TRAIL FORTRESS

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Rough Country 1317 Installation Instructions

2-Inch Leveling Kit for GMC Sierra 1500 Denali (2019-2025)

Part number: 1317

trailfortress.com/2-inch-leveling-kit-gmc-sierra-1500-denali-rough-country-1317

Scan for fitment, price and install help

921131700

GM 2019 1500 Adaptive Ride Control 2” Kit

Thank you for choosing Rough Country for all 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 on this page. 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 285/70/17, tire with factory wheels. **Note** if wider tires are used, offset wheels will be required and trimming will be required.

⚠NOTICE If equipped the electric power steering must be unplugged before any of the steering components are removed. Failure to do so may cause damage to the electric power steering.

If you have any questions concerning the design, function, and correct use of our products please contact us at 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.

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:

10mm Wrench
18mm Wrench
15mm Socket
15mm Wrench
16mm Wrench
17mm Wrench
21mm Wrench
21mm Deep Well Socket
4mm Allen Wrench
7/32 Allen Wrench
Flat Screwdriver
Hammer

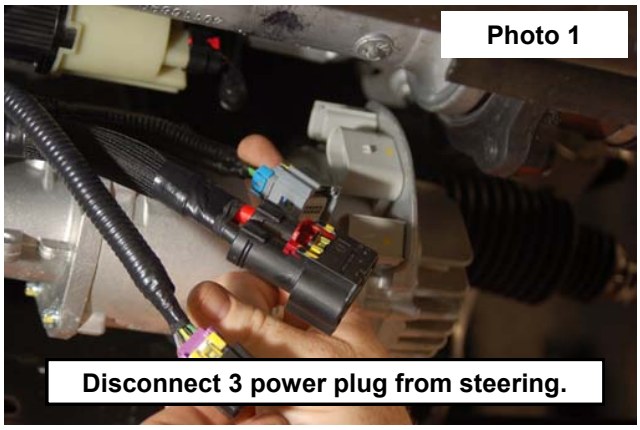
Torque Specs:

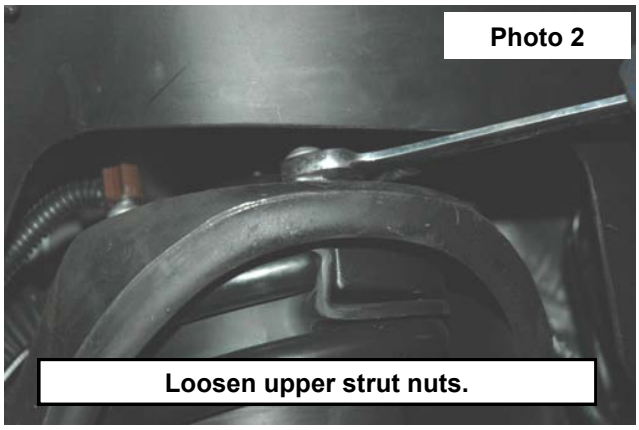
Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs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

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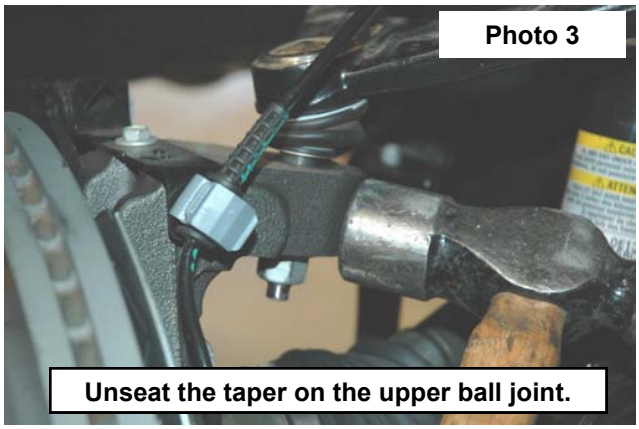
INSTALLATION INSTRUCTIONS

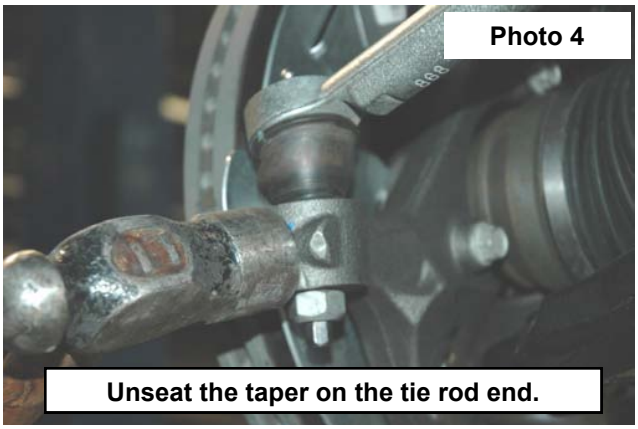
1. Jack up the front of the vehicle and support the vehicle with jack stands, so that the front wheels are off the ground
2. Remove the front tires/wheels using a 21mm deep well socket
3. On models with electric power steering, remove the 6 bolts holding the factory skid plate using a 15mm socket. Unplug the three connectors going to the electric power steering. **See Photo 1**.
4. Using a 18mm wrench loosen the upper strut nuts. It is not necessary to remove nuts. **See Photo 2.**



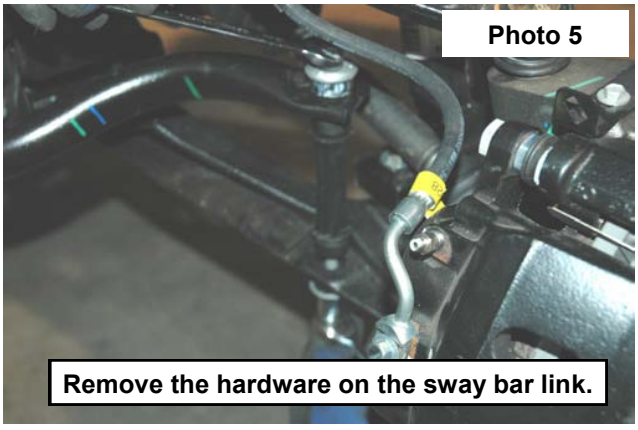


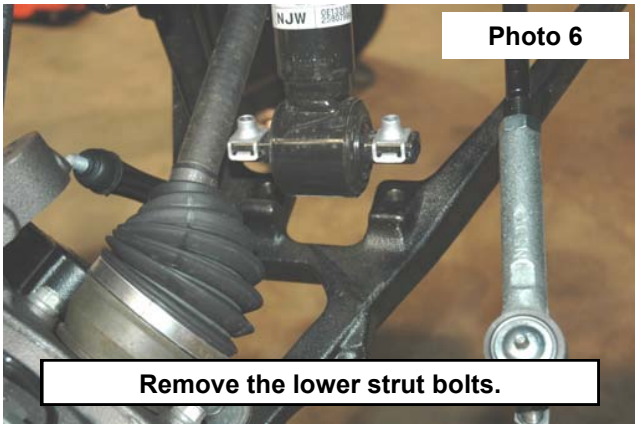
5. Place jack stand under the knuckle for support. Loosen upper ball joint nut, using a 18mm wrench. Using a hammer hit the knuckle as shown to allow the ball joint to separate from the knuckle. **See Photo 3.** Remove upper ball joint nut. Do not allow the knuckle to pull out far enough that it pulls the shaft out of the differential.
6. Using a 21mm wrench remove the nut from the steering linkage. Using a hammer hit on the front of the knuckle as shown, where the steering linkage is connected and remove from knuckle. Push linkage forward to make room for installation. Retain factory hardware. **See Photo 4**.



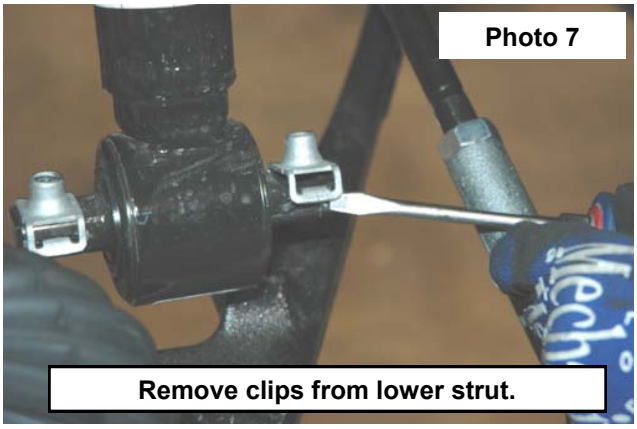


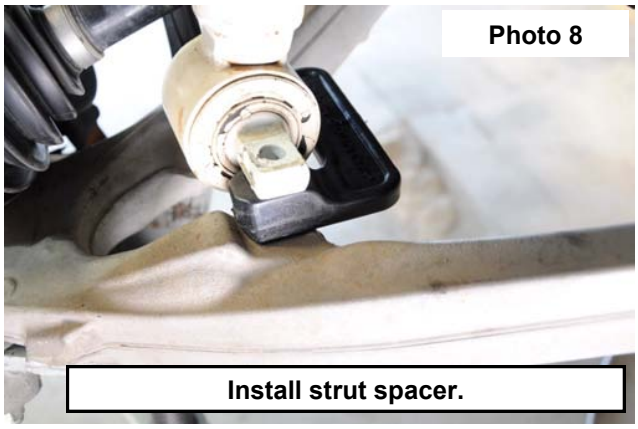
7. Remove the sway bar nut and bushings using a 15mm wrench, and 15mm socket. Retain factory hardware. **See Photo 5.**
8. Using a 15mm wrench remove the bolts from the bottom strut mount. **See Photo 6.**



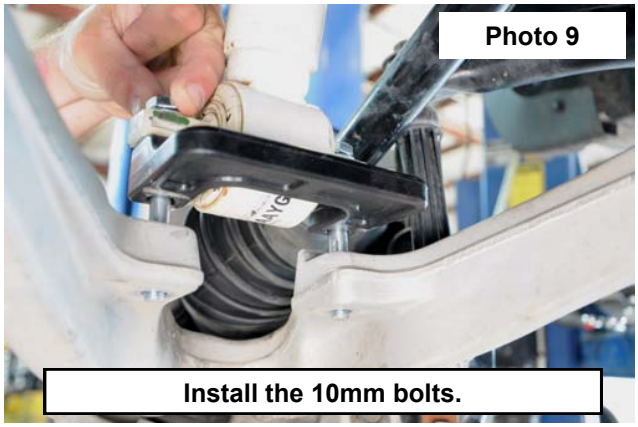


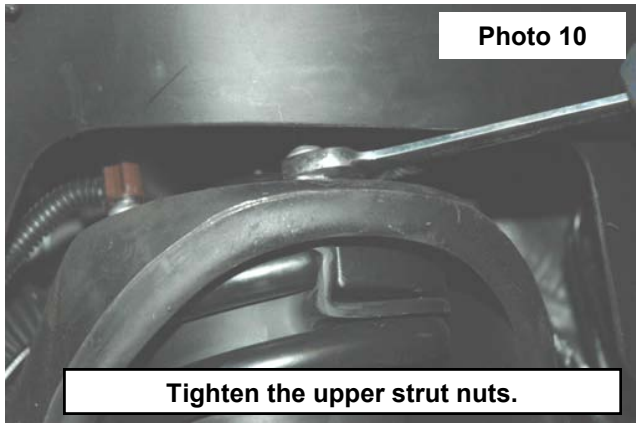
9. Remove the bolt clips from the bottom of the strut using a flat screw driver. **See Photo 7.**
10. Place strut spacer under the lower strut mount and align holes. **See Photo 8**.



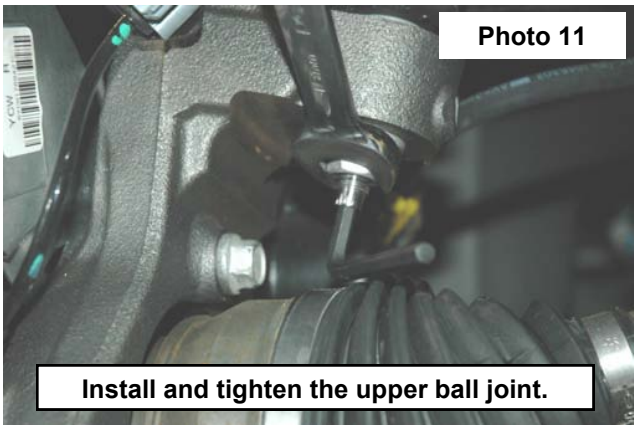


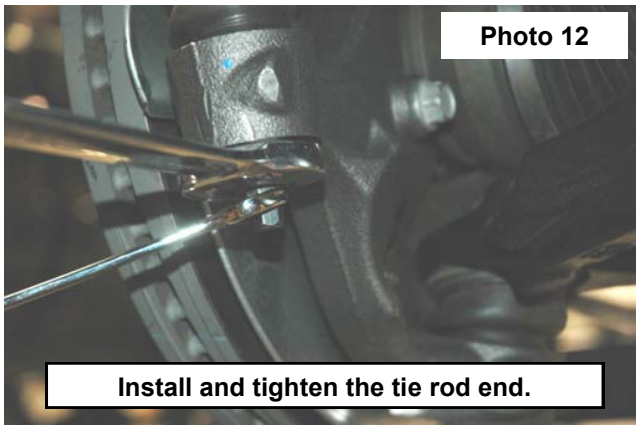
11. Install the new 10mm bolts, washers and nuts provided in the kit. . Install bolts with the head going down as shown in **Photo 9**. Tighten to 30-35 ft/lbs. **Do not over-tighten the bolts.** You may have to move the knuckle to one side to allow room to install the bolt by the axle shaft.
12. Tighten the bolt using a 17mm wrench, and a 16mm wrench for the nut.
13. Using a 18mm wrench tighten the upper strut nuts, torque to factory specs **See Photo 10**.



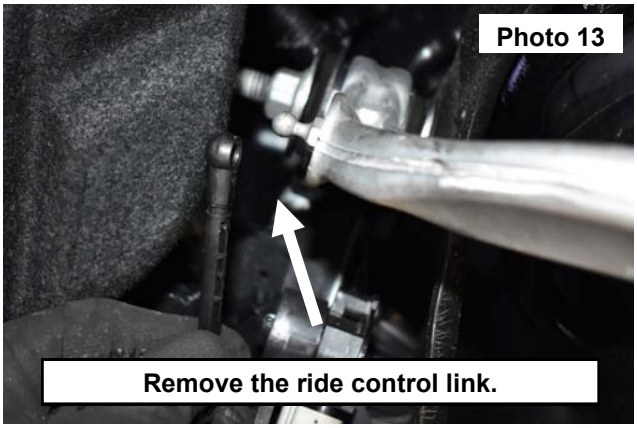


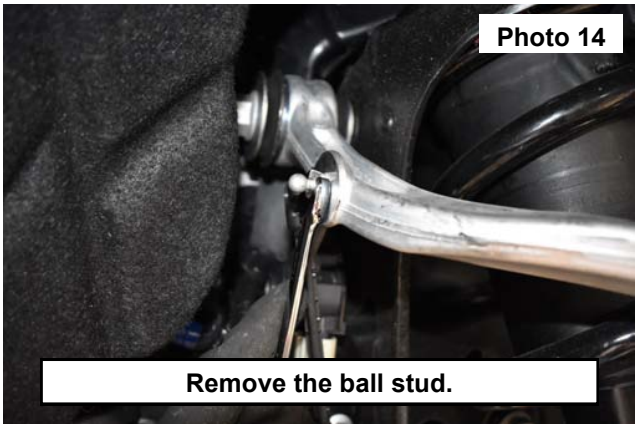
14. Raise the lower control arm and connect the upper ball joint on the upper control arm to the spindle. Using a 18mm wrench, torque to manufacturer specs. If ball joint turns while tightening, use a 7/32”allen wrench to hold the ball joint. **See Photo 11**.
15. Reinstall the steering linkage nut using a 21mm wrench. If ball joint turns while tightening, use a 10mm wrench to hold the bottom of the tie rod. **See Photo 12**.





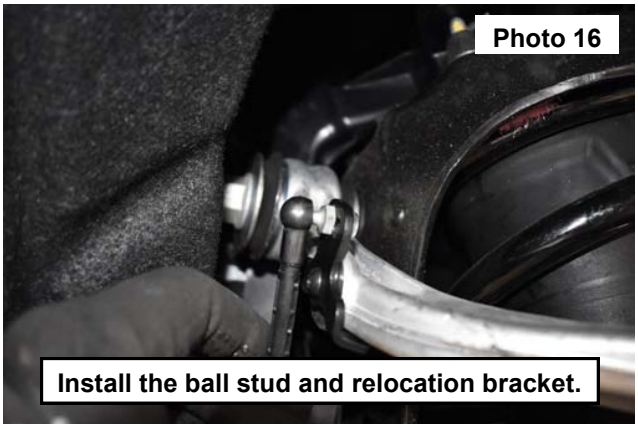
16. Remove the ride control linkage from the ball stud on the control arm, pull straight out. **See Photo 13.**
17. Remove the ball stud from the upper control arm, use a 10mm wrench. **See Photo 14.**





18. Install the ball stud in the rear hole, **The left front is pictured.** Use the supplied 6MM-1.0 nylock nut, tighten using a 10mm wrench. **See Photo 15.**
19. Install the bracket onto the upper control arm using a 6MM-1.0x14 BHAB, tighten using a 4mm allen wrench, push the ride control linkage back onto the ball stud. **See Photo 16.**





20. Repeat steps 4-16 on opposite side of vehicle
21. Using a 15mm wrench, reinstall sway bar bushings and nut using factory hardware. Torque to factory specs.
22. Plug the three connectors back into the electric power steering and re-install the factory skid plate.
23. Install the wheels / tires, using a 21mm deep well socket.
24. Jack up the vehicle and remove the jack stands. Lower the vehicle to the floor and torque all bolts to factory specifications.
25. Using an certified alignment professional, have an alignment done 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. Failure to perform inspections may result in component failure.
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.

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.

KIT CONTENTS

Kit Contents:
2-Front Strut Extensions
2-Relocation Brackets
1-Kit Bag that includes
4-10x1.5x85mm bolts
4-SAE Flat washers
4-10mm nuts
2-6mm-1.0 nylock nuts
2-6mm-1.0x14mm bolts



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 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.