TRAIL FORTRESS

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Rough Country 74130 Installation Instructions

6-Inch Lift Kit with N3 Shocks for 1995-2004 Toyota Tacoma, Part 74130

Part number: 74130

trailfortress.com/rough-country-6-inch-lift-kit-74130

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

1741BAG5

TOYOTA 1995.5-04 TACOMA 2WD/4WD 6” Kit

Thank you for choosing Rough Country for your suspension needs.

Rough Country recommends a certified technician install this system. In addition to these instructions, professional knowledge of disassembly/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 parts list on this page and the product layout on the last page. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have needed tools.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is, the easier it will roll. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

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.

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.

This suspension system was developed using a maximum tire size of 305/70-R17 or 34” tall x 12” wide, on a 17x9 wheel with 5” backspacing/0mm offset.

NOTICE 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.

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

Tools Needed:

10mm Socket/Wrench
12mm Socket/Wrench
12mm Allen
13mm Socket/Wrench
14mm Socket/Wrench
15mm Wrench
16mm Wrench
17mm Socket/Wrench
18mm Wrench
19mm Socket/Wrench
21mm Socket/Wrench
22mm Socket/Wrenches
36mm Socket (Auto Hubs)
Hammer
Chisel (Manual Hubs)
Snap Ring Pliers (Manual Hubs)
Drain Pan
3/8” Allen
1/2” Socket/Wrench
9/16” Socket/Wrench
13/16” Socket
1-1/16” Socket/Wrench
1-1/8” Wrench
13/32” Drill
Drill Motor
Reciprocating Saw
File
Die Grinder w/ Cutoff Wheel
Torque Wrench
Jack
Jack Stands

Torque Specs:

Size	Grade 5	Grade 8
5/16”	15 ft/lbs	20 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs
3/4”	185 ft/lbs	280 ft/lbs

	Class 8.8	Class 10.9
6MM	5 ft/lbs	9 ft/lbs
8MM	18ft/lbs	23 ft/lbs
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
14MM	85ft/lbs	120ft/lbs
16MM	130ft/lbs	165ft/lbs

trailfortress.com/rough-country-6-inch-lift-kit-74130

Parts List

1741BOX1

Qty	Part #	Description
1	94003350	Front Crossmember
1	94003351	Rear Crossmember

1741BOX2

Qty	Part #	Description
1	1741BAG	Instructions
1	1741BAG1	Crossmember Bag
1	1741BAG2	Front Hardware Bag
1	1741BAG3	Rack & Pinion/ Knuckle Hardware Bag
1	94003360	Power Steering Pressure Line
1	94003361	Power Steering Return Line
1	94003362	Steering Extension
2	94003357-2	Knuckle Extensions w/ Ball Joints
2	94003363A	Front Brake Line Extension
1	94003352	Skid Plate
1	94003353	Dr Sway Bar Drop Bracket
1	94003354	Pass Sway Bar Drop Bracket
1	94003358	Dr Knuckle Ext Brace
1	94003359	Pass Knuckle Ext Brace

1741BOX3

Qty	Part #	Description
1	10MMSTUDBAG-1	Strut Spacer Hardware
2	90909260B	3” Rear Block
1	9/16BAG	Ubolt Hardware
2	660769	Rear Shocks
2	94003355	Strut Spacers
1	1746BAG6	Carrier Bearing Drop
1	1741BAG4	Rear Hardware
1	89721	Rear brake Line
4	90900200	9/16 x 2-1/2 x 9 1/2 Ubolts

Kit Bags

1741Bag
- 1-instruction sheet
- 1-warning to driver

1741Bag1
- 4-3/4” x 4.5” bolts
- 8-3/4” Flat Washers
- 4-3/4” Nylock Nuts
- 1-14mm x 25mm Bolt
- 1-14mm Flat Washer

1741Bag2
- 2-9/16” x 3.5” Bolts
- 2-Flag Nuts
- 4-3/8” x 1” Bolts
- 8-3/8” Flat Washer
- 8-3/8” Flange Lock Nut
- 4-3/8” x 1.25” Bolts
- 4-10mm Flat Washer
- 6-10mm Nuts
- 6-10mm Lock Washers

1741Bag3
- 3-14mm x 75mm Bolts
- 6-9/16” Flat Washers
- 3-14mm Nylock Nuts
- 2-8mm x 25mm Bolts
- 2-5/16” Flat Washers
- 4-5/16” x 1-1/8” x 1-5/8” Round Ubolts
- 8-5/16” Flange Lock Nuts
- 2-Brake Line Clips
- 6-7/16” x 1.75” Bolts

1741Bag4
- 2-5/16” x 1” bolt
- 1-5/16” washer
- 2-5/16” Flange Lock Nuts
- 1-Brake Line Clip

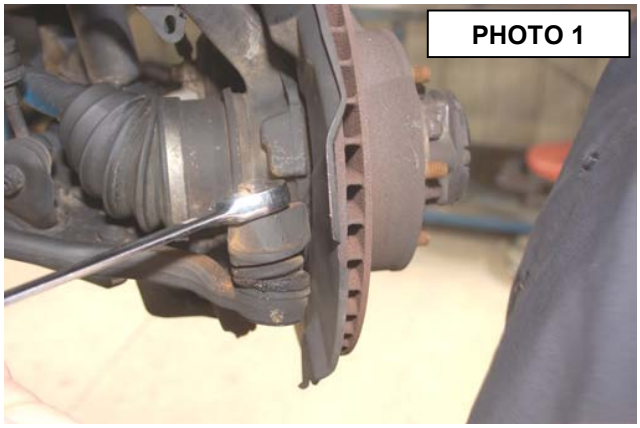
1746Bag6
- 6-carrier bearing shims
- 2-hardened washers
- 2-10mm x 50mm bolts

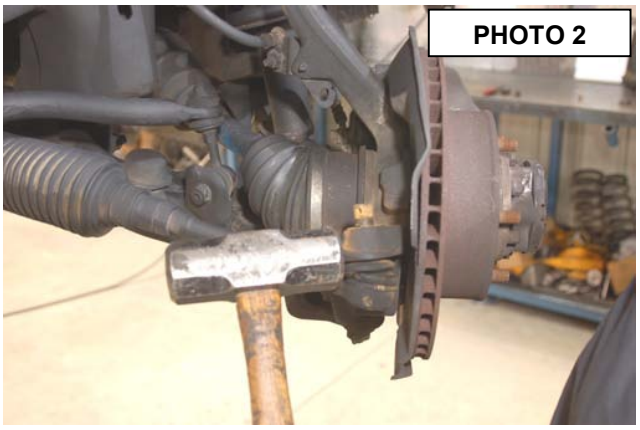
9/16Bag
- 8-9/16” nylocks
- 8-9/16” washers

10MMSTUDBAG-1
- 6-10mm Studs
- 6-10mm Lock Washers
- 6-10mm Flat Washers
- 7-10mm Nuts
- 1-.500” Jam Nut

FRONT INSTALLATION

1. Jack up the front of the vehicle and support the vehicle with jack stands, so that the front wheels are off the ground
2. Remove the front tires/wheels. Using a 21mm deep well socket.
3. Remove the cotter pin from the tie rod end.
4. Use a 22mm wrench/socket to loosen, **do not completely remove**, the tie rod end nut. **See Photo 1.**
5. Using a hammer, hit the steering knuckle at the tie rod end to release the taper. Remove the nut and retain for re-use. **See Photo 2.**





6. Using a 17mm socket, remove the brake caliper bolts and retain for reuse. **See Photo 3.**
7. Using a 12mm socket, remove the brake line bracket from the knuckle. **See Photo 4.**
8. Hang the caliper in a safe place taking care to not stretch the brake line.



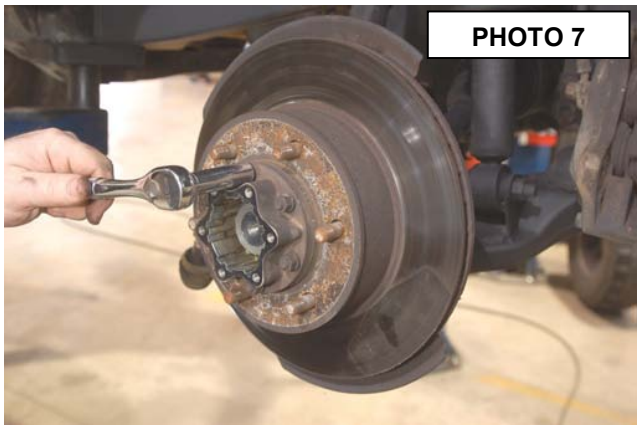


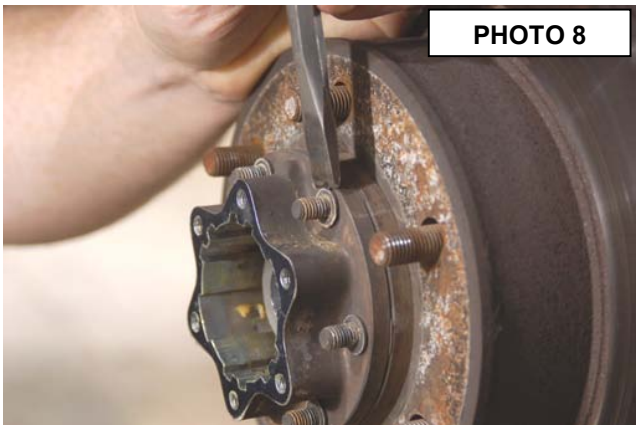
9. **(2WD Model skip to step 16)** If you have automatic hubs, remove the dust cap and cotter pin from the end of the axle. Use a 36mm socket to remove the axle nut, retain for reuse.
10. If you have manual hubs, use a 10mm socket to remove the 6 bolts from the outer selector plate. **See Photo 5.**
11. Carefully remove the selector plate and retain for reuse. **See Photo 6.**



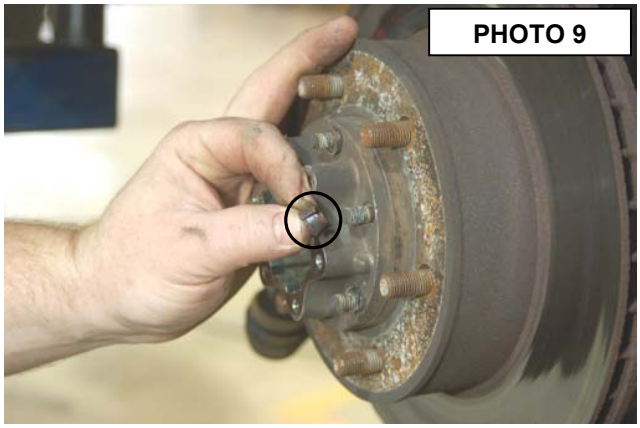


12. Remove the 6 bolts from the hub housing using a 12mm socket. Retain for reuse. **See Photo 7.**



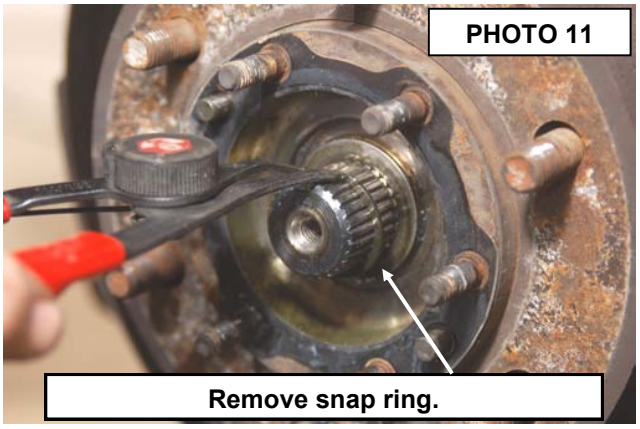


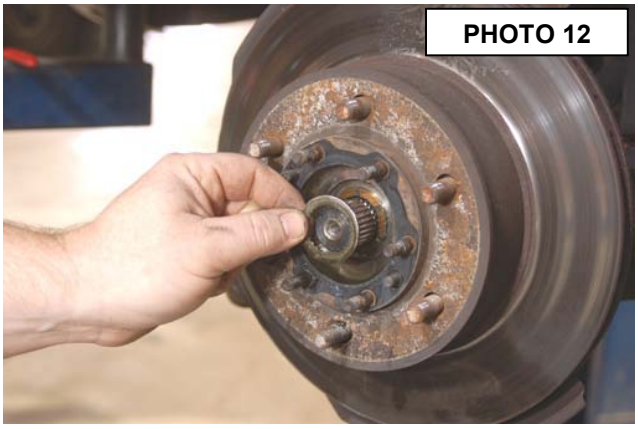
13. Using a hammer and chisel, carefully remove the 6 tapered sleeves. **See Photos 8 & 9.**
14. Carefully remove the hub housing from the rotor. **See Photo 10.**



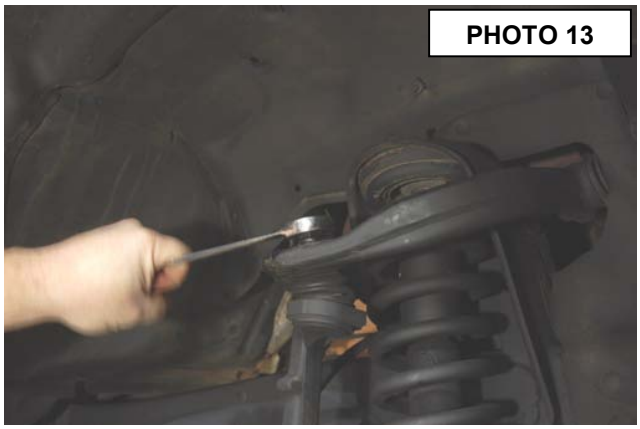


15. Using snap ring pliers, remove the snap ring from the hub. **See Photos 11 & 12.**
16. Remove the brake rotor and dust cover from the steering knuckle.



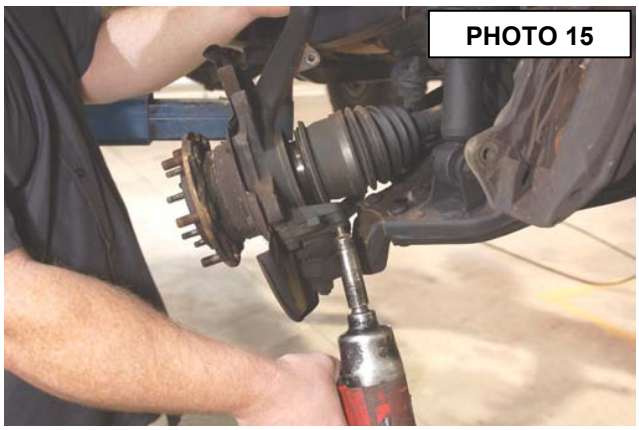


17. Remove the cotter pin and use a 19mm wrench to loosen, **do not completely remove,** the upper ball joint nut. **See Photo 13.**
18. Using a hammer, strike the upper control arm upward to release the ball joint taper. Remove the nut and retain for reuse. **See Photo 14.**



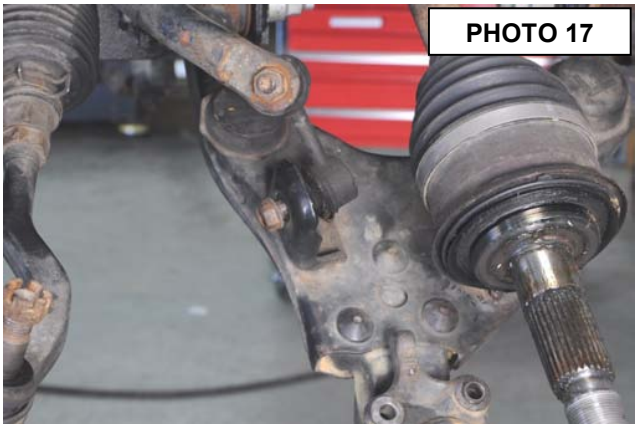


19. Using a 14mm socket, remove the 4 bolts from the bottom of the knuckle. Retain for reuse. **See Photo 15.**
20. Remove the knuckle from the truck, taking care to not damage the CV axle. **See Photo 16.**





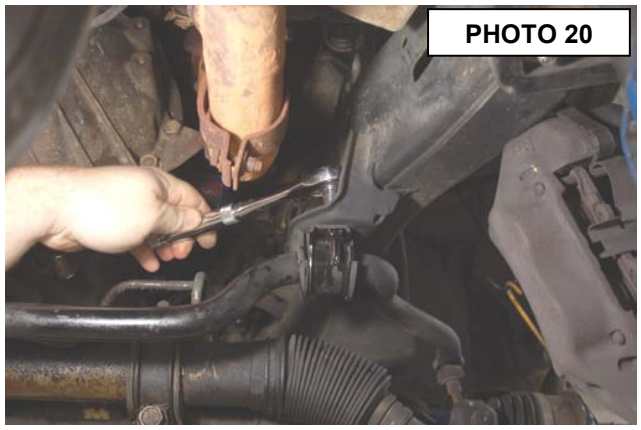
21. Using a 14mm socket, remove the sway link from the lower control arm. Retain hardware for reuse. **See Photo 17.**
22. Using a 19mm socket and wrench, remove the lower strut hardware and retain for reuse. **See Photo 18.**





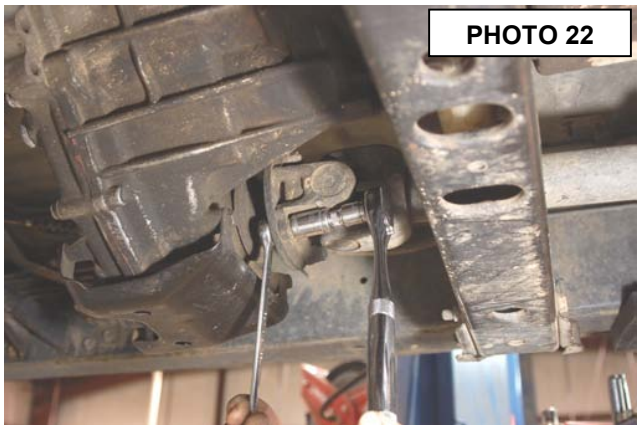
23. Using a 14mm wrench, remove the upper strut nuts. This hardware will not be reused. **See Photo 19.**
24. Remove the strut from the vehicle.
25. Using a 12mm socket, remove the sway bar from the frame mounts. Retain hardware for reuse. **See Photo 20.**



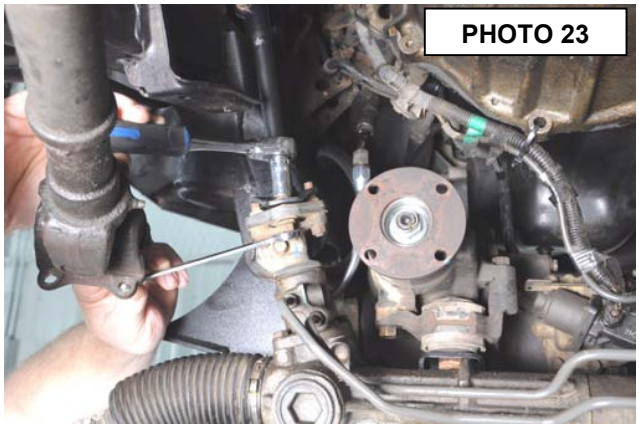


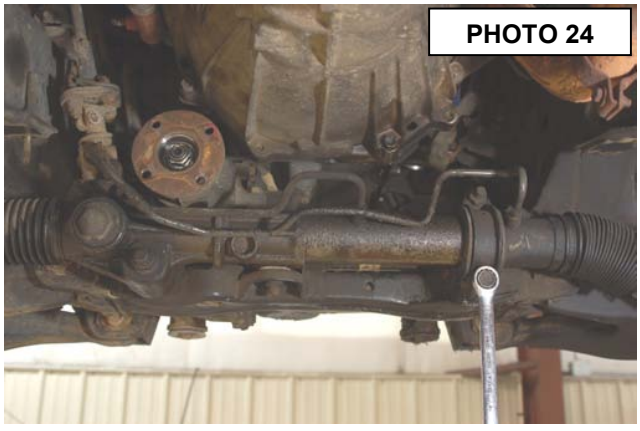
26. **(2wd model skip to step 28)** Mark the driveshaft and flanges on both ends for re-alignment.
27. Using a 14mm socket and wrench, remove the driveshaft from the differential and the transfer case. Retain hardware for reuse. **See Photos 21 & 22.**





28. Using a 12mm socket, remove the 2 bolts from the rag joint. Retain for reuse. **See Photo 23.**
29. Using a 19mm socket, remove the rack and pinion hardware from the passenger side. Retain for reuse. **See Photo 24.**



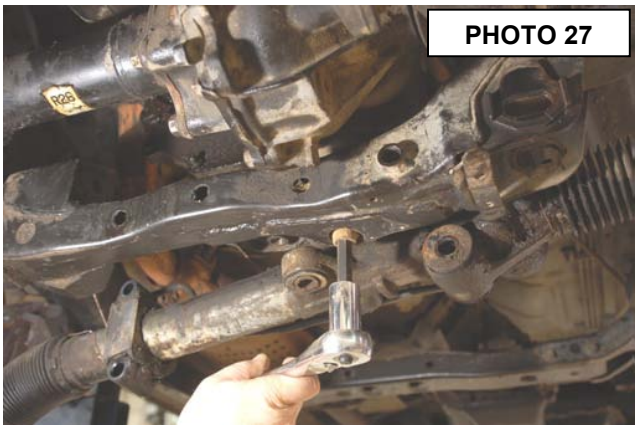


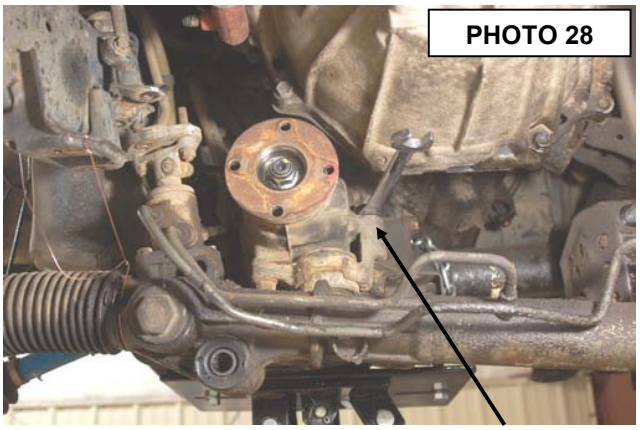
30. Using 22mm wrenches, remove the rack and pinion hardware from the driver side. Retain for reuse. **See Photo 25.**
31. Place a drain pan under the truck. Remove the power steering hoses from the rack and pinion, using a 17mm wrench and a pair of pliers.
32. Remove the rack and pinion from the truck.
33. Remove the lower control arm cam bolts using a 22mm and 19mm wrench. Retain hardware for reuse. **See Photo 26.**


PHOTO 25


PHOTO 26

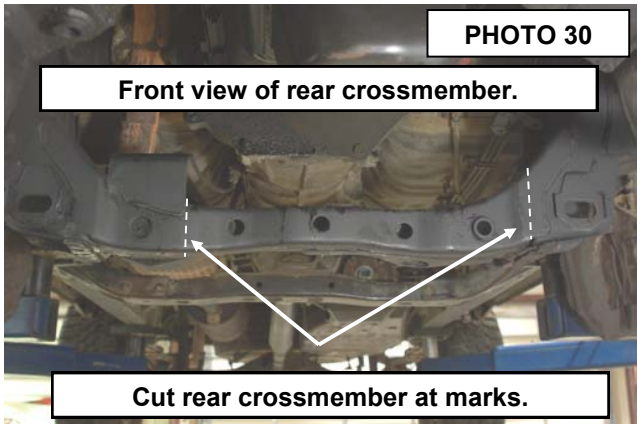
34. **(2WD models skip to step 36)** Remove the rear differential hardware using a 12mm Allen and a 17mm wrench. **See Photos 27 & 28.**


PHOTO 27

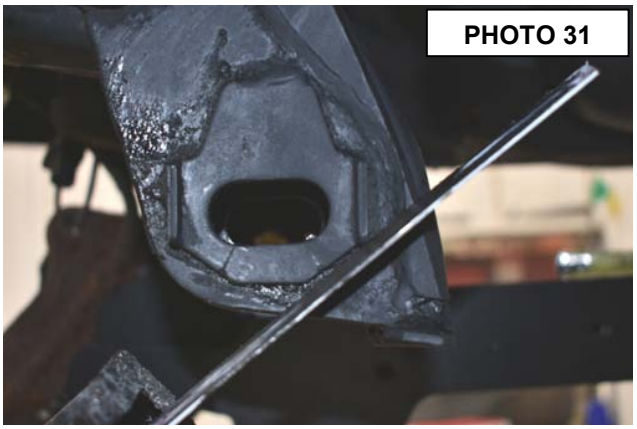

PHOTO 28

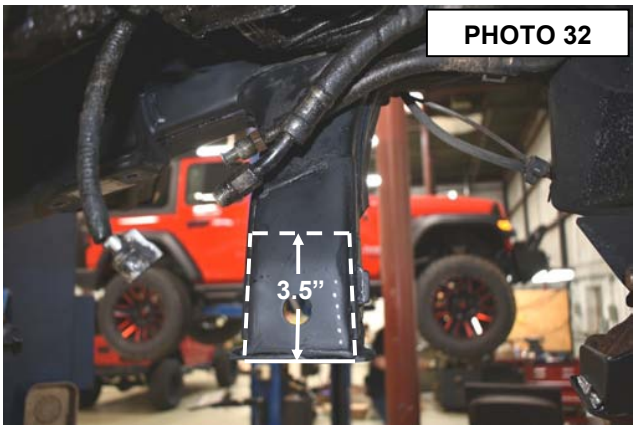
35. Support the differential using a jack, remove the front differential hardware using a 19mm wrench and socket. **See Photo 29.**
36. Remove the vent hose from the differential and unplug the actuator, remove the differential from the truck.
37. Using a reciprocating saw, cut the rear crossmember out. Refer to photo 32 to see rear view of completed cut rear crossmember. Sand and paint cut edges. **See Photo 30.**


PHOTO 29



38. Using a reciprocating saw, trim the drivers rear control arm pocket as shown in **Photos 31 & 32.** You will cut all the way across the control arm pocket following the angle of the cam tab in **Photo 31.** Sand and paint all cut edges.





39. Using the supplied template as a guide, cut the driver’s inner frame rail for steering shaft clearance. Sand and paint cut edges. **See Photos 33 & 34.**





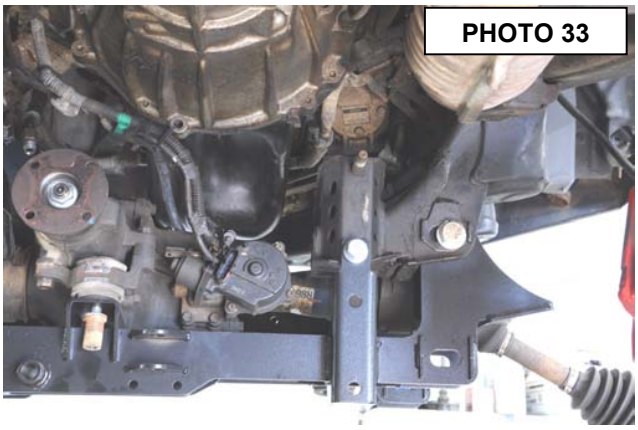
40. Install the supplied front crossmember using the supplied 3/4” x 4.5” bolts, nuts, and washers (1741BAG1). **Do not tighten at this time. See Photo 35.**
41. **(2WD Models skip to step 42)** Install the differential, onto the front crossmember, using the supplied flag nuts and 9/16” x 3.5” bolts (1741BAG2). Support the differential using a jack. **Do not tighten at this time. See Photo 36.**



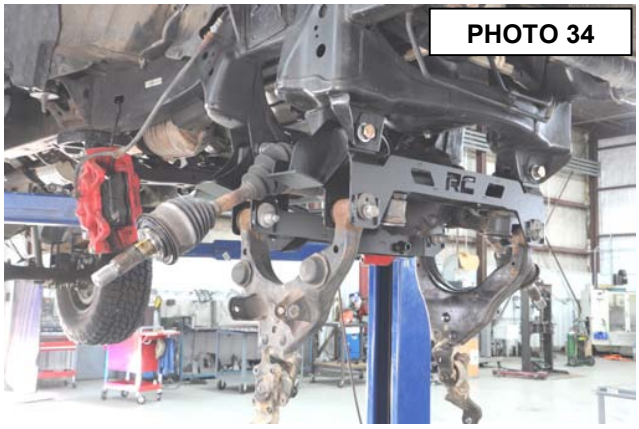


42. Install the rear crossmember using the supplied 3/4” x 4.5” bolts, washers, and nuts (1741BAG1) in the control arm pockets. **See Photo 33.**
43. Attach the crossmember to the lower rack mounting hole, using the supplied 14mm x 25mm bolt and washer (1741BAG1). Raise the rear of the diff and use the stock nut to attach the diff to the rear crossmember mount. **Do not tighten at this time. See Photo 33.**



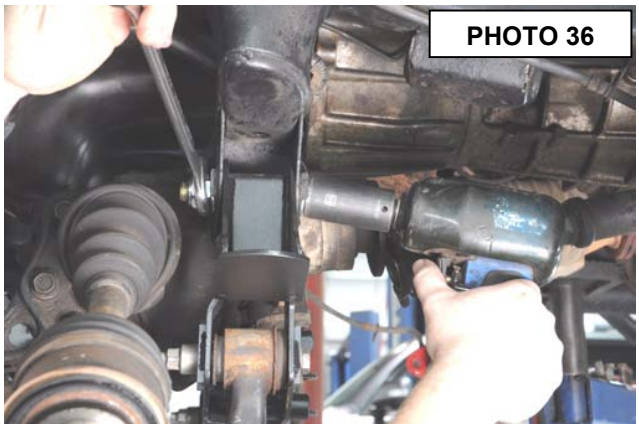


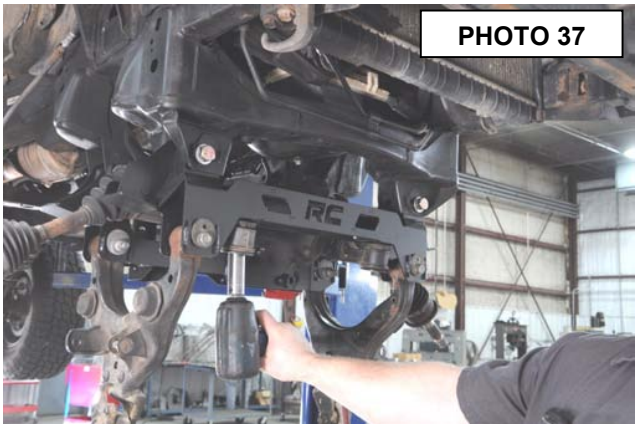
44. Install the lower control arms using the stock cam bolts and hardware. **Do not tighten at this time. See Photo 34.**
45. Using a 1-1/8” wrench and 1-1/16” socket, tighten the crossmember bolts. Torque to 280ft-lbs. **See Photos 35 & 36.**



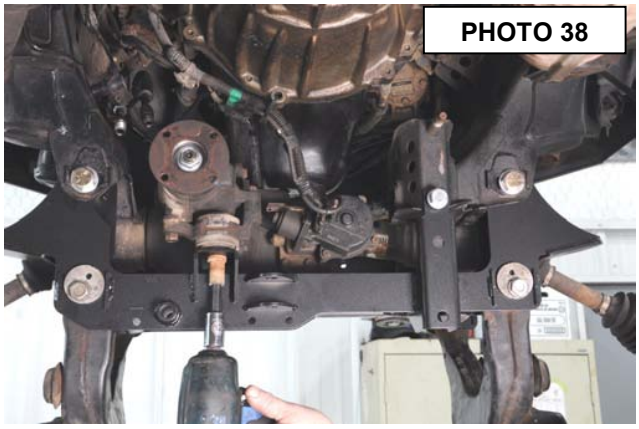


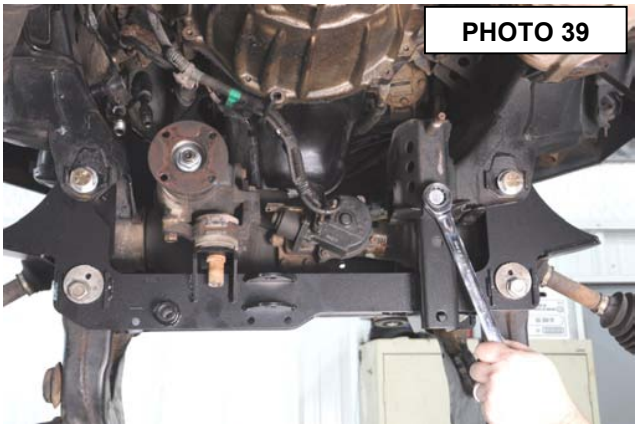
46. **(2WD Models skip to step 49)** Tighten the front diff bolts using a 13/16” socket, torque to 95ft-lbs. **See Photo 37.**
47. Install the differential vent tube and plug in the actuator.



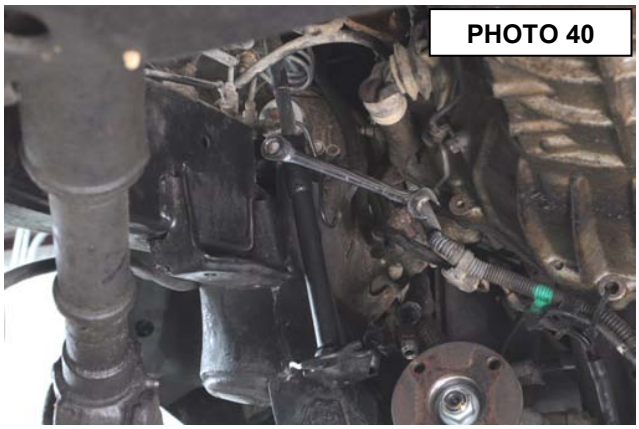


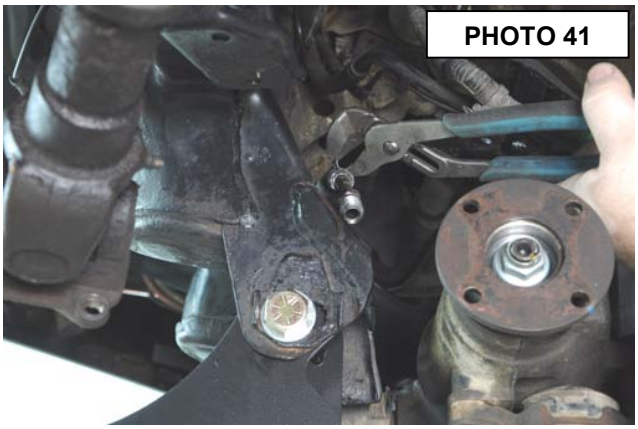
48. Tighten the rear diff mount using a 12mm Allen socket, torque to factory specs. **See Photo 38.**
49. Tighten the crossmember to frame mount using a 21mm. Torque to 85ft-lbs. **See Photo 39.**



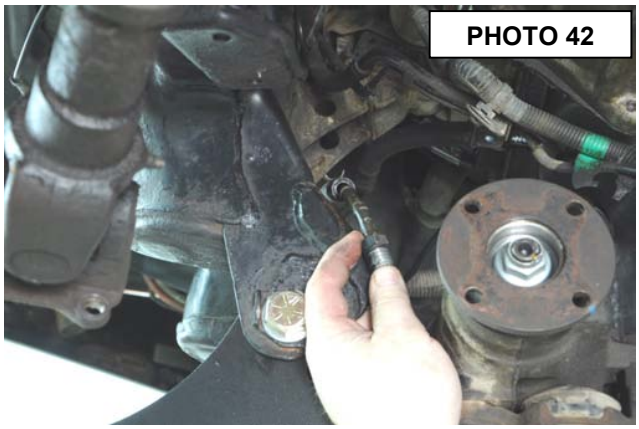


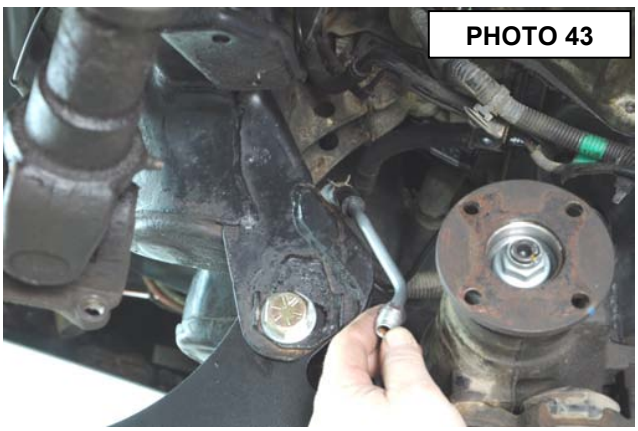
50. Using a 12mm wrench, loosen the pinch bolt on the factory steering shaft and remove from the vehicle. Retain bolt for use in supplied steering extension.
51. Install the supplied extended steering shaft using the factory hardware. Torque to factory specs using a 12mm socket. **See Photo 40.**





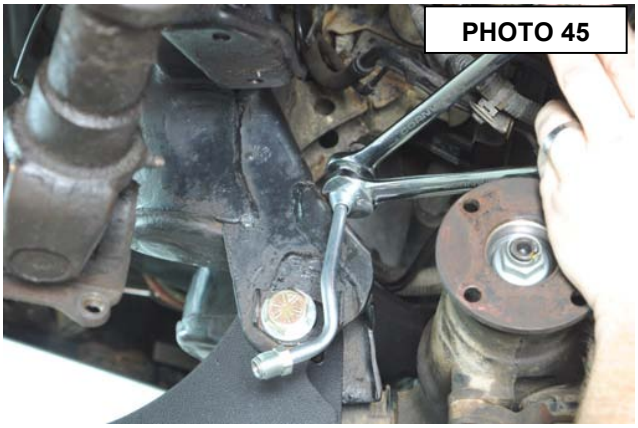
52. Using a pair of pliers, remove the fitting from the return line. **See Photos 41 & 42.**
53. Install the supplied extended return line fitting. **See Photo 43.**



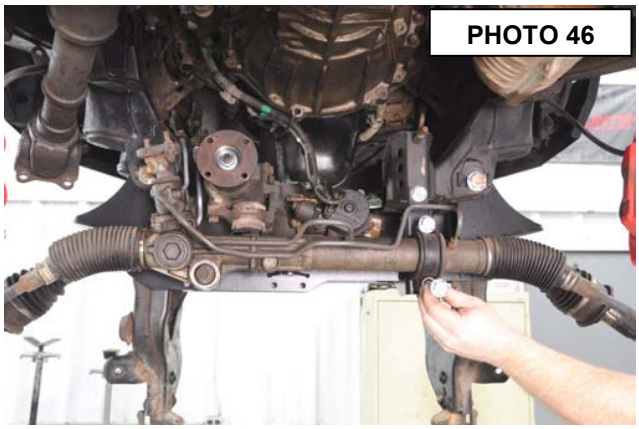


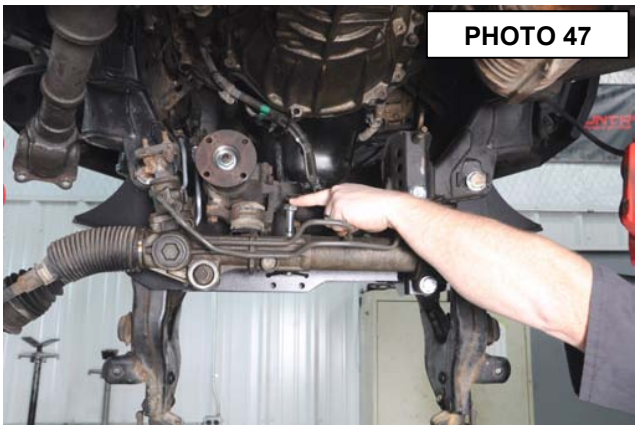
54. Install the new supplied extended pressure fitting using 19mm wrenches. **Do not tighten at this time. See Photos 44 & 45.**



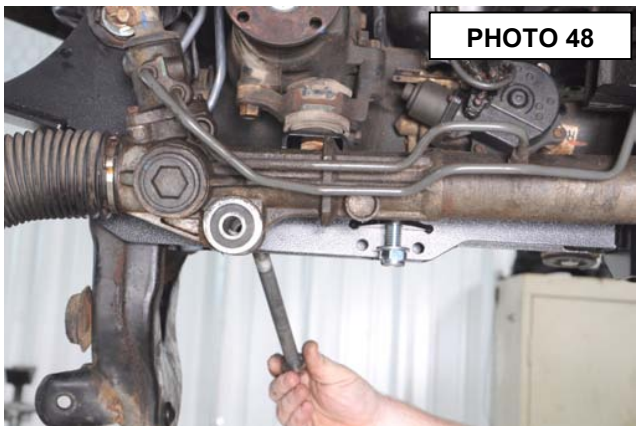


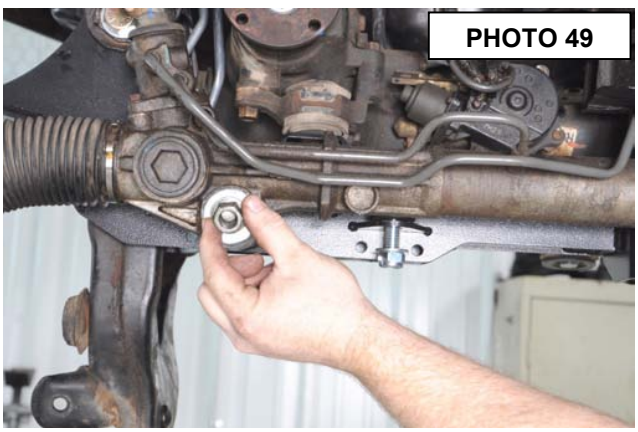
55. Install the rack and pinion using the supplied 14mm x 75mm bolts, washers, and nuts (1741BAG3) for the center mount and the passenger mount. **Make sure the passenger bracket is installed with the short side to the top. See Photos 46 & 47.**



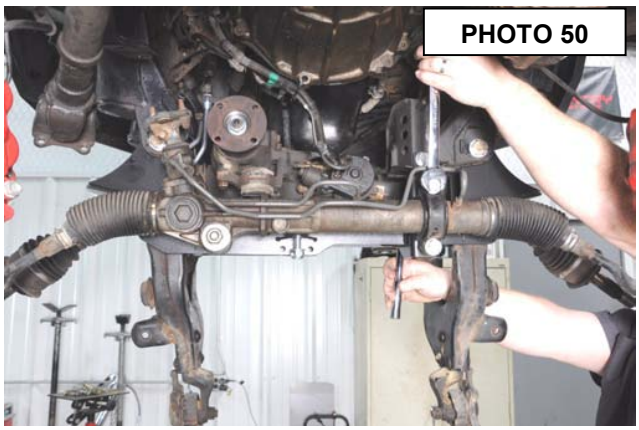


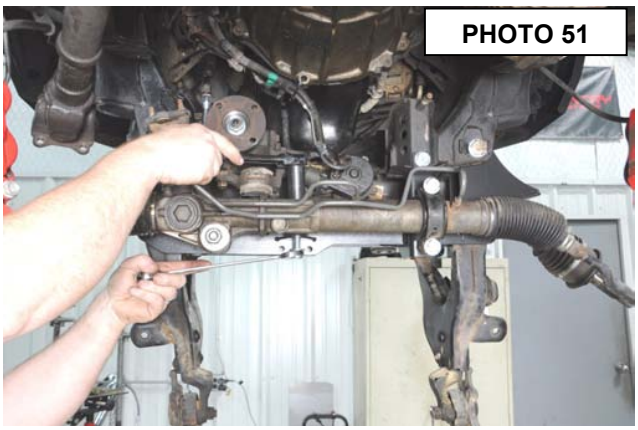
56. Install the factory hardware in the driver side mount. **See Photos 48 & 49.**



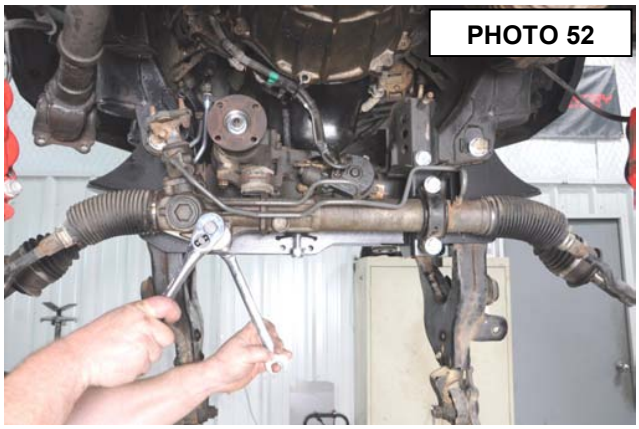


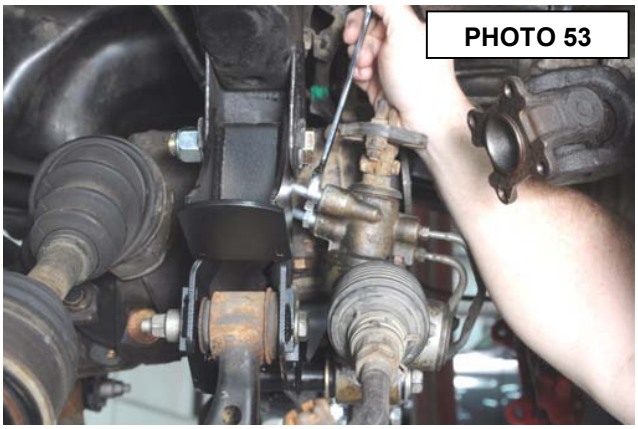
57. Tighten the passenger side mount using a 21mm socket and wrench. Torque to 85ft-lbs. **See Photo 50.**
58. Tighten the center mounting bolt using a 21mm socket and wrench. Torque to 85ft-lbs. **See Photo 51.**



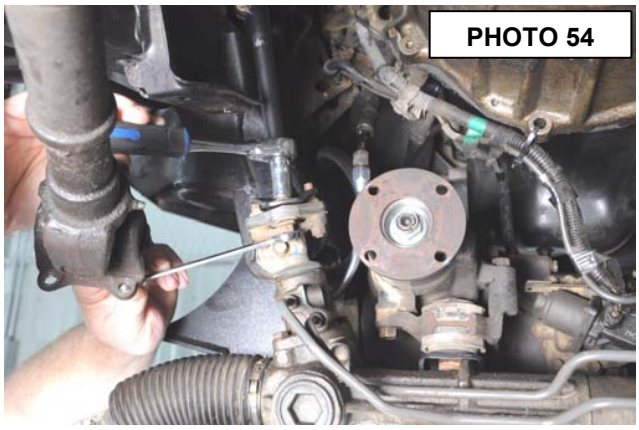


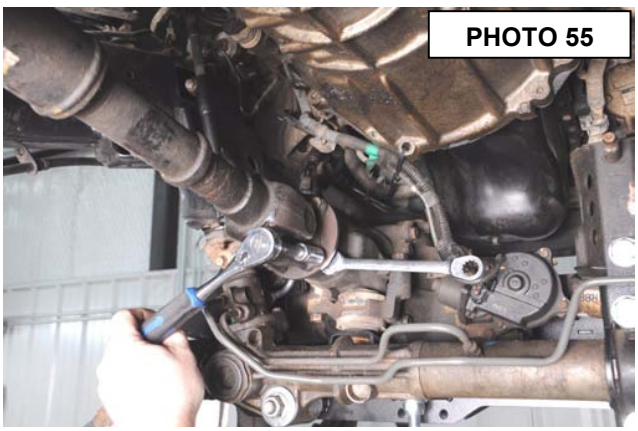
59. Tighten the driver side mounting bolt using a 22mm socket and wrench. Torque to factory specs. **See Photo 52.**
60. Install the power steering lines into the rack and pinion, adjust the orientation of the lines for proper clearance, and tighten using 17mm and 18mm wrenches. **See Photo 53.** Tighten the pressure line extension using 19mm wrenches.





61. Attach the extended steering shaft to the rack and pinion using the factory hardware. Torque to factory specs using a 12mm socket and wrench. **See Photo 54.**
62. **(4WD Models skip to step 63)** Align the marks made on the driveshaft and flanges. Attach using factory hardware. Torque to factory specs using a 14mm socket and wrench. **See Photo 55.**





63. Using a 13/32” drill, drill the sway bar mounting holes in the frame. **See Photo 56.**
64. Install the supplied sway bar drop brackets using the supplied 3/8” x 1.25” bolts, flange nuts and (2) washers (1741BAG2). Attach the sway bar to the drop brackets using the factory hardware and the supplied 3/8” washers, under the head of the bolt, (1741BAG2). Tighten using a 9/16” and a 12mm socket. **See Photo 57.**

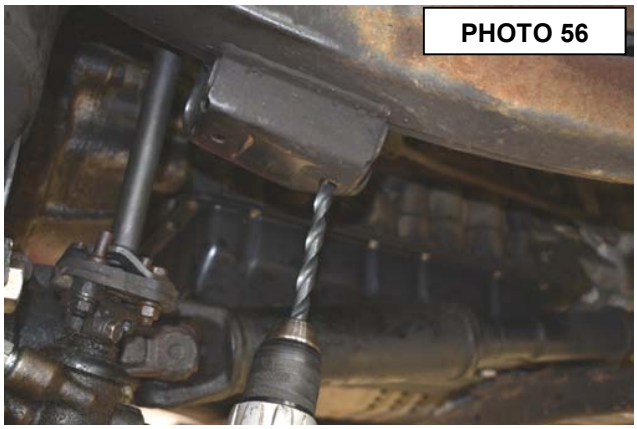
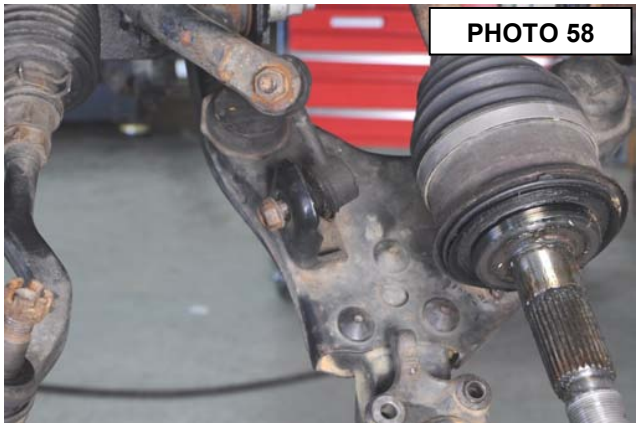
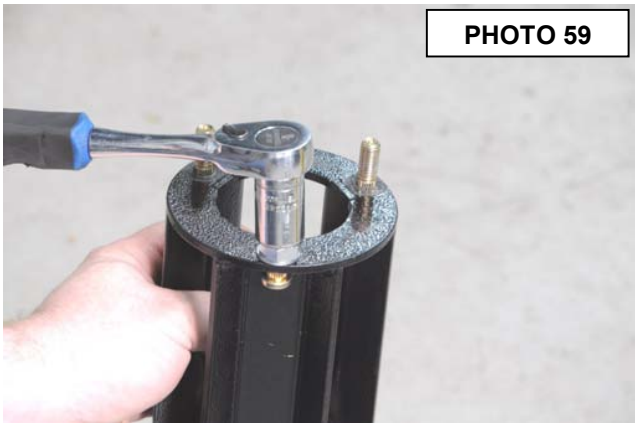

PHOTO 56


PHOTO 57

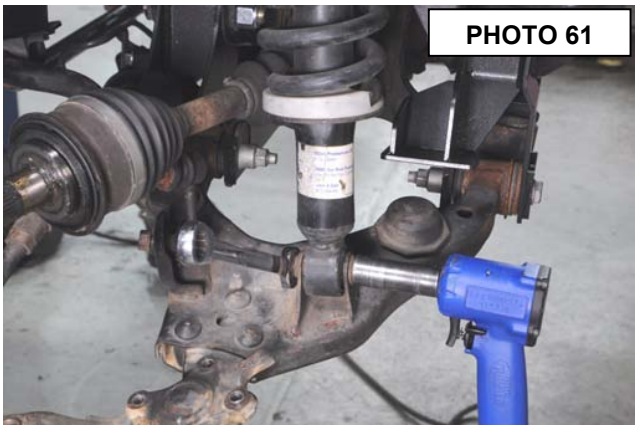
65. Install the sway link onto the lower control arm but do not tighten at this time. **See Photo 58.**
66. Install the supplied studs (10MMSTUDBAG-1) into the strut spacer. Place the supplied 1/2” jam nut (10MMSTUDBAG-1) over the stud, using a 17mm socket and ratchet, tighten the supplied 10mm nut (10MMSTUDBAG-1). This process will pull the stud into the spacer. **Do Not Use an Impact. See Photo 59.**


PHOTO 58

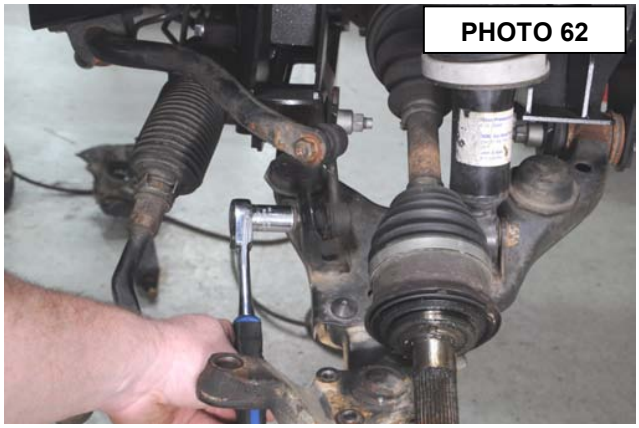

PHOTO 59

67. Install the spacer onto the top of the strut, using the supplied 10mm nut (1741BAG2). Tighten using a 14mm wrench.
68. Install the strut assembly into the truck. Attach the upper studs using the supplied 10mm nuts and washers (10MMSTUDBAG-1). Tighten using a 17mm wrench. **See Photo 60.**
69. Install the strut into the lower control arm using the factory hardware. Torque to factory specs using a 19mm socket and wrench. **See Photo 61.**


PHOTO 60

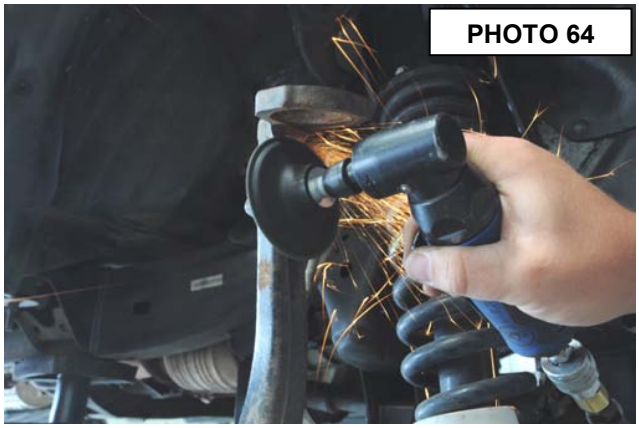

PHOTO 61

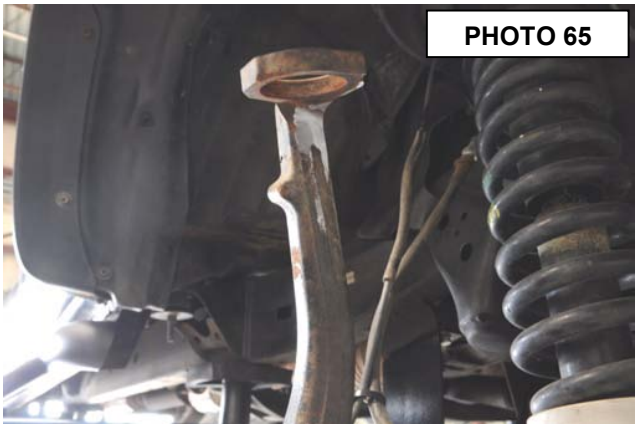
70. Tighten the sway links using a 14mm socket. Torque to factory specs. **See Photo 62.**
71. Press the upper ball joint out of each knuckle. **See Photo 63.**



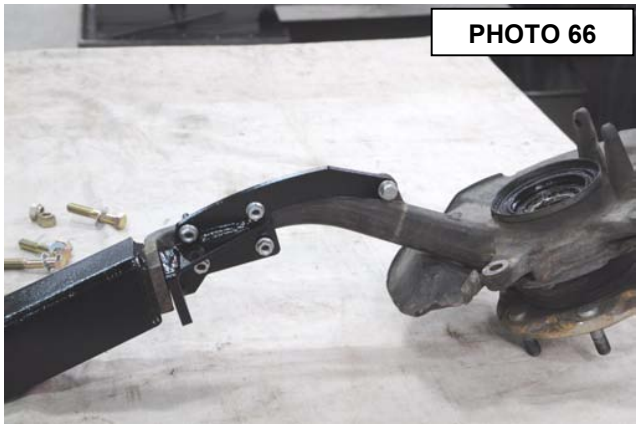


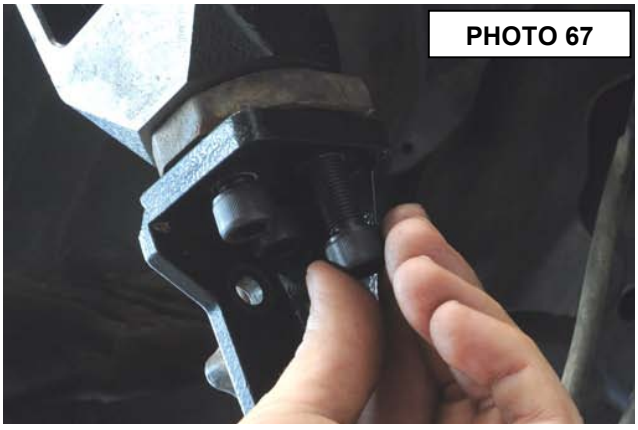
72. Lightly grind/sand on the upper inside corner of the knuckle, to remove the casting line. Paint sanded area. **See Photos 64 & 65.**





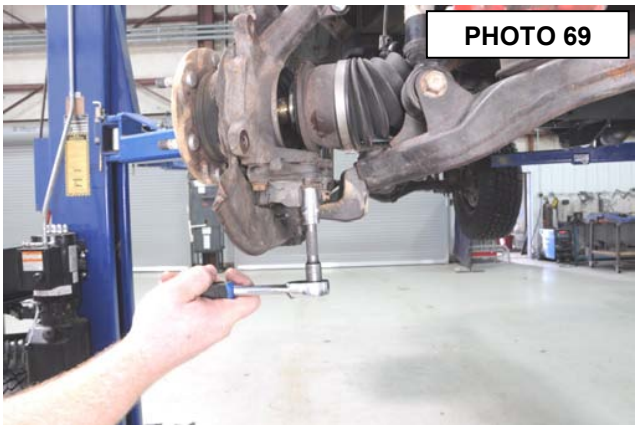
73. Install the knuckle extension into the ball joint hole on the knuckle. **Make sure the opening of the extension is facing outward.**
74. Install the lower knuckle extension brace using the supplied 5/16" ubolts, 8mm x 25mm bolt and washer, and 5/16" flange locknuts (1741BAG3). **Do not tighten at this time. See Photo 66.**
75. Install the (3) 7/16" x 1.75" socket head bolts (1741BAG3) up through the extension brace and into the knuckle extension. **Do not tighten at this time. See Photo 67.**





76. Tighten the (3) 7/16” knuckle extension bolts using a 3/8” Allen. Torque to 60ft-lbs.
77. Tighten the 5/16” U-bolts using a 1/2” socket. **See Photo 68.**
78. Do not tighten the lower 8mm bolt at this time. You will attach the brake line bracket using this bolt in step 89.
79. Install the knuckle assembly on the lower control arm using the factory hardware. Torque to factory specs using a 14mm socket. **See Photo 69.**


PHOTO 68

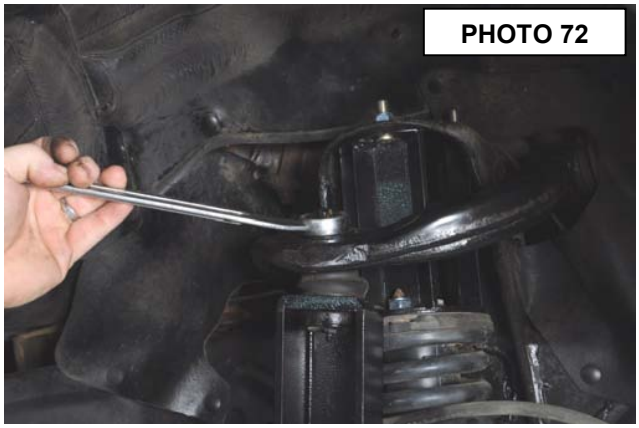

PHOTO 69

80. **(2WD models skip to step 83)** If you have manual hubs, reverse steps 16-10. Torque hardware to factory specs.
81. If you have automatic hubs, install the factory axle nut and tighten using a 36mm socket. **See Photo 70.**
82. Install axle cotter pin and dust cover. **See Photo 71.**


PHOTO 70

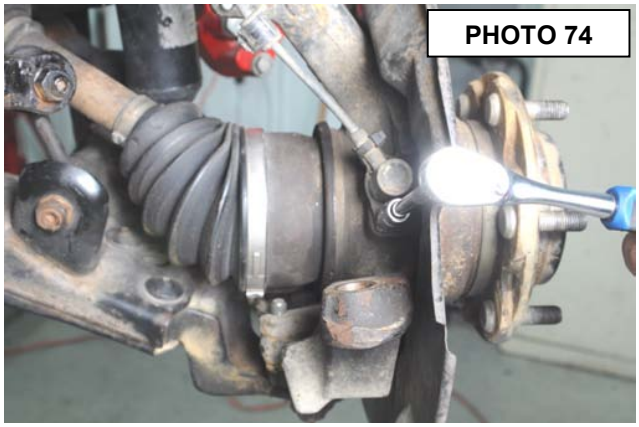

PHOTO 71

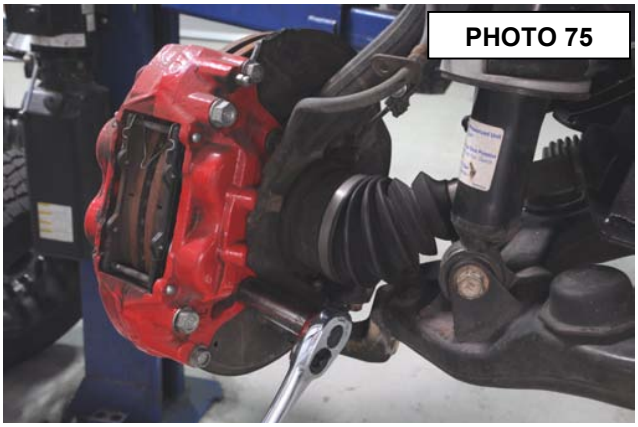
83. Install the upper ball joint into the upper control arm. Tighten using a 1-1/16" wrench. **See Photo 72.**
84. Install cotter pin into the upper ball joint. **See Photo 73.**
85. **Grease upper ball joint before use.**



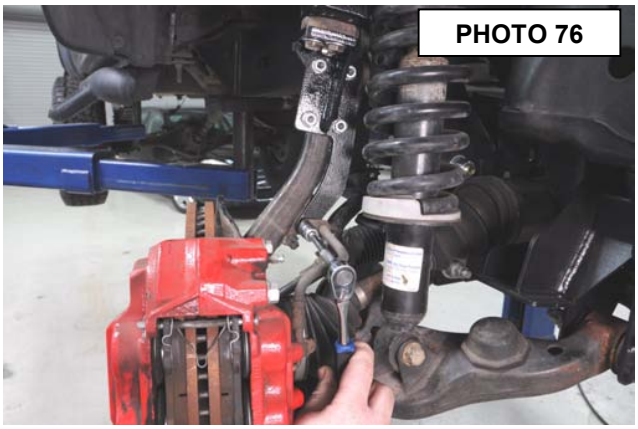


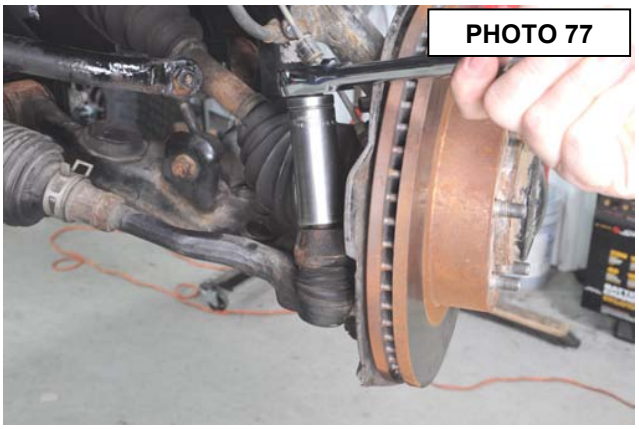
86. Install the ABS wire, if equipped, into the knuckle using the factory hardware. Torque to factory specs using a 10mm socket. **See Photo 74.**
87. Install dust shield and rotor.
88. Install the brake caliper using the factory hardware. Torque to factory specs using a 17mm socket. **See Photo 75.**





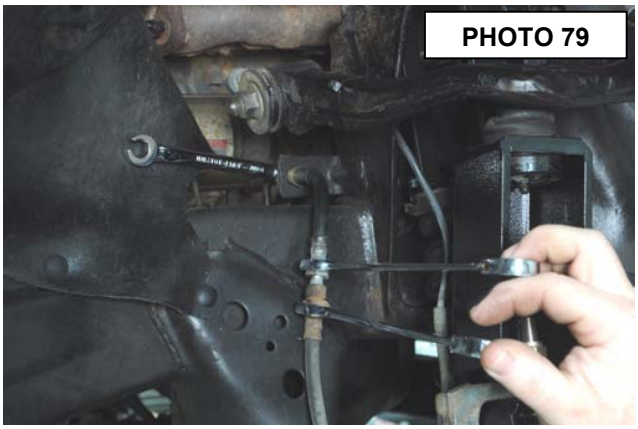
89. Attach the brake line to the knuckle using the lower knuckle extension brace bolt. Torque to 18ft-lbs using a 13mm socket. **See Photo 76.**
90. Install the tie rod into the knuckle. Tighten using a 22mm socket and install cotter pin. **See Photo 77.**



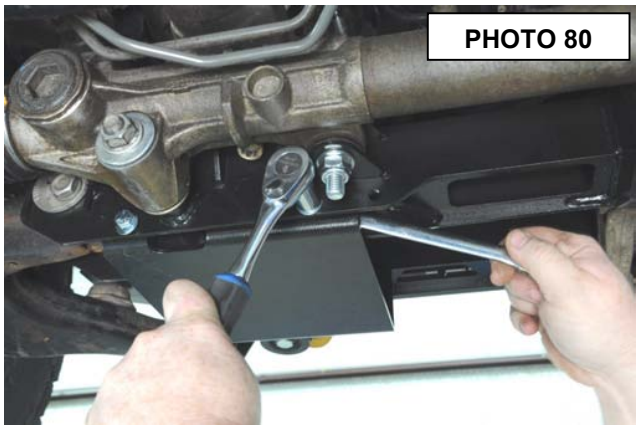


91. Set the lower control arm cam bolts to the center and tighten using 19mm and 22mm wrenches. **See Photo 78.**
92. Using a 10mm wrench disconnect the front brake line at the frame. Remove the brake line clip and install the supplied front brake line extension using 16mm and 17mm wrenches. Install the brake line extension into the frame bracket with the supplied brake line clip (1741BAG3). Tighten using a 10mm wrench. **See Photo 79.**





93. Install the differential skid plate using the supplied 3/8" x 1" bolts, washers, and nuts (1741BAG2). Torque to 30ft-lbs using a 9/16" socket and wrench. **See Photo 80 & 81.**

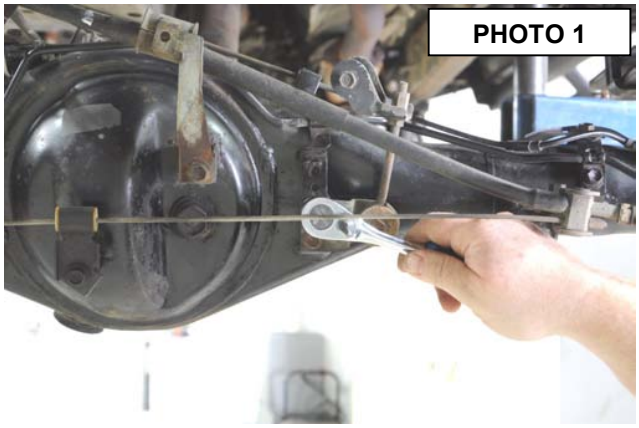


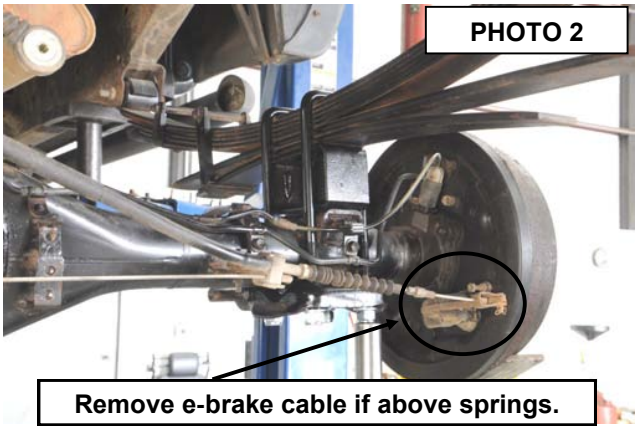


94. **WARNING** **Do Not Start the vehicle!**
95. Fill the power steering reservoir with fluid.
96. Turn the steering wheel left and right, lock to lock several times, to bleed the system.
97. Check for any leaks.
98. Check the fluid level and refill if needed.
99. Start the engine **only** when most of the air bubbles are bled from the system. Start the engine and immediately turn back off. This will help to purge the power steering pump. Cycle the steering again, start and check for leaks.
100. **NOTICE** If a loud whining noise is heard when turning, shut off the engine and bleed the system again.
101. Install the wheels and tires and lower the vehicle to the ground.

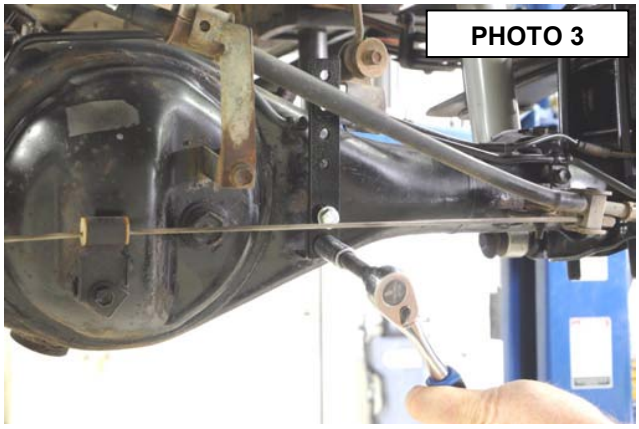
REAR INSTALLATION

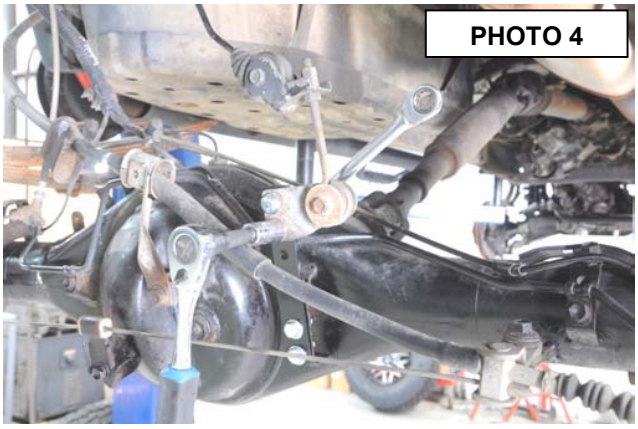
1. Jack up the rear of the vehicle and support the vehicle with jack stands, so that the rear tires are off the ground
2. Remove the rear tires/wheels. Using a 21mm deep well socket.
3. Support the rear axle with a jack.
4. Using a 17mm socket remove the rear shocks. Retain the shock hardware for reuse.
5. Using a 12mm socket remove the brake line bracket from the axle and remove the bolts from the rear brake proportioning valve on the axle side. Retain hardware for reuse. **See Photo 1.**
6. If your e-brake cable is above your leaf springs, remove the cable from the arms (both sides). Retain pins & clips for reuse. **See Photo 2.**
7. Using a 19mm socket, remove the rear U-bolts and lower the axle.
8. Install the supplied lift block, **taller end to the rear of the truck.**
9. Install the supplied U-bolts and hardware (9/16BAG). Torque to 90ft-lbs using a 13/16" socket. **See Photo 2.**





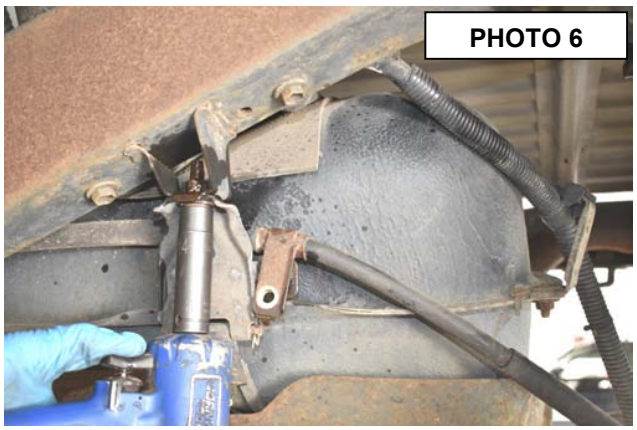
10. Install the e-brake cable (below the leaf springs) in the arms using the factory pins & clips.
11. Install the supplied brake proportioning bracket onto the axle using the factory hardware. Tighten using a 12mm socket. **See Photo 3.**
12. Attach the proportioning valve arm to the bracket using the supplied 5/16" x 1" bolts, washers, and nuts (1741BAG4). Torque to 15ft-lbs using a 1/2" socket and wrench. **See Photo 4.**





13. Using a 12mm wrench, remove the e-brake cable bracket at the gas tank. Retain hardware. **See Photo 5.**
14. Using a 14mm socket, remove the gas tank strap bolt. Retain for reuse. **See Photo 6.**
15. Pull the e-brake cable out from behind the gas tank strap.





16. Install the gas tank strap using the factory bolt. Torque to factory specs using a 14mm socket. **See Photo 7.**
17. Flip the e-brake bracket and attach using the factory bolt. Torque to factory spec using a 12mm socket. **See Photo 8.**



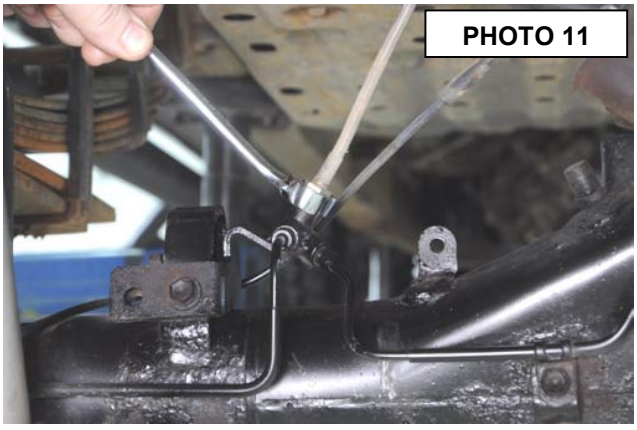


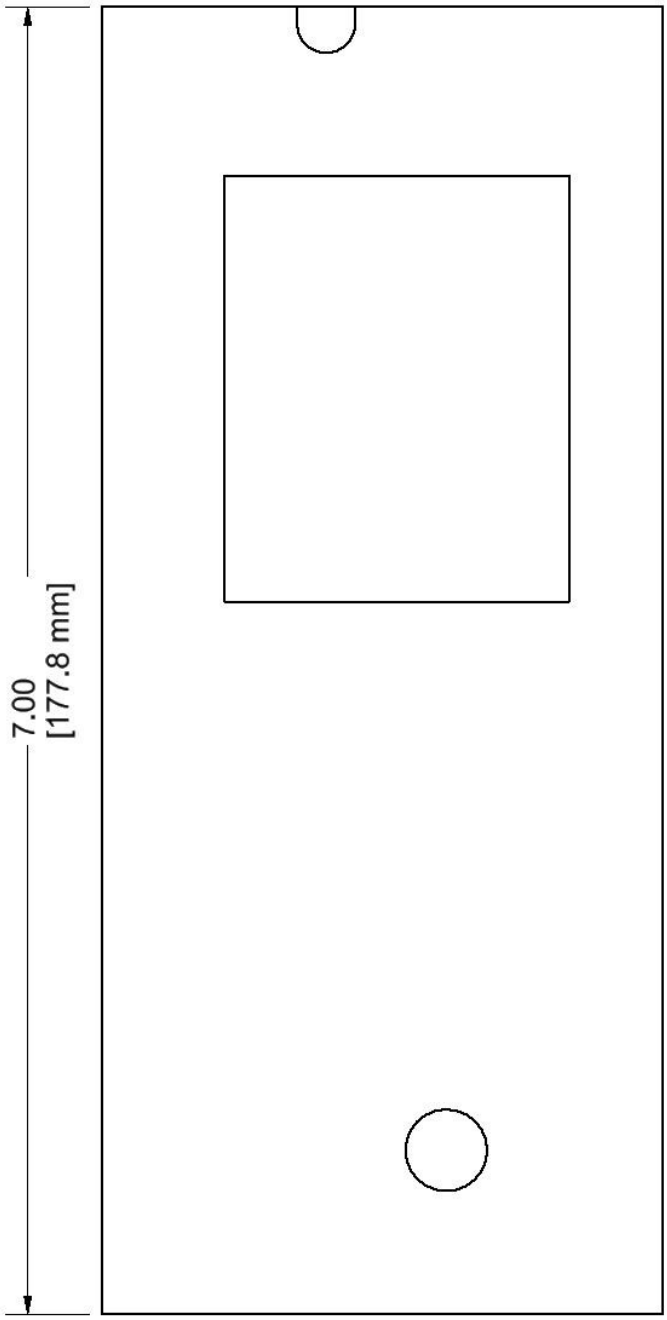
18. Install the new rear shocks using the factory hardware. Torque to factory specs using a 17mm socket.
19. Using a 10mm wrench, disconnect the rear brake line from the hard line at the frame and remove the clip. **See Photos 9 & 10.**





20. Using a 17mm wrench, remove the factory brake line from the axle.
21. Install the new supplied extended brake line on the axle using a 15mm wrench. **See Photo 11.**
22. Attach the brake line at the frame using a 10mm wrench.
23. Install the supplied brake line clip (1741BAG4).
24. Install the wheels and tires and lower the truck to the ground.
25. Bleed the brake system making sure all air is removed from the system, front and rear.




7.00
[177.8 mm]

POST INSTALLATION

1. Check and recheck all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check clearance between upper control arm and sidewall of tire for proper clearance. Check steering for interference and proper working order. Test brake system.
2. Perform steering sweep. Cycle the steering from full turn to full turn to check for clearance. Failure to perform inspections may result in component failure.
3. Have vehicle aligned to factory specifications.
4. Re torque all fasteners after 500 miles. Visually inspect components and re torque fasteners during routine vehicle service.
5. Grease ball joints.
6. Adjust headlights to proper settings given increased vehicle height.

MAINTENANCE INFORMATION

It is the ultimate buyers responsibility to have all bolts/nuts checked for tightness after the first 500 miles and then every 1000 miles. Wheel alignment steering system, suspension and driveline systems must be inspected by a qualified professional mechanic at least every 3000 miles.



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