TRAIL FORTRESS

BUILT FOR THE TRAIL. CHECKED FOR YOUR TRUCK.

Rough Country 11230 Installation Instructions

2-Inch Lift Kit with N3 Struts for Tahoe, Suburban, Yukon

Part number: 11230

trailfortress.com/2-inch-lift-kit-tahoe-suburban-yukon-rough-country-11230

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

CHEVY 2021 Tahoe/Suburban 2” Lift Kit

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

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

Please read instructions before beginning installation. Check the kit hardware against the parts list on this 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 285/55R20, tire with factory 20” wheels. **Note** if wider tires are used, offset wheels will be required and trimming will be required.

⚠NOTICE If equipped 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.

If you have any questions concerning the design, function, and correct use of our products please contact us at 800-222-7023.

⚠NOTICE NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Rough Country product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics.

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

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

Kit Contents

1 - 1323BAG
- 6 - *10MM-1.5x40MM Bolts*
- 2 - *10MM-1.5x65MM Bolts*
- 14 - *10MM-1.5 Lock Nuts*
- 16 - *10MM Flat Washer*

1 - Instruction Sheet

2 - Front Spacers

2 - Front Spacer Bolt Retaining Plates

2 - Rear Spacers

1 - 10MMSTUDBAG-2
- *1 - 1/2" Jam Nut*
- *1 - 10MM-1.25 Hex Nut*
- *6 - 10MM-1.25 Strut Spacer Stud*
- *6 - 10MM-1.25 Flange Nut*

1 - 11200BAG
- *6 - 10MM-1.5 Lock Nut*
- *6 - 10MM Flat Washers*

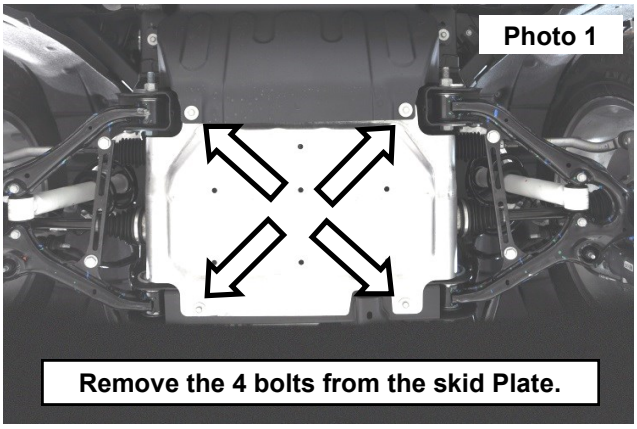
1 - 743BAG1
- *6 - 10MM-1.5x40MM Bolts*
- *6 - 10MM-1.5 Lock Nuts*
- *6 - 10MM Flat Washer*

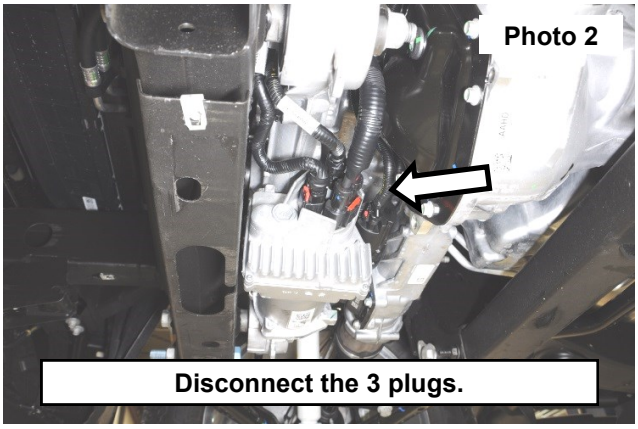
Tools Needed:
10mm Wrench or Socket
13mm Socket
15mm Wrench or Socket
17mm Socket
18mm Socket
21mm Socket
36mm Socket
Paint Pen
Strut Compressor
Cut Off Wheel
Tape Measure



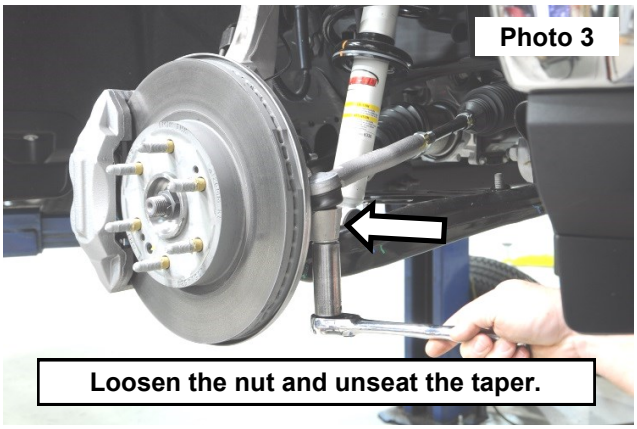
FRONT INSTALLATION INSTRUCTONS

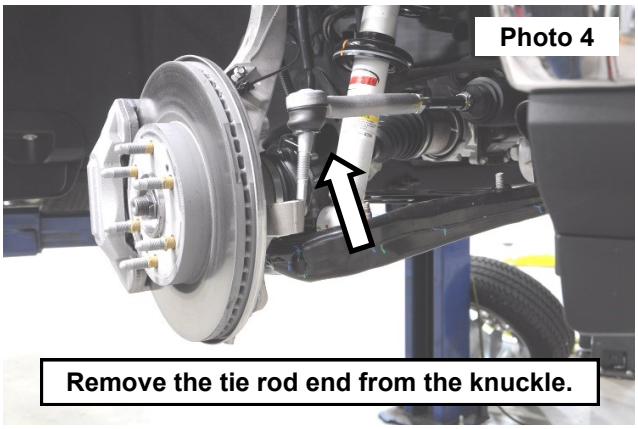
1. Place vehicle in park and chock the rear wheels. Raise the front of the vehicle with a jack and secure a jack stand beneath each frame rail behind the front control arms. Ease the frame down onto the stands.
2. Remove the front tires/and wheels using a 21mm deep well socket.
3. Remove the 4 bolts and remove the skid plate, set aside. Use a 13mm socket. **See Photo 1.** Retain hardware for reuse.
4. Disconnect the 3 plugs at the power steering rack. **See Photo 2.**



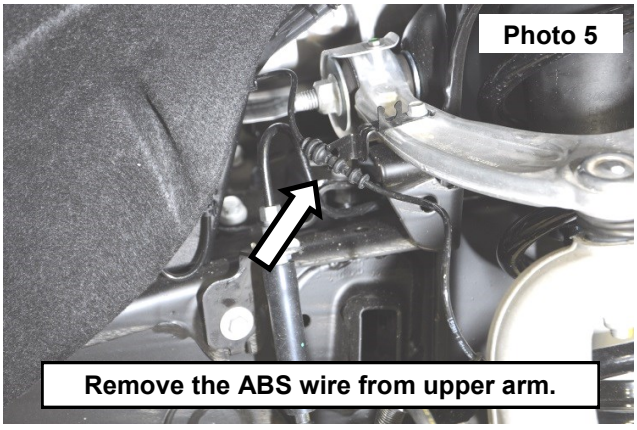


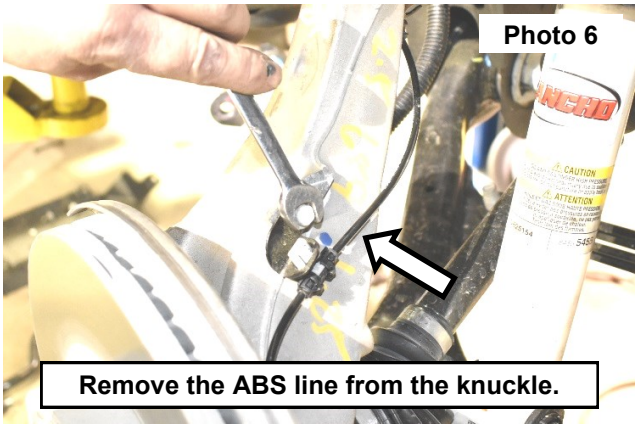
5. Loosen the tie rod end nut using a 21mm socket. Use a hammer to unseat the taper by striking only the front of the knuckle. **See Photo 3.**
6. Remove the nut and the tie rod end from the knuckle. **See Photo 4.**



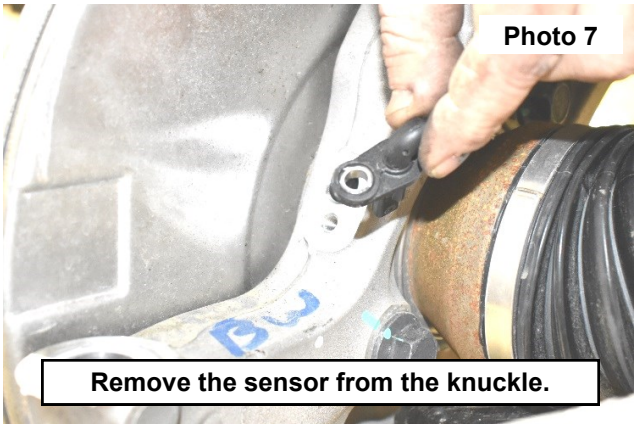


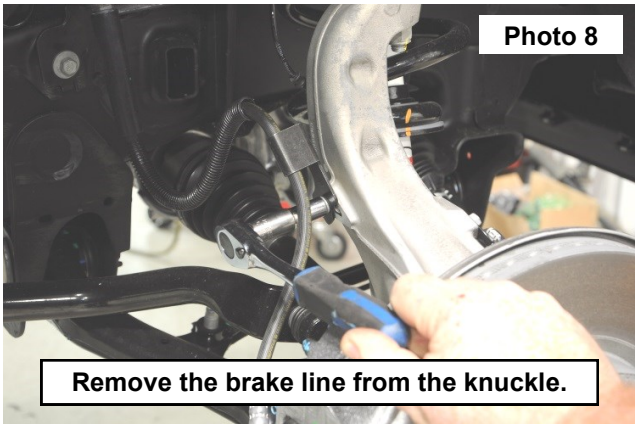
7. Remove the ABS line from the mount on the arm. **See Photo 5.**
8. Remove the ABS line from the knuckle using a 10mm wrench. Retain hard ware for reuse. **See Photo 6.**



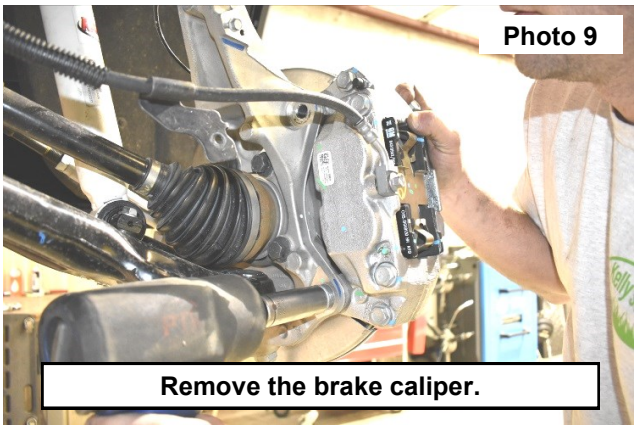


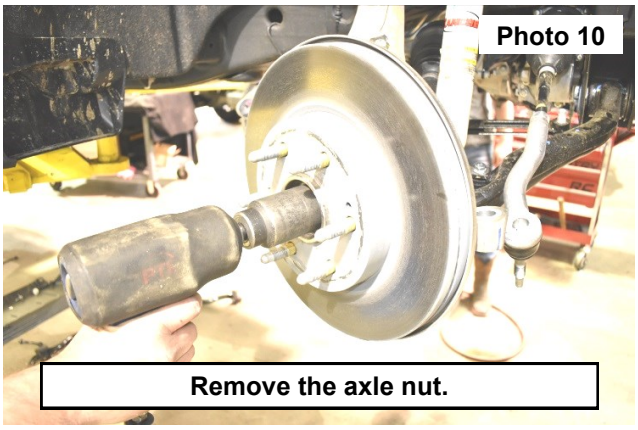
9. Remove the ABS sensor from the knuckle using a 10mm wrench. Retain hard ware for reuse. **See Photo 7.**
10. Remove the brake line from the knuckle using a 10mm socket. Retain hardware for reuse. **See Photo 8.**



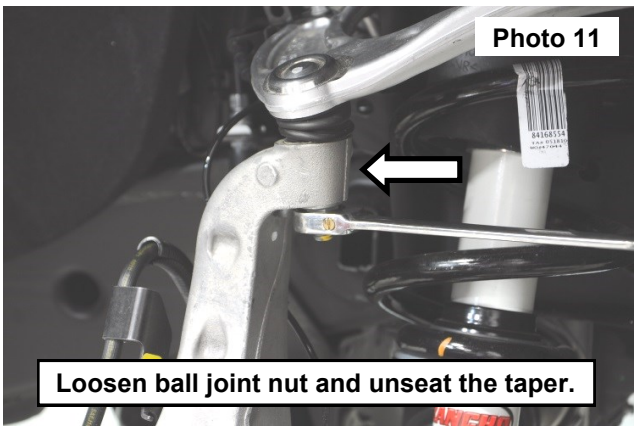


11. Remove the brake caliper using a 18mm socket. Retain the bolts for reuse. **See Photo 9.** Hang caliper out of harms way. Do not hang by the brake line.
12. Remove the axle nut using a 36mm socket. Retain nut for reuse. **See Photo 10.**



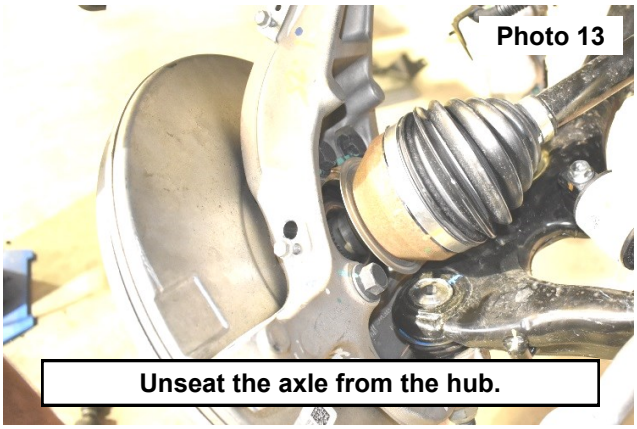


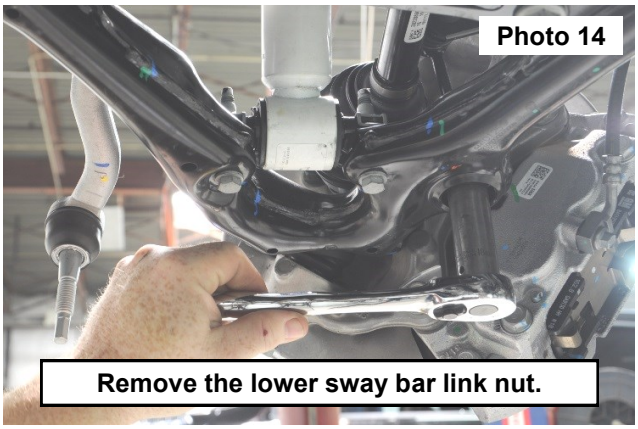
13. Loosen the upper ball joint nut using a 18mm socket. Use a hammer to unseat the taper by striking only the front of the knuckle. **See Photo 11.**
14. Support the lower control arm then remove the nut then remove the upper ball joint from the knuckle. **See Photo 12.**



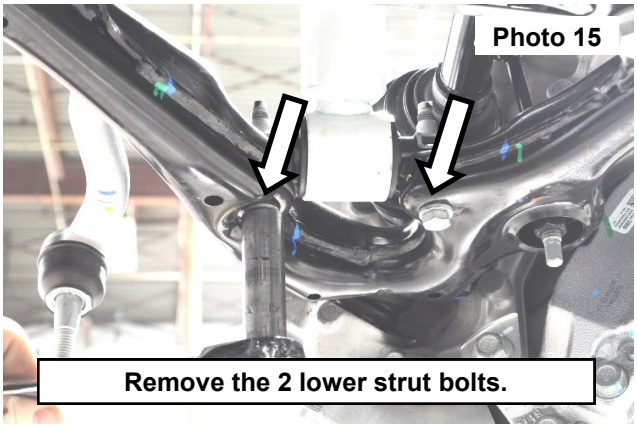


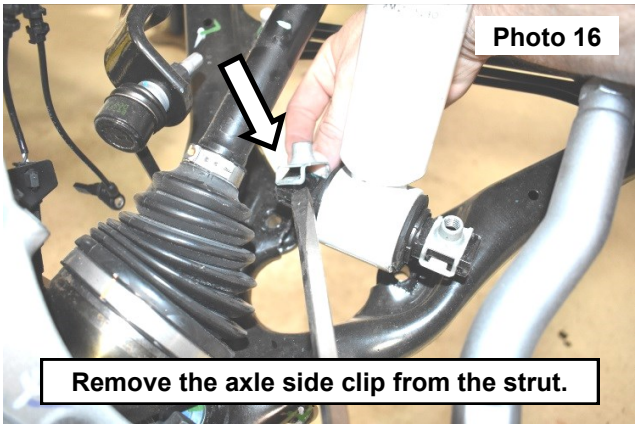
15. Unseat the axle from the hub when leaning the knuckle back. Take care not to over extend or damage the axle or the axle boot. **See Photo 13.**
16. Using an 18mm socket remove the nut from the lower sway bar link nut. **See Photo 14.**



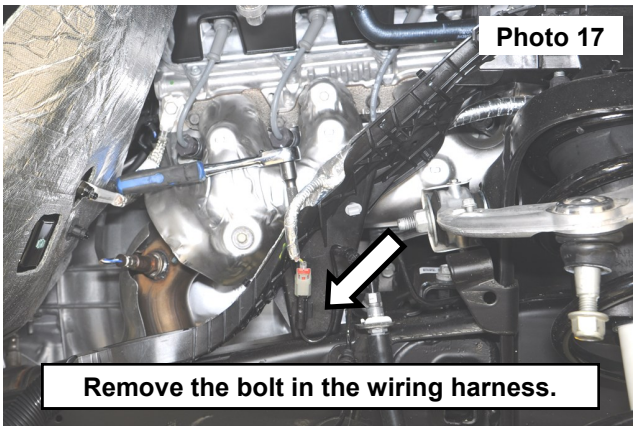


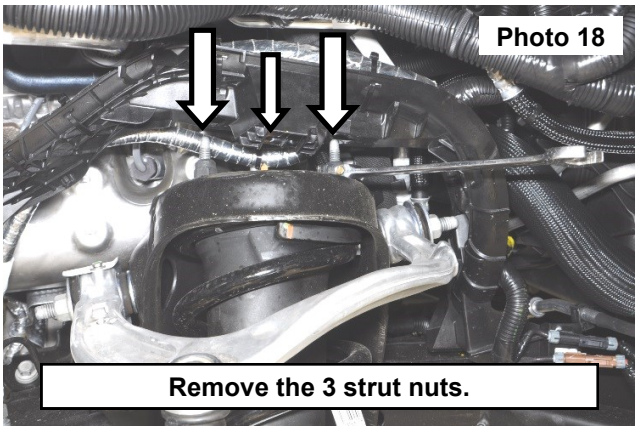
17. Remove the 2 lower strut bolts using a 15mm socket. **See Photo 15.**
18. Using a small pry bar remove the axle side clip from the lower strut. **See Photo 16.**



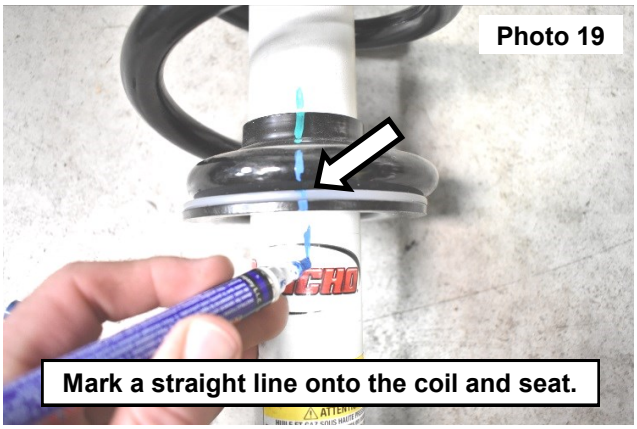


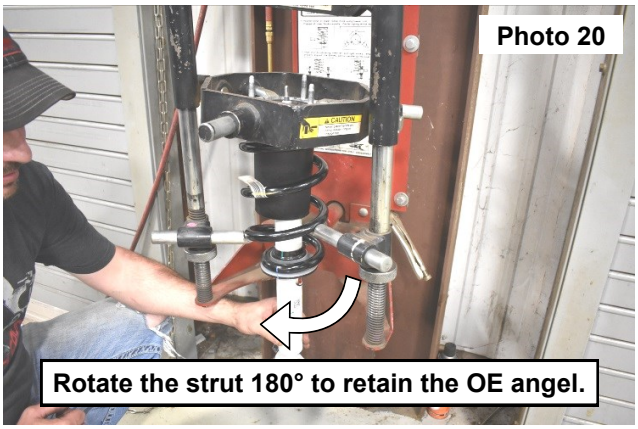
19. (Shown with the inner liner removed) Using a 10mm socket remove the bolt securing the wiring harness to the frame. **See Photo 17.**
20. Remove the 3 nuts from the top of the strut using an 18mm wrench then remove the strut. **See Photo 18.**



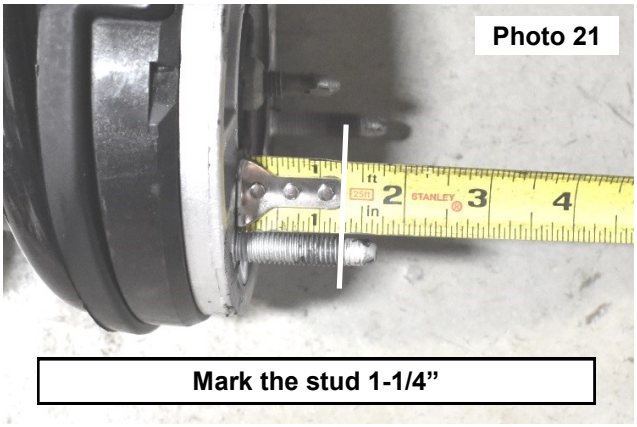


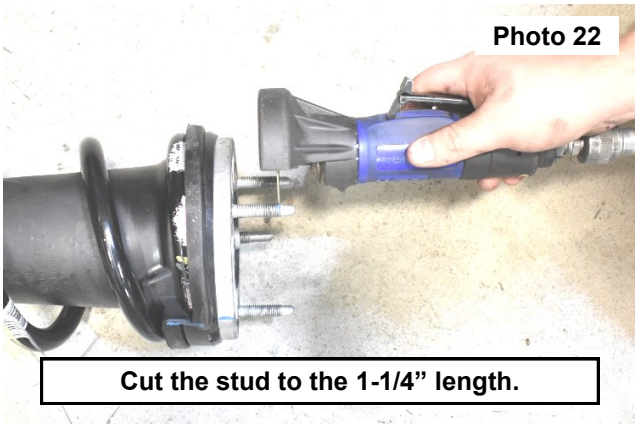
21. Mark the strut at the coil and the coil spring seat. **See Photo 19.**
22. Place the strut in a spring compressor to rotate the strut 180° to retain the OE barpin angle. **See Photo 20.**



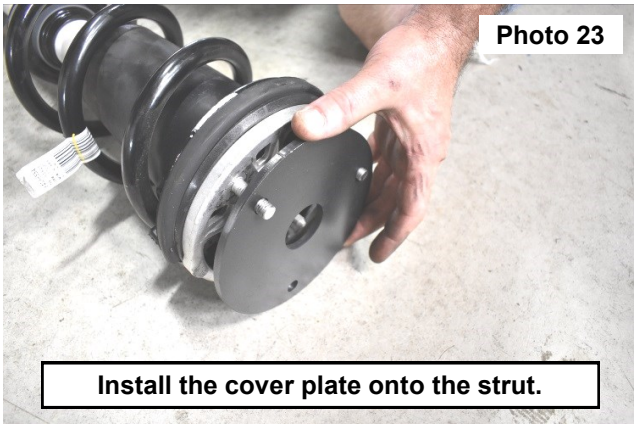


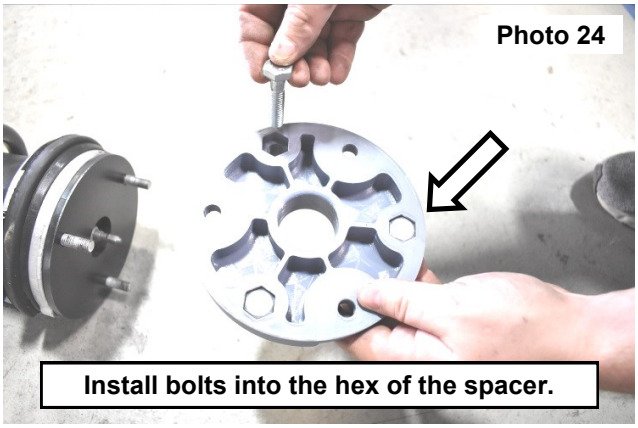
23. Mark the (3) studs on the top of the strut to 1-1/4". **See Photo 21.**
24. Use a cut off wheel to cut the top of the 3 studs off. **See Photo 22.**



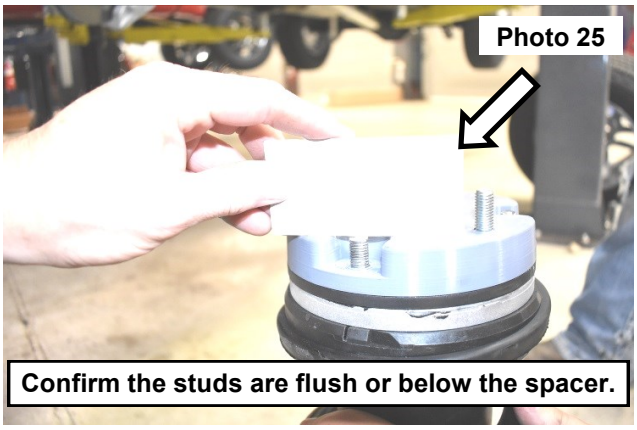


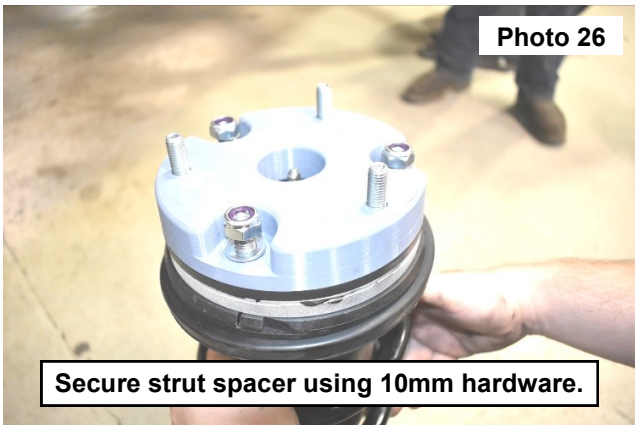
25. Install the cover plate onto the top of the strut. **See Photo 23.**
26. Install (3) of the supplied 10mm-1.50 x 40mm Hex Head Bolts into the bottom of the strut spacer. Seat the bolt head into the hex of the spacer. **See Photo 24.**



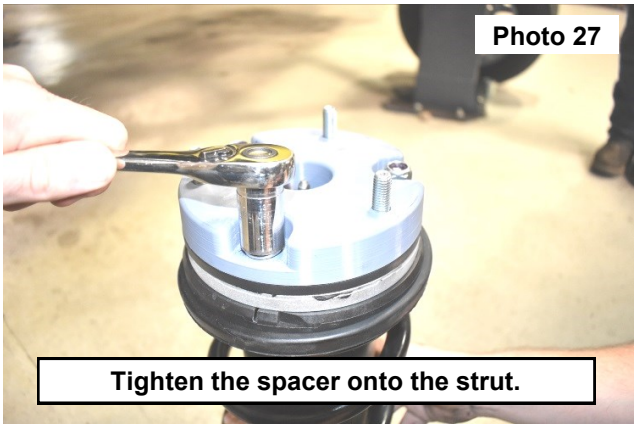


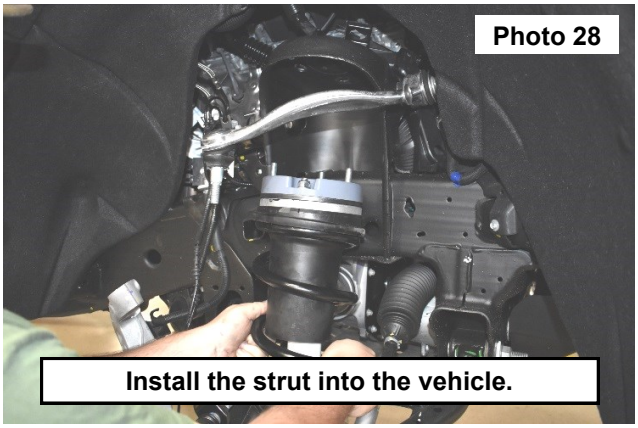
27. Use a straight edge to confirm that the studs are flush or just below the top of the spacer installed onto the strut. **See Photo 25.**
28. Secure the strut spacer using (3) of the supplied 10mm flat washers and (3) 10mm-1.50 nylock nuts. **See Photo 26.**



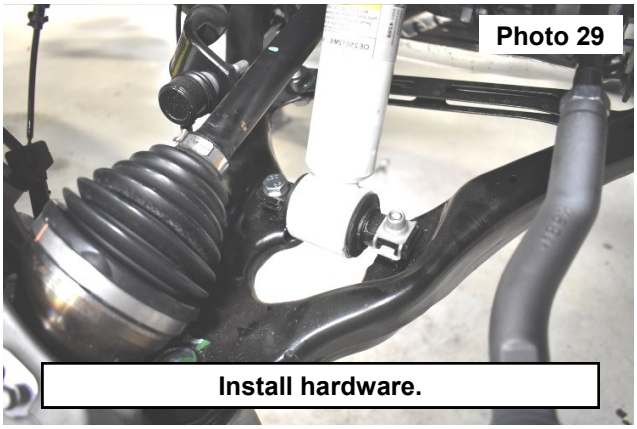


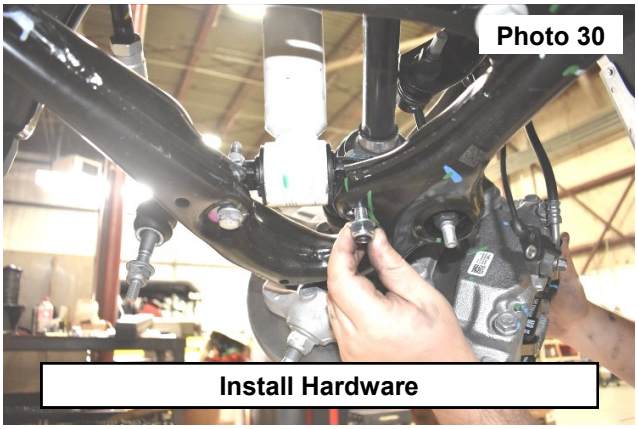
29. Tighten the upper strut nuts using a 17mm socket. **See Photo 27.**
30. Install the strut into the upper mount of the vehicle and secure using (3) of the supplied 10mm flat washers and (3) 10mm-1.50 nylock nuts. **See Photo 28.** Do not tighten at this time.



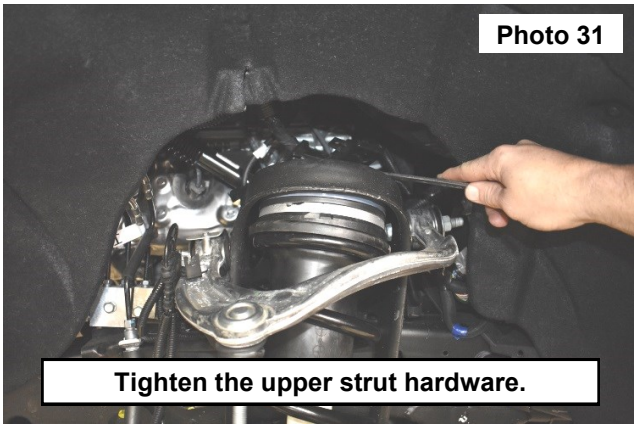


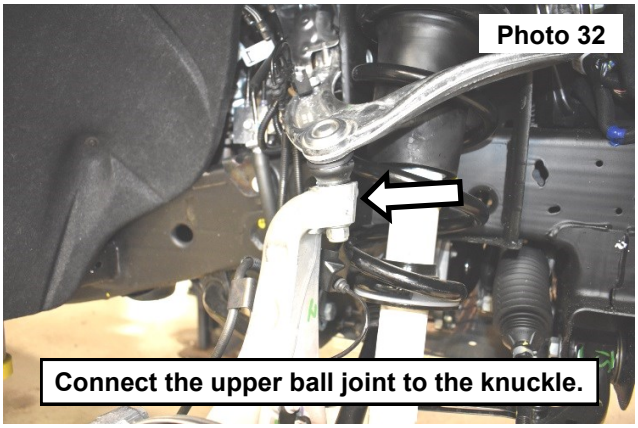
31. Secure the lower strut using the OE bolt in the front side using the clip on the strut. Under the axle install (1) of the supplied 10mm-1.50 x 65mm hex head bolts, (2) 10mm flat washers and (1) 10mm-1.5 nylock nuts. **See Photos 29 and 30.** Tighten the OE bolt using a 15mm socket, tighten the 10mm hardware using a 17mm wrench and socket.



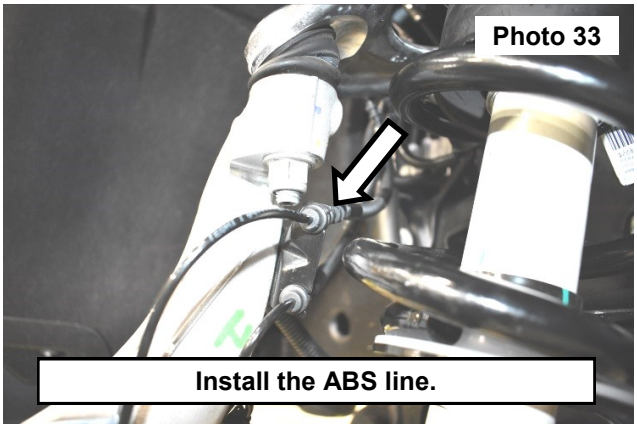


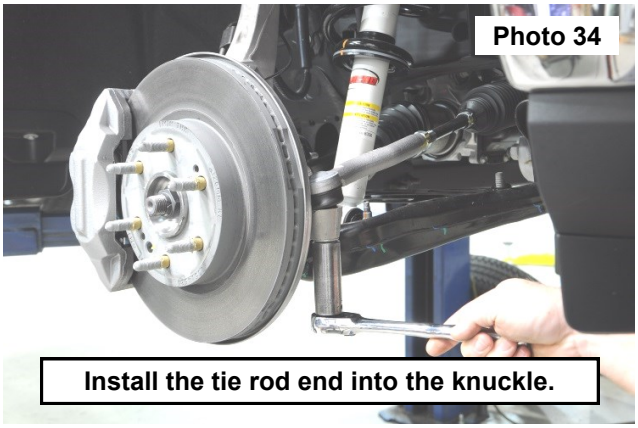
32. Tighten the upper strut mount using a 17mm wrench, **Do not exceeded 30ft/lbs of torque when tightening**. Then securing the wiring harness to the frame using the retained bolt tighten using a 10mm socket. **See Photo 31.**
33. Seat the axle in the hub. Then connect the upper ball joint to the knuckle, tighten using a 18mm. **See Photo 32.**



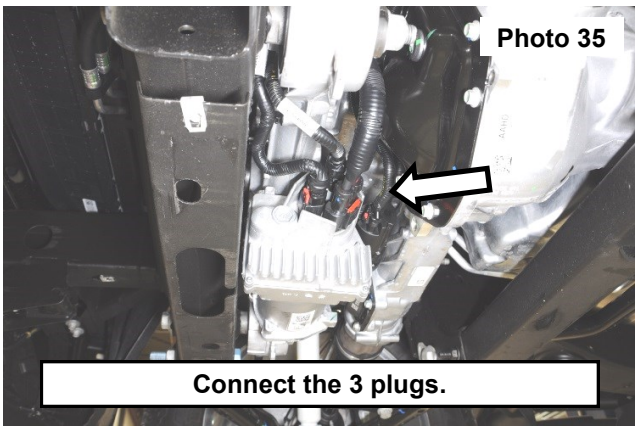


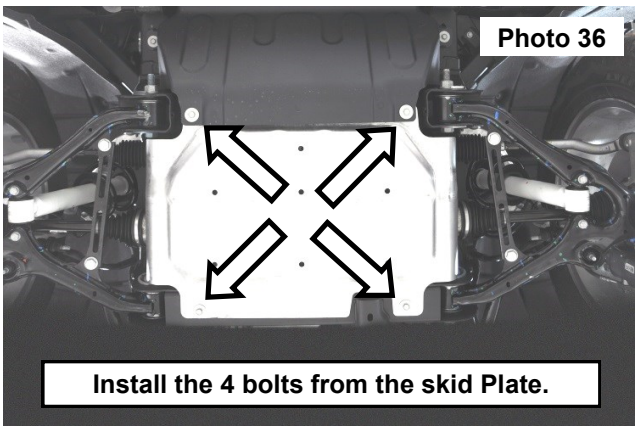
34. Install the ABS sensor into the knuckle and on top of the upper control arm.
35. If removed install the ABS line into the bracket. Turn the bracket flush with the knuckle away from the coil spring when turned full lock. **See Photo 33.**
36. Install the axle nut using retained hardware.
37. Connect the tie rod end to the knuckle and tighten using a 21mm socket. **See Photo 34.**





38. Connect the 3 plugs at the power steering rack. **See Photo 35.**
39. Install the 4 bolts in the skid plate. Tighten using a 13mm socket. **See Photo 36.**



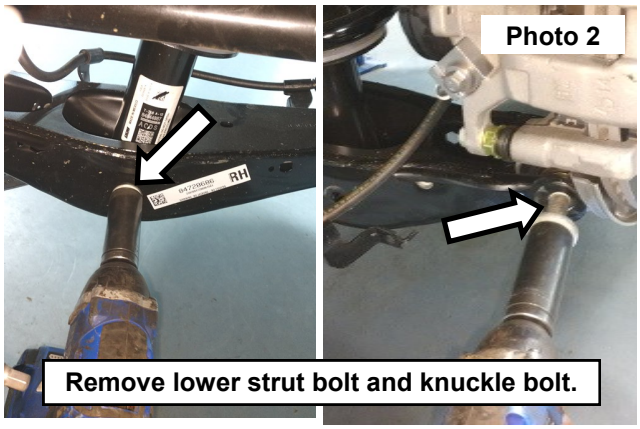


40. Install the front tires/and wheels using a 21mm deep well socket.
41. Raise the front of the vehicle with a jack and remove the jack stand remove the wheel chocks.

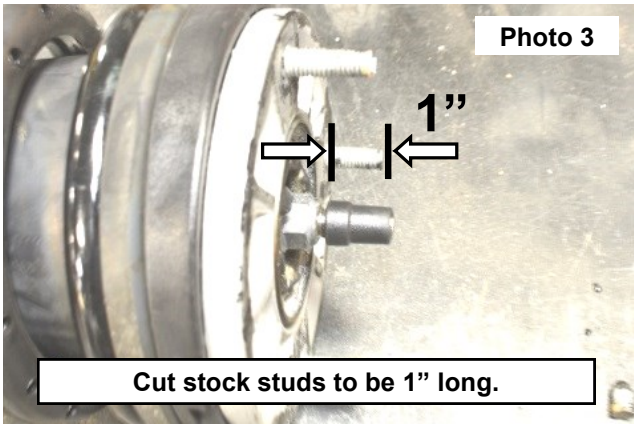
REAR INSTALLATION INSTRUCTONS

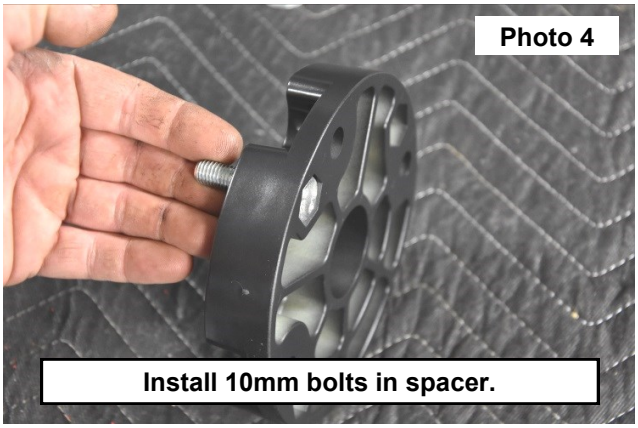
1. Jack up the rear of the vehicle and place on jack stands.
2. Remove the rear wheels.
3. Remove the upper strut nuts using an 18mm socket/wrench. **See Photo 1**.
4. Remove lower strut bolt and knuckle bolt at the control arm using a 21MM and 24MM socket/wrench. **See Photo 2**.



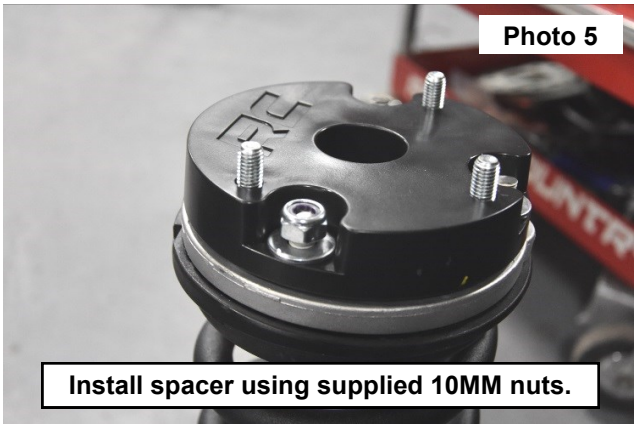


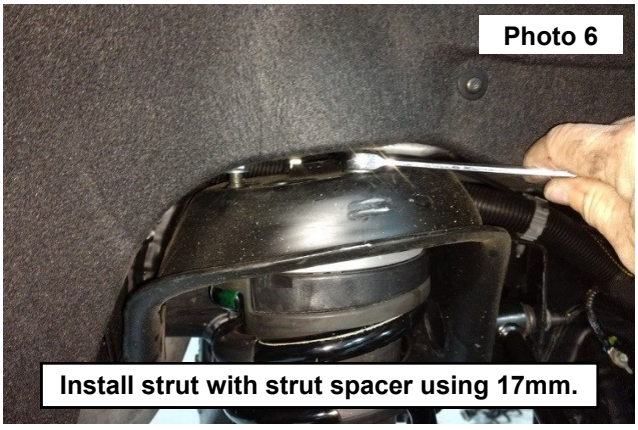
5. Remove the strut from the vehicle.
6. Cut the stock studs to be 1” long using a grinder so that the upper strut spacer will fit. **See Photo 3**.
7. Install the supplied 10MM x 40MM bolts through the bottom of the upper strut spacer . **See Photo 4**.





8. Install the upper strut spacer to the strut using the supplied 10MM nuts and a 17mm socket/wrench. **See Photo 5**.
9. Install strut with strut spacer in the vehicle using the 10MM hardware using a 17mm socket/wrench. **See Photo 6**.





10. Reinstall lower strut bolt and knuckle bolt at the lower control arm. Use small prybar or alignment tool to adjust clocking or alignment of strut to lower control arm.
11. Put on the wheels and lower the vehicle.



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.