TRAIL FORTRESS

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Rough Country 61340 Installation Instructions

2.5-Inch Leveling Kit with M1 Shocks for 2024–2025 Jeep Gladiator

Part number: 61340

trailfortress.com/2-5-inch-leveling-kit-jeep-gladiator-rough-country-61340

Scan for fitment, price and install help

921613000

ROUGH COUNTRY
SUSPENSION SYSTEMS®



Jeep JT Gladiator 2.5” Leveling 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 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. 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 35x12.50x20 tire on a 20x10 wheel with -18 offset. Different wheel and tire combinations my be used but different tire manufactures designs may result in a tire width that could result in contact with the lower control arm and/or front sway bar link in a sharp turn. Please consult with your tire and wheel expert before purchasing. Also note that if wider tires are desired, offset wheels will be required. If question exist we will be happy to answer any questions concerning the design, function, and correct use of our products by calling 1-800-222-7023.

⚠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.

Tools Needed:
6mm Allen
10mm Socket & Wrench
15mm Socket & Wrench
18mm Socket & Wrench
21mm Socket & Wrench
22mm Deep Well Socket
Pliers
9/16” Socket & Wrench
3/4” Socket & Wrench
Jack
Jack Stands

Prior to installing this kit, with the vehicle on the ground, measure the heights of your vehicle. This measurement can be recorded from the center of the wheel straight up to the top of the inner fender lip. Record the measurements.

LF:_____ ,RF:_____,

LR:_____, RR:_____

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61330 KIT CONTENTS

Kit Box 63430	
Qty	**Description**
2	Front Coil Spacers
2	Front Shocks
2	Front Sway Links
2	Front Bump Stop Spacers
1	Hardware Bag
1	Instruction Sheet
1	Front Bump Stop Bag

61300BAG2	
Qty	**Description**
2	9/16” Flat Washer
2	14mm x 75mm Bolt
2	14mm Nylock Nut
2	Shock Bracket Crush Sleeves
2	3/8” x 1” Bolts
2	3/8” Flat Washers
2	3/8” Flange Locknuts
2	12mm x 65mm Bolts
2	12mm Flange Locknuts
2	12mm Flat Washers

1609BAG7	
Qty	**Description**
2	3/8” Flat Washer
2	3/8” x 3” Bolt
2	3/8” Flange Lock Nut

61300 KIT CONTENTS

Kit Box 61300	
Qty	**Description**
2	Front Coil Spacers
2	Front Shock Brackets
2	Front Sway Links
2	Front Bump Stop Spacers
1	Hardware Bag
1	Instruction Sheet
1	Front Bump Stop Bag

61300BAG2	
Qty	**Description**
2	9/16” Flat Washer
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1609BAG7	
Qty	**Description**
2	3/8” Flat Washer
2	3/8” x 3” Bolt
2	3/8” Flange Lock Nut

61330 KIT PIC



61300 KIT PIC

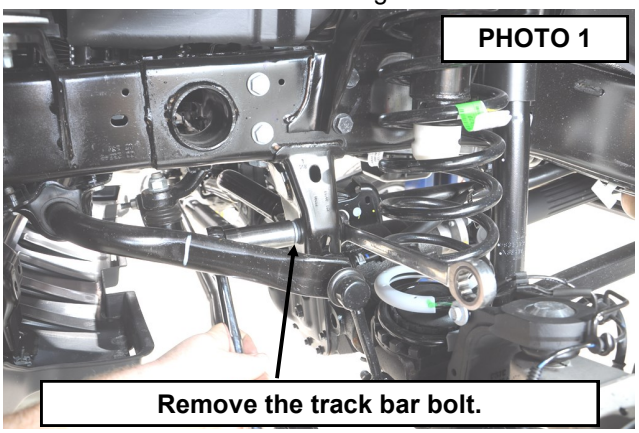


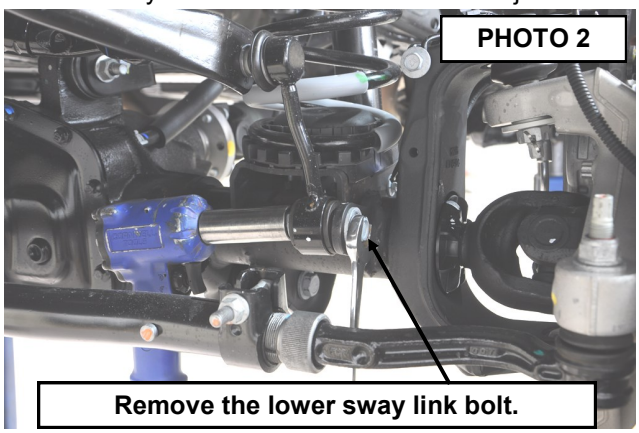
Torque Specs:

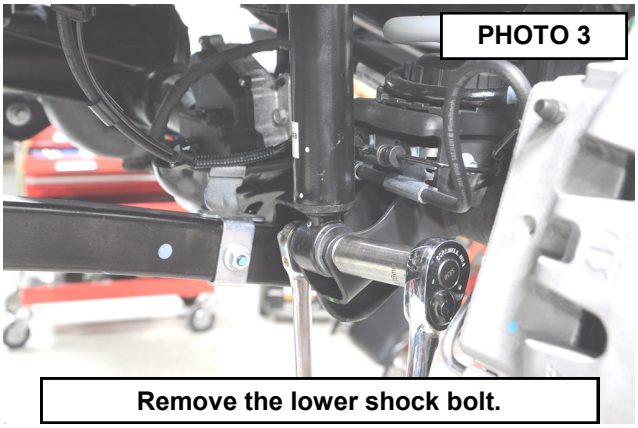
Size	Grade 5	Grade 8		Class 8.8	Class 10.9
5/16”	15 ft/lbs	20 ft/lbs	6MM	5 ft/lbs	9 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs	8MM	18ft/lbs	23 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90 ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130 ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135 ft/lbs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

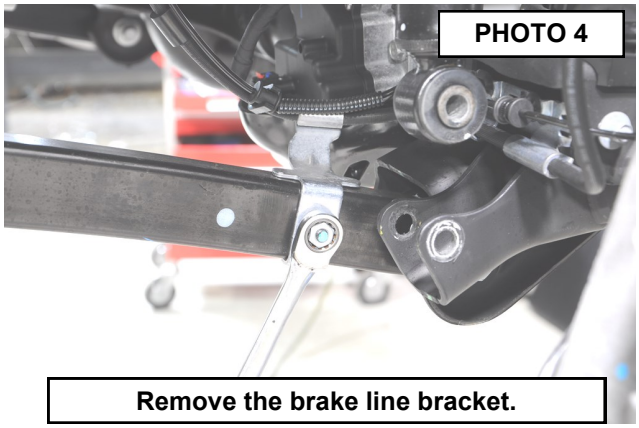
FRONT INSTALLATION INSTRUCTIONS

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. Place the jack under the front axle for support when removing the coil springs.
2. Remove the front tires/wheels, using a 22mm deep well socket.
3. Mark and remove front driveshaft from axle using a 15mm socket. **Hang the driveshaft up don't let it fall or rest on the driveshaft boot or it could damage the boot.**
4. Using a 21mm socket and wrench, remove the bolt securing the front track bar to the frame. **See Photo 1.** Retain hardware for reuse.
5. Using an 18mm socket and wrench remove the bottom sway bar link bolts. Retain hardware for reuse. **See Photo 2**.
6. Remove the lower shock bolt using a 18mm socket and wrench. You may have to raise the axle with the jack and pull down on the shock to remove the bolt. **See Photo 3.** Retain stock hardware.
7. Using a 15mm wrench, remove the brake line bracket from the lower control arm. **See Photos 4 & 5.** Retain hardware for reuse.

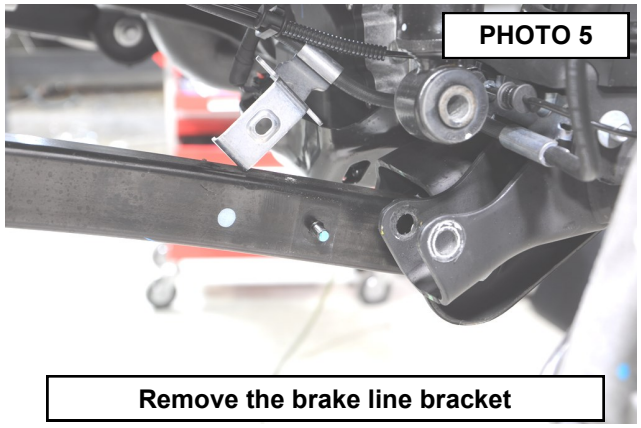


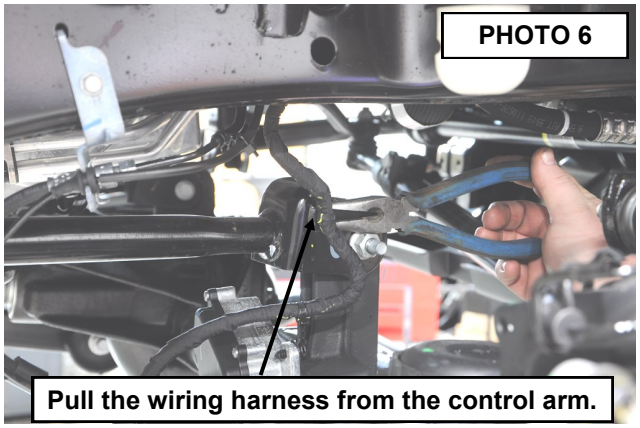




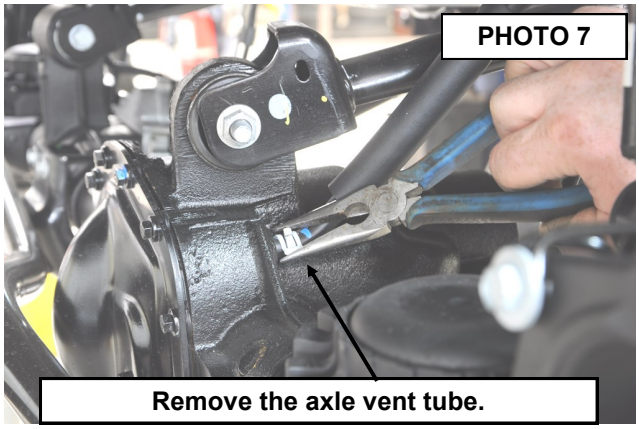


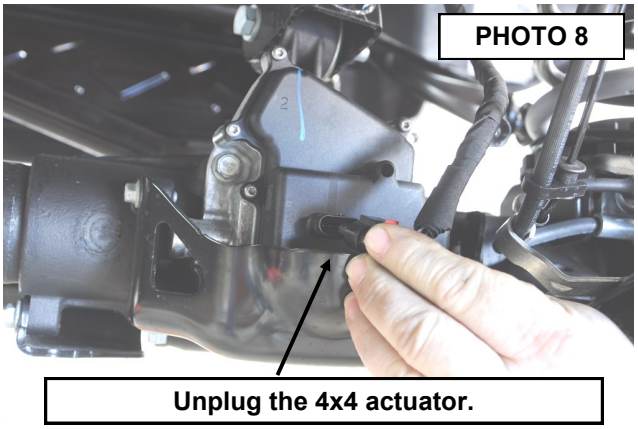
8. Using pliers, remove the wiring harness from the upper control arm. **See Photo 6.**
9. Loosen the upper control arms using a 18mm wrench.



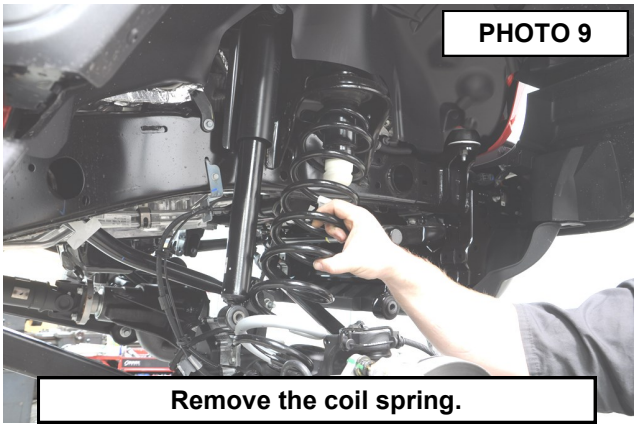


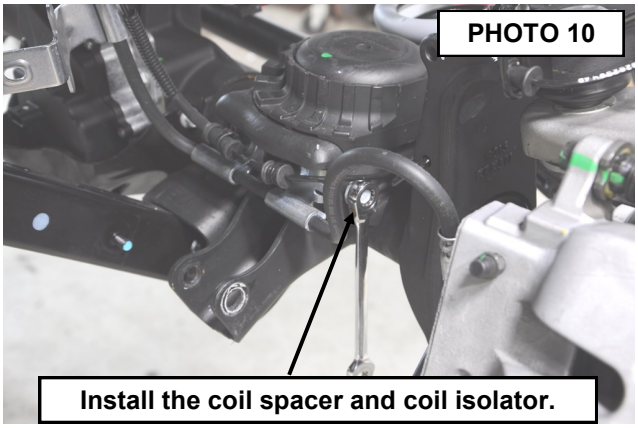
11. Using pliers, remove the axle vent tube from the differential housing. **See Photo 7**.
12. Unplug the 4x4 actuator for slack. **See Photo 8.**



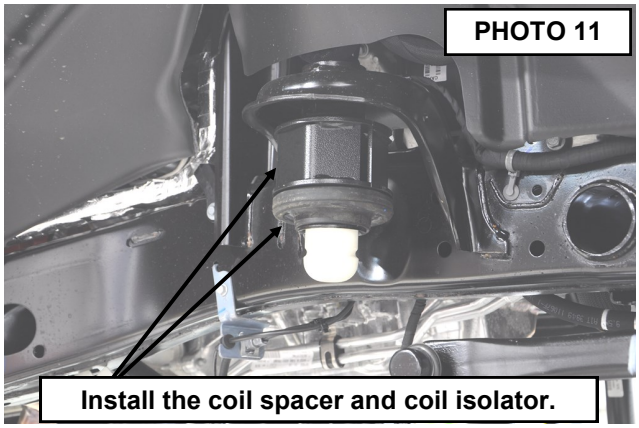


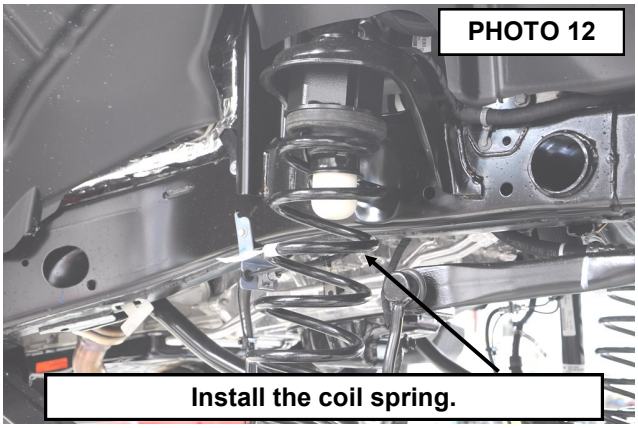
13. Lower the jack, careful not to let the axle reach full droop, and remove the coil spring and spring isolator. **See Photo 9.**
14. Using a 10mm wrench, remove the brake line bracket from the coil mount. Retain hardware for reuse. **See Photo 10.**



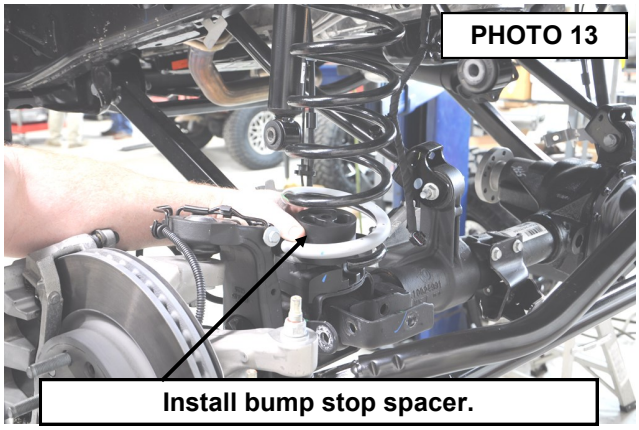


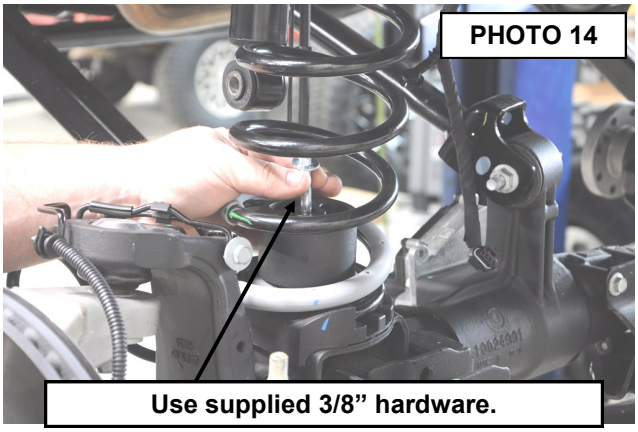
15. Install the supplied spring spacer with coil spring isolator under the spacer. Remove the coil spring isolator locator nipple using side cutters. **See Photo 11.**
16. Install the factory coil spring. **See Photo 12.**



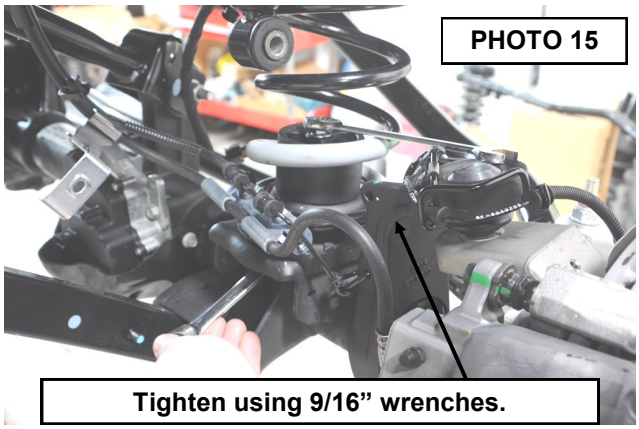


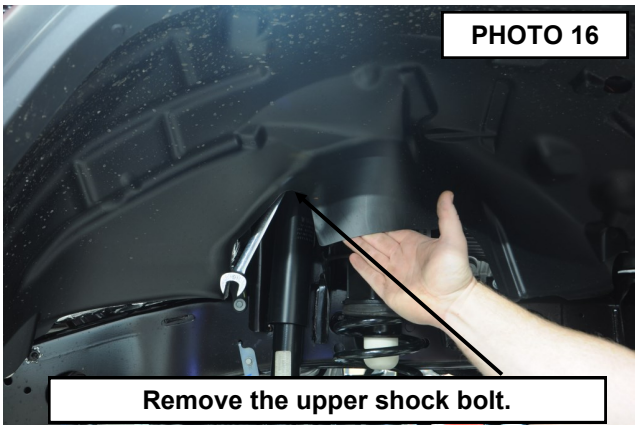
17. Install the bump stop spacer into the lower coil mount. **See Photo 13.**
18. Place the supplied 3/8” x 3” bolt, washers, and nut (1609BAG7) through the spacer and coil mount. **See Photo 14.**



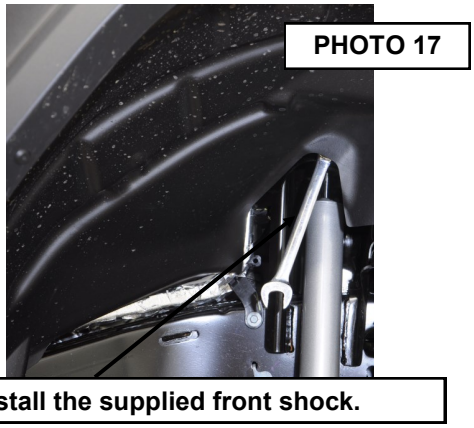


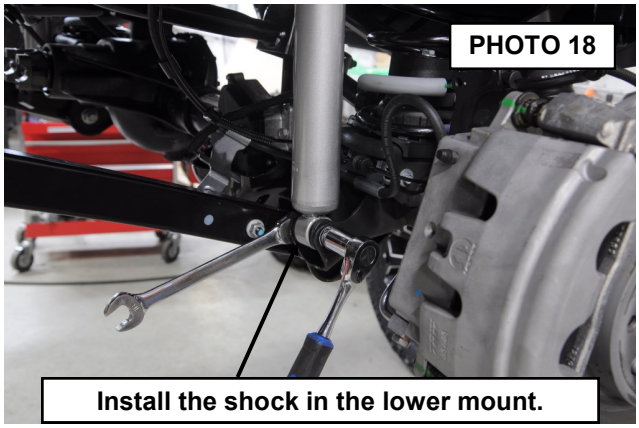
19. Tighten using 9/16” wrenches. **See Photo 15.**
20. Install the brake line bracket on the coil mount using the factory hardware and a 10mm wrench.
21. Remove the upper shock mounting bolt using a 19mm wrench. Retain hardware for reuse. **See Photo 16.**



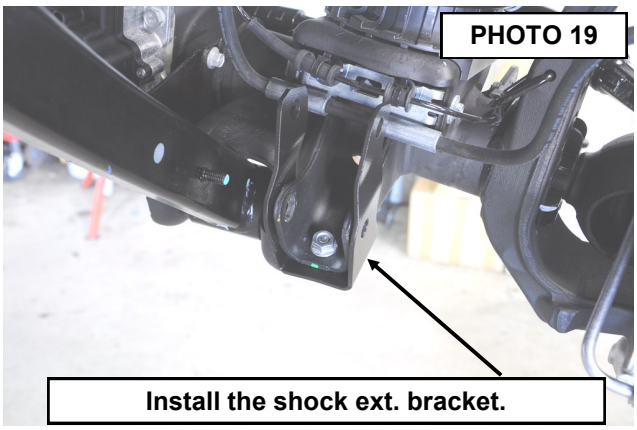


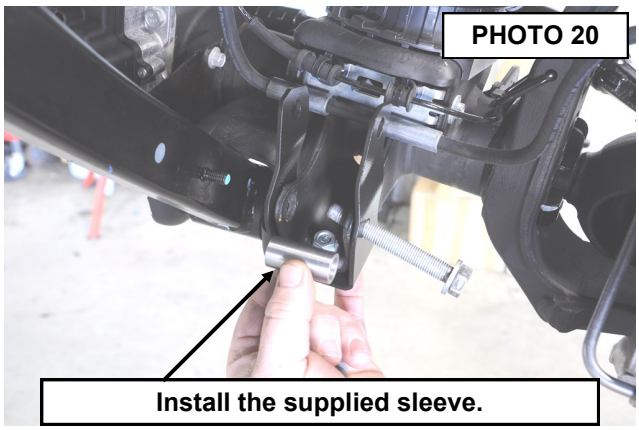
22. **If installing kit with shock relocation brackets, skip to step 25.**
23. Install the supplied shock in the upper and lower mounts using the factory hardware. Tighten using a 19mm wrench. **Make sure the upper eyelet is offset to the outside of the vehicle.** **See Photo 17.**
24. Tighten the lower shock mounting bolt using an 18mm wrench and socket. **Skip to step 30.** **See Photo 18.**



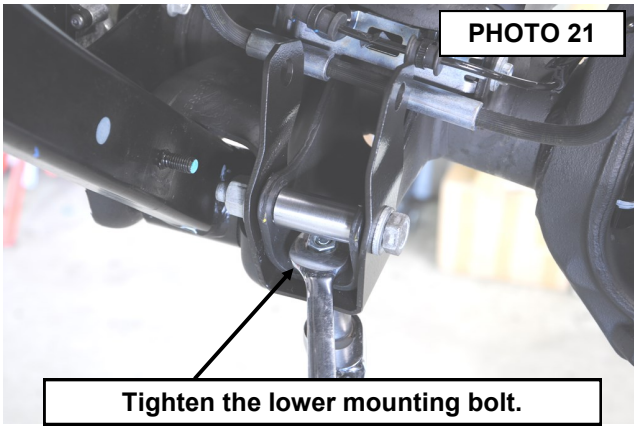


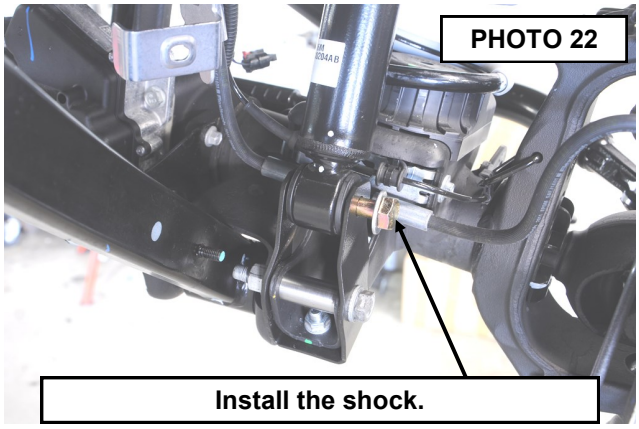
25. Install the supplied shock extension bracket using the supplied 3/8” x 1” bolt, 3/8 washer, and 3/8” flange locknut (61300BAG2), through the bottom hole of the bracket. Do Not Tighten. **It may be necessary use a 3/8” drill to deburr the bottom hole in the factory shock mount. See Photo 19.**
26. Place the supplied crush sleeve (61300BAG2) into the factory shock bracket. Install the factory shock hardware into the brackets and through the sleeve. **See Photo 20.**



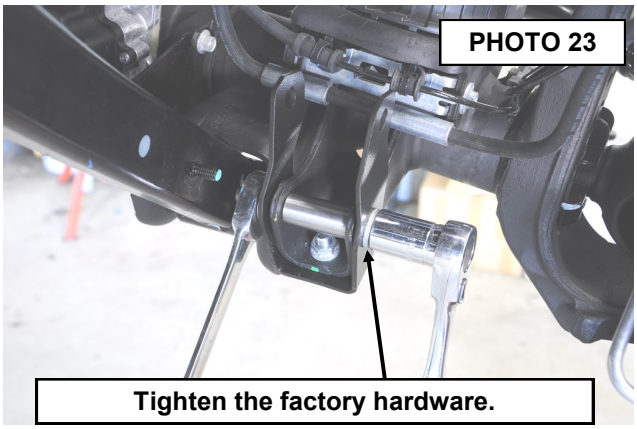


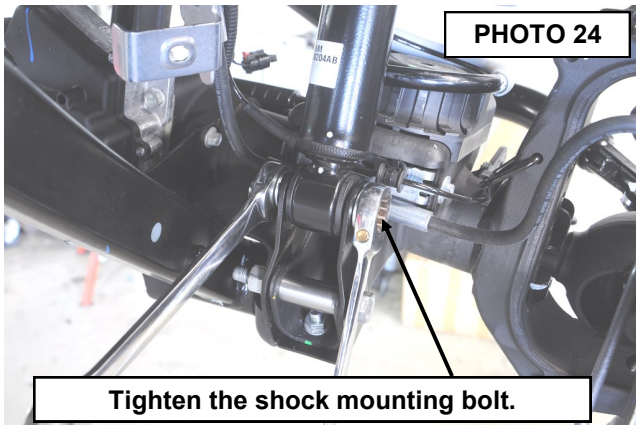
27. Tighten the lower bolt using a 9/16” socket and wrench. Torque to 30ft/lbs. **See Photo 21.**
28. Using a jack to compress the suspension, install the shock in the extension bracket using the supplied 12mm x 65mm bolt, 1/2” washers, and 12mm nut (61300BAG2). **See Photo 22.**



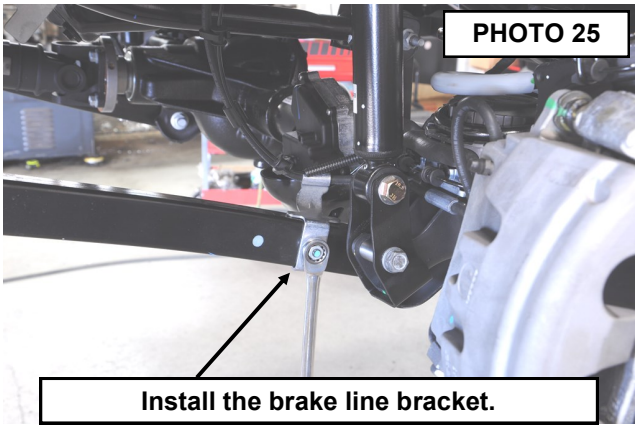


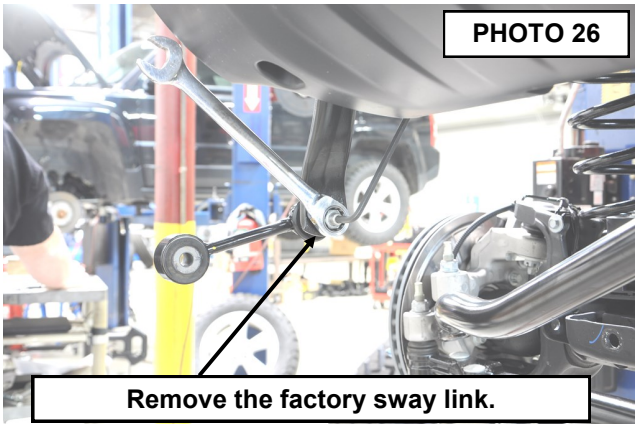
29. Tighten the factory bolt using an 18mm socket and wrench. Torque to 55ft/lbs. **See Photo 23.**
30. Tighten the lower shock bolt using an 18mm socket and wrench. Torque to 55ft/lbs. **See Photo 24.**



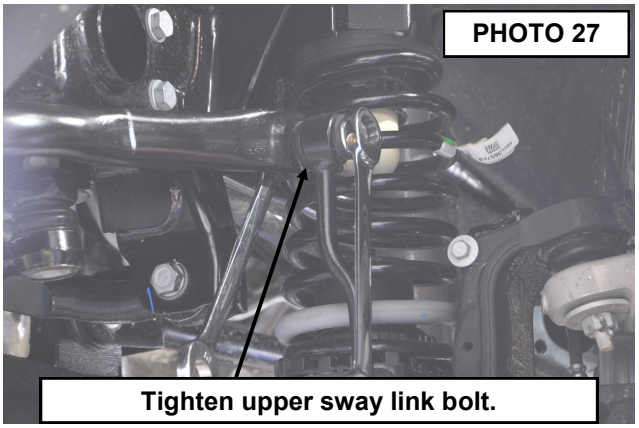


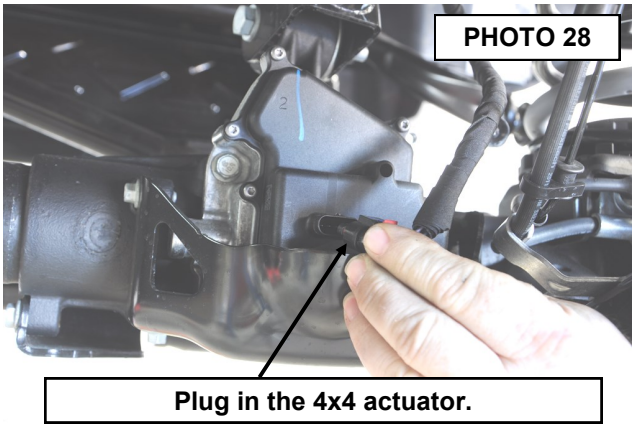
31. Install the brake line bracket on the lower control arm using the factory hardware. Tighten using a 15mm wrench. Torque to 18ft/lbs. **See Photo 25.**
32. Remove the sway link from the sway bar using a 6mm Allen and an 18mm wrench. **See Photo 26.**





33. Install the new supplied bent sway link using the supplied 14mm x 75mm bolt, 9/16" washers, and lock nut (61300BAG1) to attach the link to the sway bar and the factory hardware to attach the link to the axle. Torque to 55ft/lbs. **See Photo 27.**
34. Clip the wiring harness into the upper control arm.
35. Attach the axle vent tube to the differential using a pair of pliers. Plug-in the 4x4 actuator. **See Photo 28.**





36. Attach the sway bar links, to the axle, using the factory hardware and an 18mm socket and wrench. Torque to 55ft/lbs.
37. Reinstall the front tires/wheels, using a 22mm deep well socket.
38. Lower the vehicle to the ground.

POST INSTALLATION

1. Confirm that the draglink was adjusted to the center steering wheel **BEFORE** the vehicle is driven. Failure to do so will cause a computer error, odd handling, and poor performance.
2. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering for interference and proper working order. Test brake system.
3. Perform steering sweep. The distance between the tire sidewall and the brake hose must be checked closely. Cycle the steering from full turn to full turn to check for clearance. Failure to perform inspections may result in component failure.
4. Re-torque all fasteners after 500 miles and recheck after 1000 miles. Alignment must be checked by a qualified mechanic. Visually inspect components and re-torque fasteners during routine vehicle service.
5. Readjust headlights to proper settings.
6. Have a qualified alignment center realign the front end, to the factory specifications immediately.

Thank you for purchasing a Rough Country Suspension System.

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.