Rough Country 10450 Installation Instructions

10450

Part number: 10450

trailfortress.com/rough-country-7-5-inch-lift-kit-10450

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

2011-19 GM 2500/3500HD 2wd/4wd 5-7.5” Torsion Bar Drop Lift Kits

Thank you for choosing Rough Country for all of your suspension needs.
Rough Country recommends a certified technician installs 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 all the instructions before beginning the installation. Check the kit hardware against the Kit Contents list on next page. Be sure you have all the needed parts and understand where they go. Also please review the tools needed list to be certain that you have the tools necessary to complete the installation.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend, because of rollover possibility, that seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur. Braking performance and capabilities are decreased when significantly larger/heavier tires and wheels are used. Take this into consideration while driving. Also, speedometer recalibration is necessary when larger tires are installed.

Do no add, alter, or fabricate any factory or after-market parts which increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands, lifts, with this suspension lifts voids all warranties. 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.

Due to differences in manufacturing, dimension and inflated measurements, tire and wheel combinations should be test fit prior to installation. For this application we recommend a wheel not to exceed 9” in width with 4.5 “ of backspacing.. Additionally a quality tire of radial design is recommended, not exceeding 35” tall and 12.5” wide. Please note that use of a 35” x 12.5” tire may require modification to the front valance. If this vehicle was equipped from the factory with 17” wheels and if purchasing new wheels, the wheel size must not be below 17” but can be larger than 17” due to the vehicle being equipped with larger calipers /rotor.

⚠NOTICE **Gas models may require modification to the exhaust to clearance the driveshaft. We recommend an exhaust professional perform this modification.**

⚠NOTICE **Due to varying cab, motor, and bed length configurations on these trucks the final ride height measurement may need to be adjusted. After installation roll the truck forward and backwards, next measure from the center of the front hub to the edge of the fender the truck should be a minimum of 31.0” and a maximum of 32.5”. The torsion bar bolt will need to be adjusted until the measurement falls into this range.**

⚠NOTICE NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Rough country product must have the “Warning to Driver” decal installed on the sun visor or dash. The decal is to act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics. INSTALLING DEALER—It is your responsibility to install the warning decal and to forward these installation instructions on too the vehicle owner for review and to be kept in the vehicle for its service life.

We hope installing your Rough Country lift kit is a positive experience. Please note that variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at 800-222-7023. We do not recommend that you modify the Rough Country parts in any way as this will void any warranty expressed or implied.

trailfortress.com/rough-country-7-5-inch-lift-kit-10450

Kit Boxes

10330 (5” Torsion Drop w/ N3 Shocks):

1253BOX1
1253BOX2
1253BOX6
10330BOX1
10130BOX3
10430BOX1
23153
23198

10430 (7.5” Torsion Drop w/ N3 Shocks):

1253BOX1
1253BOX2
1253BOX6
10430BOX2
10130BOX3
10430BOX1
23153
23198

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

10330 & 10430 Kit Box & Bag Contents

Kit Contents:

1253Box1
Driver Side Knuckle

1253Box2
Pass Side Knuckle

1253Box6
Front Skid Plate

10330BOX1 (5" Kit Only)
Dr Torsion Drop Bracket
Pass Torsion Drop Bracket
5/8" X 3" X 15" Square U-bolts (4)
RR Lift Blocks (2)
RR Bump Stops (2)
5" Frt Bump Stop Ext (2)
5" Rear Bump Stop Ext (2)
1260BAG2
10430BAG1

10430BOX2 (7.5" Kit Only)
Dr Torsion Drop Bracket
Pass Torsion Drop Bracket
5/8" X 3" X 15" Square U-bolts (4)
RR Lift Blocks (2)
RR Bump Stops (2)
7" Frt Bump Stop Ext (2)
7" Rear Bump Stop Ext (2)
10430BAG1
CV Spacer

10130BOX3
Rear Cross Member
Frt Cross Member

10430BOX1
1253BAG10
1253BAG2
1253BAG3
1253BAG4
1253BAG7
5/8BAG
Cable Tie (2)
Diff. Brake Bracket
Rear Brake Line Bracket (2)
Rear E-Brake Bracket
Sway Bar Link (2)
Sway Bar Bracket (2)
Dr. Front Brake Line Bracket
Pass. Front Brake Line Bracket
Dr. Side Diff Bracket
Pass. Side Diff Bracket

23152 - Front N3 Shocks

23198 - Rear N3 Shocks

Fastener Breakdown:

1253BAG2:
3/4" Flat Washer (8)
18mm x 120mm Bolt (2)
18mm x 140mm Bolt (2)
18mm Lock Nut (4)

1253BAG3:
12mm x 35mm Bolt (5)
12mm Lock Nut (5)
9/16" x 3 1/2" Bolt (4)
9/16" Flat Washer (8)
9/16" Lock Nut (4)
1/2" x 1 1/2" Bolt (4)
1/2" Lock Nut (4)
1/2" Flat Washer (8)
7/16" Flat Washer (5)
7/16" x 3" Bolt (4)
3/8" Flat Washer (8)
3/8" x 1 1/4" Bolt (4)
3/8" Lock Nut (4)

1260BAG2:
3/8" x 1" Self Tapping Bolts x2

10430BAG1:
9/16" X 4" Bolts (2)
9/16" Nylock Nuts (2)
9/16" Flat Washers (4)
1/4" x 1" Bolts (6)
1/4" Nylock Nuts (6)
1/4" Flat Washers (12)
Front Flag Nuts (2)
Rear Flag Nuts (2)
Bump Stop Ext Retainer (4)
1/2" x 1 1/2" Bolts (4)
1/2" Lock Washers (4)
1 7/8" Dia Flat Washer (2)
3/8" x 1 1/4" Bolts (4)
3/8" Flat Washers (4)
3/8" Lock Washers (4)
5/16" x 3/4" Bolts (2)
5/16" Flat Washers (2)

1253BAG4:
3/8" x 1 1/4" Bolt (4)
3/8" Flat Washer (4)
5/16" Flat Washer (5)
5/16" x 3/4" Bolt (4)
5/16" Lock Nut (5)

1253BAG7
Flag Nuts (4)

5/8BAG
5/8" Nuts

1253BAG10
3/8" x 1.25" Bolts (4)
3/8" Lock Washers (4)
3/8" Flat Washers (4)
3/8" Nuts (4)

1253BAG9
Cable Clamp x1

KIT CONTENTS

10330

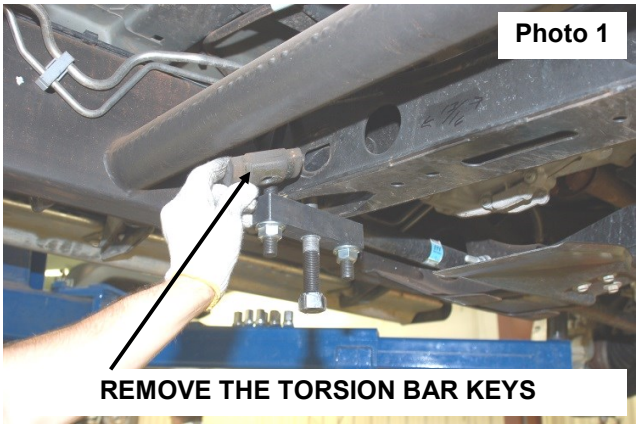


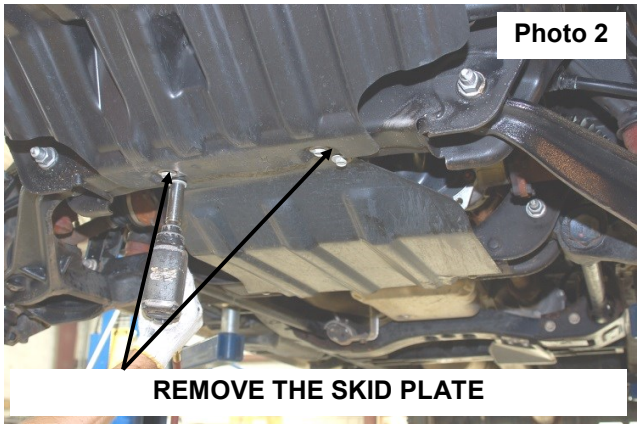
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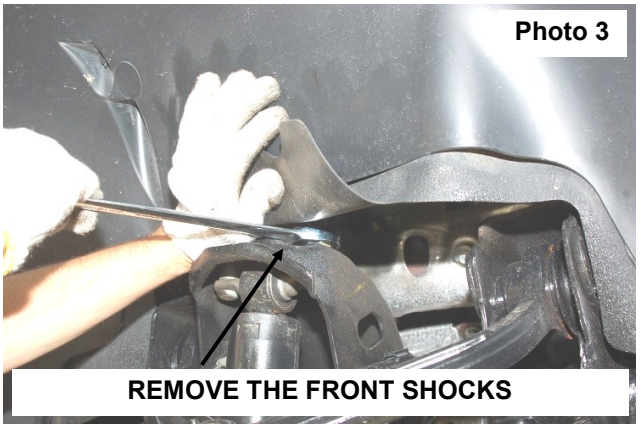
INSTALLATION INSTRUCTIONS

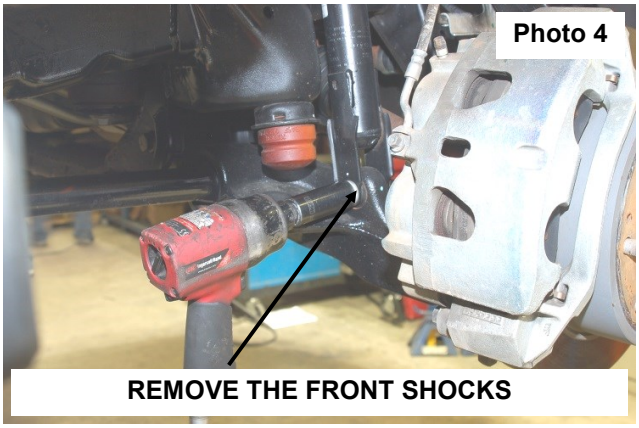
1. Chock the rear wheels.
2. Jack up the front of the vehicle.
3. Place jack stands on the frame behind the lower control arms.
4. Lower the vehicle onto the jack stands and remove the tires and wheels.
5. Place the floor jack under the differential.
6. Using a torsion bar tool, unload the torsion bars using a 21mm socket and remove the threaded block. Retain the stock hardware **See Photo 1**.
7. Slide the bars forward to disengage the torsion bar adjusters. Pay attention to how the adjusters are positioned / clocked in the cross-member.
8. Remove the torsion bars from the vehicle and be sure to mark bars driver and passenger side and front to rear.
9. Remove the skid plate from the frame using a 15mm socket. **See Photo 2.**



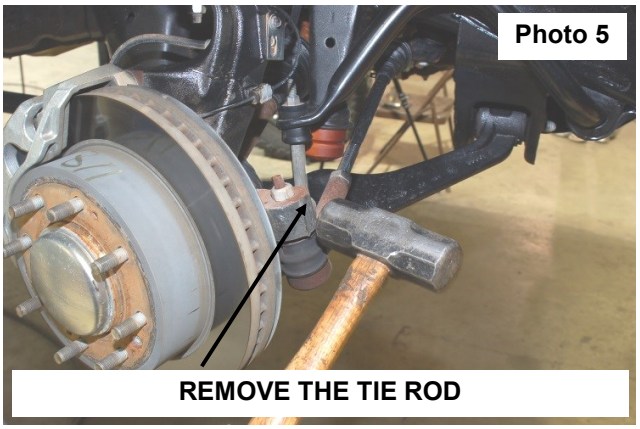


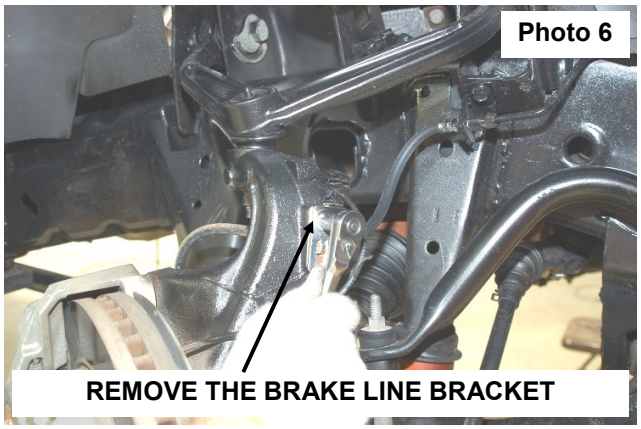
10. Remove the upper shock using a 21mm socket. **See Photo 3.**
11. Remove lower shock 21MM remove shock. **See Photo 4.**



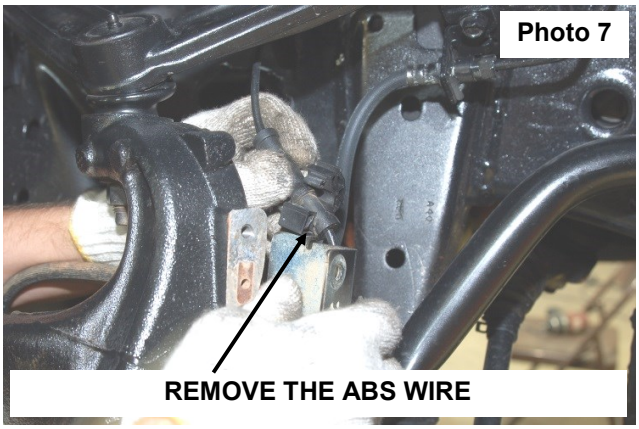


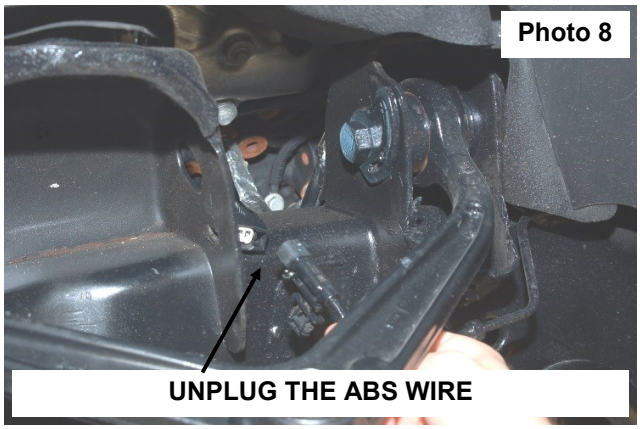
12. Remove tie-rod using a 21mm socket / wrench. Retain the stock hardware. **See Photo 5.**
13. Remove brake line bracket from knuckle using a 10mm socket / wench. Retain the factory hardware. **See Photo 6.**



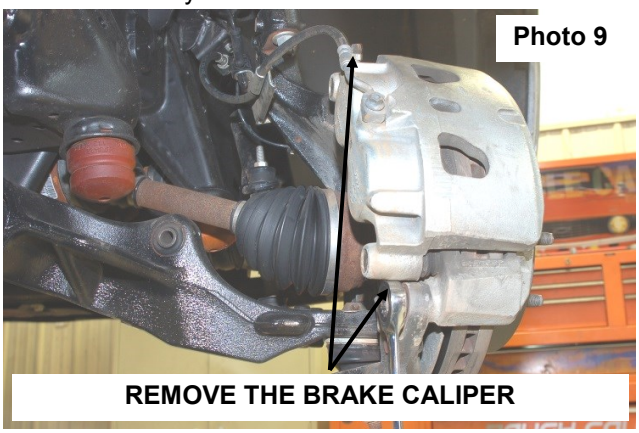


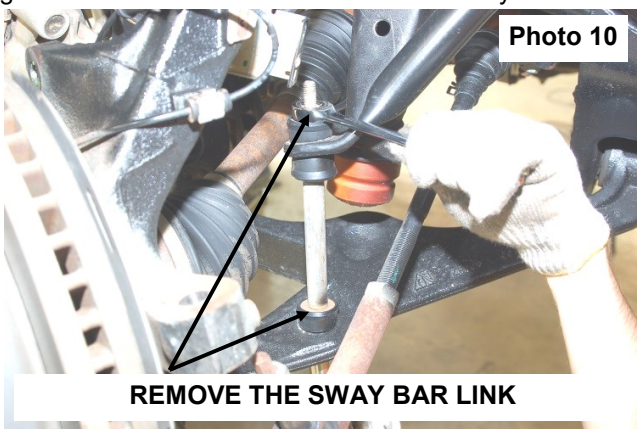
14. Remove the ABS wire from the bracket as shown in **Photo 7** and from disconnect at the frame as in **Photo 8.**



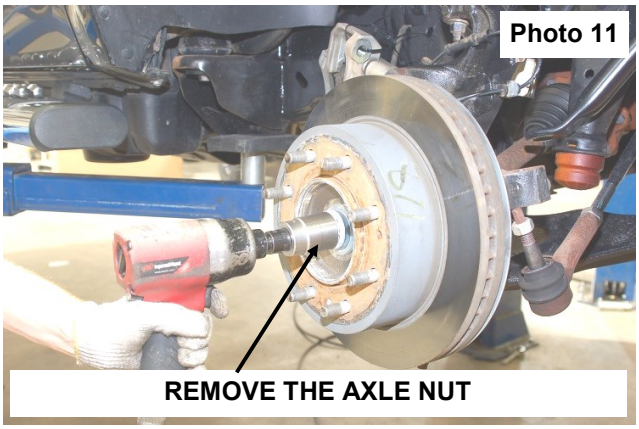


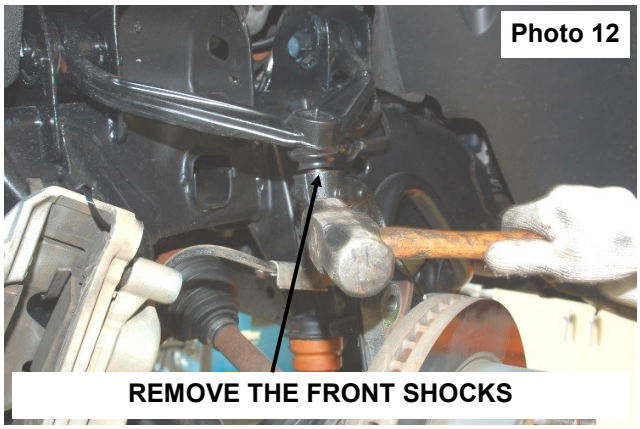
15. Remove brake caliper from the rotor using a 21mm socket / wrench. Retain the factory hardware. **See Photo 9.**
16. Remove sway-bar link hardware as shown in **Photo 10** using a 15mm socket/ wrench. Retain the factory hardware.



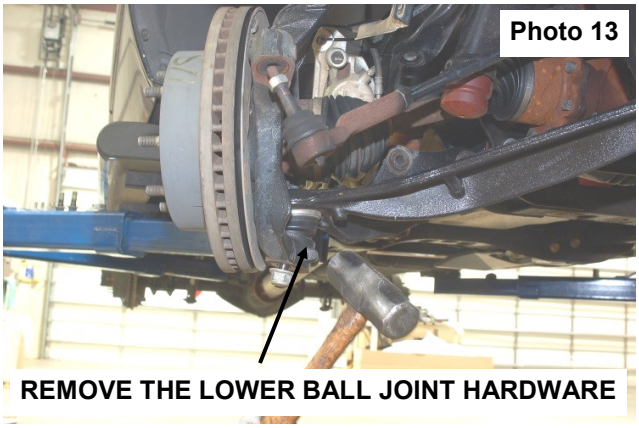


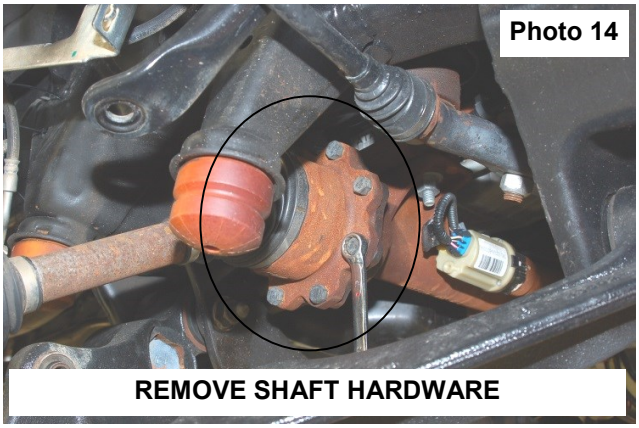
17. Remove dust cap using a flat head screwdriver to access the axle nut.
18. **2wd models skip to step 19.** Remove axle nut using a 33mm socket. Retain the factory hardware. **See Photo 11.**
19. Loosen but do not remove the upper ball-joint nut using a 18mm socket/ wrench. Strike the knuckle to release the ball joint and remove the nut. Retain the factory hardware. **See Photo 12.**



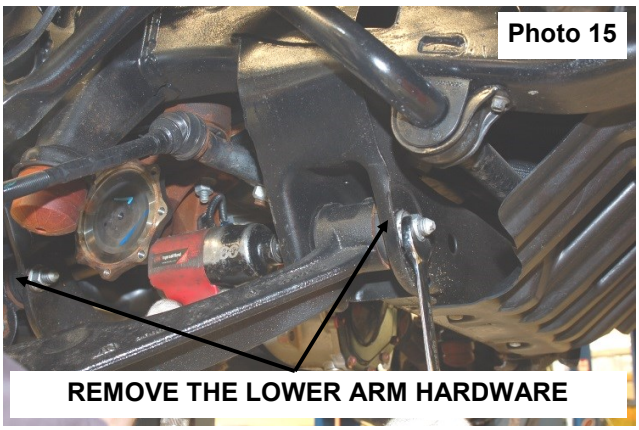


20. Loosen but do not remove the lower ball-joint nut using a 24mm socket/ wrench. Strike the knuckle as shown to dislodge the ball joint and remove the nut. Retain the hardware for reuse. **See Photo 13.**
21. Remove knuckle from the vehicle.
22. **2wd models skip to step 23.** Remove the axle shaft as shown using a 15mm socket/ wrench. **See Photo 14.**



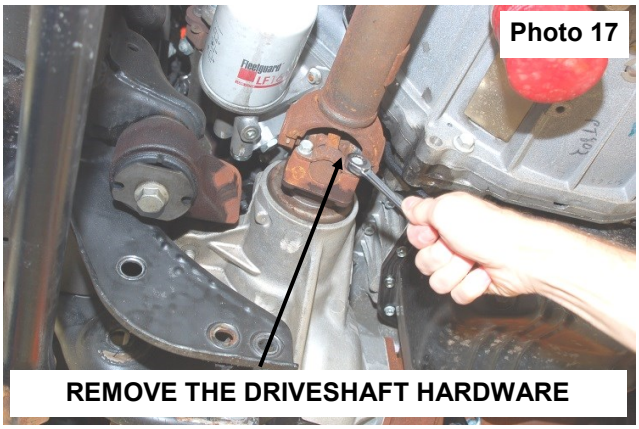


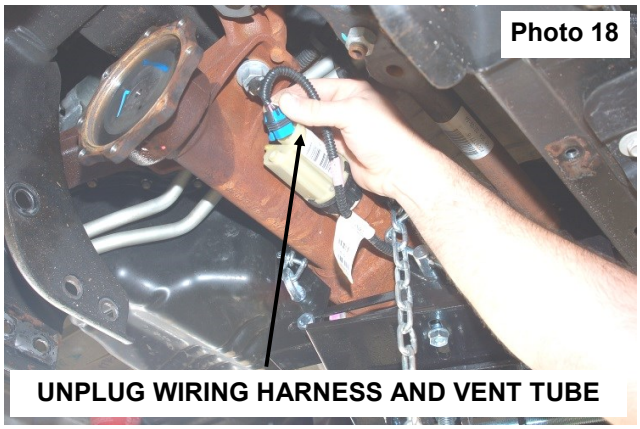
23. Remove lower arm using a 21mm socket and wrench. Retain hardware for reuse. **See Photo 15.**
24. Remove the 4 bolts (2 each side) securing the cross-member using a 18mm socket and wrench. **See Photo 16.**



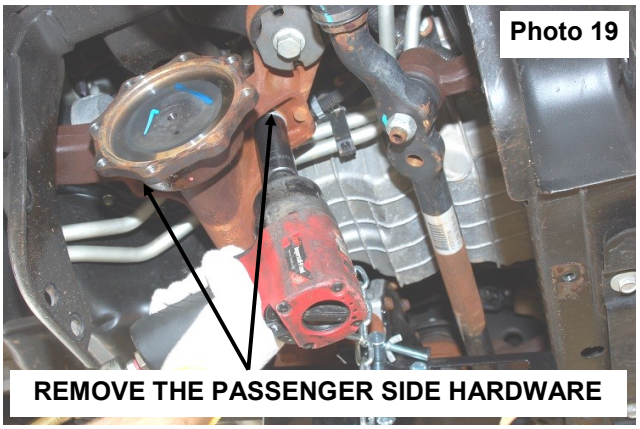


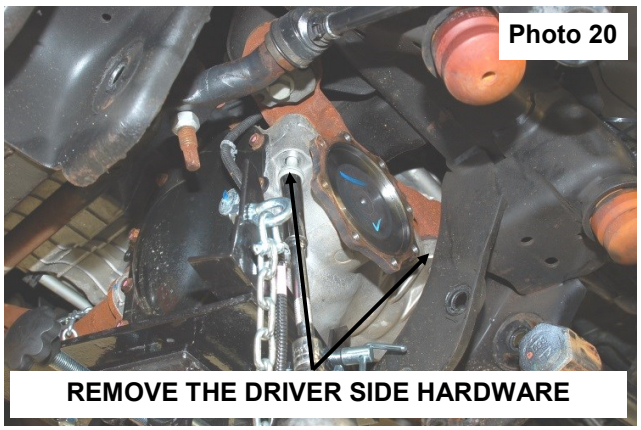
25. **2wd models skip to step 37.** Remove the front drive shaft using a 11mm socket. **See Photo 17.**
26. Remove the differential wiring harness from the axle and vent tube. **See Photo 18.**



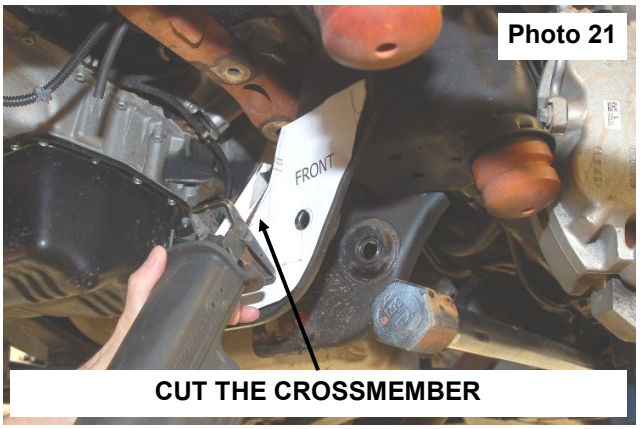


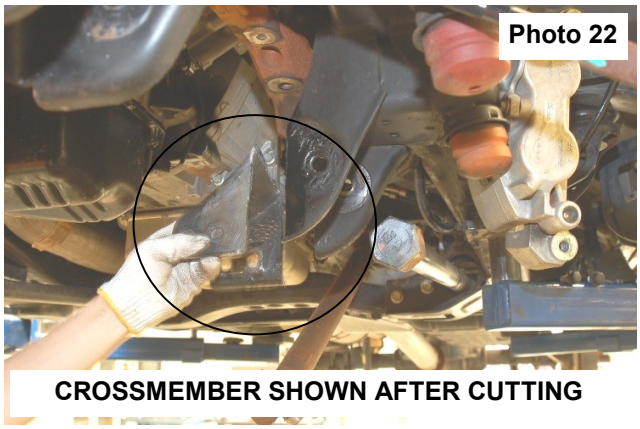
27. Remove the passenger side diff 2 bolts using a 21mm socket. Retain the stock hardware. **See Photo 19.**
28. Remove the two forward driver diff front bolts using a 15mm socket and the rear bolt using a 18mm socket. **See Photo 20.**



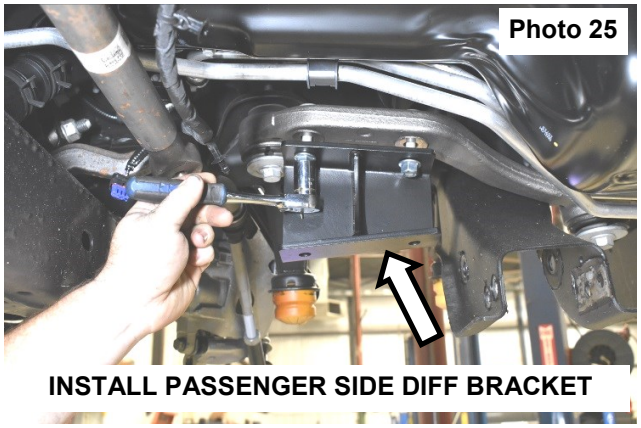


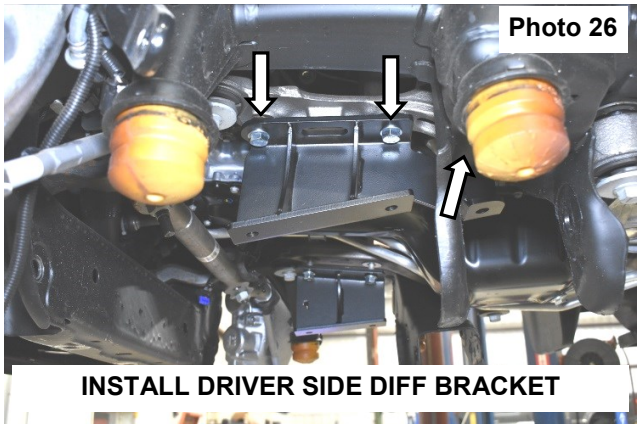
29. Position supplied front and rear trim templates on driver side rear lower arm mount, aligning the holes. Tape templates in place and cut with a reciprocating saw. **See Photo 21.** Cut through both front and back side of mount to allow space for the differential.
30. **Photo 22** shows the piece separated from the mount.





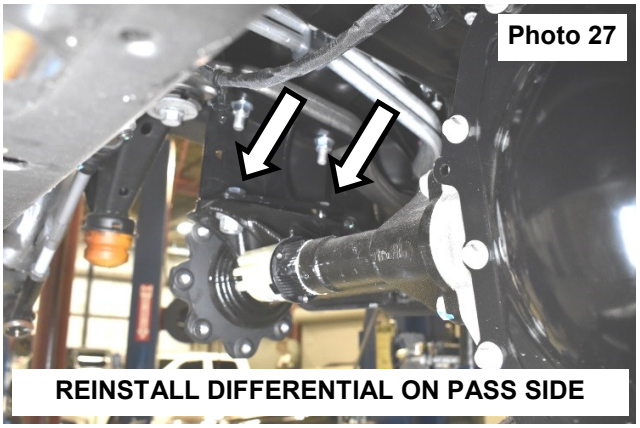
33. Install pass diff drop, taller portion toward the front, with the supplied 12mm flange lock nuts. Torque to 70 ft-lbs. using a 18MM socket. **See Photo 25. "P" will face forward and upright when looking from outside of truck.**
34. Apply thread locker to the 12mm x 35mm bolts and install driver differential bracket, taller portion toward the front using the bolts and 12mm flat washers. Torque to 70 ft-lbs. using a 19mm socket. **See Photo 26. Gussets to the outside of the vehicle.**

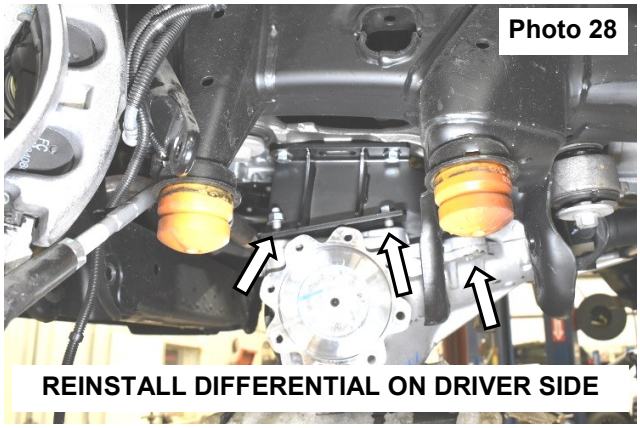

Photo 25
INSTALL PASSENGER SIDE DIFF BRACKET


Photo 26
INSTALL DRIVER SIDE DIFF BRACKET

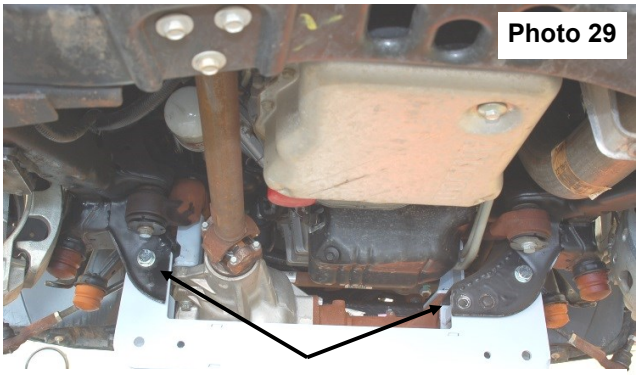
35. Apply thread locker to the two 12mm x 35mm bolts and install the passenger differential on the brackets with the supplied 12mm flat washers using stock nuts in 1253Bag3. **Do Not Tighten! See Photo 27.**
36. Install the differential on the drivers side to the bracket with the stock bolts and supplied 12mm flange lock nuts from 1253Bag3. **See Photo 28. Do Not Tighten!**

⚠ NOTICE Make sure the differential is pushed to the driver side as far as it can go. Tighten the driver side first using 15mm & 18mm wrenches. Tighten the passenger side using 19mm & 21mm wrenches. Torque to 70 ft-lb.


Photo 27
REINSTALL DIFFERENTIAL ON PASS SIDE


Photo 28
REINSTALL DIFFERENTIAL ON DRIVER SIDE

37. Reattach the differential wires and vent tube to the axle. It may be necessary to pull some slack from top. Do Not pull on the wiring connector as damage to the wires can occur.
38. Reinstall front drive shaft using the factory hardware. Torque to 19 ft-lbs. using a 11mm socket.
39. Install rear cross-member using the supplied 18mm x 140mm bolts, flat washers and lock nuts in 1253Bag2. **See Photo 29.** Do not tighten.
40. Install the two stock bolts in the stock location on the passengers side. Do not tighten.
41. Install front cross-member using the supplied 18mm x 120mm bolts, flat washers and lock nuts in 1253Bag2. **See Photo 30.** Do not tighten.


Photo 29
INSTALL REAR CROSS-MEMBER BOLTS

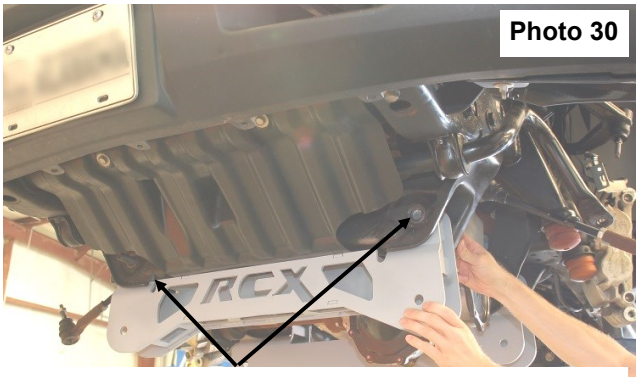
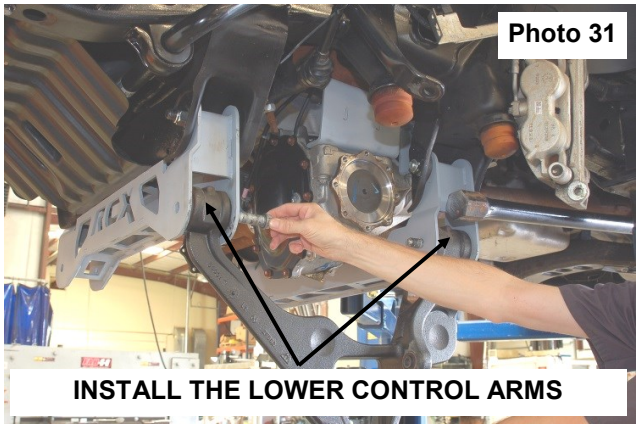
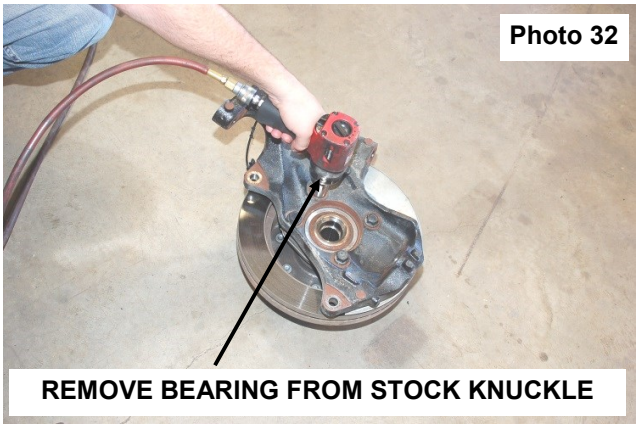


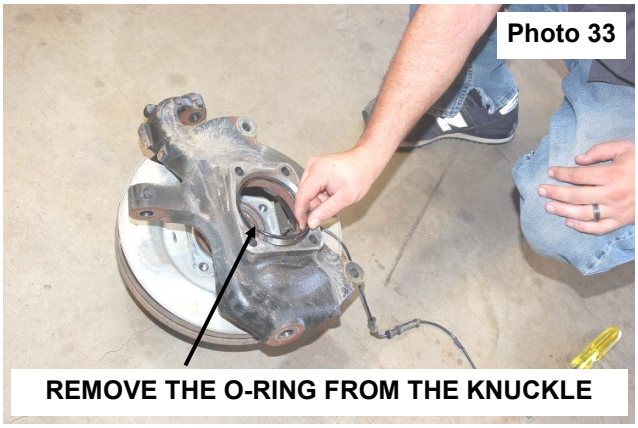
Photo 30
INSTALL FRONT CROSS-MEMBER

42. Install the lower control arms with stock hardware. Do not tighten at this time. **See Photo 31.**
43. Tighten the front and rear upper crossmember bolts, using a 27mm socket / wrench. Torque to 189 ft-lbs.
44. Torque the 2 factory bolts in the passengers side of the rear crossmember to 45 ft-lbs using a 18mm socket / wrench.
45. Remove hub bearing from knuckle as shown in **Photo 32** using a 21mm socket.





46. Remove the O-ring in the stock knuckle and retain. **See Photo 33.**
47. Remove the ABS wire and clamp from the stock knuckle.
48. Install the o-ring as shown in **Photo 34.**



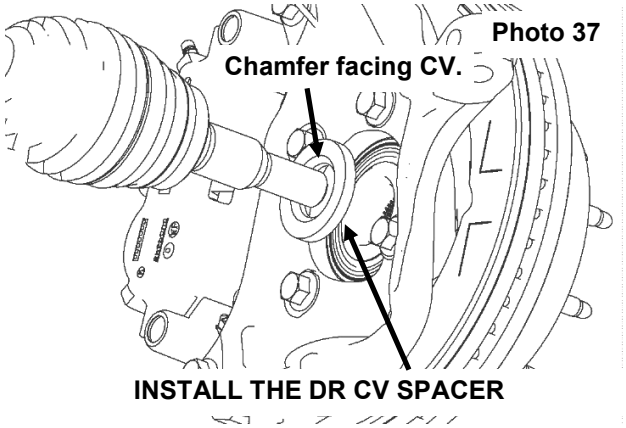


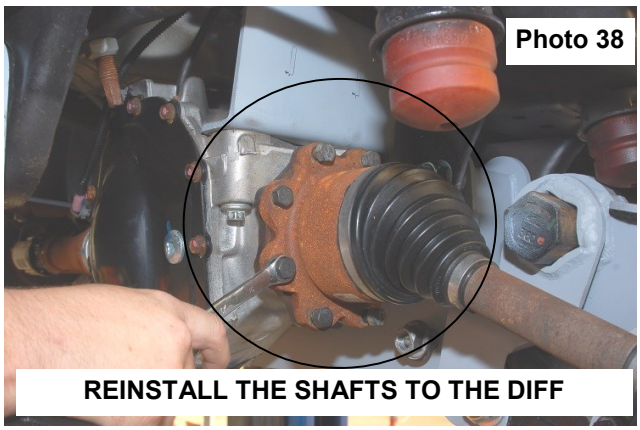
49. Install bearing assembly in lifted knuckle with the factory hardware. Torque to 126 ft-lbs. using a 21mm socket. **See Photo 35.**
50. Install knuckle on the lower and upper control arms. **See Photo 36.**



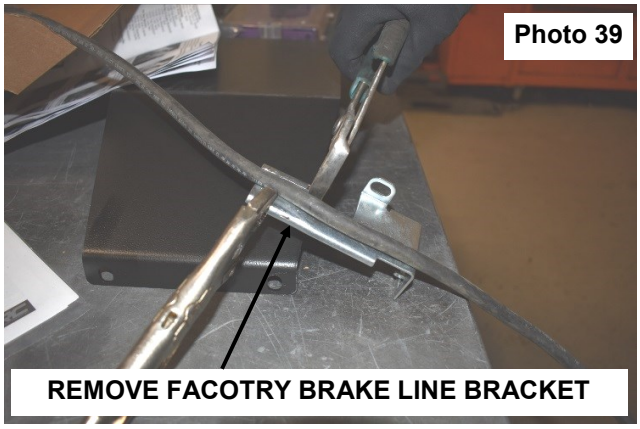


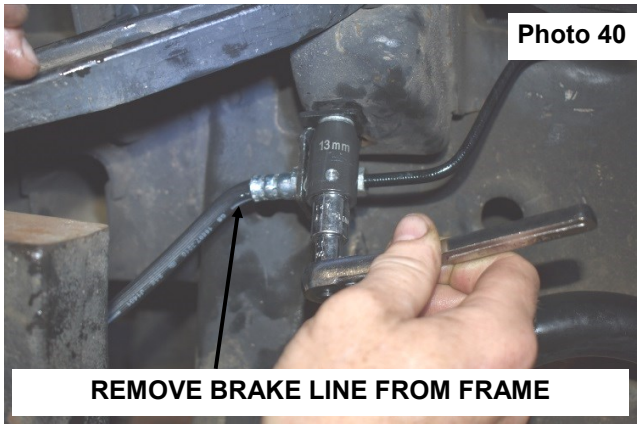
51. **2wd models skip to step 54.** Reinstall axle shaft in the knuckle bearing **(7" kits only, Dr side only– install the supplied CV axle spacer between the knuckle bearing and the CV shaft).** Torque driver and passenger side axle nut to 165 ft-lbs. **See Photo 37**.
52. Install the axle onto the differential, using the stock hardware. Torque the axle shaft bolts to 45 ft-lbs. with a 15mm socket. **See Photo 38.**



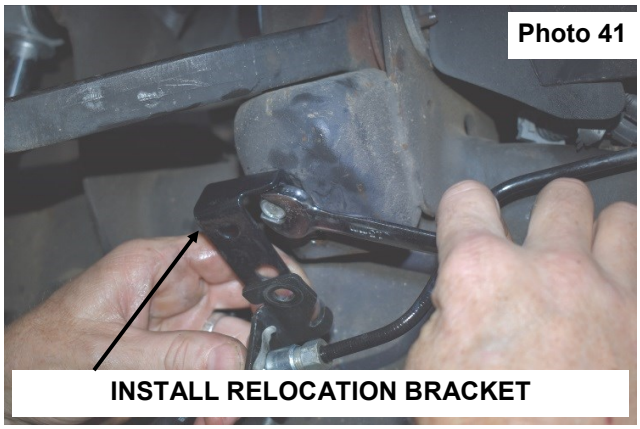


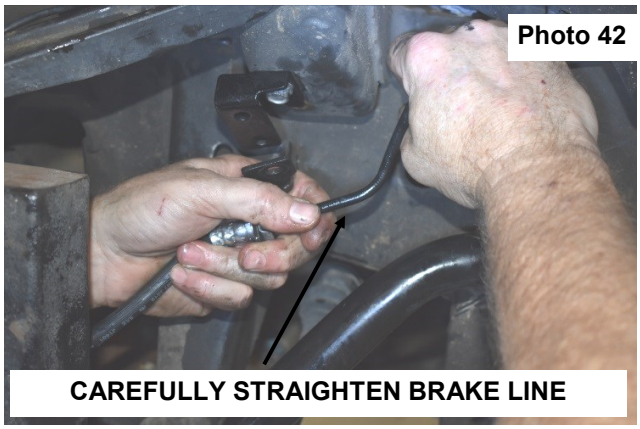
53. Install the caliper on the knuckle using factory hardware. Torque to 130 ft-lbs. using a 21mm socket. Using the supplied zip ties from 1253Bag5, secure to the brake lines to the tab on the knuckle.
54. Using pliers, carefully remove the factory brake line bracket from the brake line. **See Photo 39.**
55. Using a 13mm socket, remove the brake line bracket from the frame. Retain hardware. **See Photo 40.**



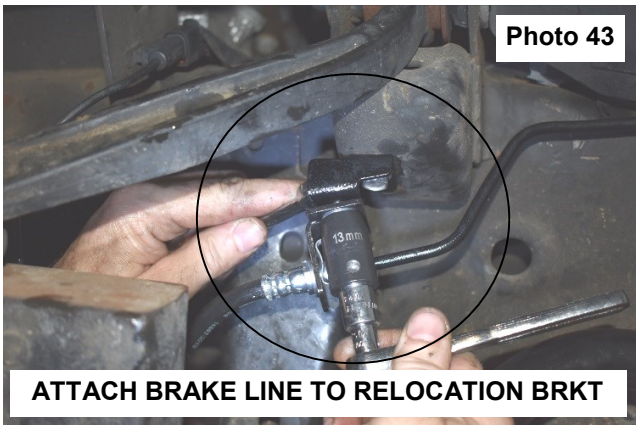


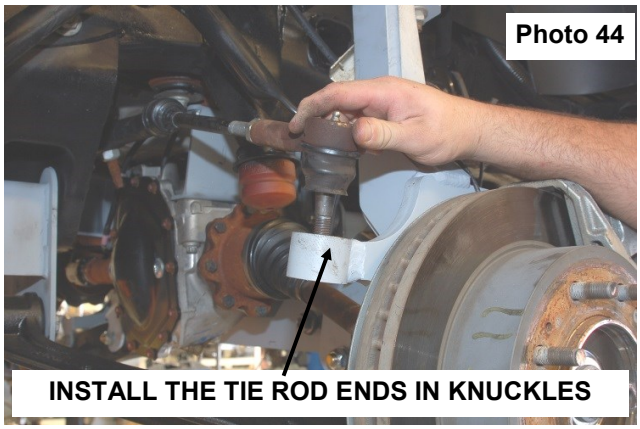
56. Install the supplied brake line relocation bracket (dr & pass side specific) using the factory hardware. Torque to 18 ft -lbs. using a 13mm. **See Photo 41.**
57. Carefully, straighten the bends in the brake line slightly until the factory bracket hole aligns with the relocation bracket mounting hole. **See Photo 42.**



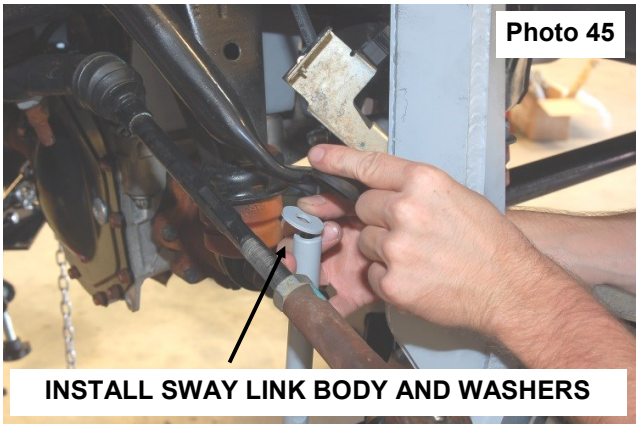


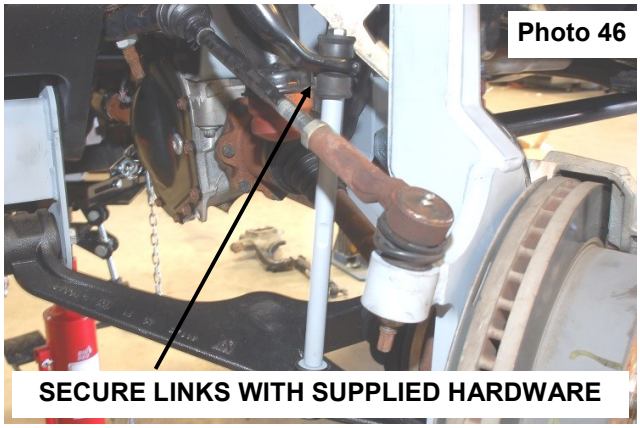
58. Attach the factory bracket to the relocation bracket using the supplied 5/16” x 3/4” bolt, washer, and nut (10430BAG1). Torque to 15ft/lbs using a 1/2” socket and wrench. **See Photo 43.**
59. Install tie-rod on the knuckle with the factory hardware. Torque to 45ft-lbs. using a 21mm socket / wrench. **See Photo 44.**



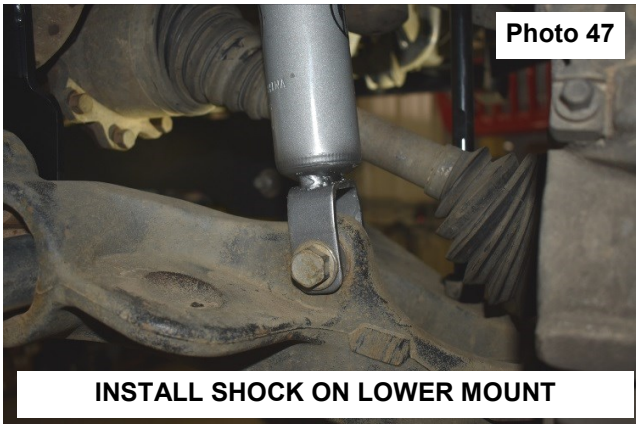


60. **Photo 45** shows the location of the supplied sway bar washers. The washers from 1253Bag7 will install on the upper and lower bushings of both the sway bar and the lower control arm.
61. Install the stock sway bar bushings and secure with the supplied 7/16” x 3” bolts in 1253Bag3. Torque assembly to 40 ft/lbs. using a 5/8” wrench. **See Photo 46.**



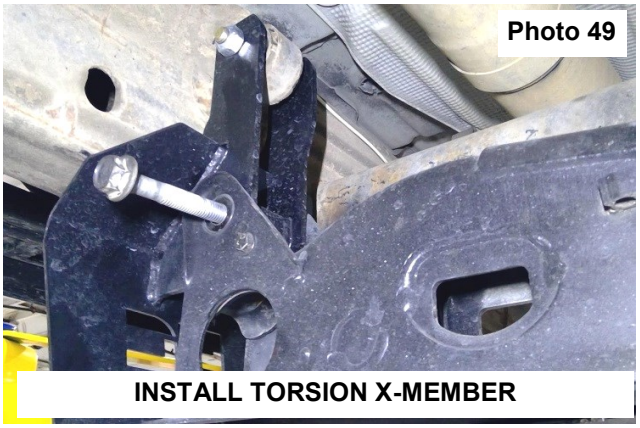


62. Install the supplied RC shock into the upper mount using the supplied hardware, Torque to 55ft-lbs. using a 21mm.
63. Install the shock in the lower mount using the factory hardware. **See Photo 47.** Torque to 82ft-lbs. using a 21 socket and a 22 wrench.
64. Using a 21mm, remove the bolts from the torsion bar crossmember, retain hardware.
65. Install Dr & Pass torsion bar crossmember drop brackets using the supplied 9/16” x 4” bolts, flat washers, & nylock nuts (10430BAG1). Do not tighten at this time. **See Photo 48.**





66. **I**nstall the torsion bar crossmember into the drop brackets using the factory bolts removed in step 61. **See Photo 49.** Do not tighten at this time.
67. Install the (3 bolts per side) supplied 1/4” x 1” bolts, flat washers, and nylock nuts (10430BAG1) as shown in **Photos 50, 51 & 52.** Torque the 1/4” hardware to 4ft-lbs using a 7/16” socket and wrench. Torque the factory bolt to 120ft-lbs using a 21mm socket. Torque the 9/16” hardware to 130ft-lbs using a 13” socket and wrench.

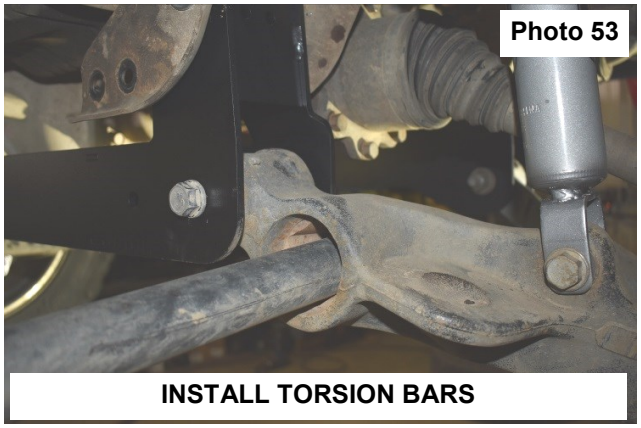


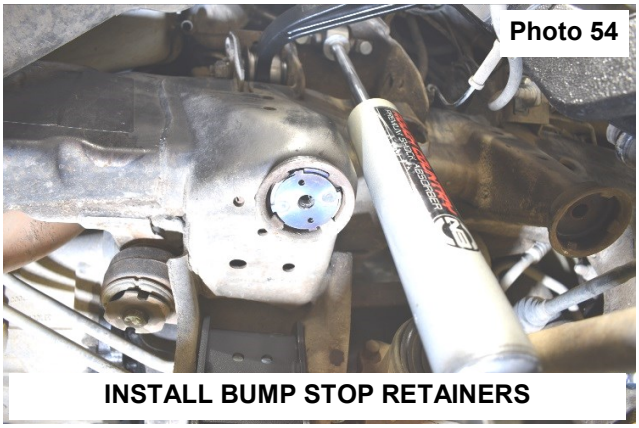






68. Install the torsion bars into the lower control arms and slide toward the front of the truck. **See Photo 53.**
69. Using the torsion bar tool, reinstall the torsion bar keys as they were removed and adjust the bolt as it was stock.
70. Remove the 4 front bump stops by pulling them out of the factory mounts, replace with new if needed.
71. Install the 4 supplied bump stop retainers (10430BAG1) into the factory bump stop mounts. **See Photo 54.**





72. Insert the supplied 1/2” x 1” bolt and lock washer (10430BAG1) into the bump stop extension bracket, using a 3/4” socket and extension. **See Photo 55.**
73. Install the bracket onto the rear factory bump stop mount and thread the bolt into the retainer, that was installed in step 71. **Do not tighten at this time. See Photo 56.**





74. **Rear bump stop extensions only,** install the supplied 1 1/8” dia washer (10430BAG1) between the frame and the extension. **See Photo 57.**
75. Install the supplied flag nut into the frame and attach the bracket using the supplied 3/8” x 1.25” bolt, flat washer, and lock washer. Torque 3/8” hardware to 35ft-lbs using 9/16” socket. Torque 1/2” hardware to 90ft-lbs using a 3/4” socket. **See Photo 58.**



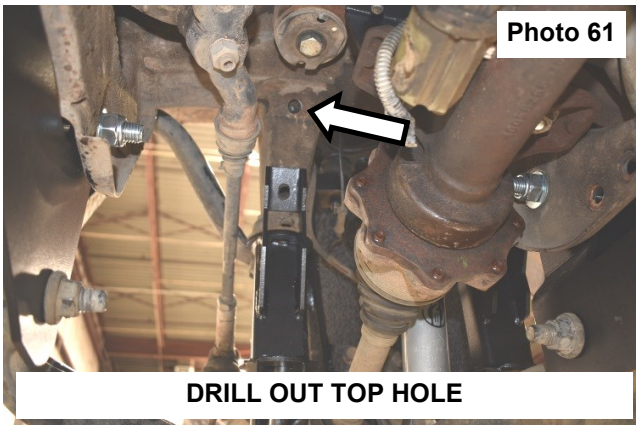


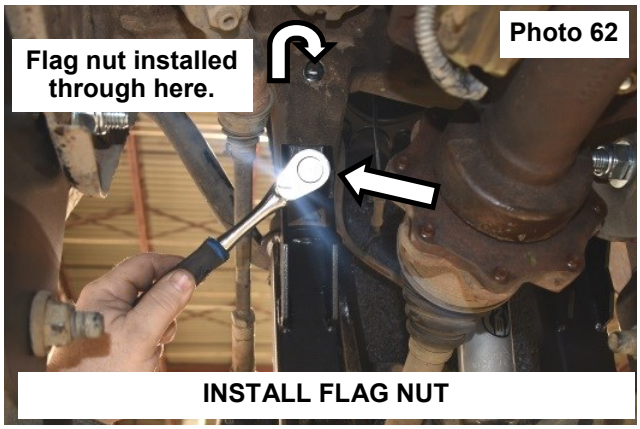
76. Install bump stops in the rear bump stop extensions. **See Photo 59.**
77. Install the bracket onto the front factory bump stop mount and thread the bolt into the retainer, that was installed in step 71. **See Photo 60**.



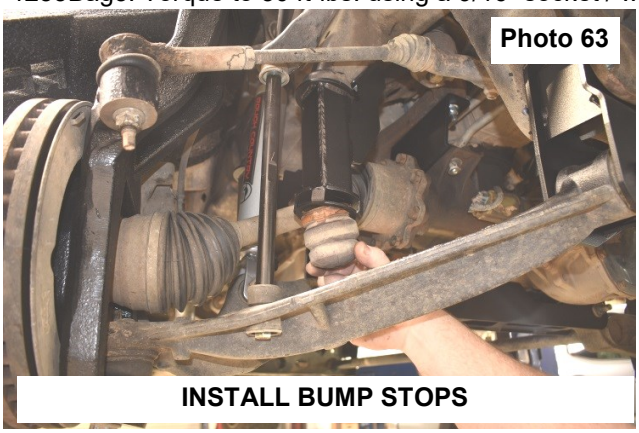


78. Drill out the top hole in the frame above the bump stop extension bracket using a 3/4” step drill bit. **See Photo 61**.
79. Install the supplied flag nut through the drilled hole and attach the bracket using the supplied 3/8” x 1.25” bolt, flat washer, and lock washer. Torque 3/8” hardware to 35ft-lbs using 9/16” socket. Torque 1/2” hardware to 90ft-lbs using a 3/4” socket. **See Photo 62.**





80. Install bump stops in the rear bump stop extensions. **See Photo 63**.
81. Install the skid plate as shown in **Photo 64** with the supplied 3/8” x 1 1/4”, flat washers and lock nuts from 1253Bag3. Torque to 30 ft-lbs. using a 9/16” socket / wrench. **Skid plate is optional for 2WD models.**



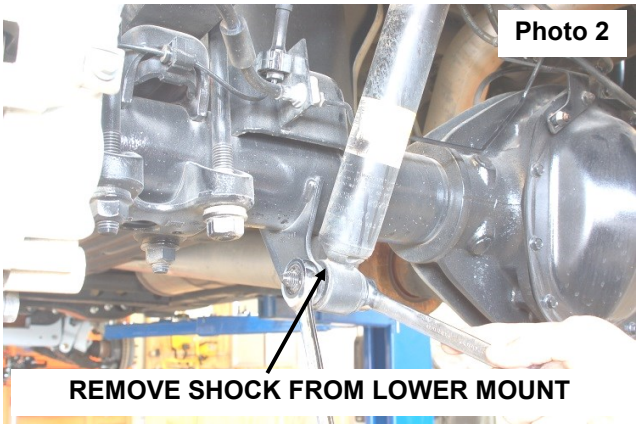


82. Install the tires / wheels.
83. Jack up the vehicle.
84. Remove the jack stands and lower the vehicle to the ground.
85. Torque the lower control arms to 196ft-lbs. using a 21mm socket & wrench and reattach the ABS harness.

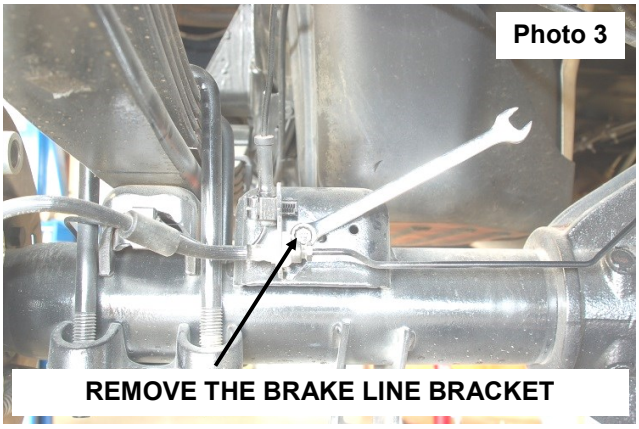
7.5” REAR INSTALLATION INSTRUCTIONS

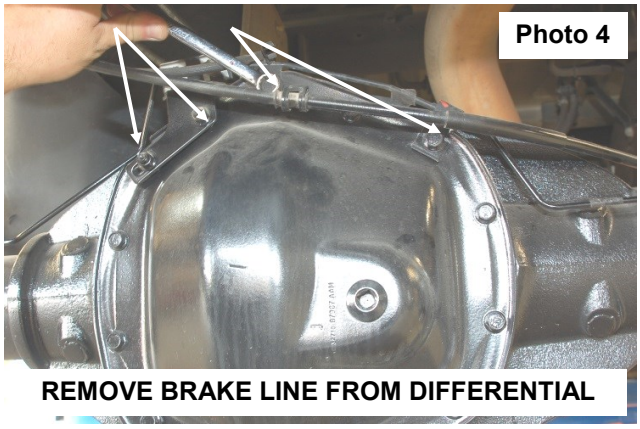
1. Chock the front tires.
2. Position a floor jack under the rear differential and jack up the vehicle.
3. Place jack stands under the frame rails just forward of the front leaf spring hangers and lower the frame on the jack stands.
4. Reposition the floor jack under the center of the differential and apply slight pressure for support, but do not raise the frame off the jack stands.
5. Remove the rear shock with a 21mm wrench on the upper and lower mount **See Photo 1 & 2.**



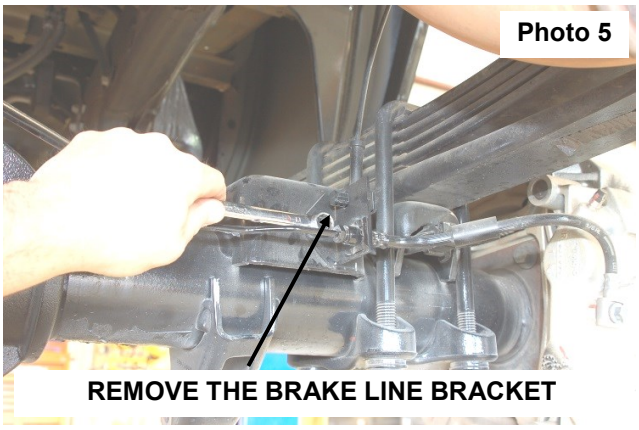


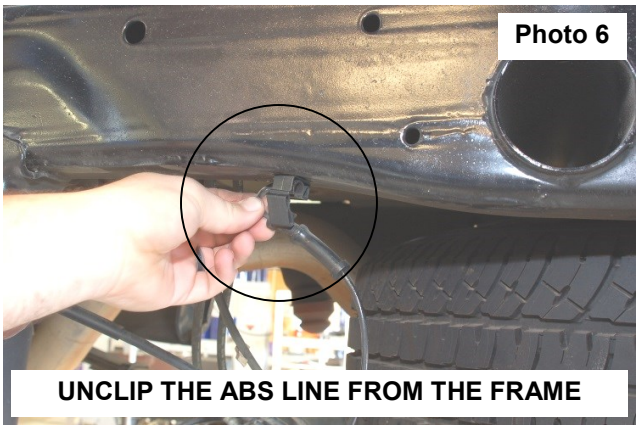
6. Remove the rear brake line and ABS mounts from the axle as shown using a 13mm socket/ wrench.
7. from the mount using a 13mm socket / wrench. brackets and e brake brackets off the rear end use 13mm wrench.
8. Remove the e-brake brackets from the drivers side, passengers side and center differential using a 13mm wrench. **See Photo 3, 4 & 5.** Retain the stock hardware for reuse.



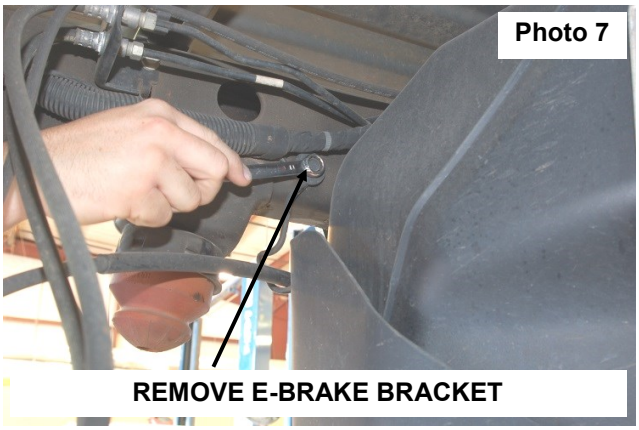


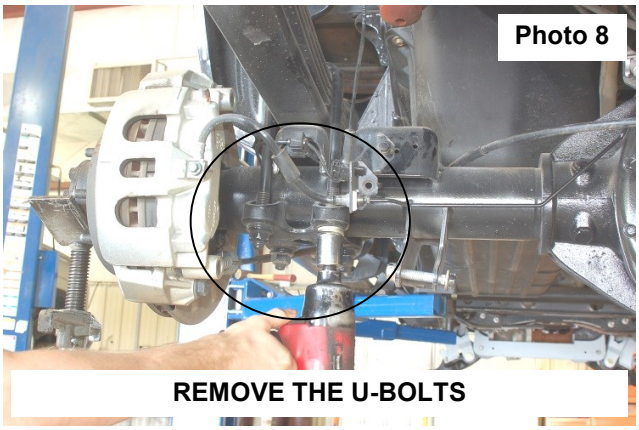
9. Release the line from the frame mount. **See Photo 6.**



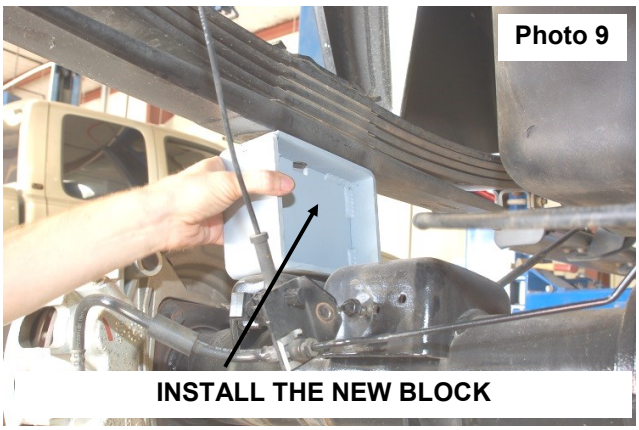


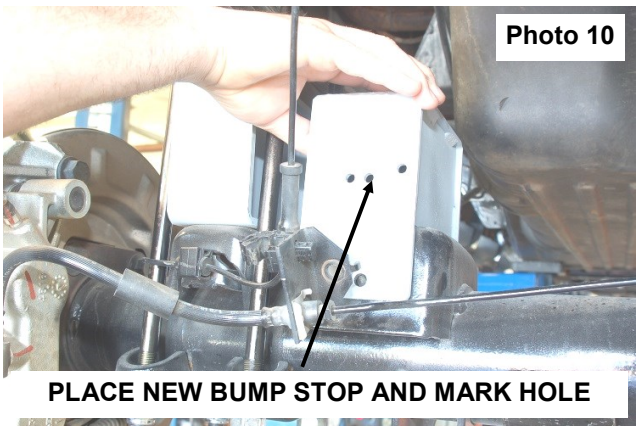
10. Remove the e-brake from the frame. **See Photo 7.** Retain the stock hardware for reuse.
11. Remove U-bolts use 27mm socket and lower the axle with the floor jack enough to install the lift block. **See Photo 8.**



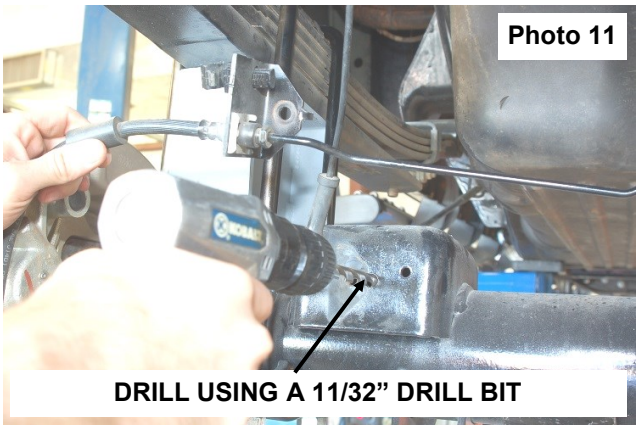


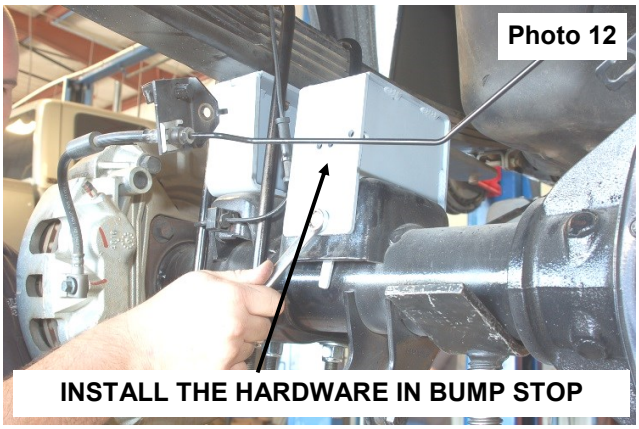
12. Position the lift block on the leaf spring and axle. **See Photo 9**
13. Install the supplied u-bolts. Torque to 180 ft-lbs. using a 15/16” socket.
14. Install new bump stop on the axle. Center the bump stop on the mount and mark hole to be drilled. **See Photo 10.**



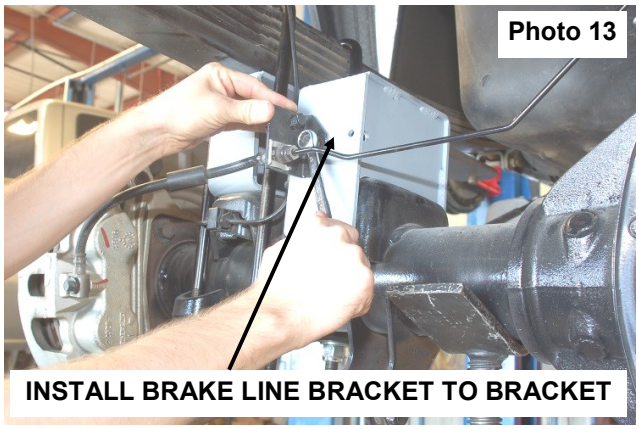


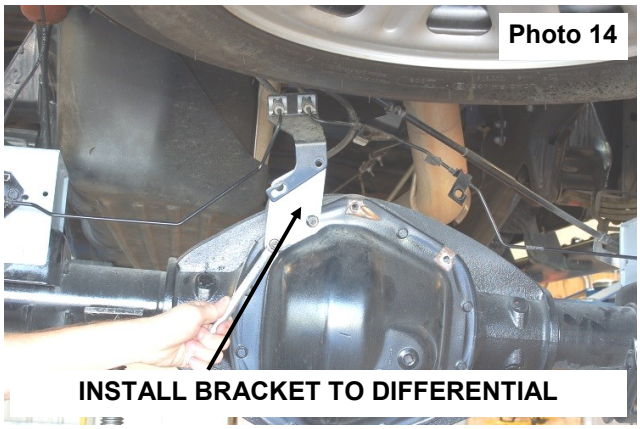
15. Drill using a 11/32” bit. **See Photo 11.**
16. Install the supplied 3/8” x 1 1/4”bolts, flat washers from 1253Bag4 and flag lock nuts from 1253Bag7. **See Photo 12.** Torque to 30 ft-lbs. using a 9/16” socket.



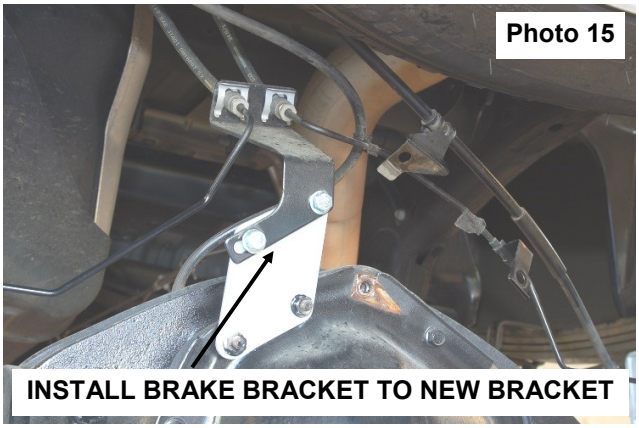


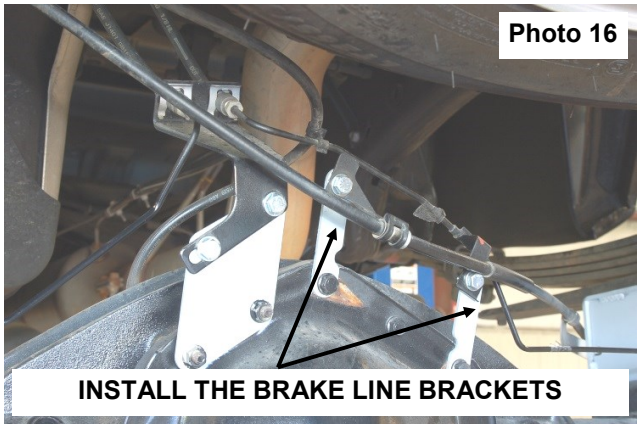
17. Reinstall the brake line on the bump stop bracket with the stock hardware. **See Photo 13**. Torque to 15 ft-lbs using a 13mm socket / wrench.
18. Install the new drop bracket on the differential as shown in **Photo 14** Torque the stock nuts 18-ft-lbs..



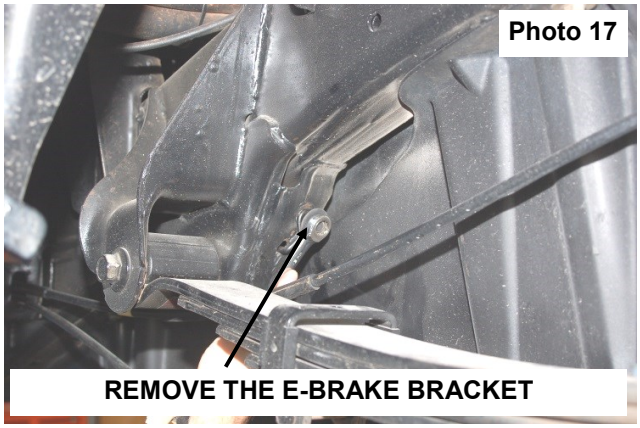


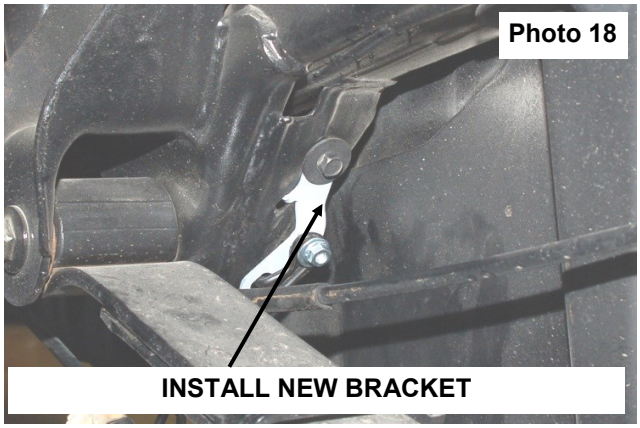
19. Reinstall the brake line bracket on the new bracket with the supplied 5/16” x 3/4” bolt, flat washers and lock nuts from 1253Bag4. **See Photo 15.** Torque to 15 ft-lbs. using a 1/2” socket / wrench.
20. Install the supplied brackets on the differential with the stock hardware. **See Photo 16.** Torque to 18 ft-lbs. using a 13mm socket / wrench. Reinstall the stock brake line brackets on the new brackets using the supplied 5/16” x 3/4” bolts, flat washers and lock nuts from 1253Bag4. Torque to 15 ft-lbs. using a 1/2” socket / wrench.





21. Remove the stock e-brake bracket as shown in **Photo 17** using a 13mm socket.
22. Install the e-brake bracket as shown in **Photo 18** with the stock hardware and reinstall the stock e-brake bracket on the new bracket with the supplied 5/16” lock nut from 1253Bag4. Torque to 15 ft-lbs. using a 13mm socket.

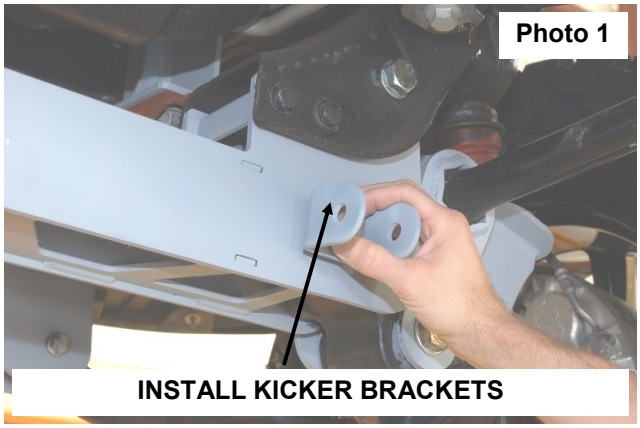




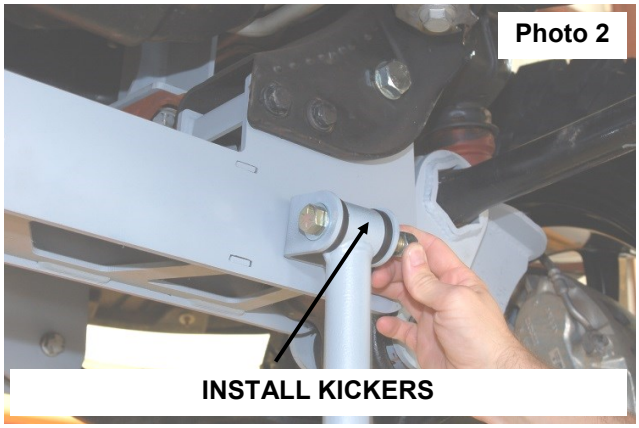
23. Reinstall the ABS wire back onto the frame mount.
24. Install the new shock absorbers (660776) in the factory mounts using the factory hardware. Torque to 80 ft-lbs. using a 21mm socket / wrench on the upper and lower mount.

OPTIONAL KICKER BAR INSTALLATION INSTRUCTIONS

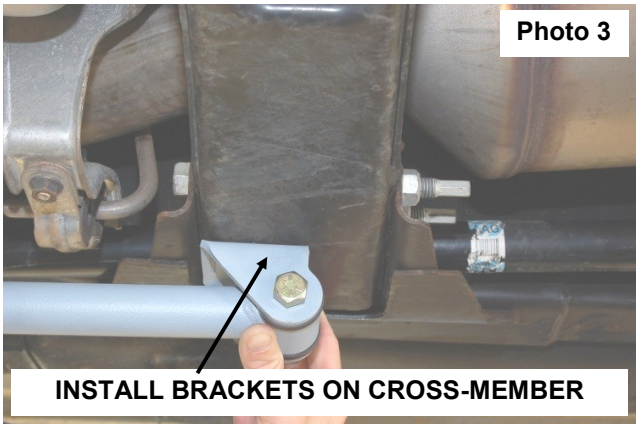
1. Install kicker bracket bushing and sleeves in the kicker bars.
2. Install the supplied kicker bar brackets on the rear cross-member as shown in **Photo 1** with the supplied 1/2” x 1 1/4” bolts, flat washers and lock nuts. Torque to 65 ft-lbs. using a 3/4” socket & wrench.
3. Install the kicker bar in the mount on the cross-member with the supplied 1/2” x 3 1/2” bolts, flat washers and lock nuts. **See Photo 2.** Do not tighten at this time.
4. Swing up the kicker bars and mark the hole to be drilled.
5. Drill the hole in the cross-member using a 1/2” drill bit.
6. Secure the bracket to the cross-member 1/2” x 1” bolts, flat washers and lock nuts. Torque to 65 ft-lbs.
7. Swing up the kicker bar and secure to the cross-member using the supplied 1/2” x 3 1/2” bolts, flat washers and lock nuts. **See Photo 3.**
8. Torque to 65 ft-lbs.



INSTALL KICKER BRACKETS



INSTALL KICKERS

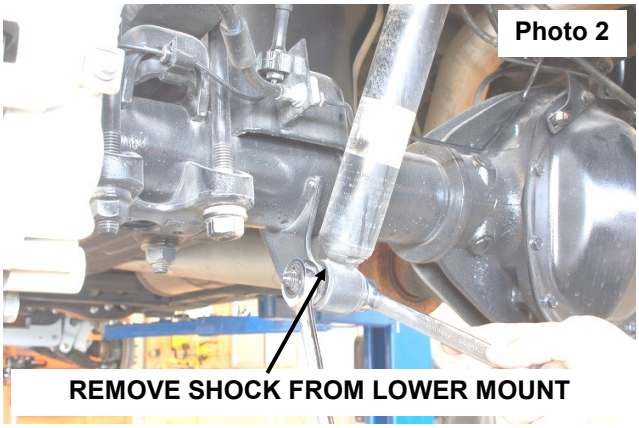


INSTALL BRACKETS ON CROSS-MEMBER

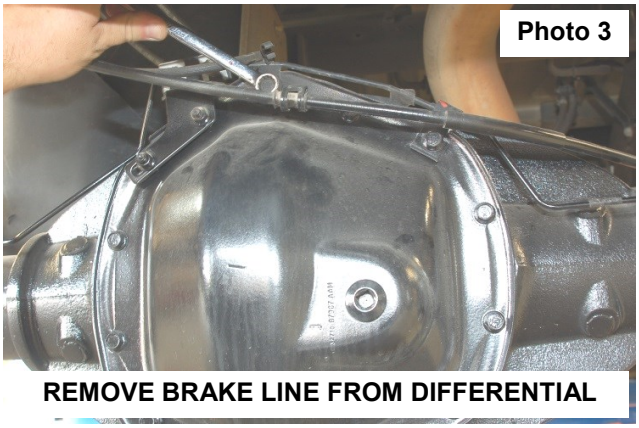
5” REAR INSTALLATION INSTRUCTIONS

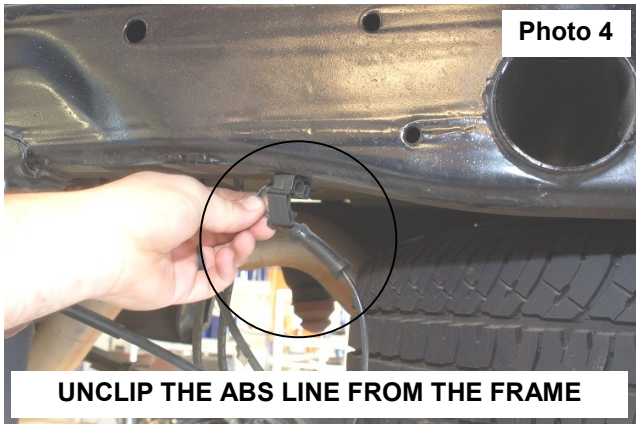
1. Chock the front tires.
2. Position a floor jack under the rear differential and jack up the vehicle.
3. Place jack stands under the frame rails just forward of the front leaf spring hangers and lower the frame on the jack stands.
4. Reposition the floor jack under the center of the differential and apply slight pressure for support, but do not raise the frame off the jack stands.
5. Remove the rear shock with a 21mm wrench on the upper and lower mount **See Photo 1 & 2.**



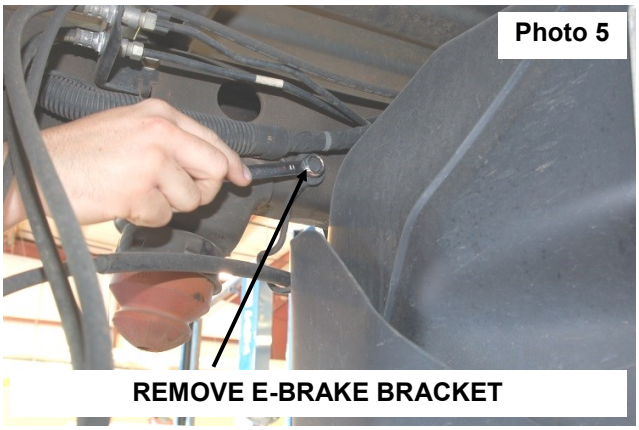


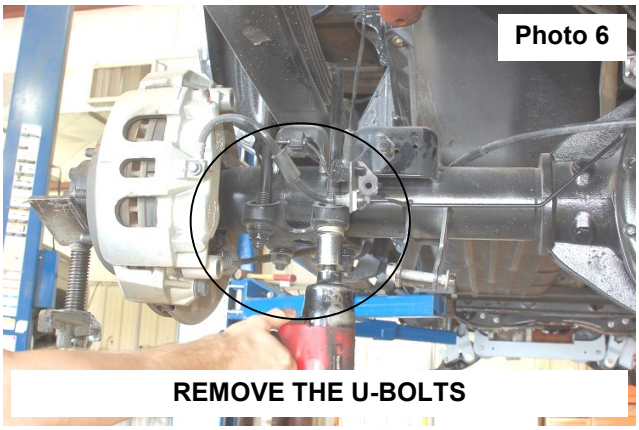
6. Remove the brake line brackets and e-brake bracket off the center of the rear end using a 13mm wrench. **See Photo 3.**
7. Release the line from the frame mount. **See Photo 4.**



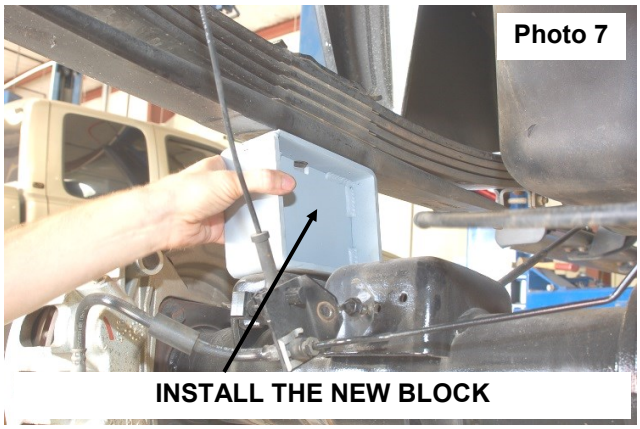


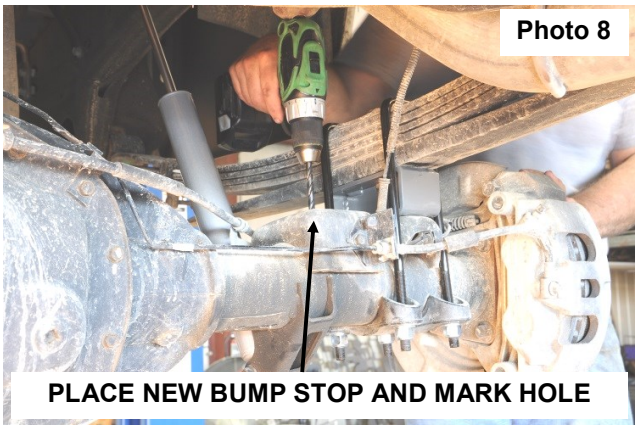
8. Remove the e-brake from the frame. **See Photo 5.** Retain the stock hardware for reuse.
9. Remove U-bolts use 27mm socket and lower the axle with the floor jack enough to install the lift block. **See Photo 6.**



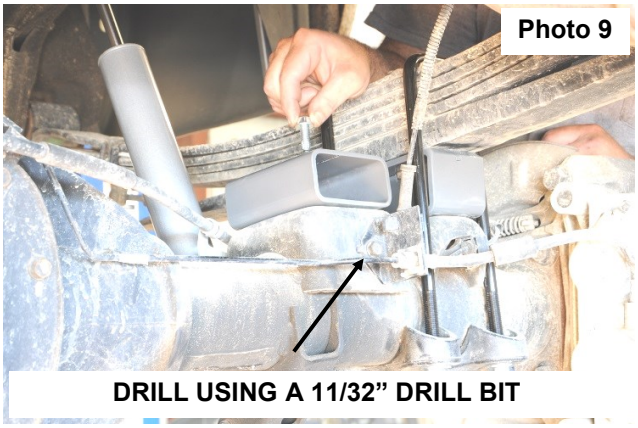


10. Position the lift block on the leaf spring and axle. **See Photo 7.**
11. Install the supplied u-bolts and tighten using a 15/16” socket.
12. Lay the new bump stop on the axle, and center the bump stop and mark hole to be drilled. Use a 13/32 drill to drill the mounting hole on the bump stop pad. **See Photo 8.**

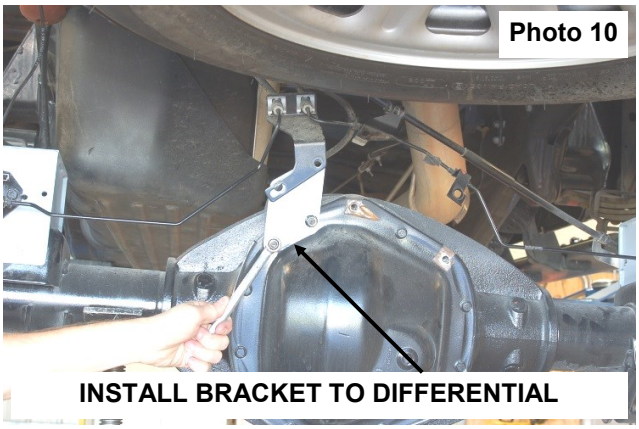


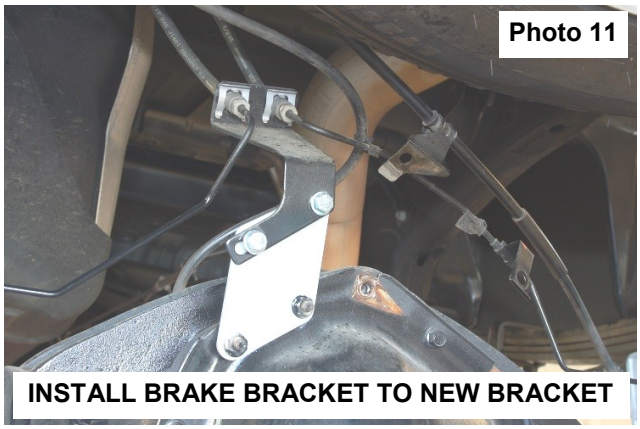


13. Install the supplied bump stop and secure with the supplied 3/8” self tapping bolt from 1260bag2. Tighten with a 9/16” socket. **See Photo 9.**

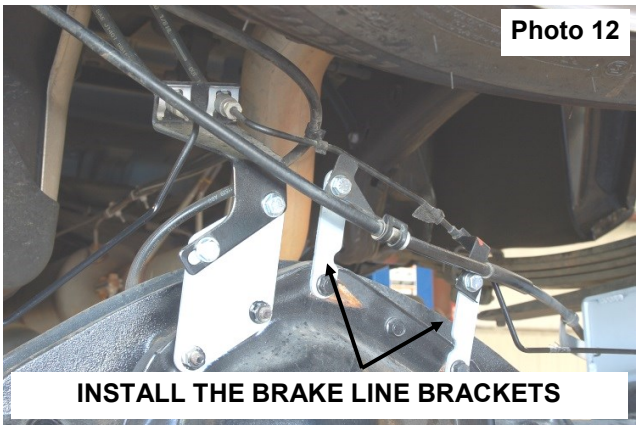


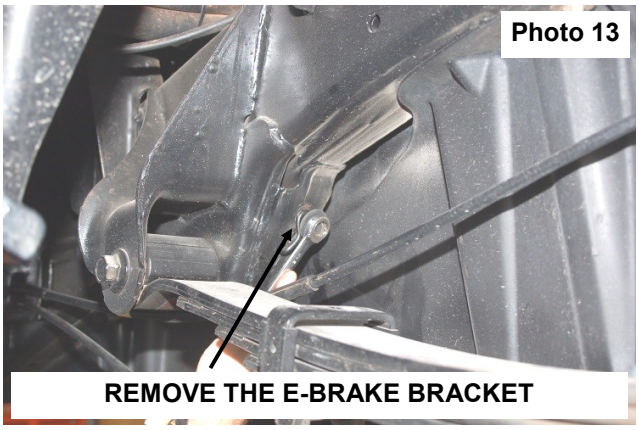
14. Install the new drop bracket on the differential as shown in **Photo 10** with stock nuts.
15. Bend the hard brake line so you can install the brake line bracket on the new bracket with the supplied 5/16” x 3/4” bolt, flat washers and lock nuts from 1253Bag4. **See Photo 11.** Tighten using a 1/2” socket / wrench.



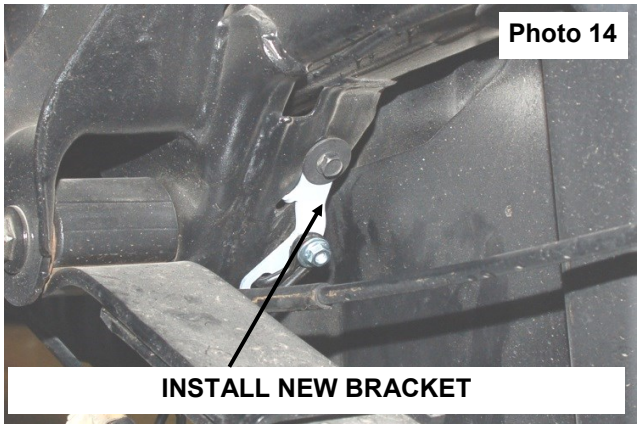


16. Install the supplied brackets on the differential with the stock hardware. **See Photo 12.** Tighten using a 13mm socket / wrench. Reinstall the stock brake line brackets on the new brackets using the supplied 5/16” x 3/4” bolts, flat washers and lock nuts from 1253Bag4. Tighten using a 1/2” socket / wrench.
17. Remove the stock e-brake bracket as shown in **Photo 13** using a 13mm socket.



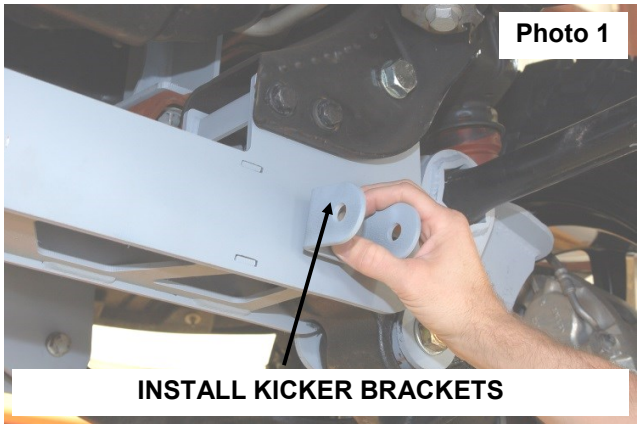


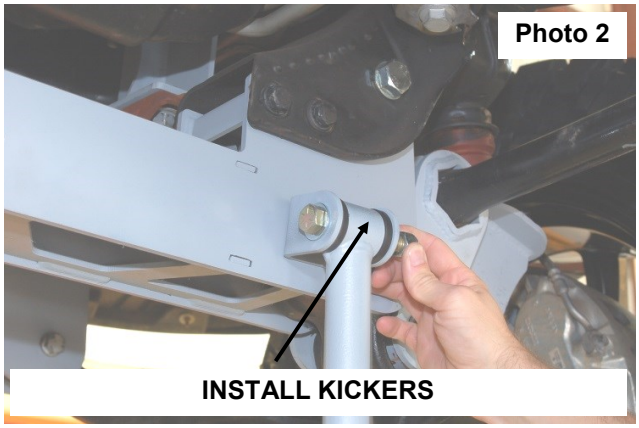
18. Install the e-brake bracket as shown in **Photo 14** with the stock hardware and reinstall the stock e-brake bracket on the new bracket with the supplied 5/16” lock nut from 1253Bag4. Tighten using a 13mm socket.
19. Reinstall the ABS wire back onto the frame mount.
20. Install the new shock absorbers (660744) in the factory mounts using the factory hardware. Tighten using a 21mm socket/ wrench on the upper and lower mount.

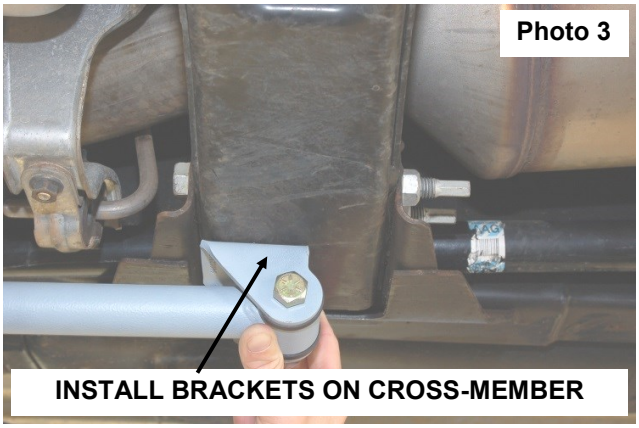


OPTIONAL KICKER BAR INSTALLATION INSTRUCTIONS

1. Install kicker bracket bushing and sleeves in the kicker bars.
2. Install the supplied kicker bar brackets on the rear cross-member as shown in **Photo 1** with the supplied 1/2” x 1 1/4” bolts, flat washers and lock nuts. Tighten using a 3/4” socket & wrench.
3. Install the kicker bar in the mount on the cross-member with the supplied 1/2” x 3 1/2” bolts, flat washers and lock nuts. **See Photo 2.** Do not tighten at this time.
4. Swing up the kicker bars and mark the hole to be drilled.
5. Drill the hole in the cross-member using a 1/2” drill bit.
6. Secure the bracket to the cross-member 1/2” x 1” bolts, flat washers and lock nuts.
7. Swing up the kicker bar and secure to the cross-member using the supplied 1/2” x 3 1/2” bolts, flat washers and lock nuts. **See Photo 3.**



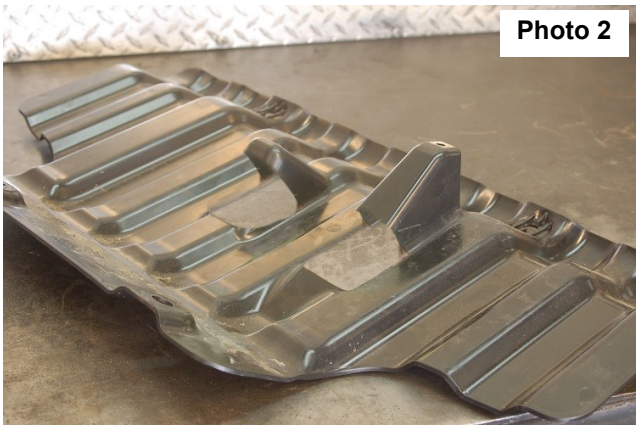




Sway Bar Relocation

1. Remove the four factory bolts holding the front skid plate using a 15mm socket. Retain factory hardware.
2. Remove the sway bar from frame with a 10mm socket, insert the 3/8" x 1.25" bolts into the back of the sway bar bracket. Install the bracket to the frame using the factory bolts and tighten with a 10mm socket. Use the supplied 3/8" washers, lock washers, and nuts to hold the sway bar to the bracket. **See Photo 1**. Torque to 30 ft-lbs. with a 9/16 socket.
3. Hold the skid plate up in position and mark the area that will need to be trimmed. Use a body saw or die grinder to cut the skid plate. **See Photo 2**.





4. After this area is cut bolt the skid plate back in factory location use the four factory bolts. Tighten with a 15mm socket.

POST INSTALLATION INSTRUCTIONS

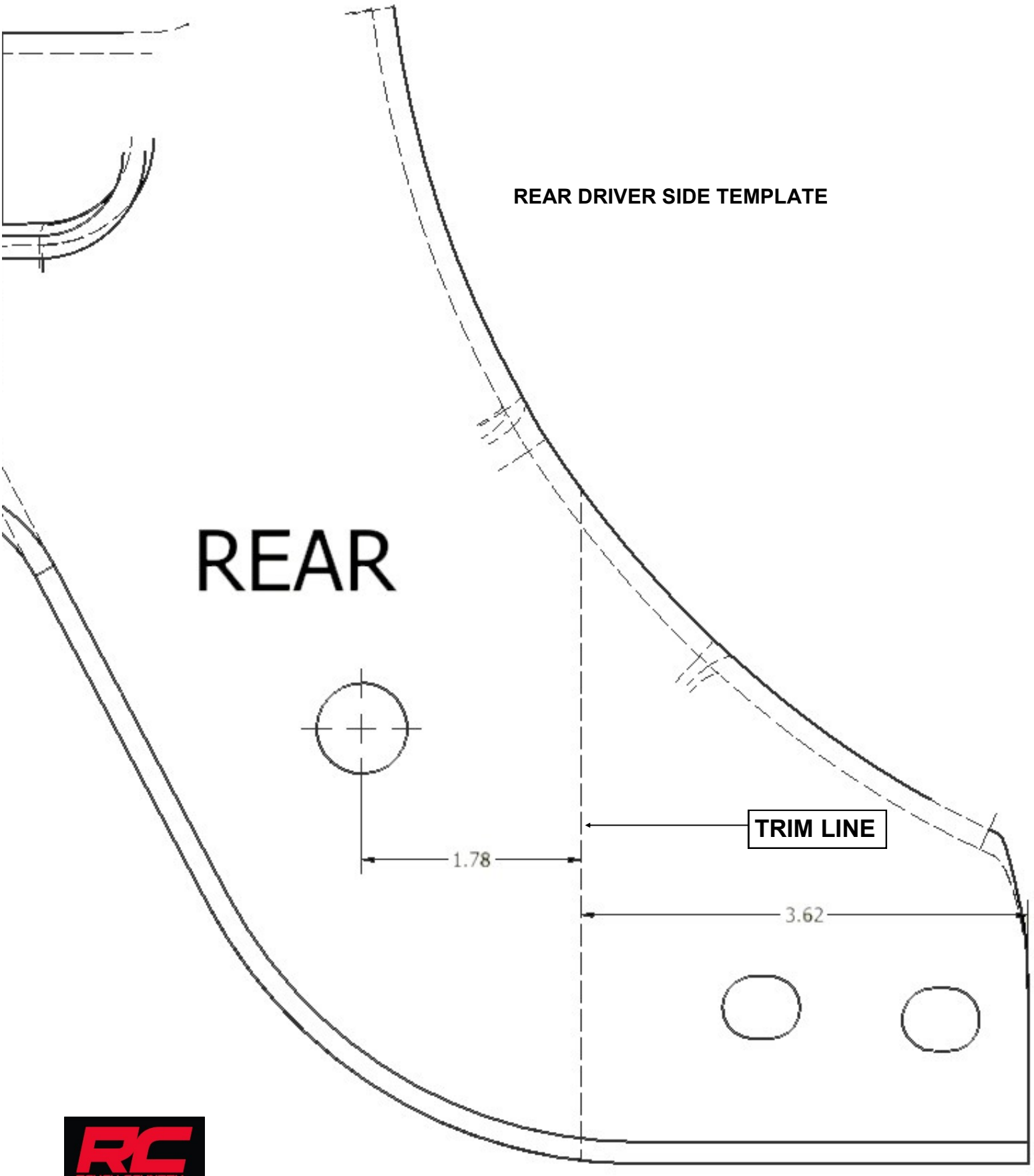
1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. On some vehicles the front lower skirting will need to be trimmed if using certain wheel /tire combinations and with heavy offset wheels. Trim only as needed.
3. Activate four wheel drive system and check front hubs for engagement.
4. Have a qualified alignment center align the vehicle immediately. Realign to factory specifications. Have headlights adjusted to proper settings.
6. Perform head light check and adjustment to proper settings.
7. Check and retighten wheels at 50 miles and again at 500 miles.
8. Recheck lifted height and adjust torsion bar as necessary.
9. All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check all hardware for tightness.
10. Install "Warning to Driver" decal on sun visor.
11. Bleed the brake system and test braking before driving on road.

Note: Installation of larger tires will require speedometer recalibration.

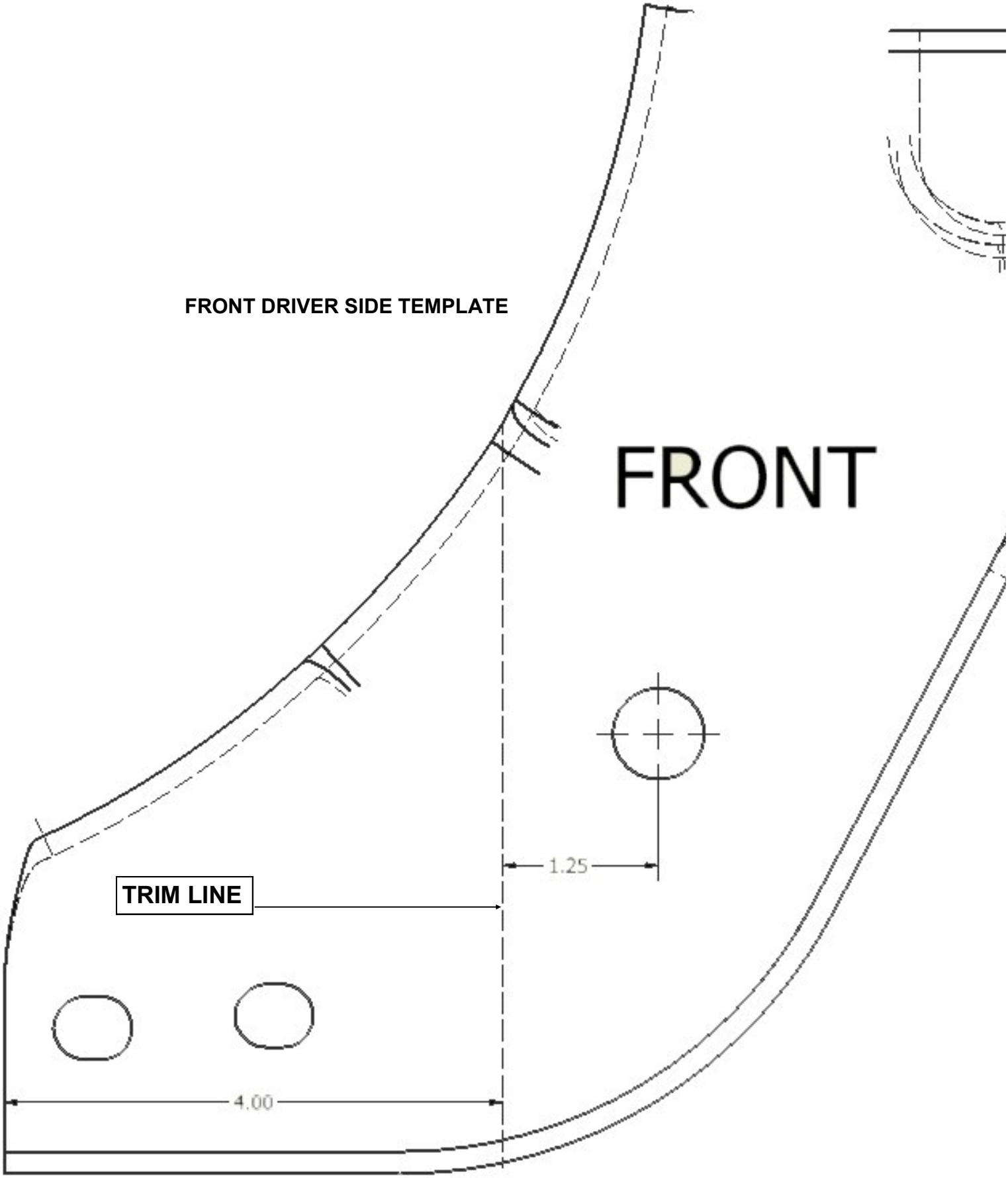
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REAR DRIVER SIDE TEMPLATE



FRONT DRIVER SIDE TEMPLATE




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