frame with the supplied 12Mm x 65mm bolts, washers and nut. **See Photo 28.**


PHOTO 27
INSTALL SUPPLIED COIL SPRING

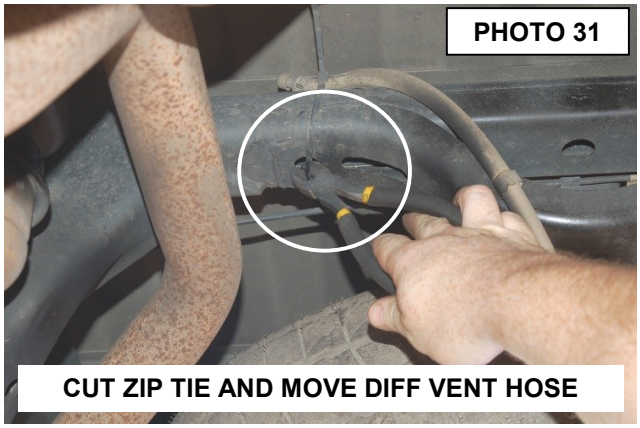

PHOTO 28
INSTALL LINK AND BRAKE BRACKET

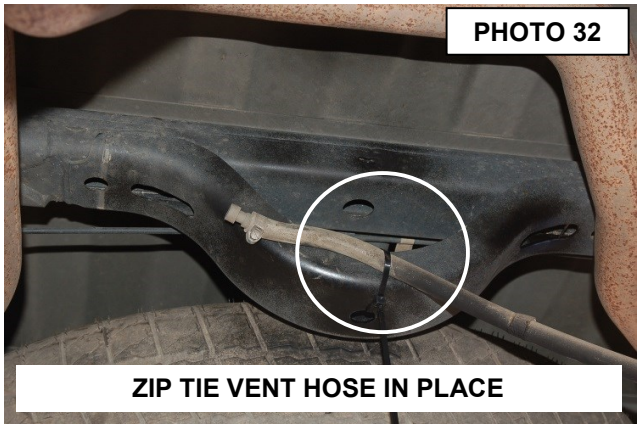
36. Install stock brake line mount on the bracket using the supplied 5/16" x 3/4" bolt, washers and nut. **See Photo 29.** Use a 18mm and 19 mm to tighten sway bar link bolts and 13 mm for brake line bolts.
37. Install track bar into bracket with stock hardware. You may have to do this with truck on the ground. Tighten upper bolt using 22mm wrench and lower with 21mm wrench.
38. With WD-40 or alcohol adjust the rubber insulator on ABS wire so that it will fit back into clip on brake line. **See Photo 30.**


PHOTO 29
TIGHTEN HARDWARE


PHOTO 30
SPRAY LINE AND MOVE RUBBER MOUNT

39. If not removed previously, Cut zip tie for axle vent tube and install new zip tie and vent tube on lower part of frame. **See Photo 31 & 32.**





40. Reinstall the fender wells using 8mm socket.
41. Install the wheels and tires.
42. Raise the vehicle up and remove the jack stands, lower the vehicle onto the ground.
43. Tighten the upper control arms installed in step 13 using a 24mm wrench.
44. Check to make sure all fasteners are tight and install the wheels and tires and lower onto the ground.

POST INSTALLATION

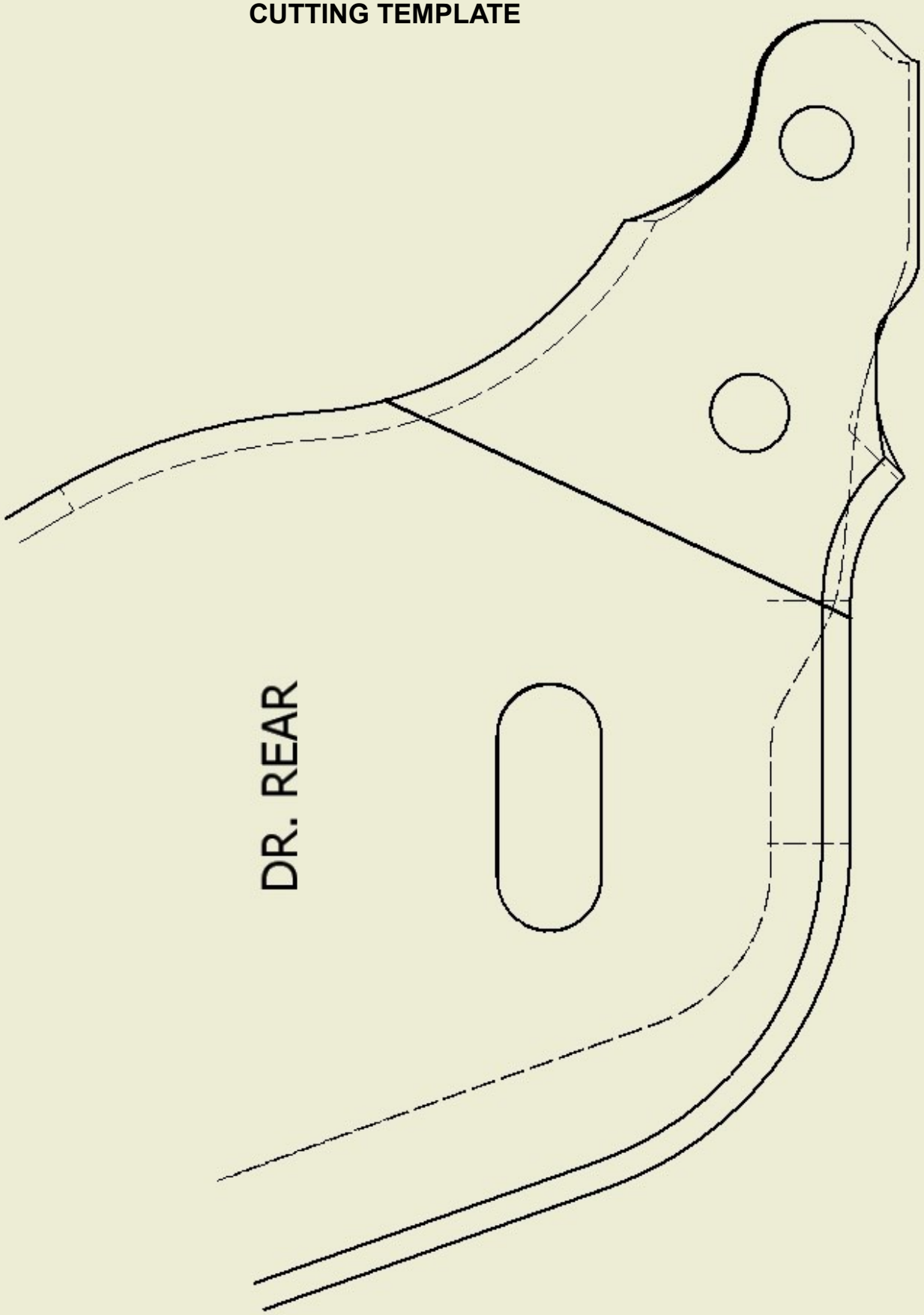
1. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering for interference and proper working order. Test brake system.
2. Perform steering sweep. The distance between the tire sidewall and the brake hose must be checked closely. Cycle the steering from full turn to full turn to check for clearance.
3. Re torque all fasteners after 500 miles. Visually inspect components and re torque fasteners during routine vehicle service.
4. Readjust headlights to proper settings and take truck in for a front-end alignment to a qualified alignment professional.

Thank You for choosing Rough Country for your off road needs!!!

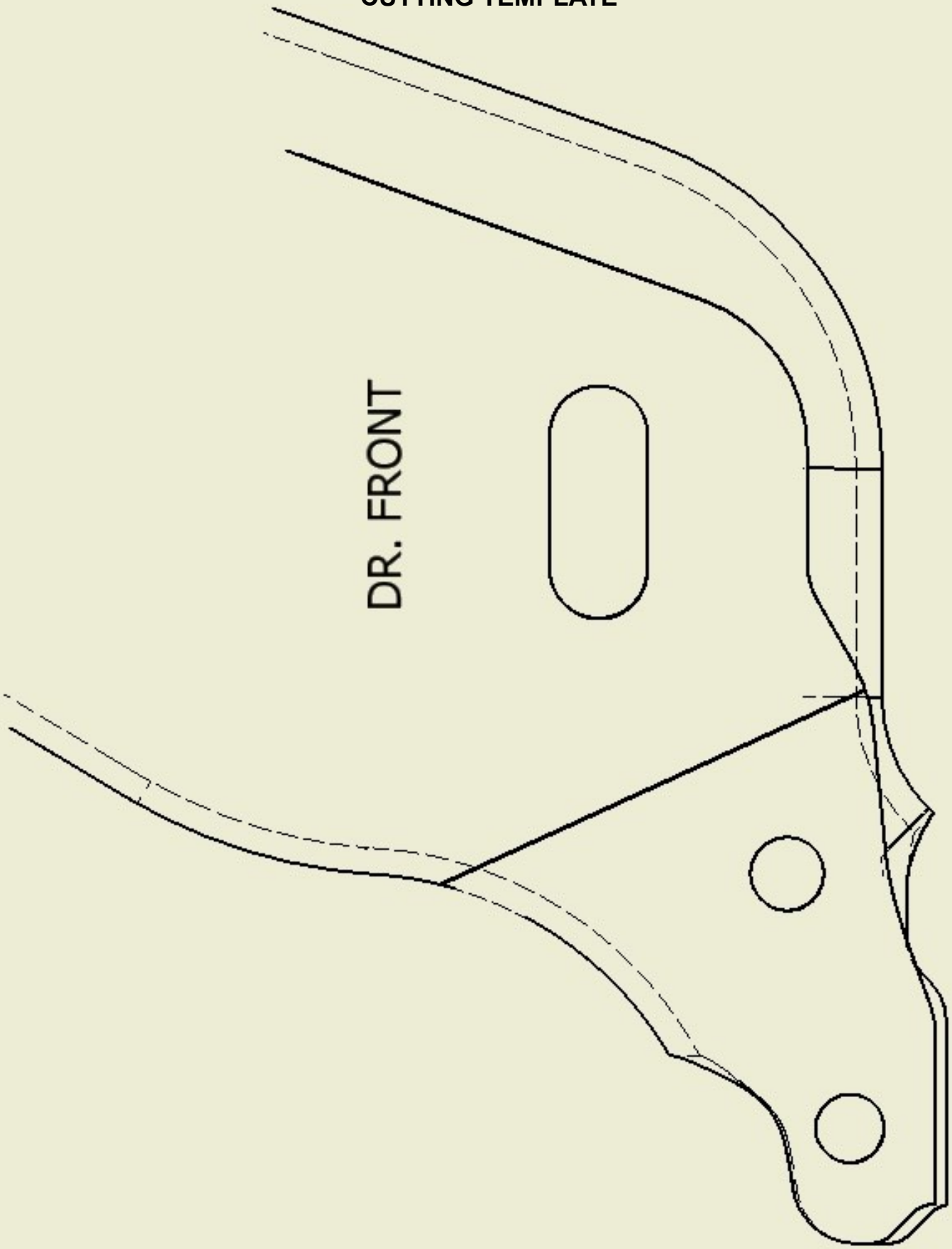
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