TRAIL FORTRESS

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Rough Country 35400 Installation Instructions

2-Inch Leveling Kit for 2019–2025 Ram 1500

Part number: 35400

trailfortress.com/2-inch-leveling-kit-ram-1500-rough-country-35400

Scan for fitment, price and install help

921354000

ROUGH COUNTRY SUSPENSION SYSTEMS®

35400BAG

Dodge 2019 1500 4WD 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 295/60R20, 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:

16mm Socket / Wrench
18mm Socket / Wrench
21mm Socket / Wrench
22mm Socket / Wrench
24mm Socket / Wrench
Strut Compressor
Hammer
Jack
Jack Stands
Torque Wrench

Torque Specs:

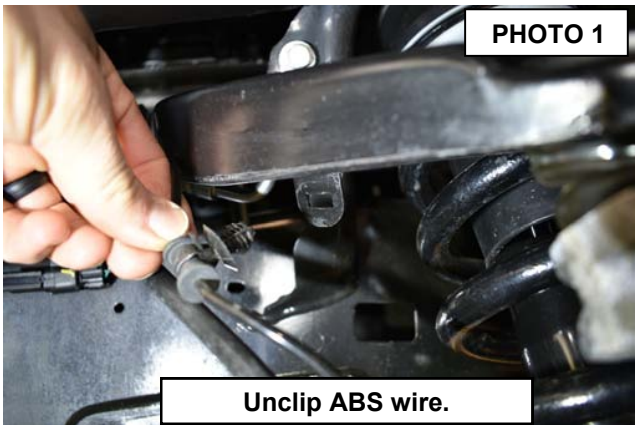
Size	Grade 5	Grade 8
5/16”	15 ft/lbs	20 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs

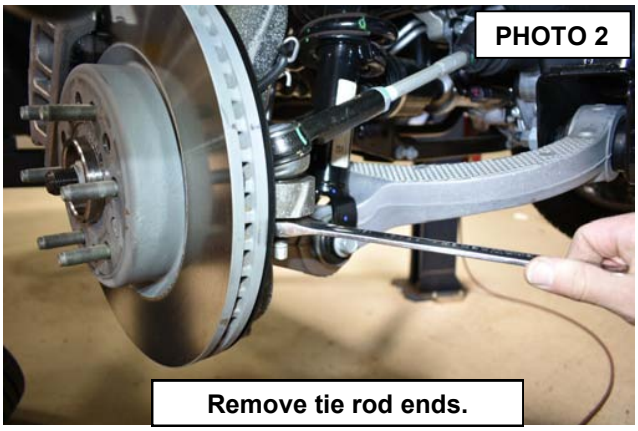
	Class 8.8	Class 10.9
10MM	32ft/lbs	45ft/lbs
18MM	170ft/lbs	240ft/lbs

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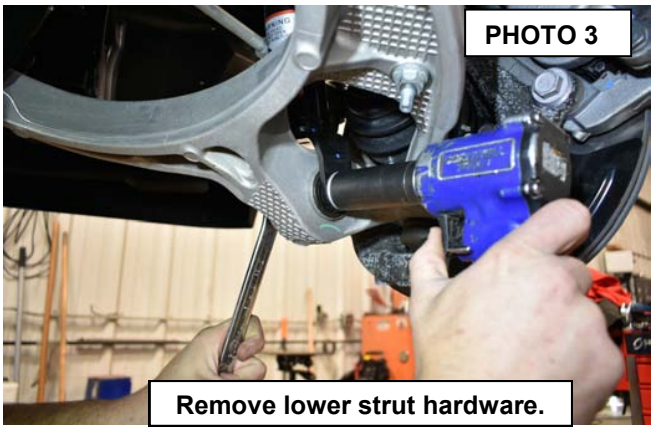
INSTALLATION INSTRUCTIONS

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. Disconnect the electric rack and pinion.
3. Using 22mm socket remove the front tires/wheels.
4. Unclip the ABS wire from the upper control arm. **See Photo 1.**
5. Using a 21mm wrench, remove the tie rod end nut and tie rod end from the knuckle. **See Photo 2.**



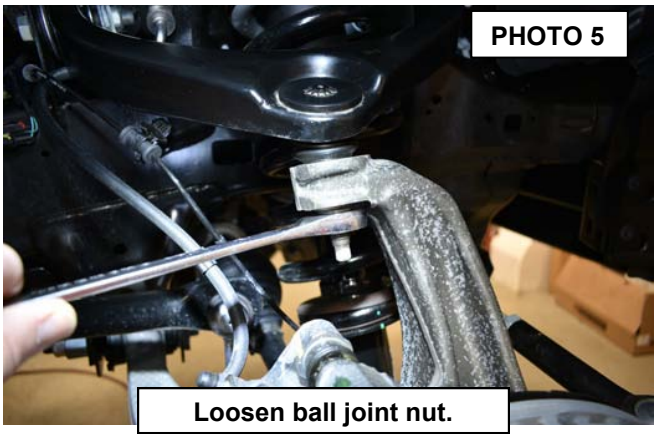


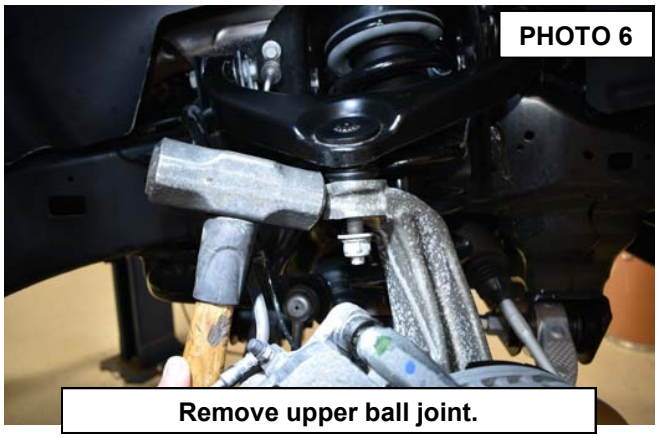
6. Using a 21mm wrench and 24mm socket, remove the lower strut mounting bolt. Retain hardware for reuse. **See Photo 3**
7. Using an 18mm socket, remove the lower sway link nut. Retain hardware for reuse. **See Photo 4**.





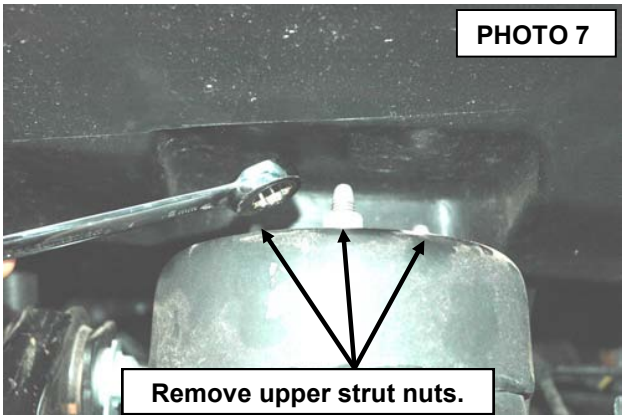
8. Using a 21mm wrench, loosen the upper ball joint nut. **Do not completely remove the nut. See Photo 5.**
9. Using a hammer, strike the knuckle at the upper ball joint to release the ball joint from the knuckle. Remove the nut and retain for reuse. **See Photo 6.**





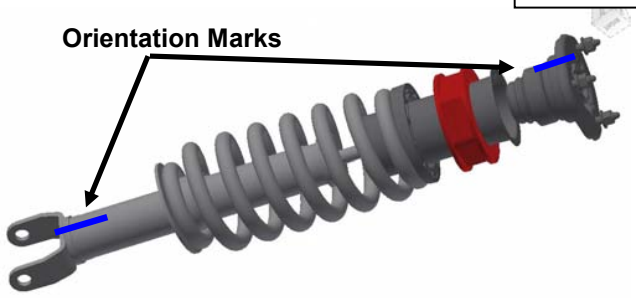
10. Place jack stand under the knuckle for support. Using a 16mm socket, remove the strut nuts on the upper strut tower. Do not allow the knuckle to pull out far enough that it pulls the CV shaft out of the differential. **See Photo 7.**
11. Mark the orientation of the strut hat on the strut by making a mark on the strut hat and the strut body.
12. Place a strut compressor on the coil spring and compress the coil, so the strut top nut **(DO NOT USE AN IMPACT)** can be removed. Next remove the strut top and add the preload spacer to the coil assembly. The spacer will fit between the factory coil isolator and the strut top.
13. With the coil spring still compressed assemble the strut, align the marks from step 11, and tighten the strut top nut **(DO NOT USE AN IMPACT)**. **See Photo 8.**

PHOTO 7



Remove upper strut nuts.

PHOTO 8



Compress strut, install pre-load spacer.

14. Install the strut assembly into the strut tower using the factory nuts. Tighten using a 16mm wrench.
15. Install the lower strut bolt in the original position that it was removed. Torque to factory specs.
16. Using a floor jack, raise the lower control arm and connect the upper ball joint on the upper control arm to the spindle. Torque to manufacturer specs.
17. Using a 21mm socket reinstall the tie rod end nut.
18. Repeat steps 4-17 on opposite side of vehicle
19. Using an 18mm socket and the factory nut reinstall the sway link in the lower control arm. Torque to factory specs.
20. Reconnect the electric rack and pinion.
21. Install the wheels / tires.
22. Jack up the vehicle and remove the jack stands. Lower the vehicle to the floor and torque all bolts to factory specifications.

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. Re torque all fasteners after 500 miles. Visually inspect components and re torque fasteners during routine vehicle service.
4. Readjust headlights to proper settings and take truck in for a front-end alignment to a qualified alignment professional.

Alignment Specs

Front			
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 Preload Spacers



Thank you for purchasing a Rough Country Leveling System.

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