TRAIL FORTRESS

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Rough Country 30300 Installation Instructions

2-Inch Leveling Kit for Ram 1500 4WD (2012-2018)

Part number: 30300

trailfortress.com/2-inch-leveling-kit-ram-1500-4wd-rough-country-30300

Scan for fitment, price and install help



2012-18 Dodge 1500 4WD 1500 2” Leveling Kit

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

⚠NOTICE **DOES NOT FIT TRX PACKAGE VEHICLES!!**

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 kit contents list on the back page. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have the tools needed to install the kit.

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.

We will be happy to answer any questions concerning the design, function, and use of our products.

This suspension system was developed using a 33X12.50/17, tire with factory wheels.

⚠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. By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable Federal, 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.

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.

Tools Needed:

8mm Wrench
15mm Socket / Wrench
14mm Socket / Wrench
17mm Socket / Wrench
18mm Socket / Wrench
21mm Socket / Wrench
22mm Socket / Wrench
24mm Socket / Wrench
Strut Compressor

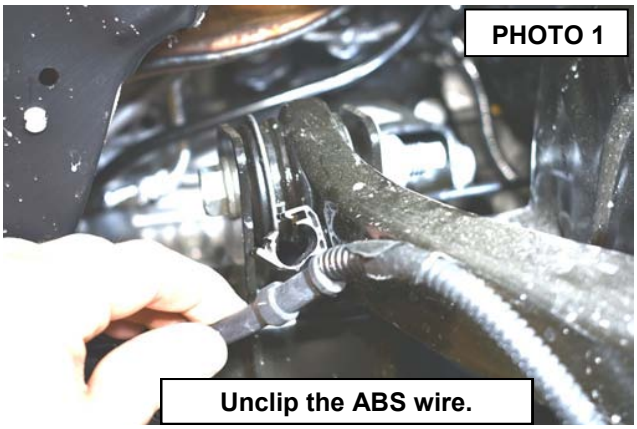
Torque Specs:

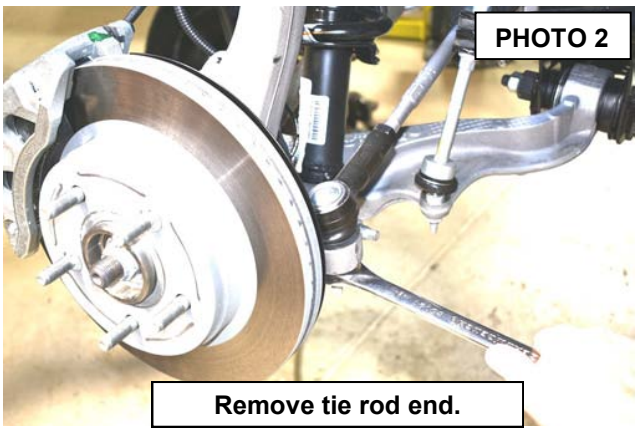
Size	Grade 5	Grade 8
5/16”	15 ft/lbs	20 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs
3/4”	185 ft/lbs	280 ft/lbs

	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

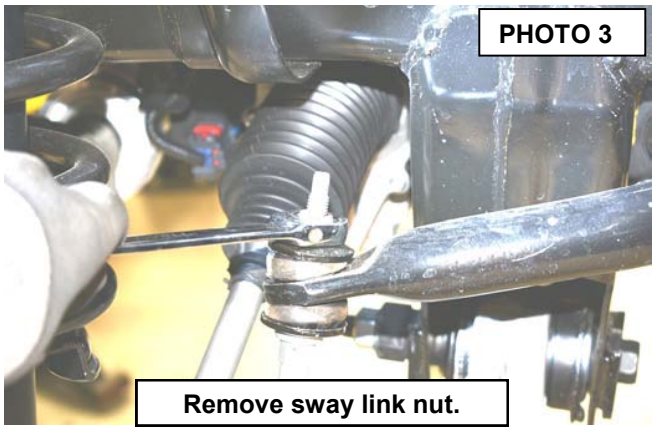
INSTALLATION INSTRUCTIONS

1. Jack up the front of the vehicle and support the vehicle with jack stands, so that the front wheels are off the ground.
2. Using 22mm socket remove the front tires/wheels.
3. Remove the ABS wire from the clip on the upper control arm. **See Photo 1.**
4. Using 21mm wrench, remove the nut from the steering linkage. Using a hammer hit on the side of the knuckle to release the taper, and remove the linkage from the knuckle. Push linkage forward to make room for installation. Retain factory hardware **See Photo 2.**



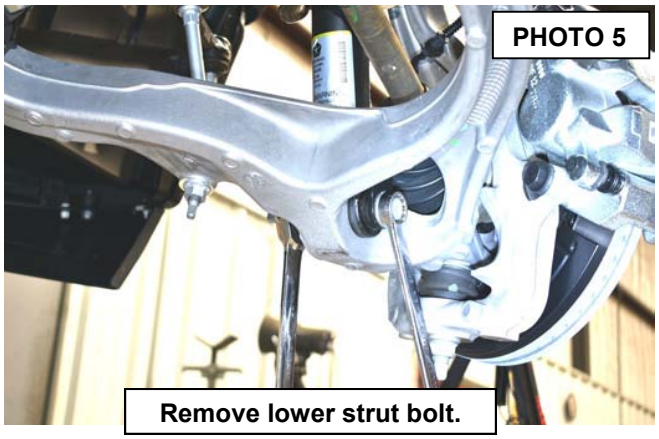


5. Using a 16mm wrench, remove the sway link nut, washer, and bushings. Retain factory hardware. **See Photos 3 & 4.**



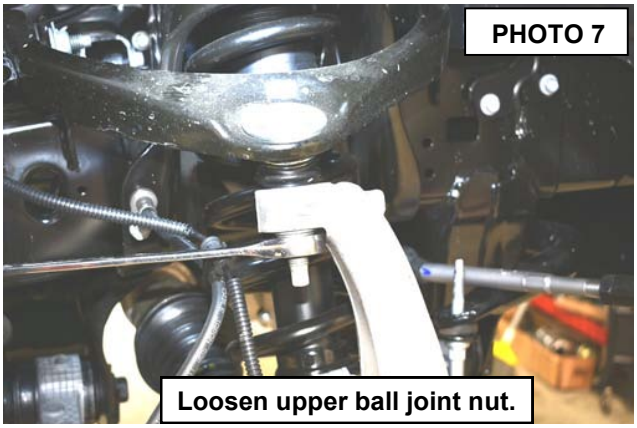


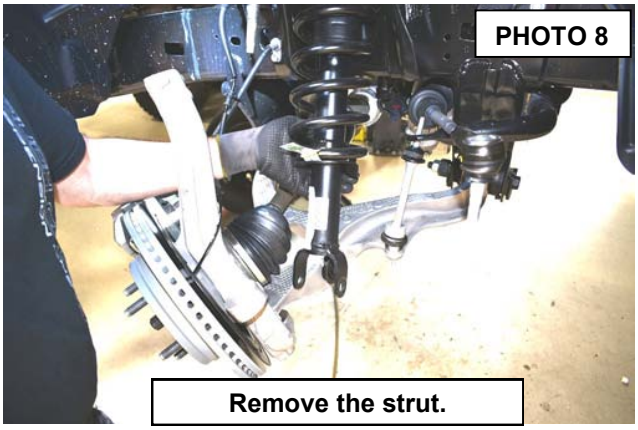
6. Using 21mm and 24mm wrenches, remove the lower strut bolt. Retain for reuse. **See Photo 5.**
7. Using a 15mm wrench, remove the upper strut hardware. Retain for reuse. **See Photo 6**.





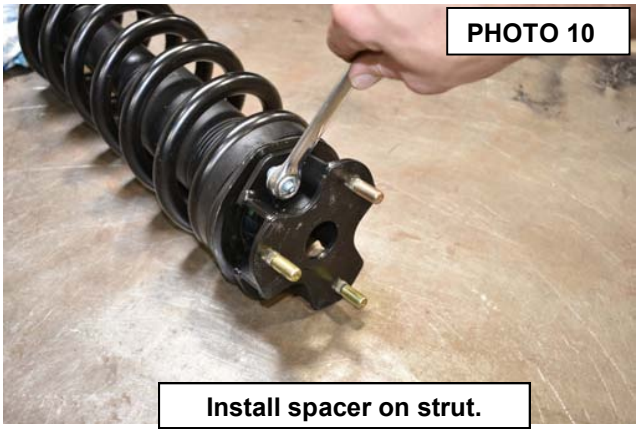
8. Place a jack under the lower control arm.
9. Using 21mm wrench, loosen the upper ball joint nut but do not remove. **See Photo 7.**
10. Using a hammer, strike the knuckle at the upper ball joint to release the taper. Remove and retain the ball joint hardware.
11. Remove the strut from the vehicle. **See Photo 8.**





12. Insert the supplied 10mm studs into the strut spacer. Install the supplied 1/2" nut, 3/8" washer and 10mm nut on the stud and using a 17mm wrench, tighten the nut to pull the stud into the spacer. Repeat on the remaining 5 studs. **See Photo 9.**
13. Using the factory hardware, install the strut spacers onto the top of the strut. Tighten using a 15mm wrench. **See Photo 10**.





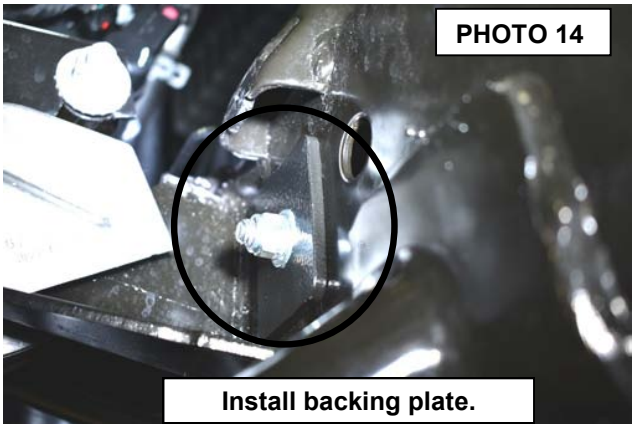
14. Install the supplied bump stop into the supplied bump stop bracket. **See Photo 11.**
15. Install the supplied 3/8" flat washer, 3/8" lock washer, and 3/8" nut onto the bump stop stud. Tighten using a 9/16" wrench. **See Photo 12.**



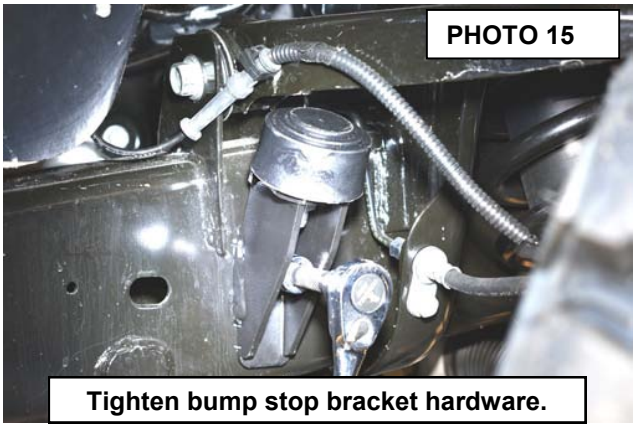


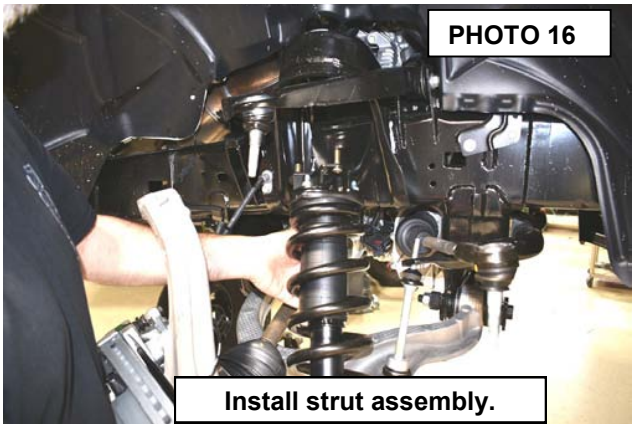
16. Install the supplied 7/16” x 4” bolt and flat washer into the bump stop bracket. **See Photo 13.**
17. Install the bracket in the frame and place the supplied backing plate on the inside of the frame rail along with the supplied 7/16” flat washer and nylock nut. **See Photo 14.**





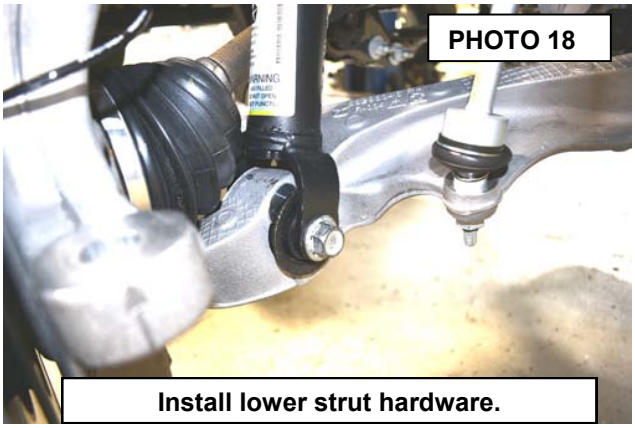
18. Tighten using a 5/8” socket and wrench. Torque to 60ft-lbs. **See Photo 15.**
19. Install the strut assembly back into the truck. **See Photo 16**.





20. Install the supplied 10mm flat washers, lock washers, and nuts on the upper studs. Tighten using a 17mm wrench. **See Photo 17.**
21. Install the factory hardware in the lower mount and torque to factory specs using a 21mm wrench and 24mm socket. **See Photo 18.**



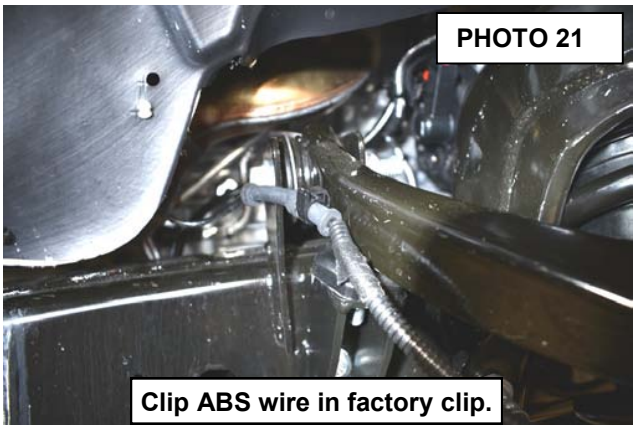


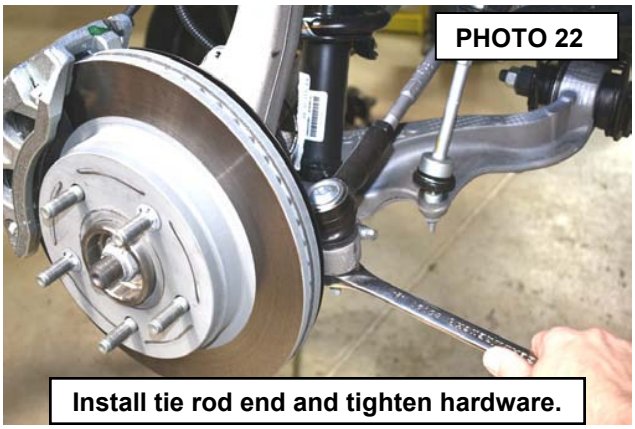
22. Install the upper ball joint in the knuckle using the factory hardware. Tighten using a 21mm wrench. **See Photo 19.**
23. Install the factory bushing, washer and nut on the sway link. Tighten using a 16mm wrench. **See Photo 20.**





24. Clip the ABS wire back into the factory clip. **See Photo 21.**
25. Install the tie rod end into the knuckle using the factory hardware and tighten using a 21mm wrench. **See Photo 22**.
26. Repeat the process on the opposite side of the vehicle.
27. Install the wheels and tires and lower the vehicle to the ground.





POST INSTALLATION

1. 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.
2. 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.
3. Have an alignment performed by an alignment professional, to the factory specs.
4. Re torque all fasteners after 500 miles. Visually inspect components and re torque fasteners during routine vehicle service.
5. Readjust headlights to proper settings and take truck in for a front-end alignment to a qualified alignment

Alignment Specs

Front	Min		Max
Total Toe	-0.00°	+0.10°	+0.20°
Front Camber	-0.30°	+0.10°	+0.50°
Caster	+3.00°	+3.50°	+4.00°
Rear			
Total Toe	+0.00°	+0.30°	+0.60°
Rear Camber	-0.60°	-0.10°	+0.40°
Thrust Angle	-0.25°	+0.00°	+0.25°

KIT COMPONENTS

KIT CONTENTS:

2-Front Strut Spacers
2-Bump Stop Brackets
2-Bump Stops
1-30300Bag1
- 2-3/8” Nuts
- 2-3/8” Flat Washers
- 2-3/8” Lock Washers
- 2-7/16” x 4” Bolts
- 4-7/16” Flat Washers
- 2-7/16 Nylock Nuts

1-10MMSTUDBAG-1
- 6-10mm Studs
- 7-10mm Nuts
- 6-10mmFlat Washers
- 6-10mm Lock Washers
- 1-1/2” Jam Nut



Thank you for purchasing a Rough Country Leveling 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.