TRAIL FORTRESS

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Rough Country 91344 Installation Instructions

2.5-Inch Lift Kit with M1R Shocks for 2019–2023 Jeep Wrangler 4WD, Part 91344

Part number: 91344

trailfortress.com/rough-country-2-5-inch-lift-kit-91344

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

67731BAG3

Jeep JL/JLU 2.5” Suspension Kit w/ Coils & N3 Shocks

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
Torque Wrench

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:_____

KIT CONTENTS

Kit Box 67731BOX1	
Qty	**Description**
2	Front Shocks
2	Front Sway Links
2	Front Bump Stop Spacers
2	Rear Sway Links
2	Rear Shocks
2	Rear Bump Stop Spacers
1	Hardware Bag
1	Instruction Bag
1	Rear Bump Stop Bag
1	Front Bump Stop Bag

Kit Box 1677BOX3 or 66630BOX1 (Rubicon Models Only) or 91330BOX1 (2 Door Models)	
Qty	**Description**
2	Front Coil Springs
2	Rear Coil Springs

67730BAG2	
Qty	**Description**
6	1/2” Flat Washer
2	12mm x 65mm Bolt
2	12mm Flange Lock Nut

1609BAG6	
Qty	**Description**
4	3/8” Flat Washer
4	3/8” x .75” Bolt
4	3/8” Flange Lock Nut

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

Torque Specs:

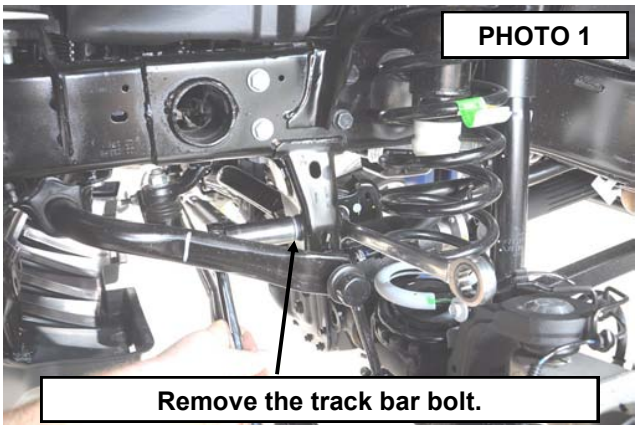
Size	Grade 5	Grade 8
5/16”	15 ft/lbs	20 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs
3/4”	185 ft/lbs	280 ft/lbs

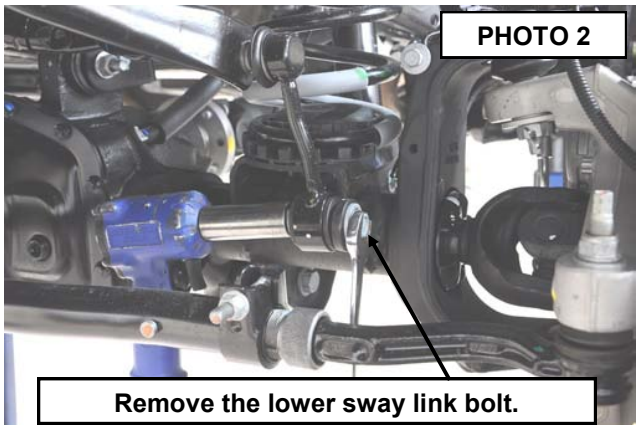
	Class 8.8	Class 10.9
6MM	5 ft/lbs	9 ft/lbs
8MM	18ft/lbs	23 ft/lbs
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
14MM	85ft/lbs	120ft/lbs
16MM	130ft/lbs	165ft/lbs
18MM	170ft/lbs	240ft/lbs


ROUGH COUNTRY
PREMIUM SHOCK ABSORBER

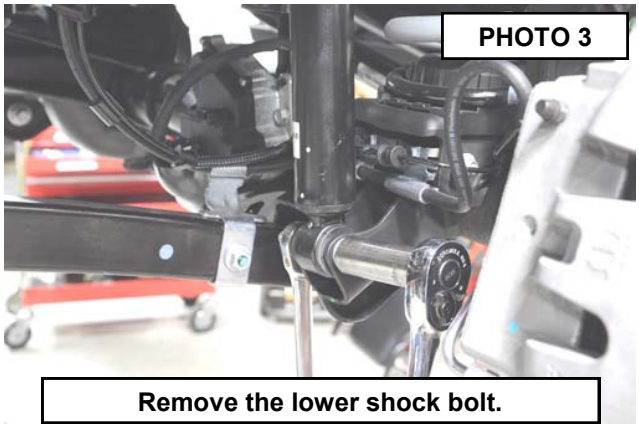
FRONT INSTALLATION INSTRUCTIONS

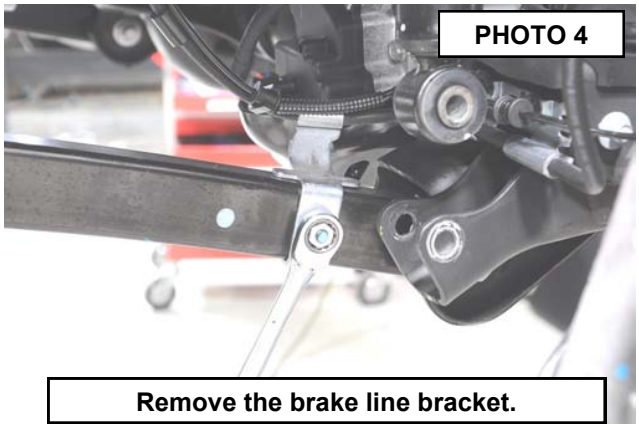
1. Place vehicle in park and chock the rear wheels. Raise the front of the vehicle with a jack and secure a jack stand beneath each frame rail behind the front control arms. Ease the frame down onto the stands. Place the jack under the front axle for support when removing the coil springs.
2. Remove 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**.



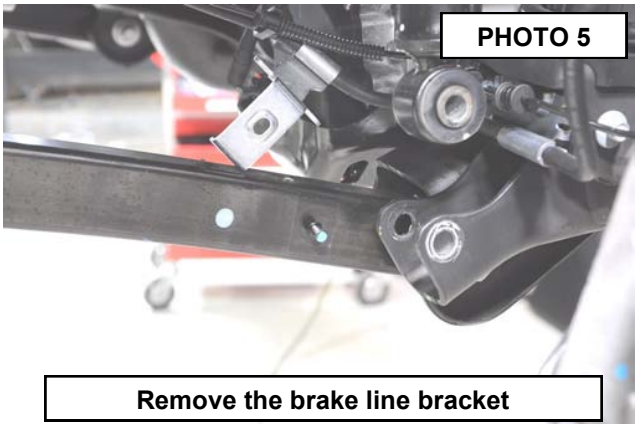


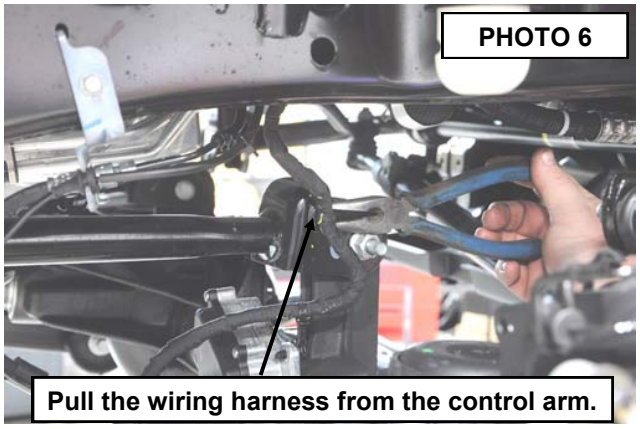
6. Remove the lower shock bolt using a 18mm socket and wrench. You may have to raise the axle with the jack and pull down on the shock to remove the bolt. **See Photo 3.** Retain stock hardware.
7. Using a 15mm wrench, remove the brake line bracket from the lower control arm. **See Photos 4 & 5.** Retain hardware for reuse.



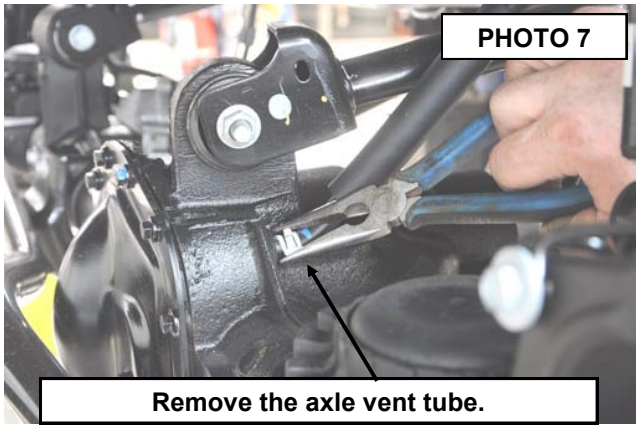


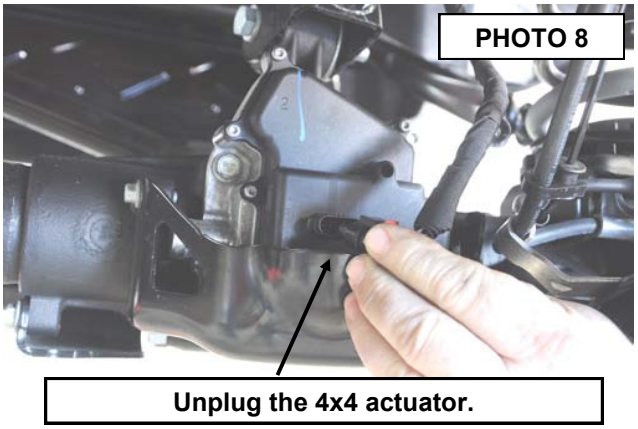
8. Using pliers, remove the wiring harness from the upper control arm. **See Photo 6.**
9. Loosen the upper control arms using a 18mm wrench.
10. Loosen the lower control arms but do not remove using a 21mm & 24mm wrench.



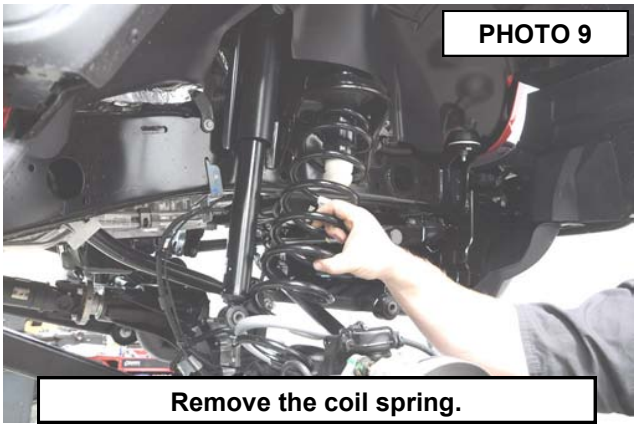


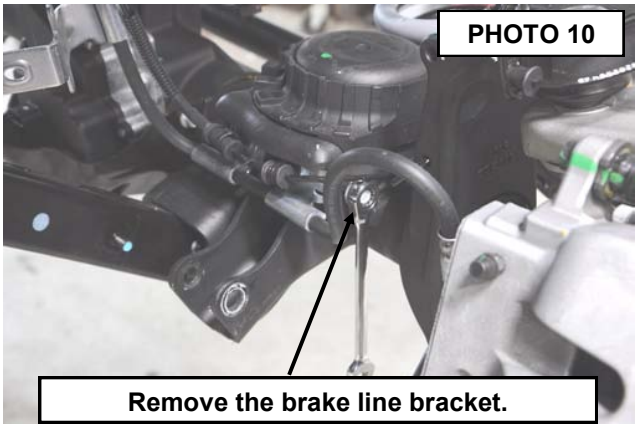
11. Using pliers, remove the axle vent tube from the differential housing. **See Photo 7**.
12. Unplug the 4x4 actuator for slack. **See Photo 8.**



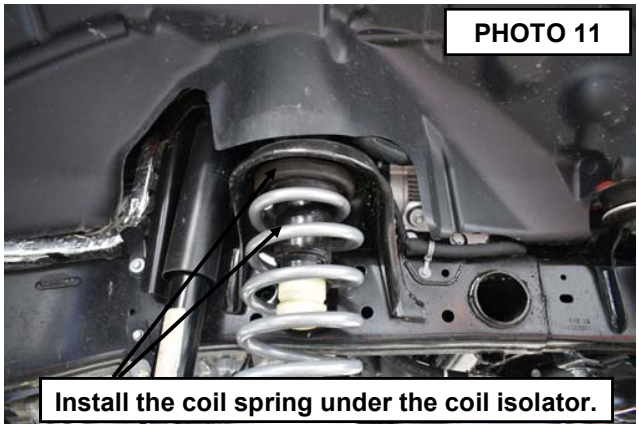


13. Lower the jack, careful not to let the axle reach full droop, and remove the coil spring and spring isolator. **See Photo 9.**
14. Using a 10mm wrench, remove the brake line bracket from the coil mount. Retain hardware for reuse. **See Photo 10.**

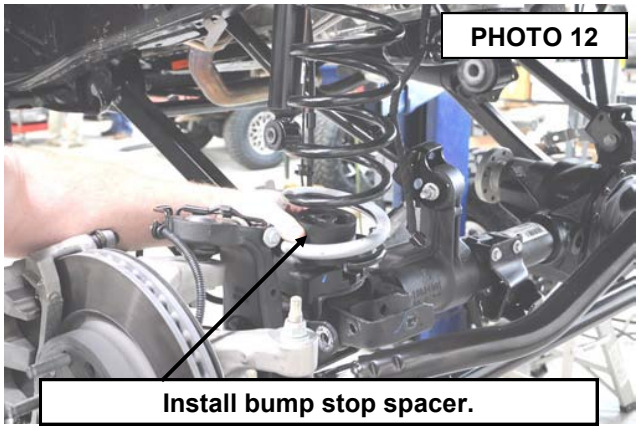


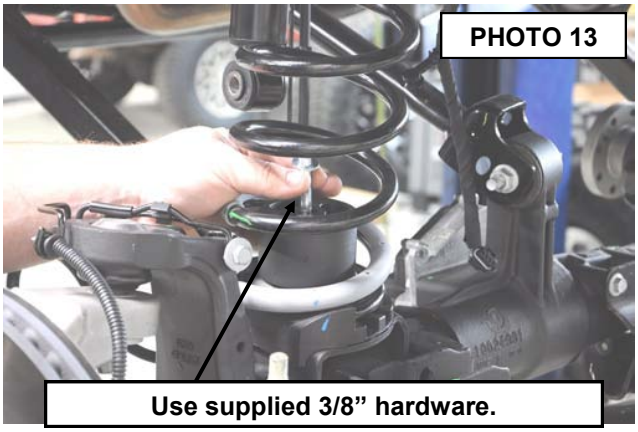


15. Install the supplied coil spring, making sure the coil spring isolator is in the factory location. **See Photo 11.**

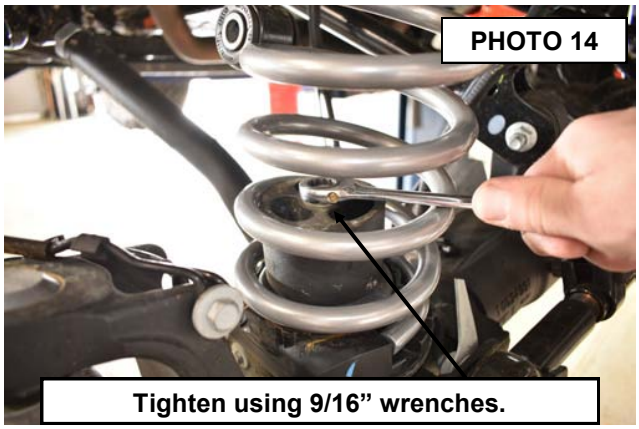


16. Install the bump stop spacer into the lower coil mount. **See Photo 12.**
17. Place the supplied 3/8" x 3" bolt, washers, and nut (1609BAG7) through the spacer and coil mount. **See Photo 13.**





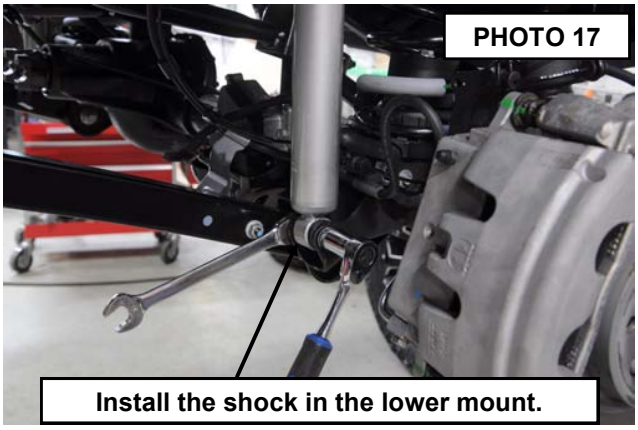
18. Torque to 30 ft-lbs. using 9/16" wrenches. **See Photo 14.**
19. Install the brake line bracket that was removed in step 14 on the lower coil mount using the factory hardware and a 10mm wrench. Torque to 5 ft-lbs.
20. Remove the upper shock mounting bolt using a 19mm wrench. Retain hardware for reuse. **See Photo 15.**





21. Install the supplied shock in the upper and lower mounts using the factory hardware. Torque to 55 ft-lbs. using a 19mm wrench. **Make sure the upper eyelet is offset to the outside of the vehicle. See Photo 16.**
22. Torque the lower shock mounting bolt to 55 ft-lbs. using an 18mm wrench and socket. **See Photo 17.**





23. Install the brake line bracket on the lower control arm using the factory hardware. Torque to 18 ft-lbs. using a 15mm wrench. Torque to 18ft/lbs. **See Photo 18.**
24. Remove the sway link from the sway bar using a 6mm Allen and an 18mm wrench. **See Photo 19.**

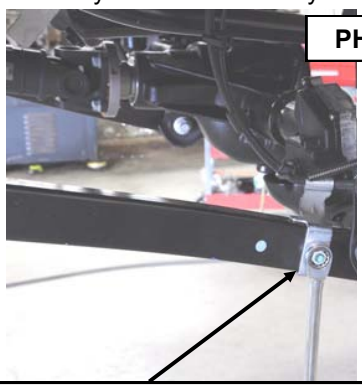


PHOTO 18

Install the brake line bracket.



PHOTO 19

Remove the factory sway link.

25. Install the new supplied bent sway link using the supplied 12mm x 65mm bolt, washer, and lock nut (67730BAG2). Torque to 55ft/lbs. **See Photo 20.**
26. Clip the wiring harness into the upper control arm.
27. Attach the axle vent tube to the differential using a pair of pliers.
28. Plug-in the 4x4 actuator. **See Photo 21.**

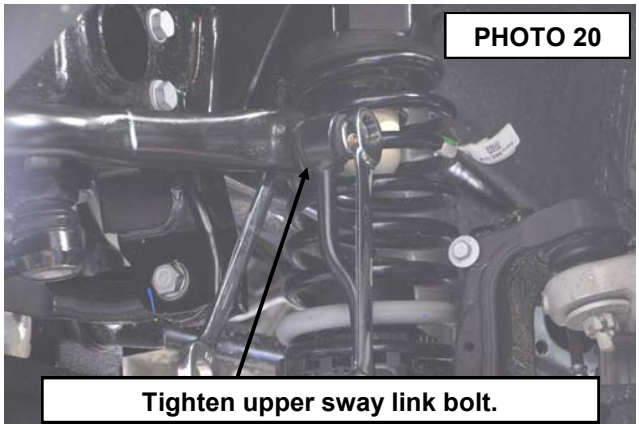


PHOTO 20

Tighten upper sway link bolt.

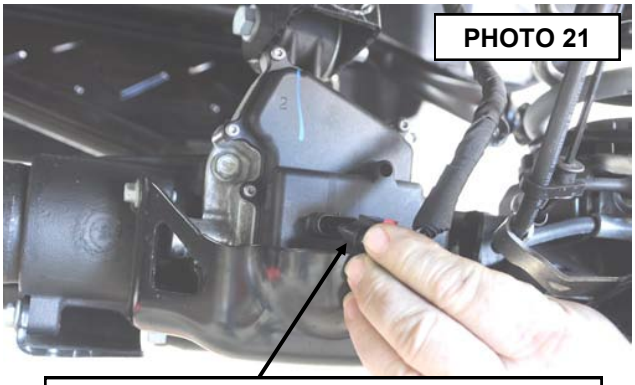


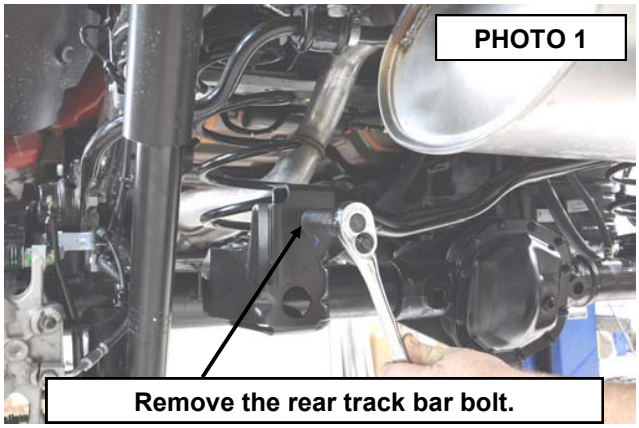
PHOTO 21

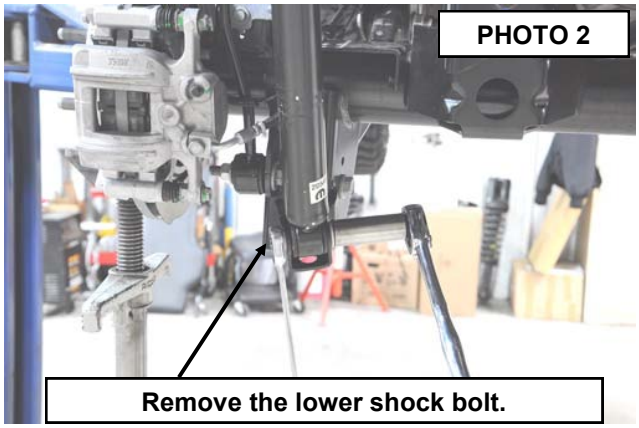
Plug in the 4x4 actuator.

29. Attach the sway bar links, to the axle, using the factory hardware and an 18mm socket and wrench. Torque to 55t/lbs.
30. Reinstall the front tires/wheels, using a 22mm deep well socket.
31. Lower the vehicle to the floor.
32. Attach the track bar using the factory hardware and a 21mm socket and wrench. Torque to 120ft/lbs. Turning the steering wheel will help align the track bar and the mounting hole.
33. Retighten the lower control arms using a 21mm & 24mm wrench. Torque to 165 ft-lbs.
34. Retighten the upper control arms using a 18mm wrench. Torque to 55 ft-lbs.

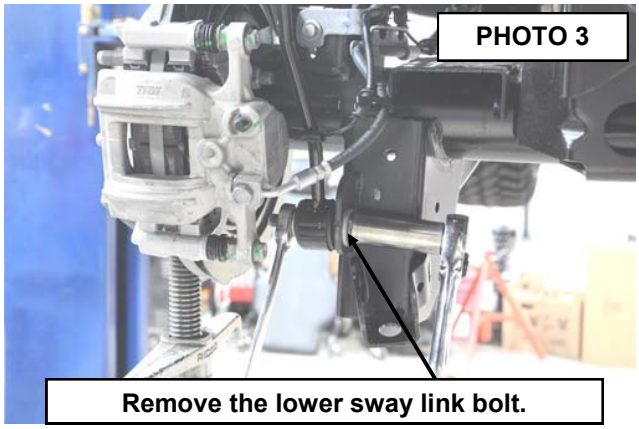
REAR INSTALLATION INSTRUCTIONS

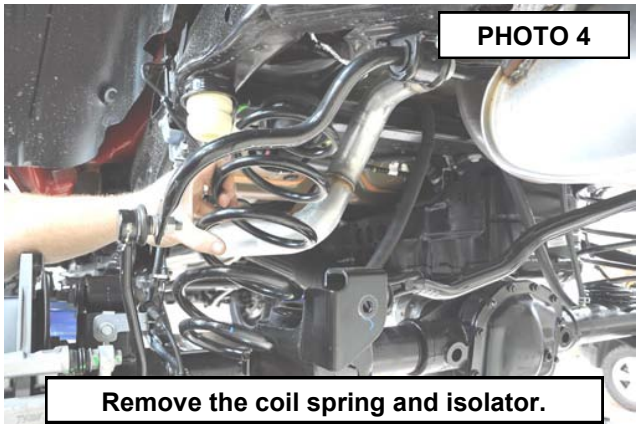
1. Jack up the rear of the vehicle and support the vehicle with jack stands, so that the rear wheels are off the ground. Chock front wheels. Position a jack so it supports, but does not raise the rear axle.
2. Remove the rear tires/wheels, using a 22mm deep well socket.
3. Using a 21mm socket remove the track bar bolt at the axle. Retain the stock hardware for reuse. **See Photo 1.**
4. Using an 18mm socket and wrench, remove the lower shock mounting hardware. Save for reuse. **See Photo 2.**



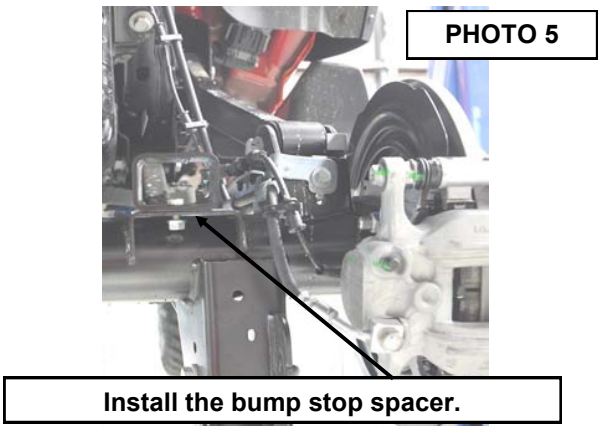


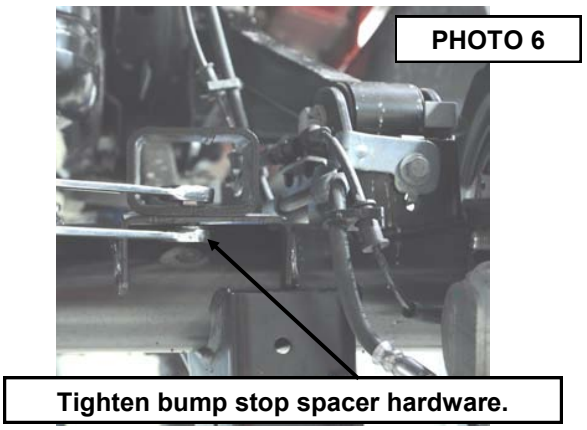
5. Using an 18mm socket and wrench, remove the lower sway bar link hardware. **See Photo 3.**
6. Lower the axle and remove the coil spring and coil spring isolator. **See Photo 4**.



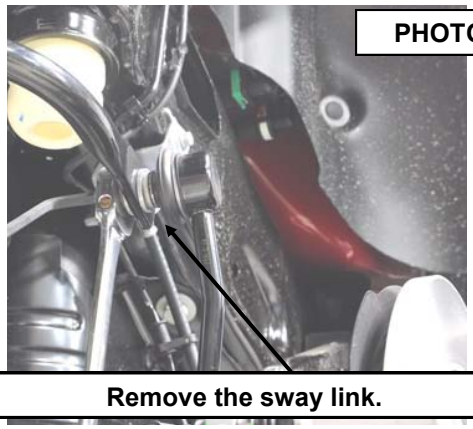


7. Install the supplied bump stop spacer on the axle using the supplied 3/8” x .75” bolts, washers, and flange lock nuts. (You will use 2 bolts, 2 washers, and 2 nuts per side) **See Photo 5.**
8. Using a 9/16” wrench and socket, torque the hardware to 30ft/lbs. **See Photo 6.**

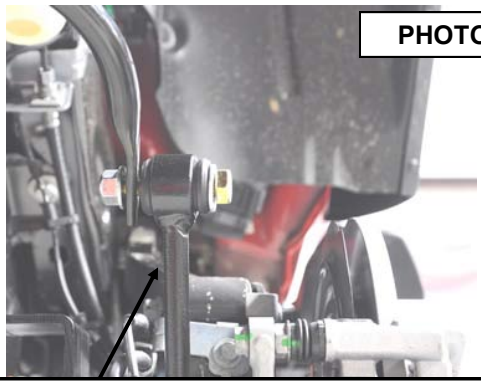




9. Using a 6mm Allen and an 18mm wrench remove the sway link from the sway bar. **See Photo 7.**
10. Attach the supplied straight sway link using the supplied 12mm x 65mm bolt, 12mm washers (bolt head side only), and 12mm flange nut (1677BAG1). **See Photo 8.**

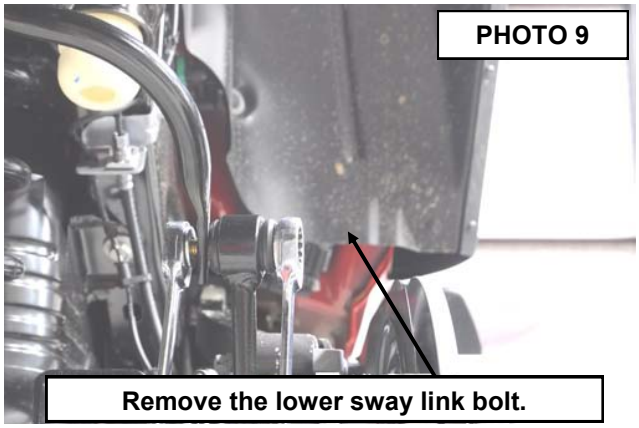


Remove the sway link.

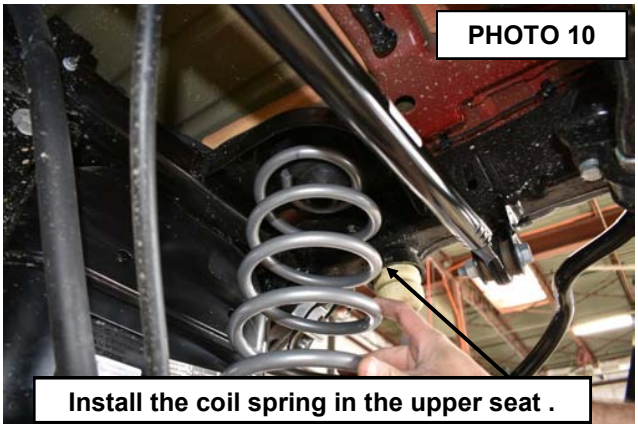


Install supplied sway link.

11. Using 18mm wrenches, tighten the upper sway link bolt. Torque to 75ft/lbs. **See Photo 9.**
12. Install the supplied coil spring into the upper coil spring pocket, making sure the coil spring is properly seated in the coil spring isolator. **See Photos 10 & 11.**

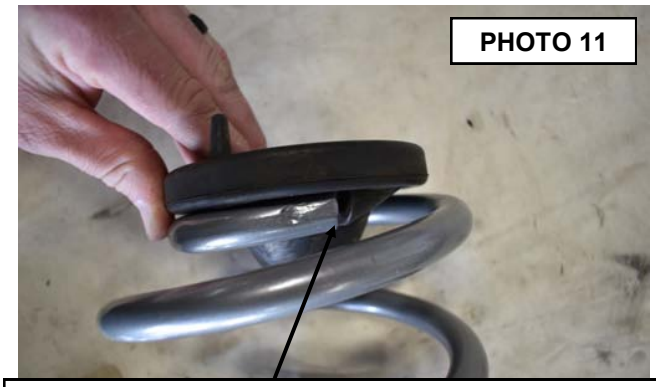


Remove the lower sway link bolt.

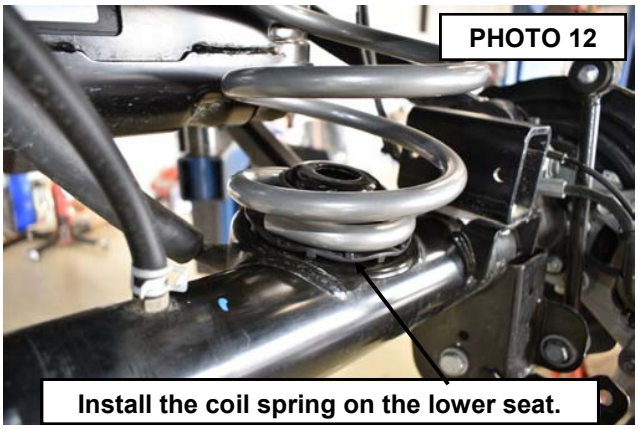


Install the coil spring in the upper seat .

13. Install the supplied rear coil spring on the lower spring seat. **See Photo 12**.

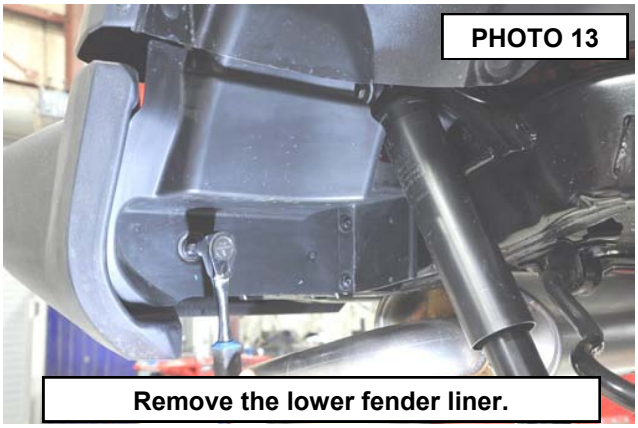


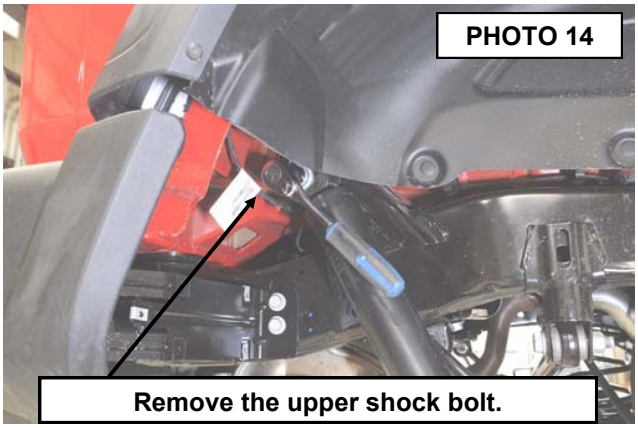
Make sure the coil is properly seated in the isolator.



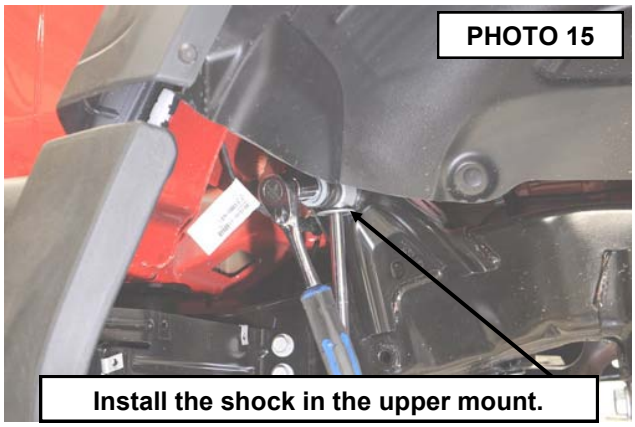
Install the coil spring on the lower seat.

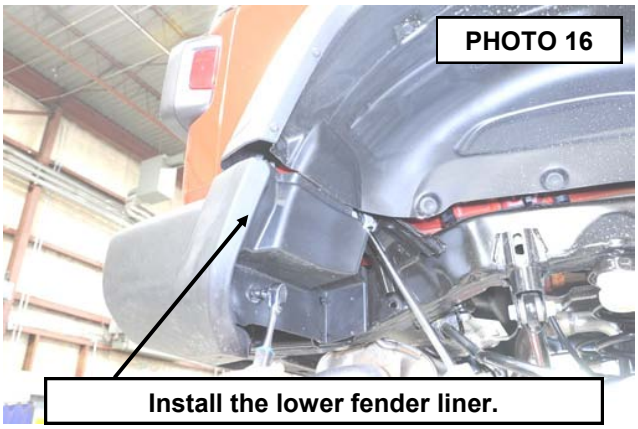
14. Using an 8mm socket, remove the 3 bolts holding the lower fender liner, remove the liner. Retain hardware for re-use. **See Photo 13**.
15. Using an 18mm socket, remove the upper shock bolt and remove the shock. **See Photo 14**.



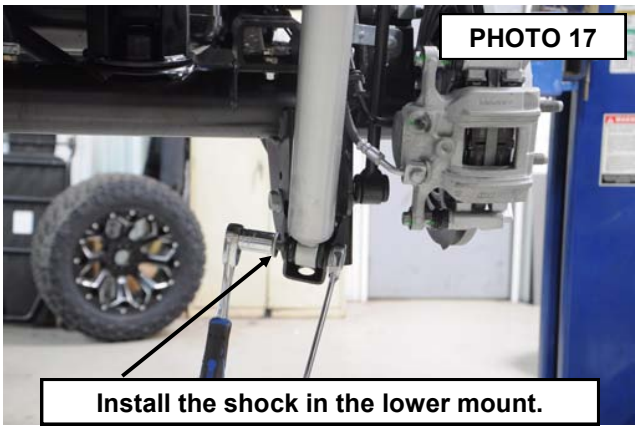


16. Install the supplied rear shock in the upper mount using the factory bolt. **Make sure the upper eyelet is offset to the outside of the vehicle.** Torque to 55 ft-lbs. using an 18mm socket. **See Photo 15**.
17. Install the lower fender liner using the stock hardware, tighten using an 8mm socket. **See Photo 16.**





18. Install the shock in the lower mount using the factory shock bolt. Torque to 55 ft-lbs. using an 18mm socket and wrench. **See Photo 17.**
19. Install the sway bar links, in the lower mount using the factory bolts and an 18mm socket and wrench. Torque to 55ft/lbs.
20. Reinstall the rear tires/wheels, using a 22mm deep well socket
21. Lower the vehicle to the ground.
22. Reinstall the track bar in the factory location using the factory hardware, Torque to 130 ft-lbs. using a 21mm wrench.



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.

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.



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.