TRAIL FORTRESS

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Rough Country 31012 Installation Instructions

2-Inch Leveling Kit with Sensor Brackets for Ram 1500 4WD

Part number: 31012

trailfortress.com/2-inch-leveling-kit-ram-1500-4wd-rough-country-31012

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

921310120

RAM 2019 1500 Air Ride Leveling 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 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.

⚠NOTICE **Fits 4wd Air Ride models only.**



KIT CONTENTS:
Driver Side Sensor Bracket x1
Passenger Side Sensor Bracket x1

TOOLS NEEDED:
T20 Torx
10mm Wrench or Socket
Jack
Jack Stands

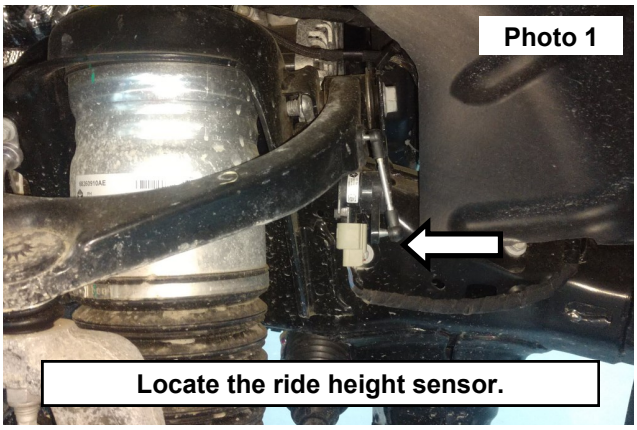


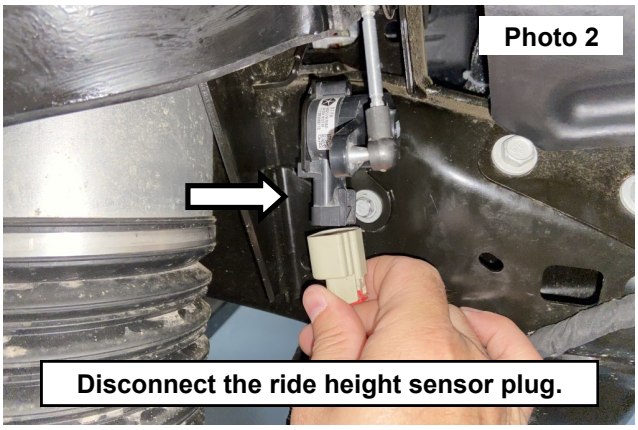
Torque Specs:

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

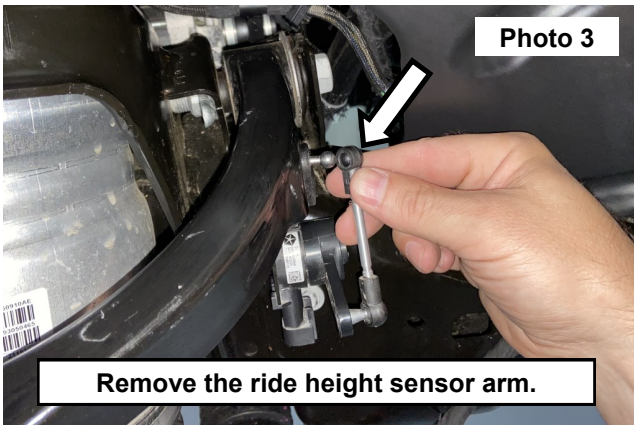
INSTALLATION INSTRUCTONS

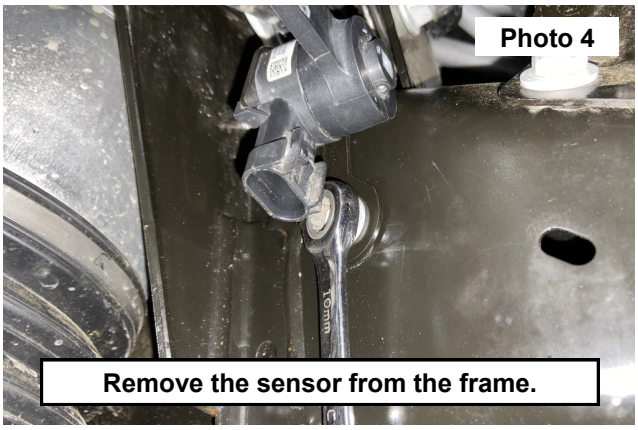
1. Place vehicle in Tire/Jack mode. Using a jack raise the front of the vehicle up, place jack stands under the frame and lower the vehicle onto them.
2. Remove the front wheels and tires.
3. Shown on the Passengers side of the vehicle, locate the ride height sensor bolted to the frame and connected to the upper control arm by the sensor arm. **See Photo 1.**



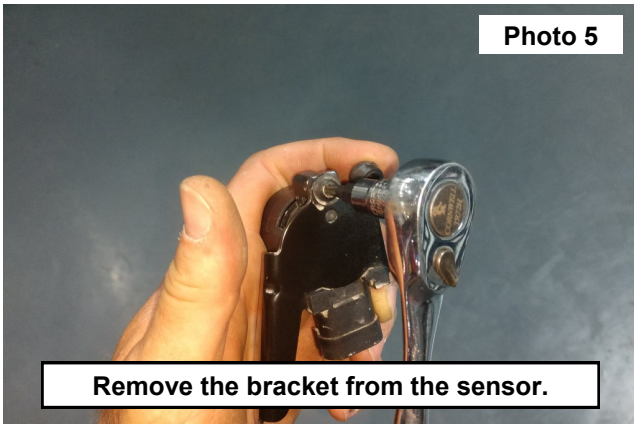


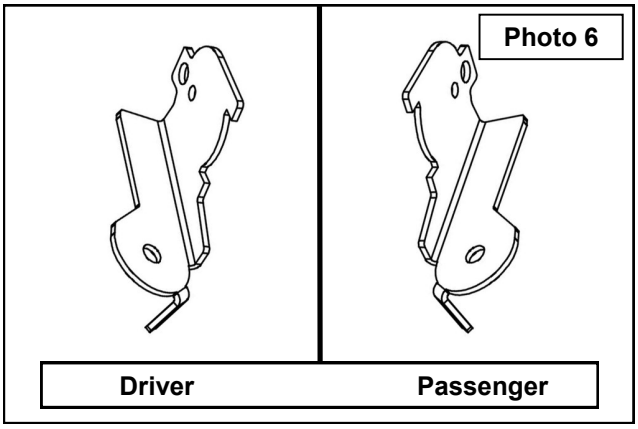
4. Release the Red tab and disconnect the ride height sensor plug. **See Photo 2.**
5. Remove the ball from the ride height sensor arm from the upper control arm. **See Photo 3.**
6. Using a 10mm socket remove the ride height sensor from the frame. **See Photo 4.**



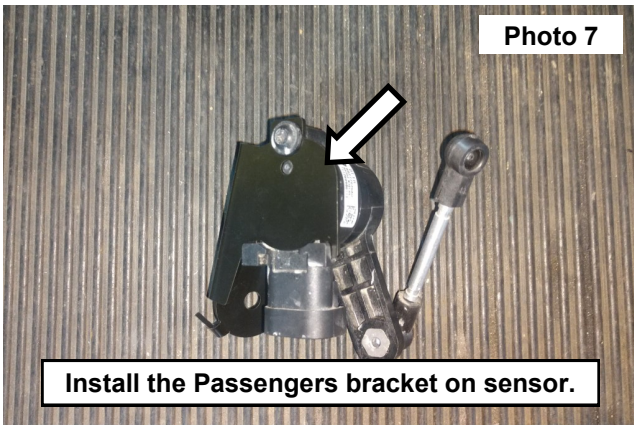


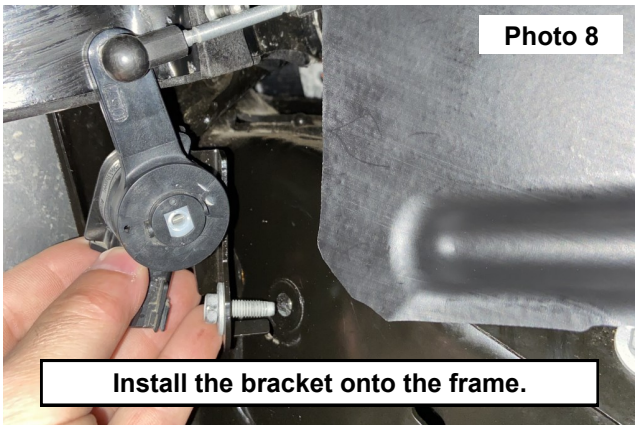
7. Using a T20 torx, remove the sensor from the mounting bracket. Retain hardware. **See Photo 5.**
8. Locate the Passengers side sensor bracket. **See Photo 6.**



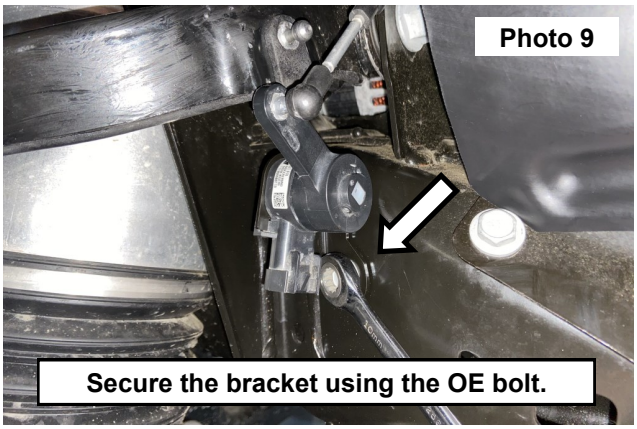


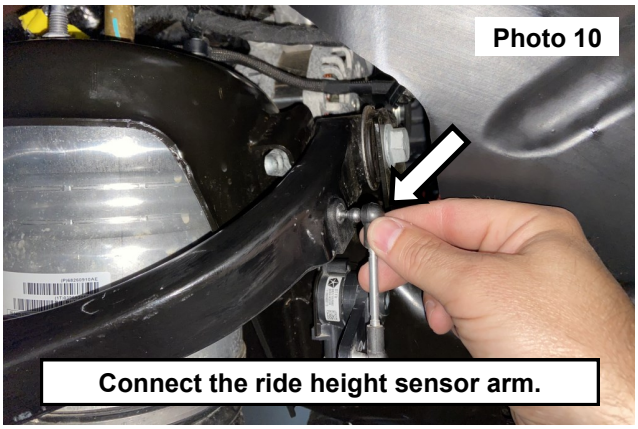
9. Install the supplied Passengers side bracket onto the sensor. **See Photo 7.**
10. Install the assembled bracket and sensor onto the OE frame location. **See Photo 8.**



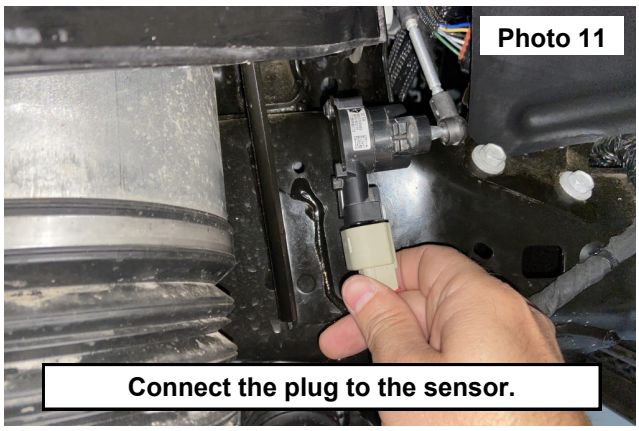


11. Secure using the retained bolts and tighten using a 10mm wrench. **See Photo 9.**
12. Connect the ride height sensor arm to the ball on the upper control arm. **See Photo 10.**





13. Connect the plug to the ride height sensor. **See Photo 11.**



14. Repeat steps 3-13 on the opposite side of the vehicle.
15. Install the front wheels and tires.
16. Use a jack to raise the front of the vehicle up. Then remove the jack sands and lower onto the ground.

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