Rough Country 29130 Installation Instructions

5-Inch Lift Kit with N3 Shocks for Silverado/Sierra 4WD (2014-2019)

Part number: 29130

trailfortress.com/rough-country-5-inch-lift-kit-29130

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

298INSTRBAG1

GM 2014-18 4WD 1500 5” & 7” Control Arm Drop Lift Kits

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 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 parts list on the rear cover of these instructions. 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. If question exist we will be happy to answer any questions concerning the design, function, and correct use of our products.

⚠NOTICE The electric power steering must be unplugged before any of the steering components are removed. Failure to do so may cause damage to the electric power steering.

⚠NOTICE Trucks equipped with a mass damper on the front diff, the damper will have to be removed.

This kit is packaged as a leveling kit—raising the front 7” and the back 5.25”. If you desire a different look or if the vehicle has a tool box or added weight in the rear, please consult with your sales representative about other block and u-bolt options.

5” Kits
This suspension system was developed using a 33” x 12.5” tire with 20” x 9” wheel and a offset of +12mm to +18mm. If wider tires are used, offset wheels will be required and trimming may be required.

7” Kits
This suspension system was developed using a 35” x 12.5” tire with 20” x 9” wheel and a offset of +12mm to +18mm. If wider tires are used, offset wheels will be required and trimming may be required.

⚠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.

Tools Needed:

Floor Jack /Jack Stands
8mm Allen Socket
10mm socket /wrench
11mm socket /wrench
13 mm socket/wrench
15mm socket / wrench
17mm socket/wrench
18mm socket /wrench
21mm socket /wrench
22mm socket /wrench
24mm socket /wrench
19mm socket /wrench
35mm socket
1/2” socket/wrench
9/16” socket /wrench
#30 Torx bit
Reciprocating Saw
Drill
9/16” Drill Bit
3” Hole Saw
Hand Grinder

Torque Specs:

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

trailfortress.com/rough-country-5-inch-lift-kit-29130

KIT CONTENT
(7” Kit Shown)



Thank you for choosing Rough Country for your suspension needs.

Kit Boxes

5” Kits

29130 (5” Kit w/ N3 Rr Shocks):
1290BOX16
1290BOX4
1290BOX3
298BOX1
291BOX2
291BOX3
20158 x 2

29133 (5” Kit w/ N3 Struts & N3 Rr Shocks):
1290BOX16
1290BOX4
1290BOX3
298BOX1
291BOX2
23014
20158 x 2

29170 (5” Kit w/ V2 Rr Shocks):
1290BOX16
1290BOX4
1290BOX3
298BOX1
291BOX2
291BOX3
760748

29171 (5” Kit w/ N3 Struts & V2 Rr Shocks):
1290BOX16
1290BOX4
1290BOX3
298BOX1
291BOX2
23014
760748

17700 (5” Denali w/ MagneRide):
1290BOX16
1290BOX4
1290BOX3
298BOX1
291BOX2
188BOX9
17700BAG1 x 2

7” Kits

29833 (7” Kit w/ N3 Struts & N3 Rr Shocks):
1290BOX16
1290BOX13
1290BOX3
1290BOX4
129850BOX2—>298BOX2
23015
20158 x 2

29871 (7” Kit w/ N3 Struts & V2 Rr Shocks):
1290BOX16
1290BOX13
1290BOX3
1290BOX4
129850BOX2—>298BOX2
23015
760748

29850 (7” Kit w/ Fr & RR Vertex Shocks):
1290BOX16
1290BOX13
1290BOX3
1290BOX4
129850BOX2—>298BOX2
680001 x 2
690001 x 2

29857 (7” Kit w/ Vertex Coil overs & V2 Rr Shocks):
1290BOX16
1290BOX13
1290BOX3
1290BOX4
129850BOX2—>298BOX2
680001 x 2
760748

17600 (7” Kit Denali w/ MagneRide & Cast AL LCA):
1290BOX16
1290BOX3
1290BOX4
298BOX1
298BOX2
188BOX9
17600BAG1 x 2
1307
291BOX3

17800 (7” Kit Denali w/ MagneRide & Cast Steel LCA):
1290BOX16
1290BOX3
1290BOX4
298BOX1
298BOX2
178BOX9
188BOX9
17600BAG1 x 2

29130, 29133, 29170, 29171, & 17700 Kit Box & Bag Contents

Box Kit

298Box1
- Upper Control Arm Drop Driver-1
- Upper Control Arm Drop Passenger-1
- Diff Drop Driver-1
- Diff Drop Passenger-1
- Sway Bar Drop Brackets-2
- Front Upper Arm Driver Brace-1
- Front Upper Arm Passenger Brace-1
- Front Brake Line Brackets-2
- Steering Extension Bracket-1
- E-brake Bracket-1
- Rear Brake Line Bracket-1
- 1290Bag2-1
- 1290Bag3-1
- 1290Bag4-1
- 1290Bag5-1
- 1290Bag6-1
- 1290Bag9-1
- 1290Bag10-1
- 1290Bag12-1
- 298INSTRBAG-1

1290Box16
- Front Cross Member-1
- Rear Cross Member-1

1290Box3
- Lower Skid Plate-1
- 1290Bag7-1

1290Box4
- Front Skid Plate-1

291BOX2
- Rear Fabricated Blocks-2
- U-Bolts-4
- 9/16Bag-1

291Box3
- Strut Spacers-2
- 10MMSTUDBAG-2-1

188BOX9 (17700 Kit Only)
- 183Bag2-1
- 188Bag1-1
- MagneRide Rr Shock Brackets-2
- Denali Rr E-Brake Bracket-1

17700BAG1 (17700 Kit Only) x 2
- Front MagneRide Sensor Link-1

20158-Rear N3 Shock

23014-N3 Strut

760748-Rear V2 Shock

Kit Bags

298INSTRBAG
- Instruction Sheet-1
- Warning to Driver Sticker-1

1290Bag12
- 5/8" x 5" Bolts-2
- 5/8" Washers-8
- 5/8" Nylock Nuts-4
- 5/8" x 5.5" Bolts-2

1290Bag2
- 2014 GM Steering Extension-1

1290Bag3
- 1/4" x 3/8" Set Screw-1
- 3/4" Metal Race Hiems Joint-1

1290Bag4
- 3/8" x 1.25" Bolts-6
- 3/8" Lock Washers-6
- 3/8" Nuts-6
- 9/16" x 4" Bolts-4
- 9/16" Nylock Nuts-4

1290Bag5
- 12mm x 140mm Bolt-1
- 1/2" Washer-5
- 12mm Flange Nut-5
- 1/4" Vent Hose-1
- 1/4" Coupler-1
- 12mm x 45mm Bolts-4

1290Bag6
- 10mm x 35mm Bolts-4
- 10mm Nylock Nuts-4
- 3/8" Washers-4
- 5/16" x 1" Bolts-5
- 5/16" Toplock Nuts-5
- 5/16' Washers-10

1290Bag7
- 3/8" 1.25" Bolts-8
- 3/8" Washers-8

129850Bag2
- Instruction Sheet-1
- Warning to Driver Sticker-1

1290Bag9
- Cam Bolt Block Off Plates-6
- Block Off Plate With ABS Mount-2
- Rack And Pinion Shims-2

1290Bag10
- 18mm-2.5 x 150mm Bolt-1
- 18mm Lock Nut-1
- 3/4" Washer-1

Kit Bags

9/16Bag
- 9/16" Flat Washers-8
- 9/16" Nylock Nuts-8

10MMSTUDBAG-2
- 1/2" Jam Nut-1
- 10mm Hex Nut-1
- 10mm Flange Lock Nuts-6
- 10mm Studs-6

183Bag2
- Square Washers-2
- 14mm x 85mm Bolts-2
- 14mm Nylock Nuts-2
- Flat Washers-4
- 1/2" x 1.5" Bolts-2
- 1/2" Flat Washers-2

188Bag1
- Frt MagneRide Relocation Brackets-2
- 6mm x 16mm Bolts-2
- 6mm Nylock Nuts-2

29833, 29871, 29850, 29857, 17600, & 17800 Kit Box & Bag Contents

Box Kit

298Box1 or 1290Box13
- Upper Control Arm Drop Driver-1
- Upper Control Arm Drop Passenger-1
- Diff Drop Driver-1
- Diff Drop Passenger-1
- Sway Bar Drop Brackets-2
- Front Upper Arm Driver Brace-1
- Front Upper Arm Passenger Brace-1
- Front Brake Line Brackets-2
- Steering Extension Bracket-1
- E-brake Bracket-1
- Rear Brake Line Bracket-1
- 1290Bag2-1
- 1290Bag3-1
- 1290Bag4-1
- 1290Bag5-1
- 1290Bag6-1
- 1290Bag9-1
- 1290Bag10-1
- 1290Bag12-1
- 298INSTRBAG-1

1290Box16
- Front Cross Member-1
- Rear Cross Member-1

1290Box3
- Lower Skid Plate-1
- 1290Bag7-1

1290Box4
- Front Skid Plate-1

129850Box2 or 298BOX2
- Rear Fabricated Blocks-2
- U-Bolts-4
- 9/16Bag-1
- 1263Bag2-1

188BOX9
- 183Bag2-1
- 188Bag1-1
- MagneRide Rr Shock Brackets-2
- Denali Rr E-Brake Bracket-1

17600BAG1 x 2
- Front MagneRide Sensor Link-1

291Box3
- Strut Spacers-2
- 10MMSTUDBAG-2-1

178Box9
- Strut Spacers-2
- 10MMSTUDBAG-2-1

1307
- Lower Strut Spacers-2
- 1307Bag1-1

20158-Rear N3 Shock

23015-N3 Strut

760748-Rear V2 Shock

680001-Vertex Coilover

690001-Rear Vertex Shock

Kit Bags

298INSTRBAG
- Instruction Sheet-1
- Warning to Driver Sticker-1

1290Bag12
- 5/8" x 5" Bolts-2
- 5/8" Washers-8
- 5/8" Nylock Nuts-4
- 5/8" x 5.5" Bolts-2

1290Bag2
- 2014 GM Steering Extension-1

1290Bag3
- 1/4" x 3/8" Set Screw-1
- 3/4" Metal Race Hiems Joint-1

1290Bag4
- 3/8" x 1.25" Bolts-6
- 3/8" Lock Washers-6
- 3/8" Nuts-6
- 9/16" x 4" Bolts-4
- 9/16" Nylock Nuts-4

1290Bag5
- 12mm x 140mm Bolt-1
- 1/2" Washer-5
- 12mm Flange Nut-5
- 1/4" Vent Hose-1
- 1/4" Coupler-1
- 12mm x 45mm Bolts-4

1290Bag6
- 10mm x 35mm Bolts-4
- 10mm Nylock Nuts-4
- 3/8" Washers-4
- 5/16" x 1" Bolts-5
- 5/16" Toplock Nuts-5
- 5/16' Washers-10

1290Bag7
- 3/8" 1.25" Bolts-8
- 3/8" Washers-8

129850Bag2
- Instruction Sheet-1
- Warning to Driver Sticker-1

1290Bag9
- Cam Bolt Block Off Plates-6
- Block Off Plate With ABS Mount-2
- Rack And Pinion Shims-2

1290Bag10
- 18mm-2.5 x 150mm Bolt-1
- 18mm Lock Nut-1
- 3/4" Washer-1

Kit Bags

1229BAG3-*Crossmember Bag*
- 9/16" x 4.5" Bolts-2
- 9/16" x 5.5" Bolts-2
- Flat Washers-8
- 9/16" Nylock Nuts-4

10MMSTUDBAG-2
- 1/2" Jam Nut-1
- 10mm Hex Nut-1
- 10mm Flange Lock Nuts-6
- 10mm Studs-6
- 1/2" Jam Nut-1

9/16BAG-*U-bolt Bag*
- 9/16" Washers-8
- 9/16" Nuts-8

1263BAG2-*Anti Wrap U-bolt Bag*
- 7/16" x 3 1/8" x 3 1/4" Square U-bolt-4
- 7/16" Washer-8
- 7/16 Nylock-8

1307Bag1
- 10mm x 85mm Bolts-4
- 10mm Nylock Nuts-4
- Flat Washers-8

183Bag2
- Square Washers-2
- 14mm x 85mm Bolts-2
- 14mm Nylock Nuts-2
- Flat Washers-4
- 1/2" x 1.5" Bolts-2
- 1/2" Flat Washers-2

188Bag1
- Frt MagneRide Relocation Brackets-2
- 6mm x 16mm Bolts-2
- 6mm Nylock Nuts-2

FRONT INSTALLATION

1. Park the vehicle on a level surface and chock the rear wheels. Raise the hood and disconnect the battery using a 10mm socket. Lock the steering wheel in the straight position.
2. Jack up the front of the vehicle. Place jack stands under the frame rails and lower onto jack stands letting the front suspension hang.
3. Remove the tires and wheels. Remove the 6 bolts holding the factory skid plate using a 15mm socket. Unplug the two connectors going to the electric power steering wiring harness behind the front skid plate. **See Photo 1**.
4. Remove and unplug the ABS sensor wire from the frame as shown in **Photo 2.**

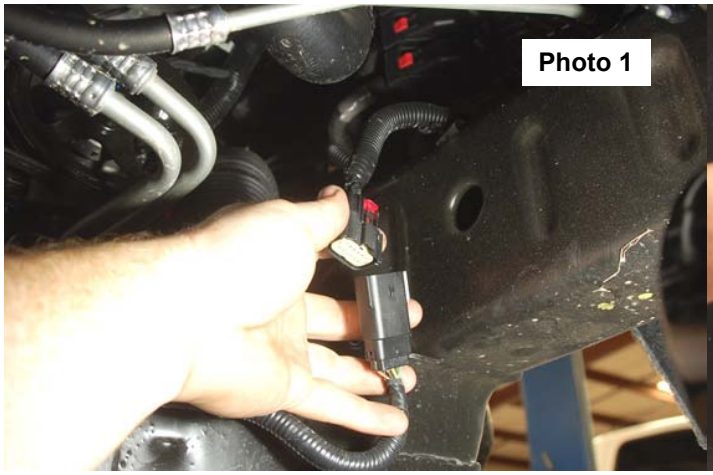


Photo 1

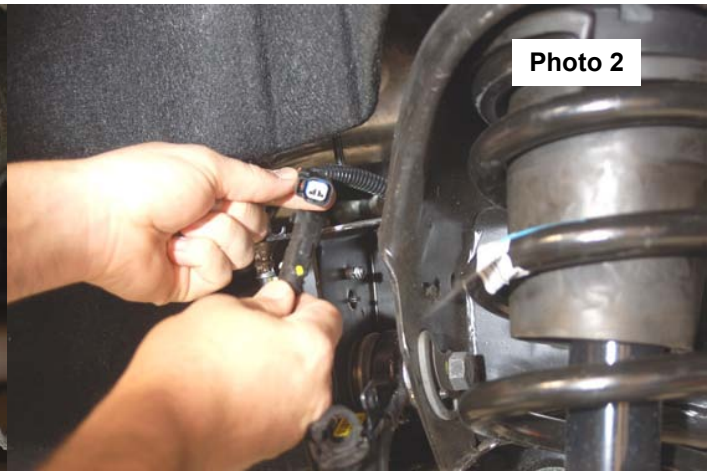


Photo 2

5. Remove the sensor wire from the plastic clip. Remove the brake line bracket from the control arm using a 10mm wrench. **See Photo 3.** Next remove the bracket line bracket from the control arm pocket with a 13mm wrench.
6. Using a 21mm wrench, remove the tie-rod nut as shown in **Photo 2**. Strike the front of the mount to dislodge the tie rod end. Remove from the knuckle.

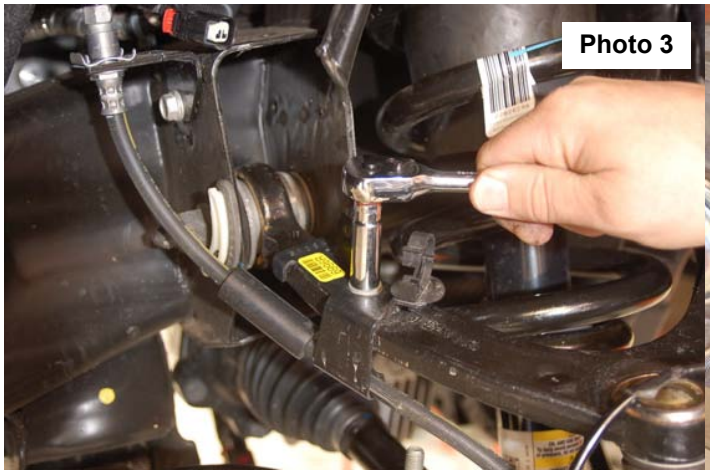


Photo 3


Photo 4

7. Remove the brake caliper using a 18mm socket. Hang the caliper out of the way and remove the rotor using a 30 torx socket. **See Photo 5.**
8. Use a 10mm socket to remove the brake line bracket from the knuckle.
9. Remove the dust cap and then remove the axle nut using a 35mm socket.

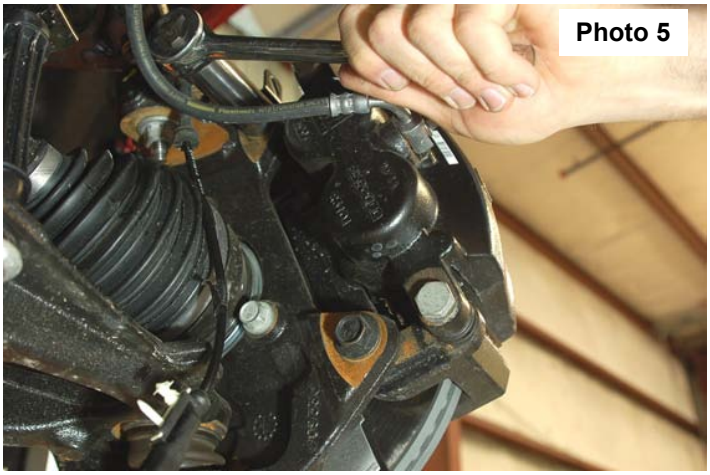


Photo 5

10. Remove the upper ball joint using a 18mm socket and separate using a hammer and striking the knuckle on the side as shown in **Photo 6.**
11. Remove the lower ball joint using a 24mm socket and separate with a hammer as shown in **Photo 7**. Next remove the knuckle from the truck.

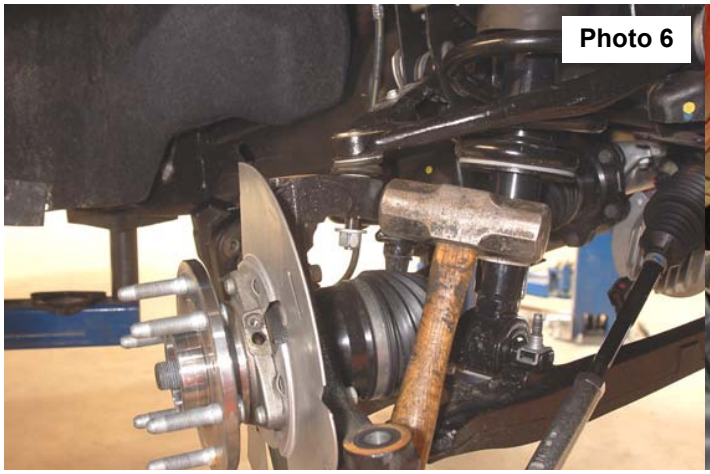


Photo 6

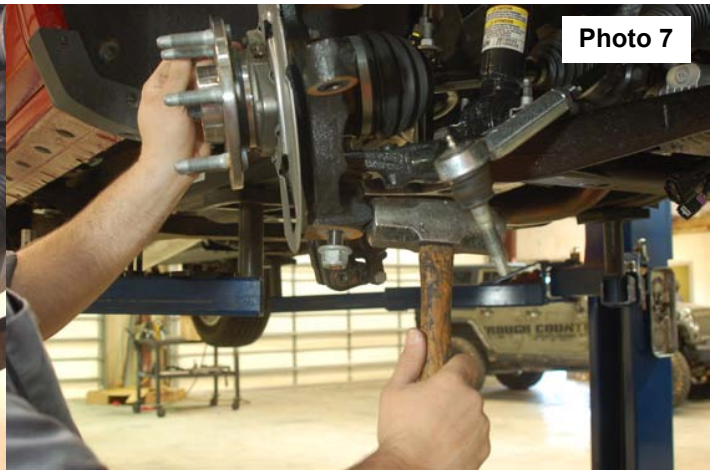


Photo 7

12. Using a 15mm wrench and socket remove the sway bar links from the truck. **See Photo 8.**
13. Remove the lower strut bolts using a 15mm socket as shown in **Photo 9** and remove the upper strut nuts using a 18mm wrench. Remove the strut from the truck.

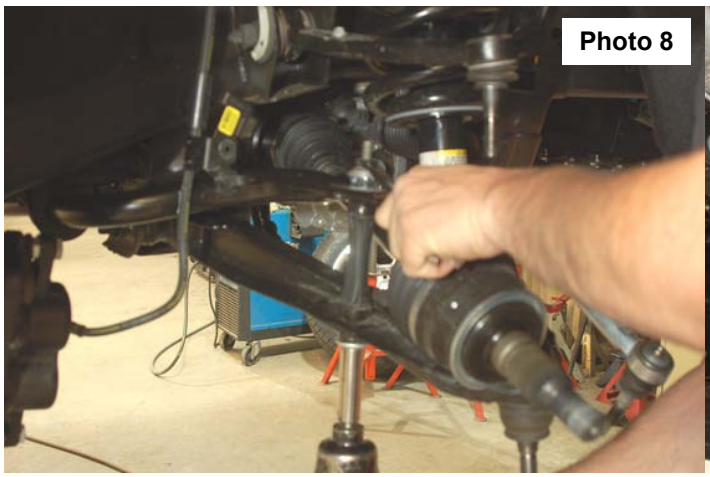


Photo 8

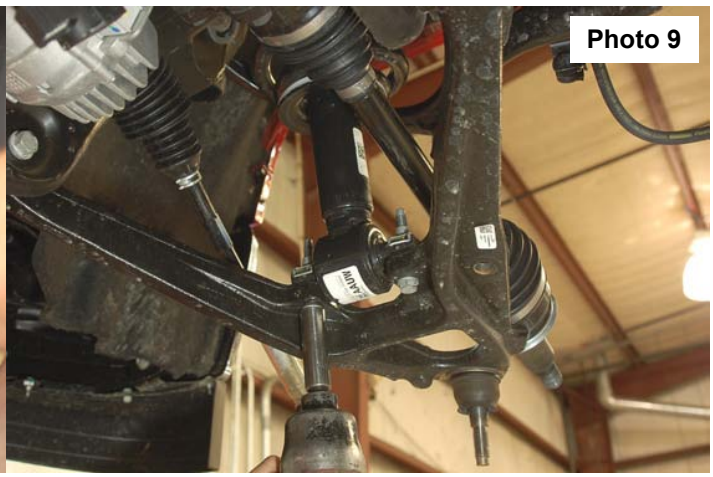


Photo 9

14. Remove CV axle bolts using a 15mm socket. **See Photo 10.**
15. Using a 10mm socket remove the sway bar from the bottom of the frame. **See Photo 11.**

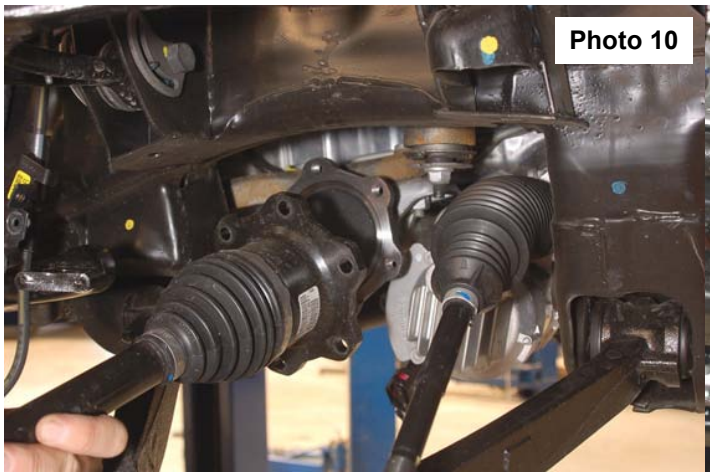
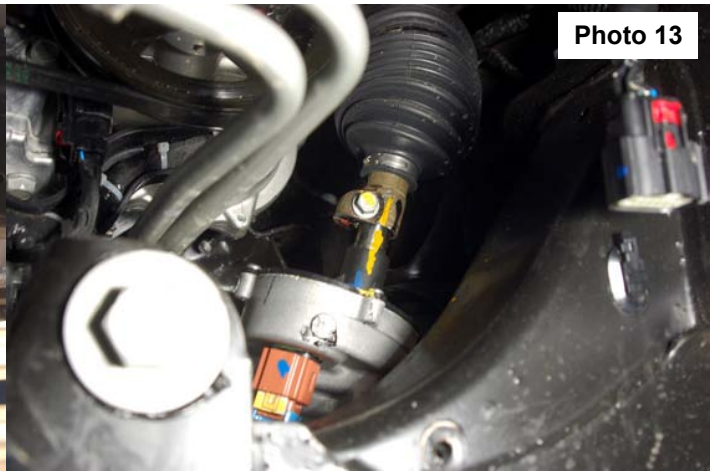


Photo 10

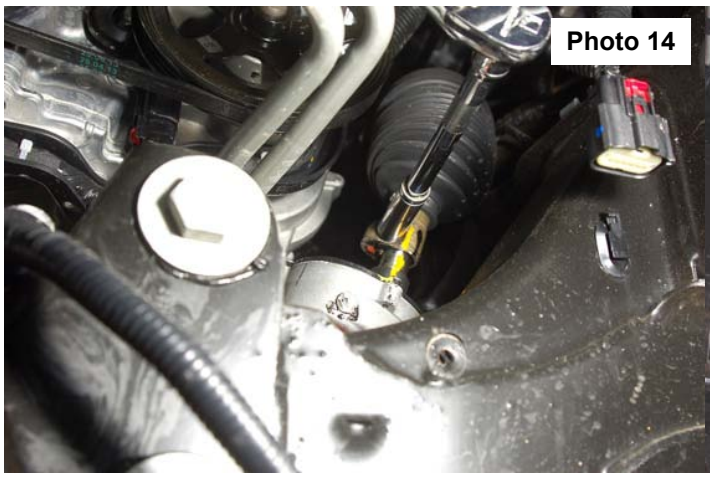

Photo 11

16. Remove the lower control arm using a 18mm wrench and a 24mm socket. **See Photo 12.**
17. Make sure the steering wheel is straight, mark the intermediate shaft and the rack and pinion as shown in **Photo 13.**



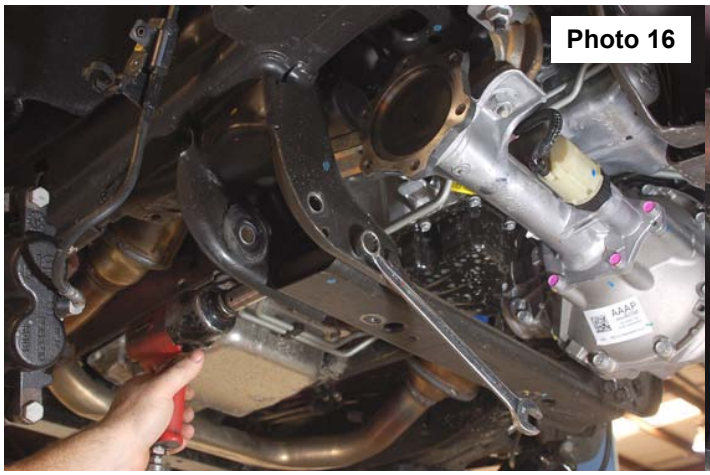


18. Using a 11mm socket, remove the bolt in the intermediate shaft. **See Photo 14.**
19. Support the rack and pinion with a jack and take good care not to hit or drop the rack. Use a 24mm socket and a 18mm socket to remove the bolts from the rack and pinion. Carefully lower rack and pinion down making sure no wires are in harms way. Place the rack and pinion in a safe secure area. **See Photo 15.**





20. Using a 18mm wrench and socket remove the factory lower rear cross-member. **See Photo 16.**
21. Using a 11mm socket remove the driveshaft from the front diff . **See Photo 17.** Unplug the actuator wire from diff. remove wire loom from diff. remove vent tube from diff.





22. Support diff. Using a 18mm socket and 21mm socket remove the bolts from diff. lower diff from truck. **See Photo 18.**
23. Mark the front and rear sides of the driver's side rear control arm pocket, measure 3 3/8" and cut rear lower control arm pocket. **See Photo 19.**

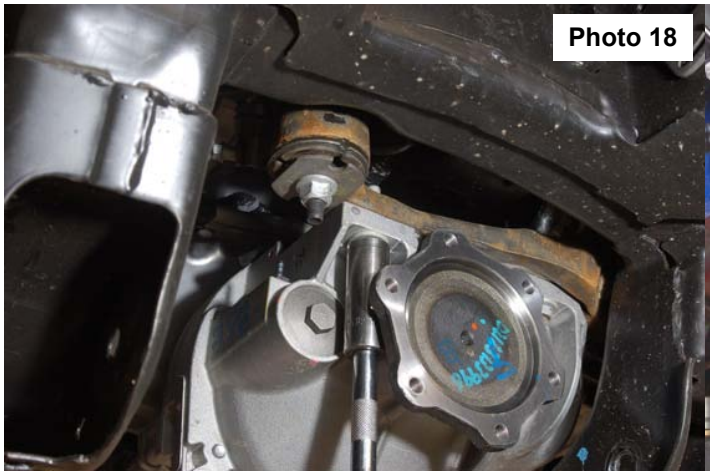


Photo 18

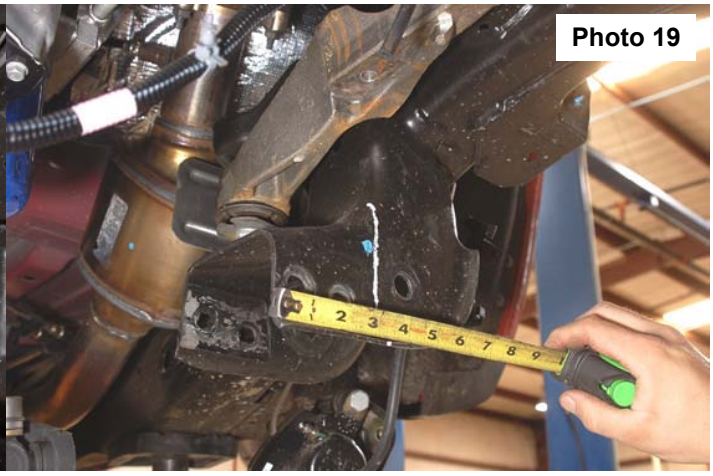


Photo 19

24. Cut and remove the skid plate bracket from the front factory cross-member. Cut the corners out of both front lower control arm pockets. **See Photo 20.**
25. Cut the upper control arm bump stop out as shown in **Photo 21.**

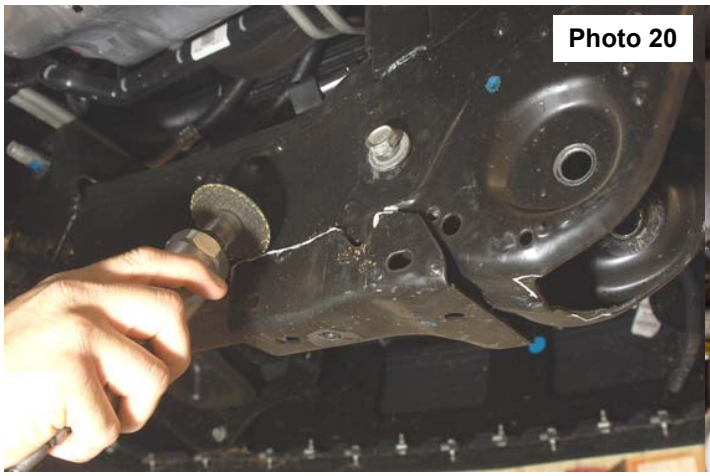


Photo 20

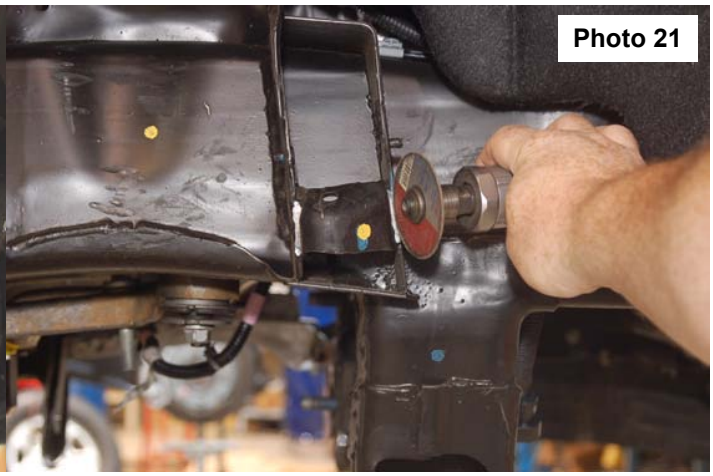


Photo 21

26. Then measure 1 5/8 from the cam bolt pin down and mark both side of the front control arm pocket this is your cut line. Cut straight back to frame then straight down against frame. Clean and paint all cut areas. **See Photo 22.**
27. Using template on passenger side of truck mark and drill the hole to a 9/16. this hole is for the rack and pinion mount. then on driver side using the template mark and cut the area using a 3 inch hole saw. **See Photo 23.**


Photo 22

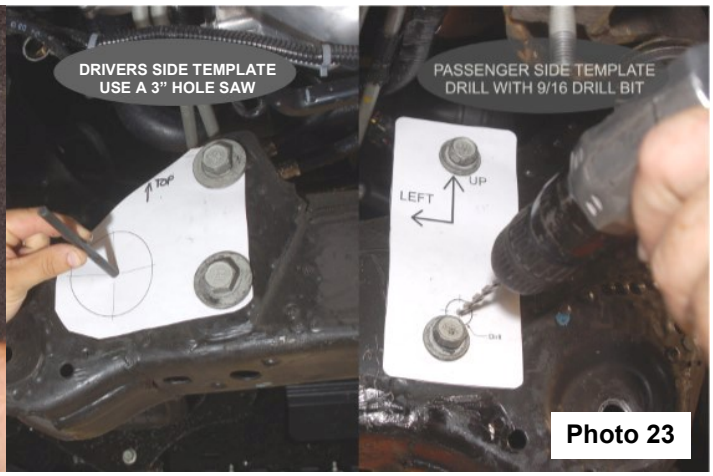


Photo 23

28. Install the hiems joint into the steering bracket and adjust the length to 3” from the back of the threaded tube to the center of the center of the ball. Use supplied set screw to lock the hiems into place. **See Photo 24.**
29. Install the 18mm x 150mm bolt, washer, and nut in the top mounting hole and factory bolt on lower hole. **See Photo 25.**

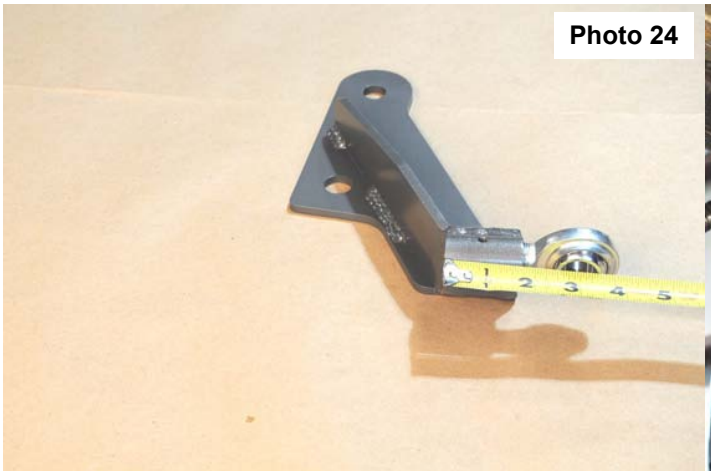


Photo 24

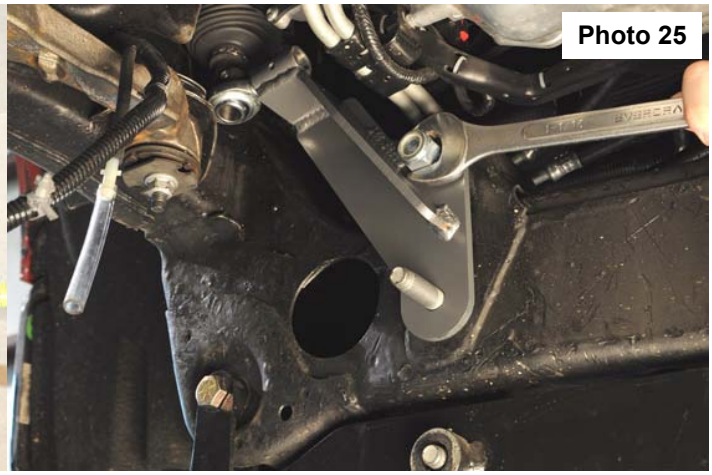


Photo 25

30. Install the steering extension through the 3/4 hiems and slide the stock steering shaft onto the steering extension. Lock into place using the factory bolt. **See Photo 26.**
31. Install both upper control arm support brackets onto upper control arm drops brackets using 3/8” x 1.25” bolt, washers, lock washers, and nuts but do not tighten at this time. **See Photo 27.**

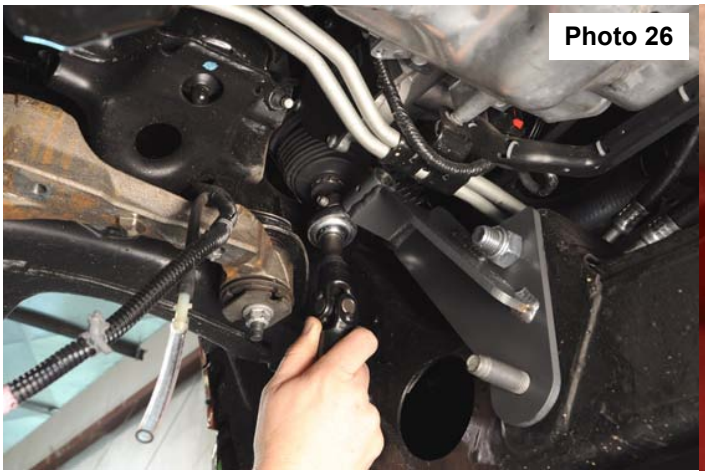


Photo 26

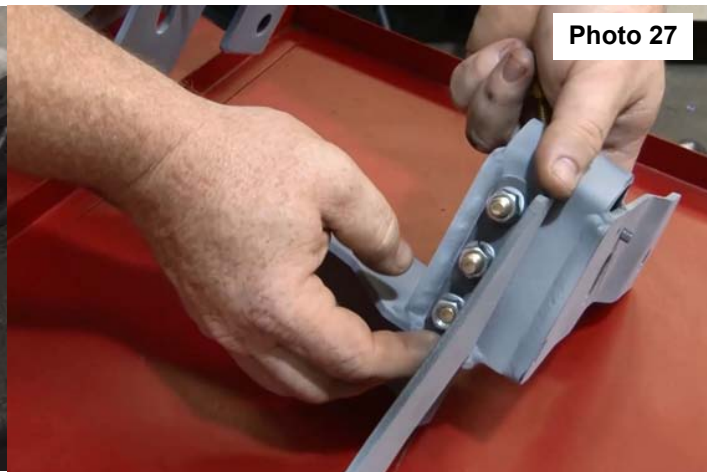


Photo 27

32. Install upper control arm drops onto truck using supplied 9/16” x 4” bolts and nuts using four cam lock washer per side with one cam lock washer with a tail on the back side for the ABS wire. **See Photo 28.**


Photo 28

33. Install the front cross-member using the supplied 5/8” x 5.0” bolts, washers, nut. **Bolts must be installed from back to front. See Photo 29.**
34. Install lower rack and pinion spacers (1290BAG12) between the rack and pinion and the crossmember, using the stock bolts on driver side and one stock and one new on passenger side 12mm x 140mm bolt and washer. **Bolts must be installed from front to back.** Slide steering extension onto rack and pinion steering stud as you are installing it. **See Photos 30 & 31.**


Photo 29

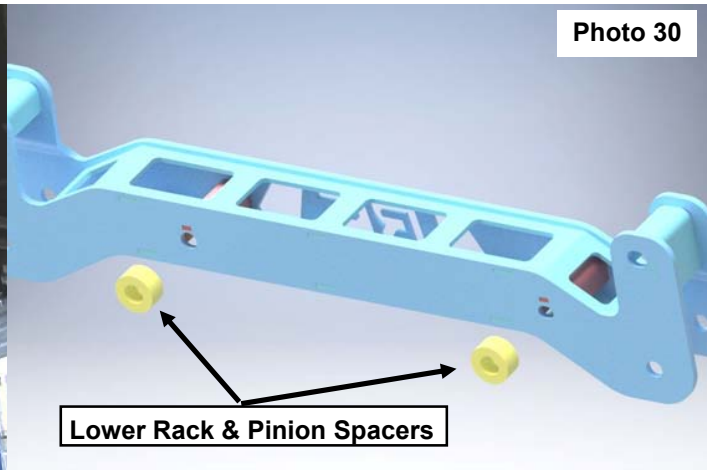


Photo 30

35. Install the upper rack and pinion shim (1290BAG9) in-between the rack and pinion and frame on the passenger side top mounting hole. Install set screw into steering extension make sure set screw goes into groove on rack and pinion shaft. Use the 5/16” jam nut on the set screw using a 13mm to tighten. Using a 18mm,19mm socket and 24 mm socket tighten rack and pinion to frame. Plug in the two connectors for rack and pinion. Tighten the bolt that connects the steering shaft to the steering extension using a 11mm socket. **See Photo 31 & 32.**


Photo 31

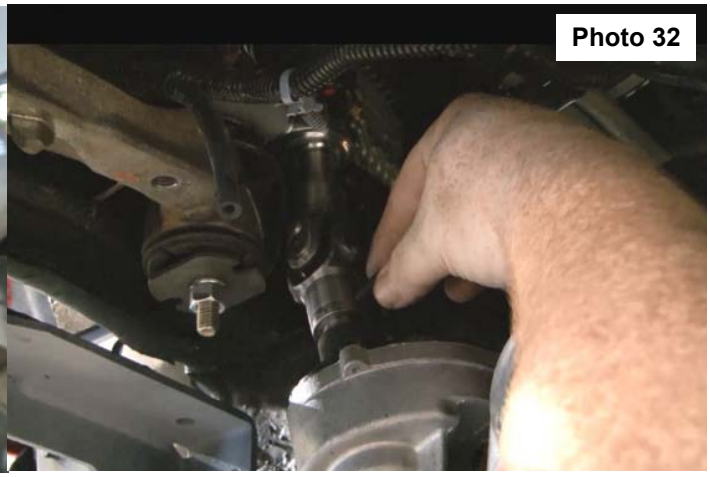


Photo 32

36. Install diff drop brackets using stock hardware on driver side and new supplied 12mm flange nut for passenger side. Use a 18mm socket or wrench to tighten. **See Photo 33 & 34.** Install diff vent extension tube into stock hose.

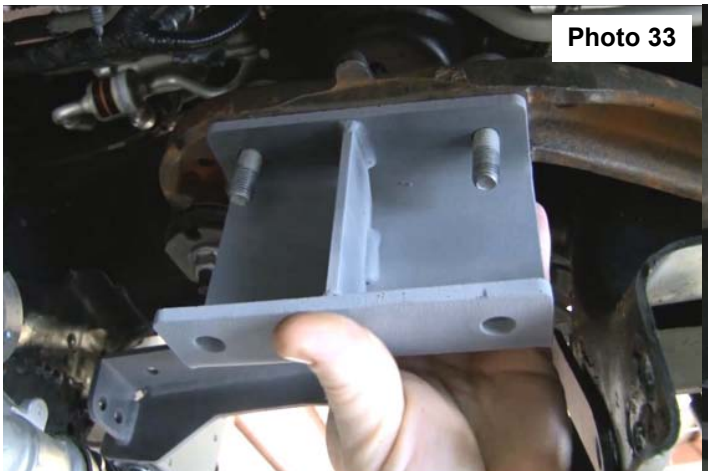


Photo 33


Photo 34

37. Install diff using new supplied 12mm x 45mm bolts and nuts. Be sure not to hit or push diff into rack and pinion. Use new bolts and nut on driver side and use new bolts with old stock nut on passenger side. Use a 18mm and 19mm socket and wrench for new bolts and a 21mm for the stock nuts. Plug in the 4x4 actuator and vent tube. **See Photo 35.**
38. Install driveshaft using stock hardware and a 11mm wrench to tighten. **See Photo 36.**

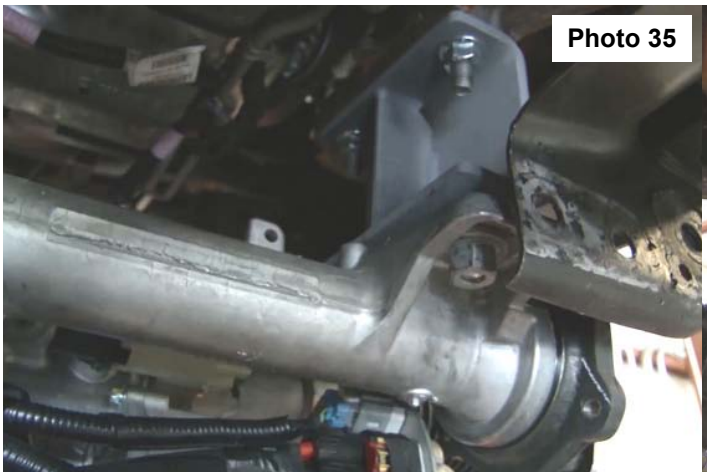


Photo 35


Photo 36

39. Install rear crossmember using new 5/8” x 5.5” bolts, washer, and nuts. Install bolts front to back of truck. **See Photo 37**
40. Install upper and lower control arms using stock bolts. **See Photo 38.** Then tighten all cross-member and upper control arm drop bolts. Use a 24mm wrench and socket on cross-member bolts. Use a 21mm and a 22mm wrench and socket on upper drops. Then use a 14mm wrench and socket to tighten all 3/8 bolts on upper control arm drop brackets.

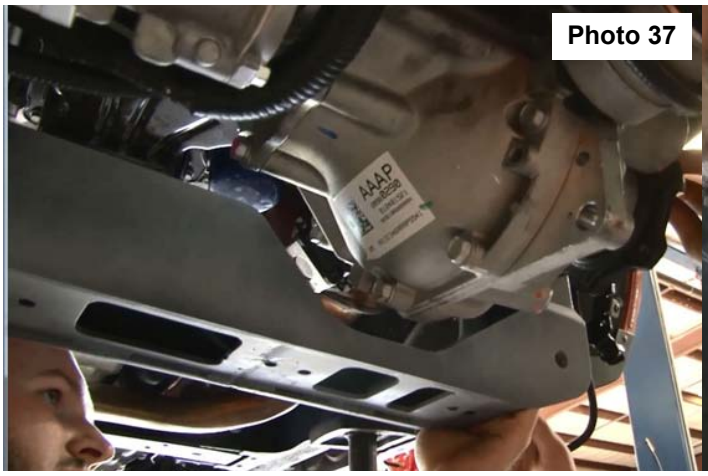


Photo 37

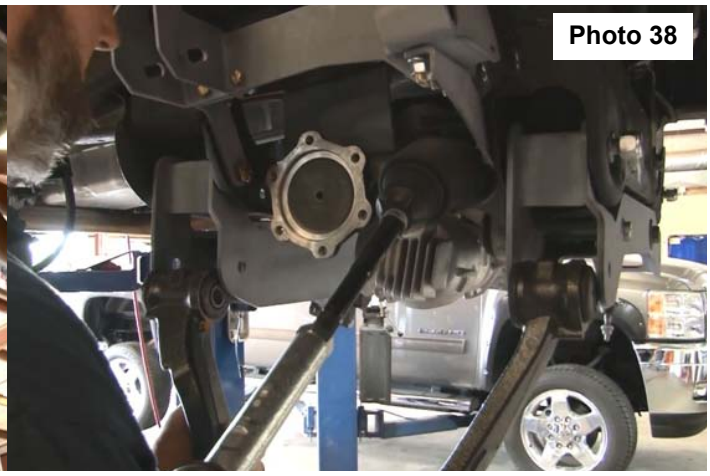


Photo 38

41. Install sway-bar drop bracket using 10mm x 35 mm bolts and washers. Tighten using 17mm wrench. **See Photo 39.** Install sway-bar using stock bolt with new 10mm nuts. **See Photo 40.** Use a 10mm socket and 17mm wrench to tighten. Install stock sway-bar link using a 15mm to tighten.

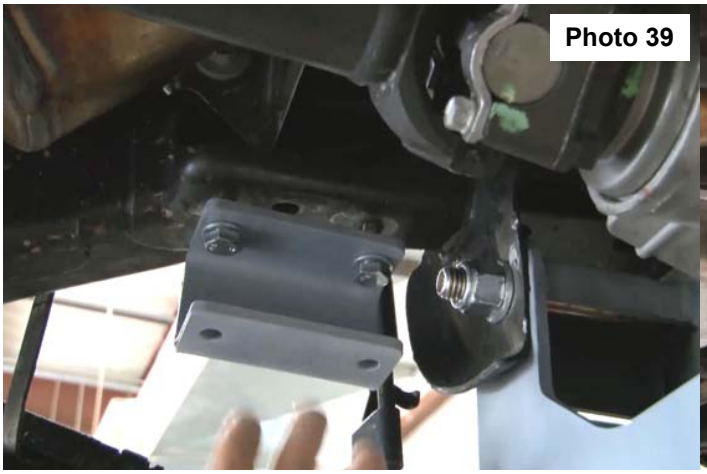


Photo 39


Photo 40

42. Install CV axle using stock hardware and a 15mm socket to tighten.
43. Install brake line bracket using the supplied 3/8” x 1” bolts, washers, and nuts. **See Photo 41.** Use a13mm wrench and socket to tighten.
44. **If installing the Rough Country lifted struts (23014 or 23015) or Vertex coilovers (680001) refer to the instructions included with the strut and skip to step 39.**
45. Using a 17mm wrench and the supplied 1/2” jam nut and 10mm hex nut, pull in the 10mm studs into the strut spacer. **See Photo 42.**


Photo 41


Photo 42
Install supplied studs in strut spacer.

46. Install the strut spacer on top of the factory strut as shown in **Photo 43** with the stock hardware. Tighten using an 18mm wrench.
47. Install the strut in the upper strut tower using the supplied 10mm nuts, washers & lock washers. Tighten using a 18mm wrench.
48. **17600 kit will install lower spacer using supplied hardware in 1307BAG1, See Photo 44.** Install the lower part of the strut in the factory location on the lower control arm with the factory hardware. Tighten using a 15mm wrench.
49. Install knuckles using stock hardware. **See Photo 45.** Use a 24mm for lower ball joint a 18mm for upper joint and a 35mm for axle nut. Install rotor and install bolt using a 30mm torx socket. Install the brake caliper using a 18mm socket for the bolts.

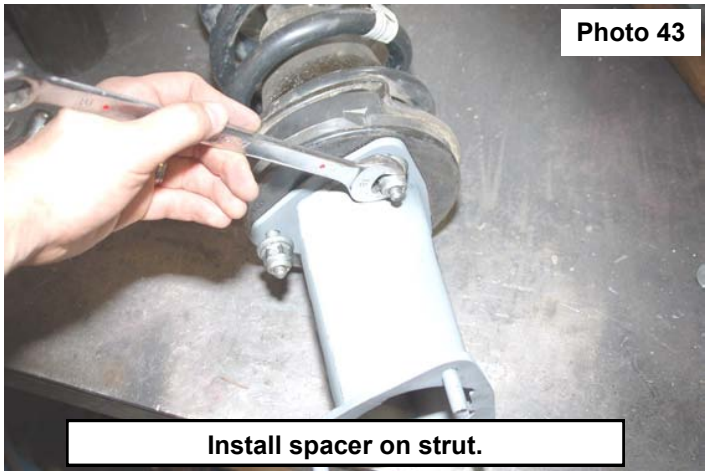


Photo 43
Install spacer on strut.

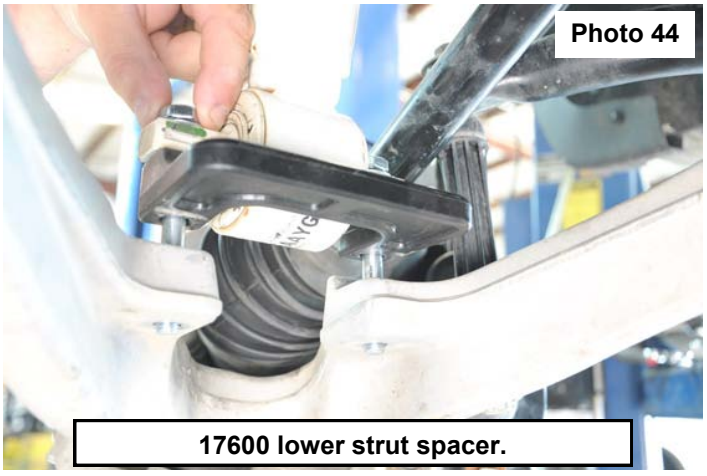


Photo 44
17600 lower strut spacer.

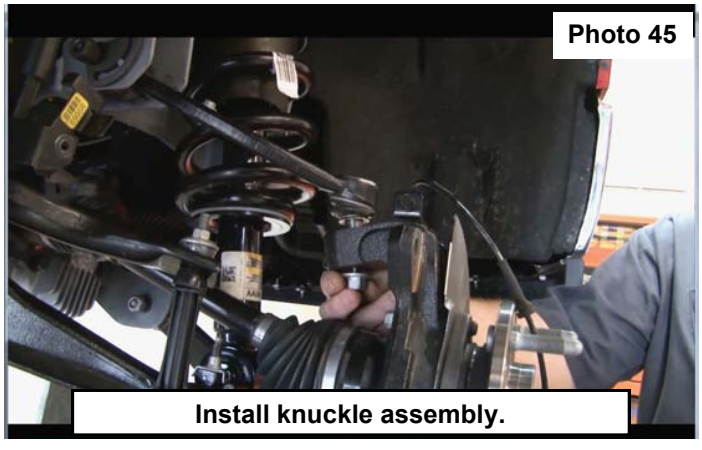


Photo 45
Install knuckle assembly.

50. **Denali and MagneRide equipped vehicles only, all others skip to next step.** Adjust the supplied MagneRide linkage to 9.625” (**5” Kits**) and 10.375” (**7” Kits**), center of stud to center of stud. Attach the linkage to the factory brackets. Tighten using a 3/8” wrench. **See Photo 46.**
51. Install stock brake line bracket to upper control arm using a 10mm socket. Install ABS wire onto the cam lock washers and plug in. **See Photo 47.** Install tie-rod using a 21mm and 10mm to tighten.

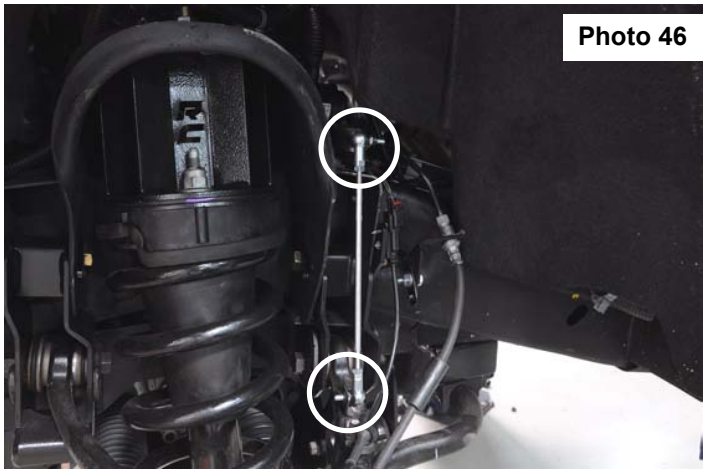


Photo 46

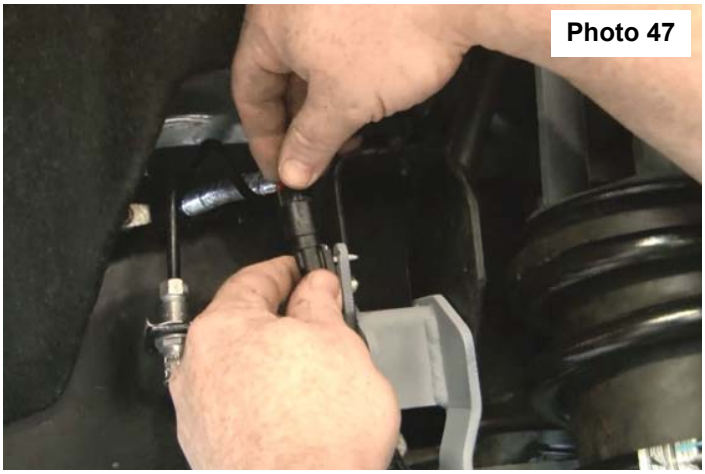


Photo 47

52. Install skid plates using supplied 3/8” x 1.25” bolts and washers. First insert the stock two bolts for upper skid plate and let the lower part hang. Install the bolts to the rear of the lower skid plate first then push the lower skid into place and overlap it with the front skid. The 3/8” bolts will go through both skids into the front crossmember. **See Photo 48.** Use a 14mm and a 15 mm socket to tighten all bolts.
53. Install wheels and tires.
54. Jack up the truck and remove the jack stands. Lower truck on ground tighten upper and lower control arm bolts using 21mm for upper and 18mm and 24mm socket and wrench for bottom.



Photo 48

REAR INSTALLATION

1. **Denali and MagneRide equipped vehicles skip to step 17 for rear installation instructions.**
2. Chock the front tires.
3. Before jacking up the rear of the vehicle. Remove the stock brake line bracket using a 13mm wrench, from the driver side frame rail to allow the extension bracket to be installed. Also remove the clip securing the hard line and wiring hardness to the top of the frame. **See Photo 1.** The stock bolts can be accessed from the side of the vehicle. Retain the stock hardware for reuse.
4. Install the brake line bracket to the new bracket with the supplied 5/16" x 3/4" bolts, nuts /washers. Reinstall the assembly in the stock location with the stock hardware using a 13mm wrench. **See Photo 2.**


Photo 1

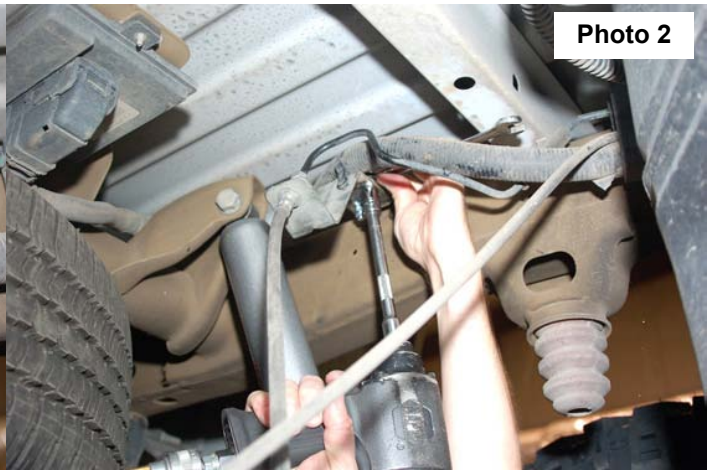


Photo 2

4. Remove the e-brake wire bracket from the frame with a 13mm socket. Use the supplied drop bracket and the factory bolt to mount to the frame. Use the supplied 5/16" x 1" bolt, washers, and nut to mount factory wire bracket to the new drop bracket as shown in **See Photo 3.**
5. Remove the ABS wire, if equipped, from the frame rail as shown in **Photo 4** to allow slack in the line.


Photo 3


Photo 4

6. Jack up the rear of the vehicle and place jack stands under the frame rails. Remove tire and wheels.
7. Lightly support the differential with a floor jack .
8. Remove the stock shock absorbers using a 21mm wrench. Retain the hardware for reuse.
9. Remove the stock u-bolts and lower the axle to allow the supplied block to be installed. Discard the factory block if so equipped.
10. Install the new block with the supplied 7/16" X 3" u-bolts (**7" kits only**) on the leaf spring. Do not tighten at this time. Jack up the axle to meet the new block and make sure the center pin is in the axle. Tighten 7/16" u-bolts.(**7" kits only**) **See Photo 5. Note short side of block goes towards front of vehicle.**
11. Install the supplied 9/16" u-bolts and tighten using a 22mm wrench and a crossing pattern. **See Photo 5.**

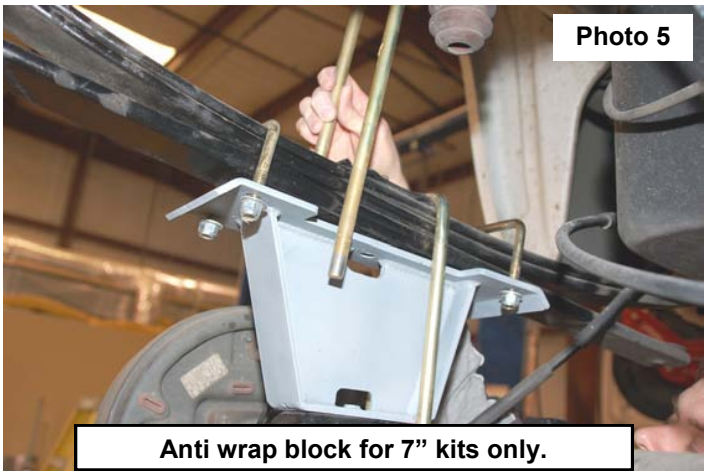


Photo 5

Anti wrap block for 7" kits only.

12. Install the supplied shock absorbers in the factory location using the factory hardware. Tighten using a 21mm wrench. **If installing V2 rear shocks or Vertex rear shocks, refer to installation instructions included with those shocks. See Photo 6.**
13. Using WD-40 lubricate the ABS wire and slide the rubber sleeve up to allow the wire to be reinstalled in the clip on the frame. The connector will not be reattached to the top of the frame. Reroute the lines as needed to gain sufficient slack.
14. Re-install tires and wheels.
15. Remove jack stands and lower vehicle to ground.
16. Place shock decals on shock absorbers and window decal on vehicle.


Photo 6

DENALI & MAGNERIDE EQUIPPED REAR INSTALLATION

17. Chock the front tires.
18. Before jacking up the rear of the vehicle. Remove the stock brake line bracket using a 13mm wrench, from the driver side frame rail to allow the extension bracket to be installed. Also remove the clip securing the hard line and wiring hardness to the top of the frame. **See Photo 7.** The stock bolts can be accessed from the side of the vehicle. Retain the stock hardware for reuse.
19. Install the brake line bracket to the new bracket with the supplied 5/16" x 3/4" bolts, nuts /washers. Reinstall the assembly in the stock location with the stock hardware using a 13mm wrench. **See Photo 8.**



Photo 7

Remove rear brake line bracket.

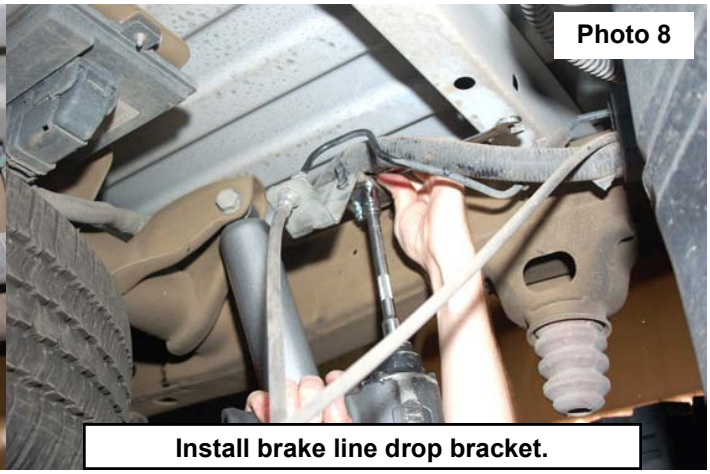


Photo 8

Install brake line drop bracket.

20. Remove the e-brake wire bracket from the frame with a 13mm socket. Use the supplied drop bracket and the factory bolt to mount to the frame. Use the supplied 5/16" x 1" bolt, washers, and nut to mount factory wire bracket to the new drop bracket as shown in **See Photo 9.**
21. Remove the ABS wire, if equipped, from the frame rail as shown in **Photo 10** to allow slack in the line.

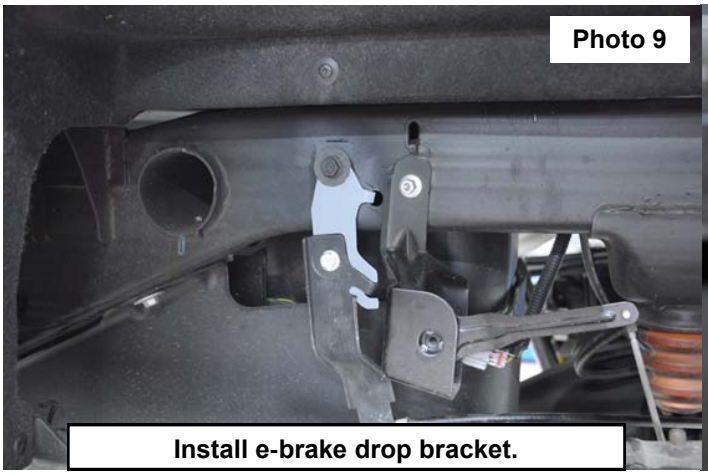


Photo 9

Install e-brake drop bracket.

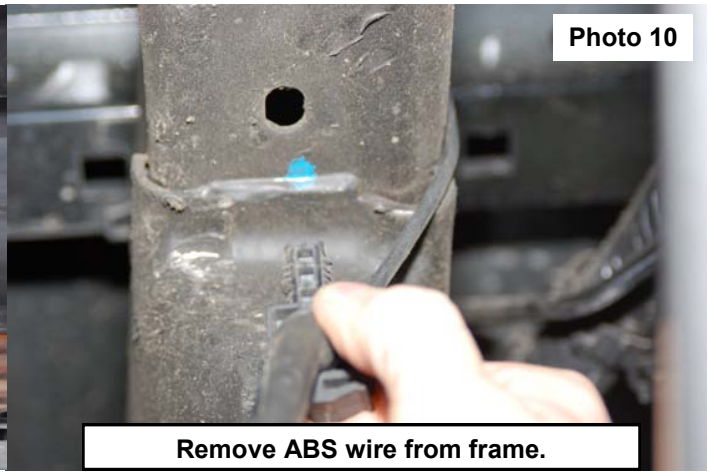
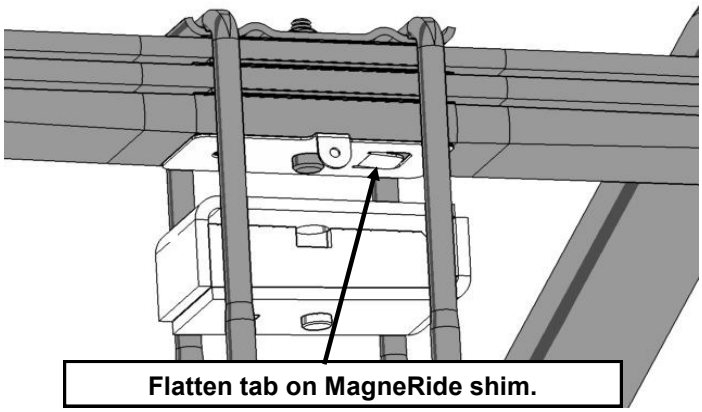


Photo 10

Remove ABS wire from frame.

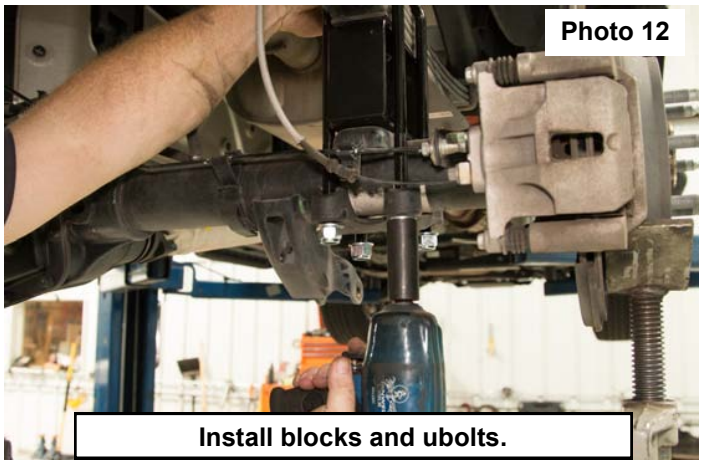
22. Jack up the rear of the vehicle and place jack stands under the frame rails. Remove tire and wheels.
23. Lightly support the differential with a floor jack .
24. Remove the stock shock absorbers using a 21mm wrench. Retain the hardware for reuse.
25. Remove the stock u-bolts and lower the axle to allow the supplied block to be installed. Discard the factory block if so equipped.
26. Remove the MagneRide shim and flatten tab. Reinstall on bottom of leaf pack. **See Photo 11.**

Photo 11

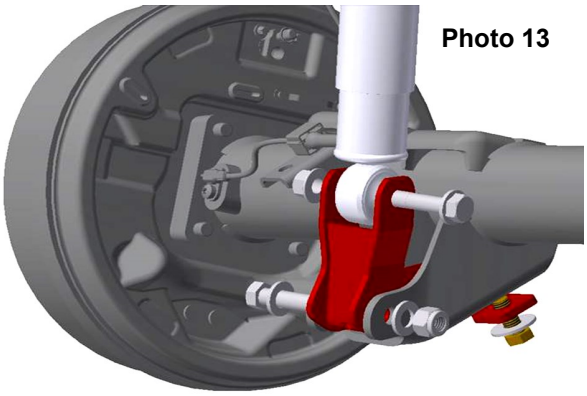


Flatten tab on MagneRide shim.

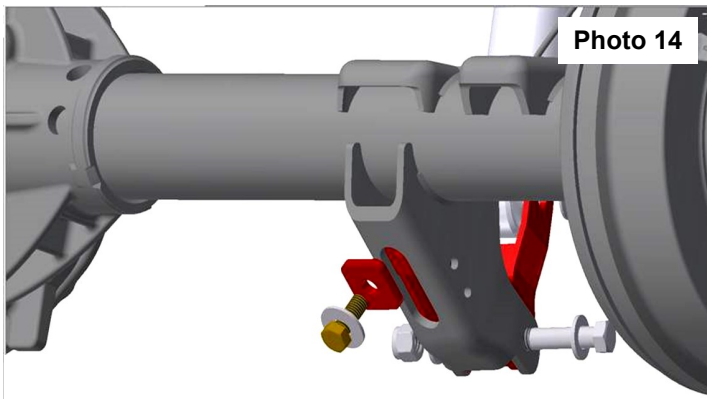
27. Install the new block. Jack up the axle to meet the new block and make sure the center pin is in the axle. **See Photo 12. Note short side of block goes towards front of vehicle.**
28. Install the supplied u-bolts and tighten using a 22mm wrench and a crossing pattern. **See Photo 12.**
29. Use the anti-wrap ubolts and hardware included in 1263BAG2.
30. Install the Magneride shock relocation brackets in the factory shock mounts using the supplied 14mm x 85mm bolt, nut and washers. **See Photo 13.**
31. Attach the rear of the relocation bracket using the supplied square washer and 1/2" x 1.5" bolt and washer. **See Photo 14.**
32. Install Magneride shock in relocation bracket using stock hardware.
33. Using WD-40 lubricate the ABS wire and slide the rubber sleeve up to allow the wire to be reinstalled in the clip on the frame. The connector will not be reattached to the top of the frame. Reroute the lines as needed to gain sufficient slack.
34. Re-install tires and wheels.



Install blocks and ubolts.



Install Magneride shock relocation brackets.



Install Magneride shock relocation brackets.

11. Remove jack stands and lower vehicle to ground.
12. Place window decal on vehicle.

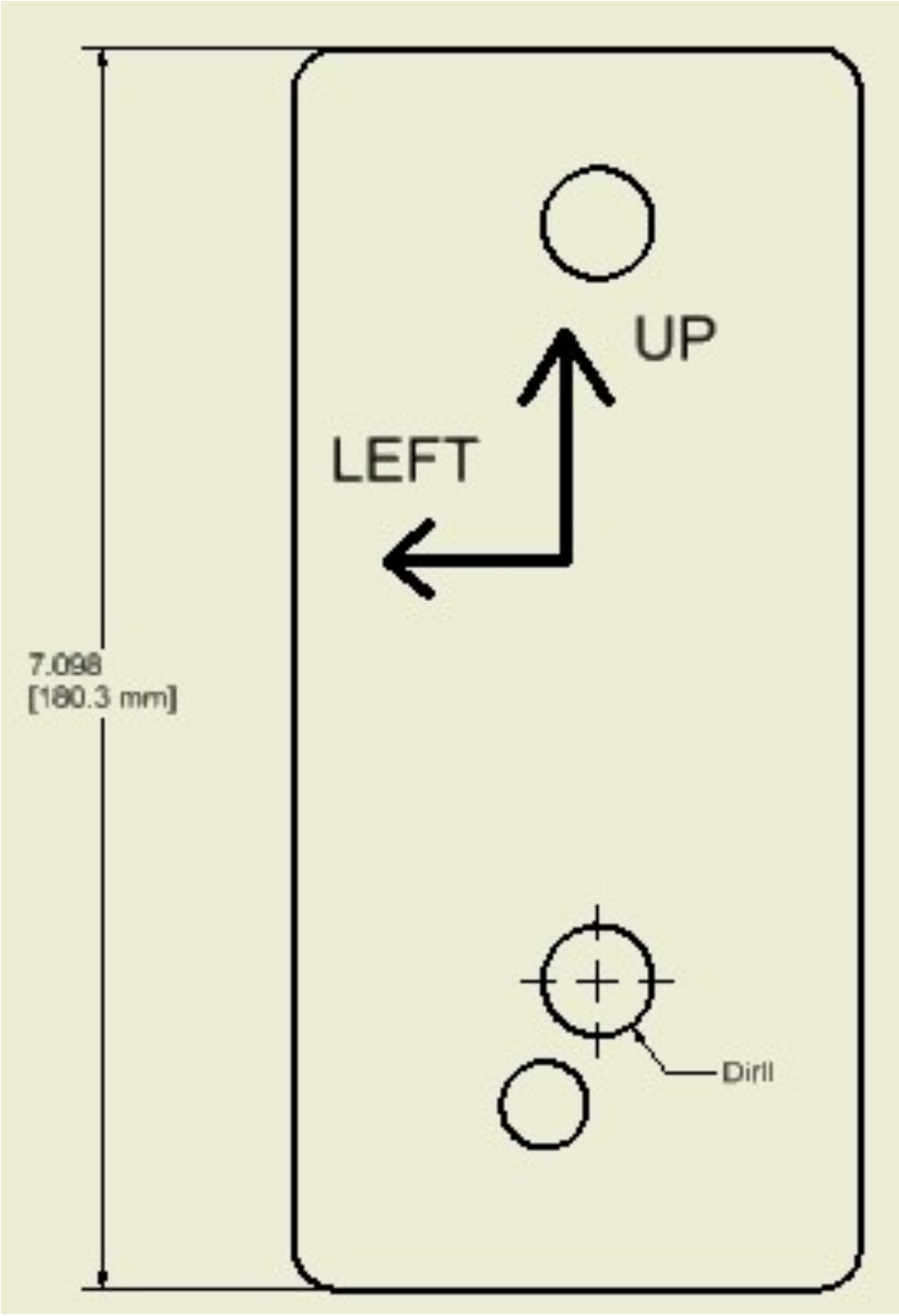
POST INSTALLATION INSTRUCTIONS

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. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. 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.
4. Activate four wheel drive system and check front hubs for engagement.
5. Have a qualified alignment center align the vehicle immediately. Realign to factory specifications. The following are the recommended specifications:

Caster in degrees	4.5 +-1.0
Camber in degrees	0.0—.3
Toe In in degrees	0.1 +-.2

6. Perform head light check and adjustment to proper settings.
7. Check and retighten wheels at 50 miles and again at 500 miles.
8. All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check all hardware for tightness.
9. Install "Warning to Driver" decal on sun visor

trailfortress.com/rough-country-5-inch-lift-kit-29130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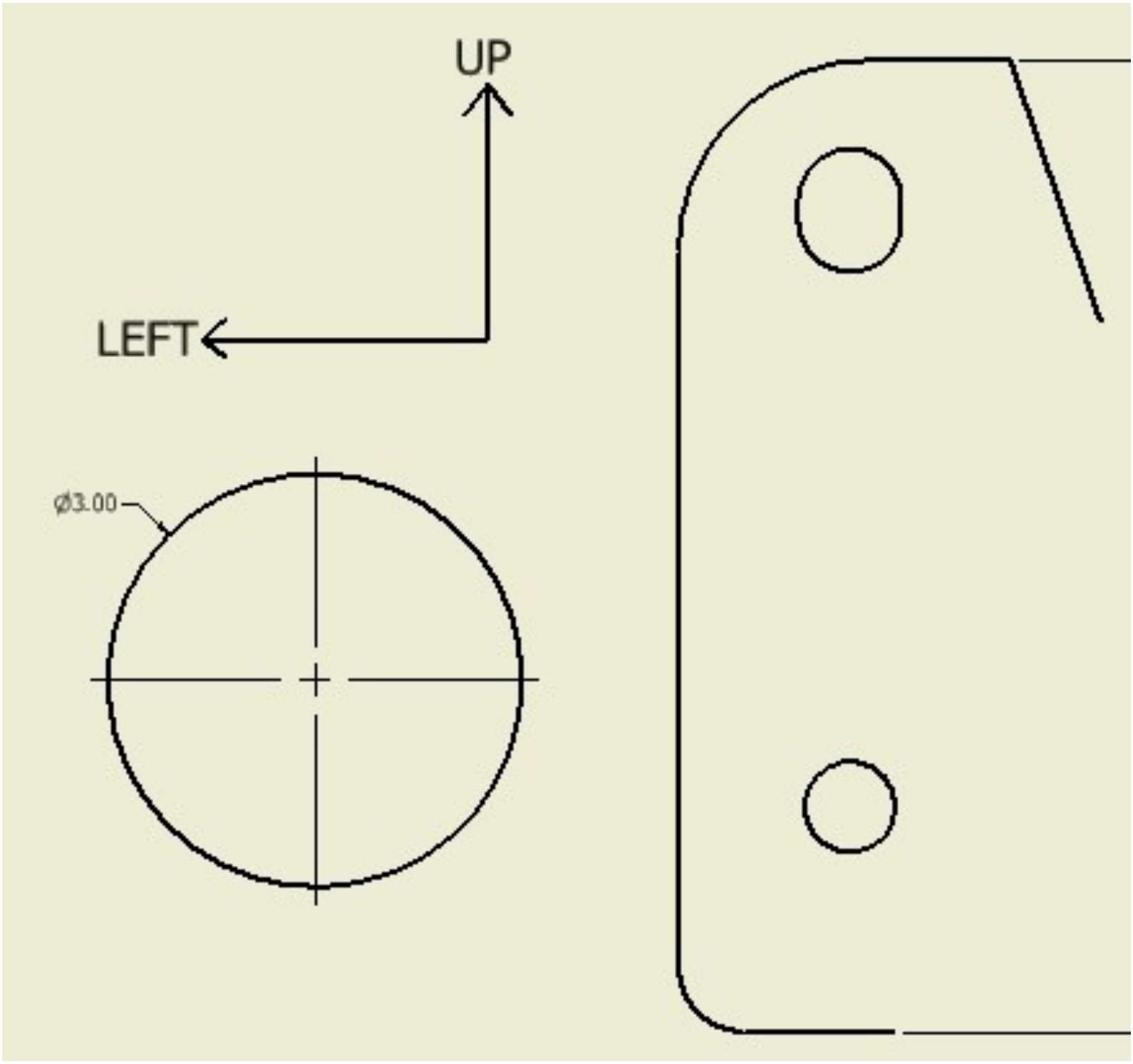
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By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable , State, and Local laws and regulations regarding the purchase, ownership, and use of the item. It shall be the buyers 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.