TRAIL FORTRESS

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Rough Country 44230 Installation Instructions

3-Inch Lift Kit with N3 Shocks for Ford Super Duty 4WD (2023–2025)

Part number: 44230

trailfortress.com/rough-country-3-inch-lift-kit-44230

Scan for fitment, price and install help

921442700

ROUGH COUNTRY SUSPENSION SYSTEMS®

FORD 2023 SUPERDUTY TREMOR 3” LIFT

Thank you for choosing Rough Country for your suspension needs.

Rough Country recommends a certified technician installs 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 all the instructions before beginning the installation. Check the kit hardware against the parts list. Be sure you have all the needed parts and understand where they go. Also please review the 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.

Braking performance and capabilities are decreased when significantly larger/heaver tires and wheels are used. Take this into consideration while driving. Also, speedometer recalibration is necessary when larger tires are installed.

Do not add, alter, or fabricate any factory or after-market parts which increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands, lifts, and/or combining body lift with suspension lifts voids all warranties. 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 3” suspension system was developed for **35x12.50x17** tire on an 8” wheel.

This 3” system comes standard with a 4” block and u-bolt set-up for the rear to give the truck a level look. Personal preference, OE options, and aftermarket add-ons may require additional lifting options. **On vehicles with dual rear wheels the use of blocks and longer u-bolts is not recommended and should not be installed.**

⚠NOTICE

NOTICE TO DEALER AND VECHICLE OWNER

Any vehicle equipped with any Rough country product must have the “Warning to Driver” decal installed on the sun visor / dash. The decal is to 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 to forward these installation instructions on too the vehicle owner for review and to be kept in the vehicle for its service life.

Tools Needed:

10mm Socket
18mm Socket
18mm Wrench
19mm Socket
19mm Wrench
21mm Socket
21mm Wrench
23mm Socket
24mm Socket
30mm Socket
Jack Stands
Floor Jack
Wheel Chocks
1 1/8” Socket
1 1/8” Wrench
Reciprocating Saw
Tap Measure

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

2023 Tremor - 44270 Kit Contents:

4130991
- **41370BAG**
- **Track Rod Bracket - 1**
- **Tremor Rear Leaf Plate - 4**

43400991
- **43430BAG1**
- **1502BAG2**
- **81052BAG**
- **Coil Spacer - 2**
- **Passenger Brake Line Bracket - 1**
- **Driver Brake Line Bracket - 1**
- **Radius Arm Drop Bracket - 2**

760839
- **V2 Shock Pair**

760804
- **V2 Shock Pair**

81052BAG:
- **2-1/2” Washers**

1502BAG2:
- **2-14mm x 130mm Bolts**

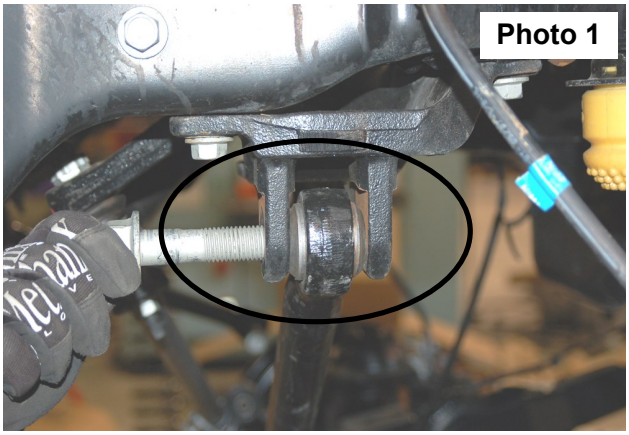
41370BAG
- **2-Cam Plates For Track Bar Bracket**
- **2-7/16 x 6” Blot**
- **2-7/16-20 Nut**

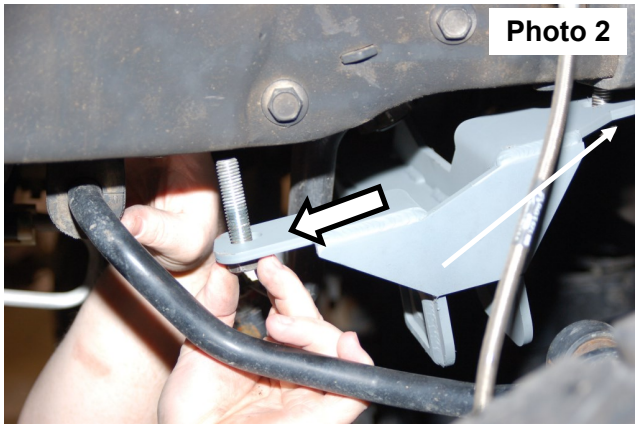
43430BAG1
- **2 - 18mm Lock Nut**
- **4 - 18mm Flat Washer**
- **2 - 18mm x 130mm Bolt**
- **2 - 7/16” x 1 1/4” Bolt**
- **2 - 7/16” Lock Nut**
- **4 - 7/16” Flat Washer**
- **2 - 3/8” x 1 1/4” Bolt**
- **2 - 3/8” Flat Washer**
- **2 - F250 UCA Sleeve**
- **4 - 5/16” x 1” Bolt**
- **4 - 5/16” Flange Lock Nut**
- **4 - 5/16” Flat Washer**



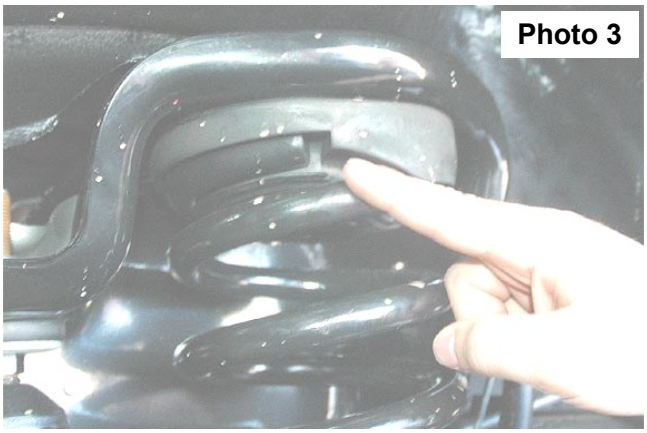
FRONT INSTALLATION INSTRUCTIONS

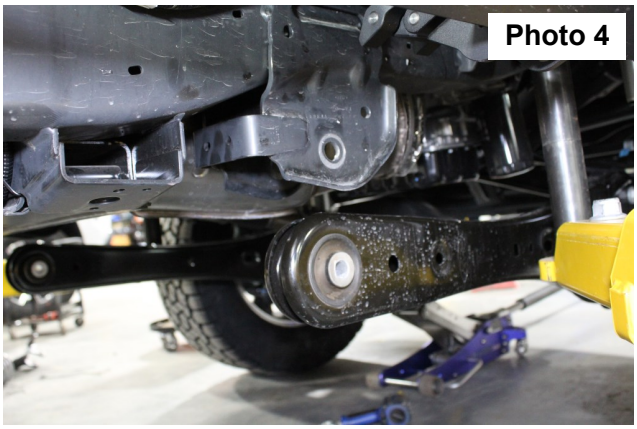
1. Jack up the front of the vehicle and support with jack stands on the frame rail.
2. Remove the front wheels and tires. Support the axle with a floor jack.
3. Remove the stock shock absorber from the upper mount using a 19mm wrench and the lower mount using a 18mm wrench. Retain the lower shock mounting bolt for reuse.
4. Remove the track bar from the frame as shown in **Photo 1** using a 21mm and 30mm socket / wrench and retain the factory hardware. Remove the factory track rod bracket using a 21mm socket and install the new track rod bracket in the factory location using the factory hardware. **See Photo 2.** Torque to 120 ft-lbs. using a 21mm socket.
6. Remove lower sway bar nut on the axle using a 21mm wrench to allow the axle to move downward for the installation of the new coil.



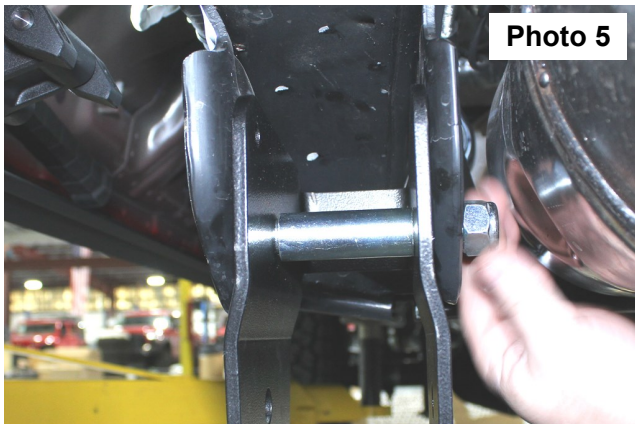


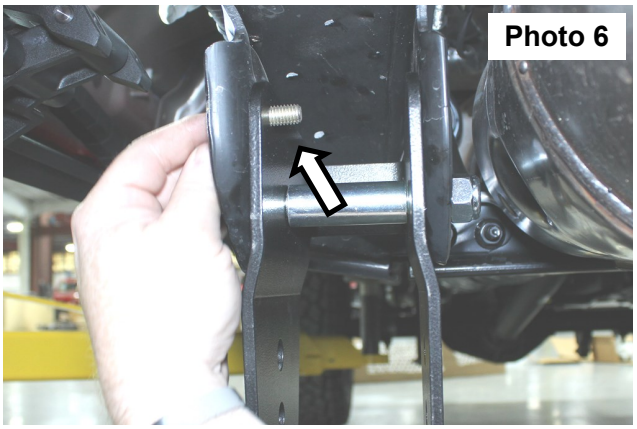
7. Using the floor jack, lower the axle to allow for the coil spring to be removed from the coil mount. Take notice of the position of the coil wraps on the top and bottom spring in the mount. The coil will be reinstalled in the same position. **See Photo 3.**
8. Remove the brake line bracket as shown using a 10mm wrench.
9. Use a 24mm socket and 1 1/16" wrench to remove the radius arm bolts. Drop the radius arms from the frame. Retain hardware for reuse. **See Photo 4.**



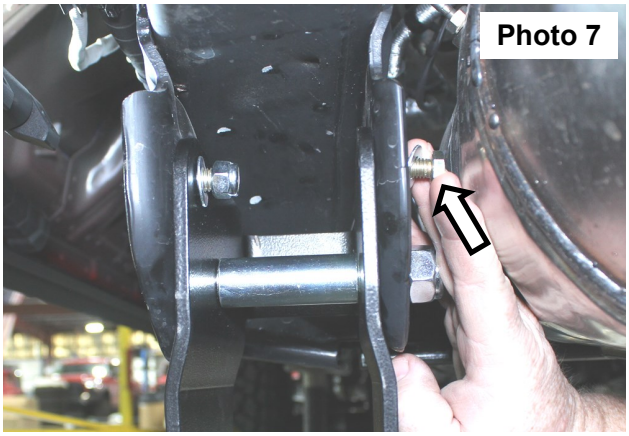


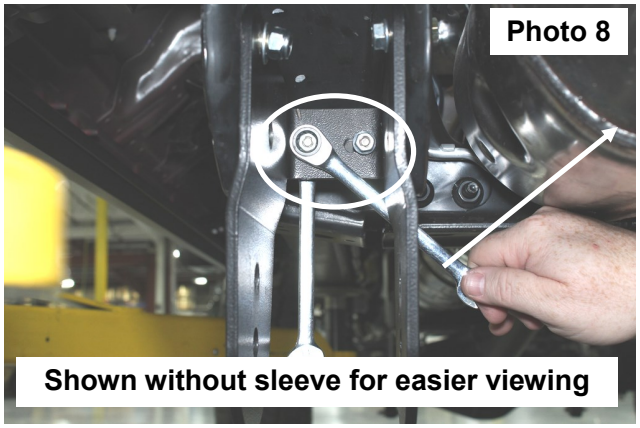
10. Install the 18mm x 130mm bolt, two 18mm washers, 18mm lock nut and sleeve from 43430BAG1 into the middle hole of the radius arm drop bracket with a 1 1/16" wrench. Torque to spec. **See Photo 5.**
11. Install a 7/16" x 1 1/4" bolt, washers, and lock nut from 43430BAG1 in the top outer hole of the drop bracket with a 5/8" wrench. Torque to spec. **See Photo 6.**



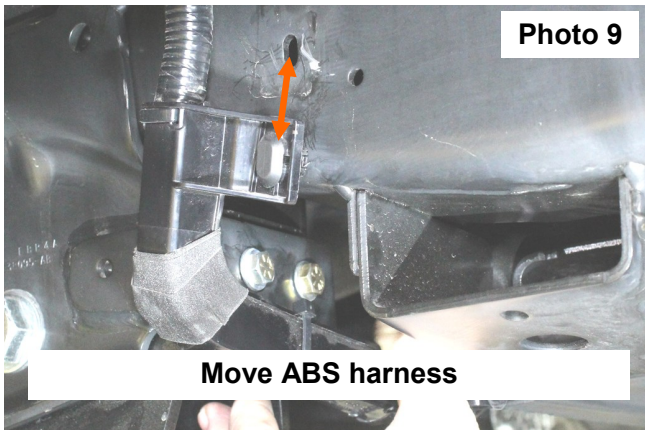


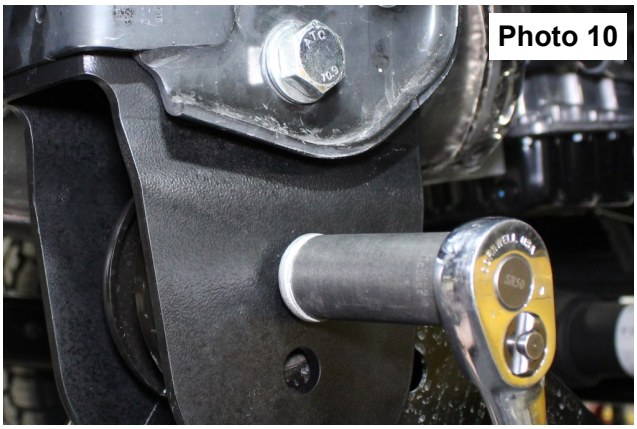
12. Install a 3/8” x 1 1/4” bolt, washers, and lock nut from 43430BAG1 in the top inner hole of the drop bracket with a 9/16” wrench. Torque to spec. **See Photo 7.**
13. Install two sets of 5/16” x 1” bolts, washers, and lock nuts into the rear of the radius arm drip bracket with a 9/16” wrench. Torque to spec. **See Photo 8.**



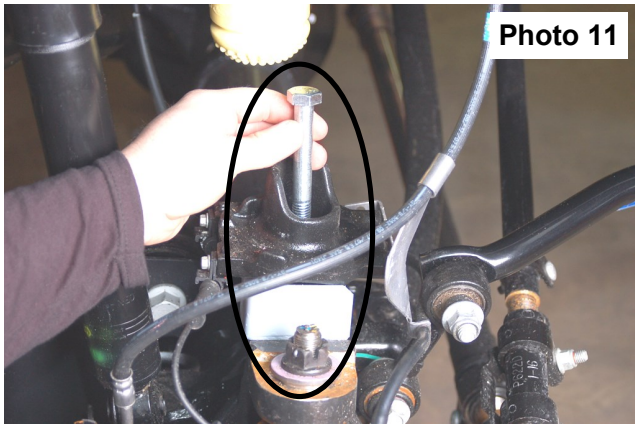


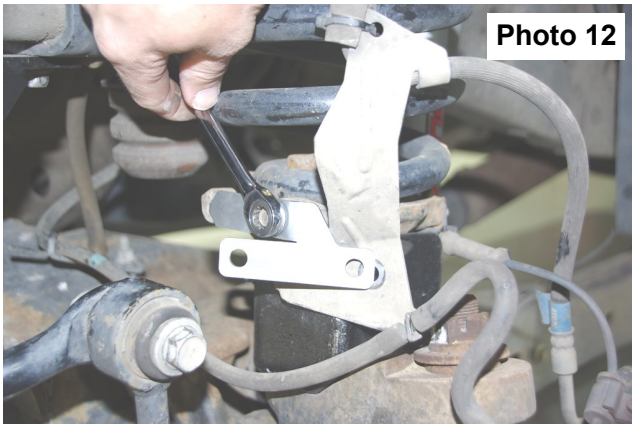
14. When installing the driver side radius arm drop bracket, use a clip tool to remove the ABS wiring harness to gain access to the rear bolts of the drop bracket. Reinstall harness after installing the 5/16” bolts. **See Photo 9.**
15. Reinstall the stock radius arm into the new bracket in the upper hole with stock hardware. Do not tighten the radius arm to the bracket at this time. **See Photo 10.**



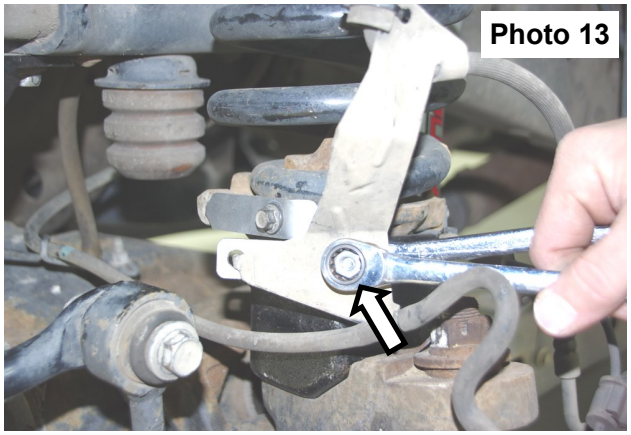


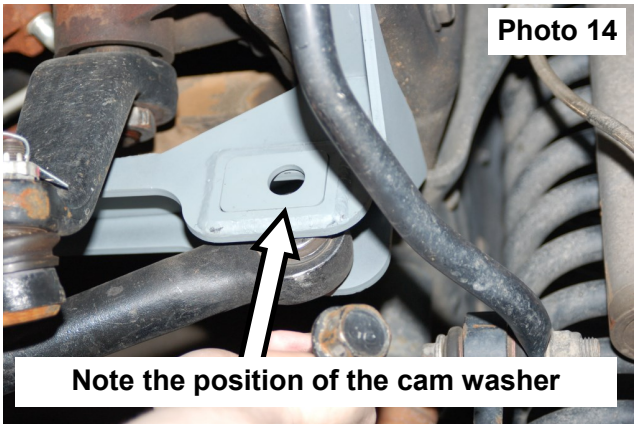
16. Remove the lower coil seat using a 21mm socket and install the supplied spring spacer in between the axle and the coil seat with the supplied 14mm x 130mm bolt. Torque to spec with a 22mm socket. **See Photo 11.**
17. Reinstall the stock coil spring and then slightly compress the spring with the floor jack. Reinstall the factory sway bar nut using a 21mm wrench and socket.
18. Using the factory hardware, install the supplied brake line relocation bracket on the coil seat. Torque to spec with a 13mm wrench. **See Photo 12.**





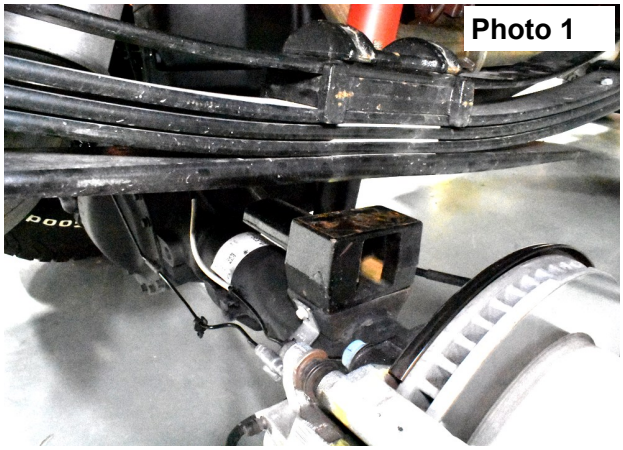
19. Install the factory brake line bracket on the supplied relocation bracket using the supplied 5/16” x 3/4” bolt, washer, and flange nut. Torque to spec with a 1/2” wrench and socket. **See Photo 13.**
20. Install the new front shock **660839**. Use factory hardware on the lower mount and use the supplied bushing kit on the upper mount. Torque the lower bolt to spec with an 18mm socket. Tighten the top until the bushing bulges with a 19mm wrench.
21. Install the wheels/tires. Jack up the vehicle and remove the jack stands. Lower the vehicle to the ground.
22. Position the cam washer as shown in **Photo 14** and swing up the frame end of the track rod. Install the frame mount using the stock hardware. Torque to spec with a 30mm socket and wrench. **NOTE:** It may be necessary to have another person turn the vehicle as it sits still to align the track rod with the mount.
23. Torque the radius arm in the new bracket to spec using a 24mm socket and 1 1/16” wrench.

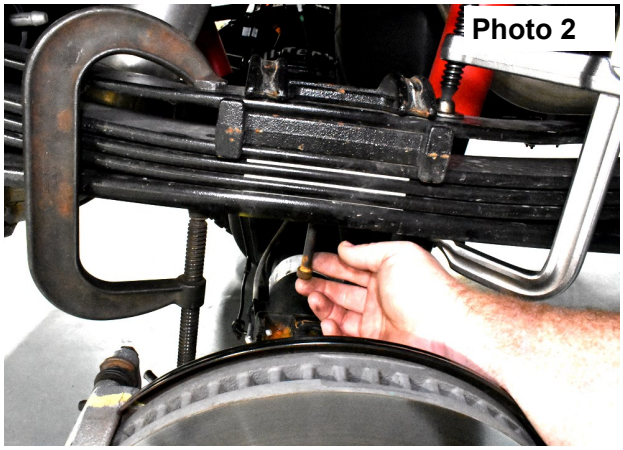




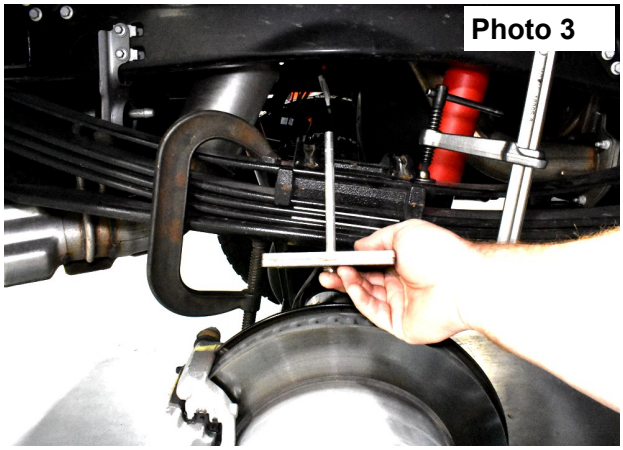
44270Tremor - REAR INSTALLATION

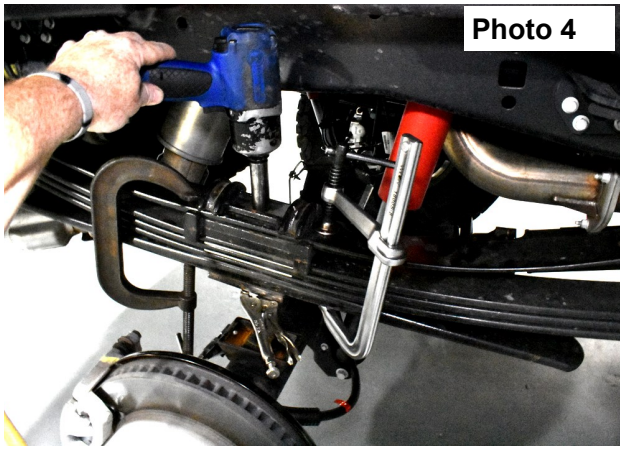
1. Chock front wheels and jack up the rear of the vehicle. Secure with jack stands on the frame rail.
2. Place a floor jack under the rear differential. Using a 18mm wrench for the upper, and 19mm and 15mm wrench for the lower, remove the stock shock absorbers, retain the stock hardware for reuse.
3. Remove the stock u-bolts using a 24mm socket. Use the floor jack to lower the axle. **See Photo 1.**
4. Place clamps on each side of the leaf spring. Then remove the center pin from the leaf pack using Vice grips on the pin and a Socket on the nut. **See Photo 2.**





5. Place the new center pin and (2) lower plates through and the plates on the bottom of the leaf pack. **See Photo 3.**
6. Tighten the new bolts using Vice grips and socket on the nut. **See Photo 4.** Repeat this process on the opposite side of the vehicle. Then, Jack up the axle and align the pins and seat the axle .





7. Secure with the u-bolts and torque evenly to 120ft lbs using a 24mm socket using a “X” pattern.
6. Locate shock number **760804**. Install using factory mounting pin on upper and factory bolt on lower shock mount. Tighten using a 18mm wrench for the upper and a 18mm & 15mm wrench for the bottom.
7. Install the wheels and tires. Jack up the vehicle with the floor jack to remove the jack stands.
8. Lower the vehicle to the floor.

POST INSTALLATION INSTRUCTIONS

1. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering gear for interference and proper working order. Test brake system
2. Perform steering sweep. Check to ensure brake hoses have sufficient slack and will not contact rotating, mobile, or fixed members, adjust lines/brackets to eliminate interference and maintain proper working order. Failure to perform inspections may result in component failure
3. Readjust headlights to factory settings
4. Have vehicle aligned by a certified alignment professional.
5. All components must be retightened after 500 miles, and every three thousand miles after installation

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