TRAIL FORTRESS

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Rough Country 100116 Installation Instructions

Air Spring Kit for 2019-2025 Silverado 1500 and Sierra 1500

Part number: 100116

trailfortress.com/air-spring-kit-silverado-1500-and-sierra-1500-rough-country-100116

Scan for fitment, price and install help



CHEVY 2019-21 1500 Rear Air Spring Kit

Thank you for choosing Rough Country for all your vehicle needs.
Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

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.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend, because of rollover possibility, that 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/heavier tires and wheels are used. Take this into consideration while driving. Also, speedometer recalibration is necessary when larger tires are installed. Do no 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, with this 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.

⚠NOTICE **NOTICE TO DEALER AND VEHICLE OWNER**

Any vehicle equipped with any Rough country product must have the “Warning to Driver” decal installed on the sun visor or 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.

⚠NOTICE **Note to installer**: Before installation begins we recommend that a test drive be performed. While driving check for uncommon sounds and/or vibrations . What you feel and hear during the test drive will only magnify once lift kit is installed. Advise you to discuss possible issues identified from drive with customer before proceeding to install this kit.

⚠NOTICE **Airbags will not increase the maximum load capacity**.

⚠NOTICE

Min/Max psi for Airbags:

5-100 psi

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

Kit Contents:
Air Bags x2
Dr Side Upper Bracket x1
Pass Side Upper Bracket x1
Dr Side Lower Bracket x1
Pass Side Lower Bracket x1
90° Fitting x2
Inflation Valve x2
Heat Shield x1
Hose Clamp x2

Tools Needed:
Flat Head Screw Driver
7/32” Allen Wrench
7/16” Socket/Wrench
9/16” Socket/Wrench

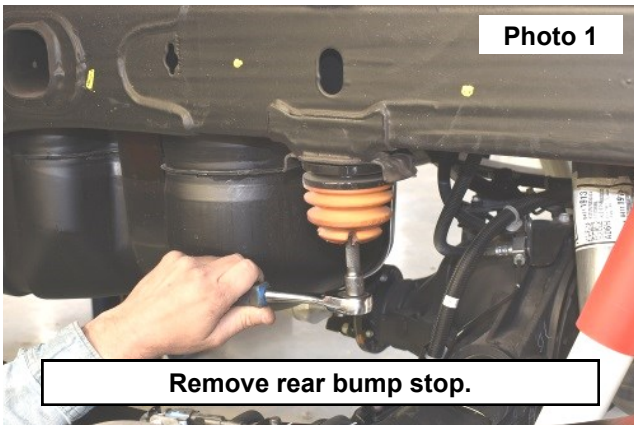
T40 Torx Bit (Trailboss only)
8mm Socket/Wrench (Trailboss only)
21/64” Drill Bit (Gooseneck only)
Drill (Gooseneck only)

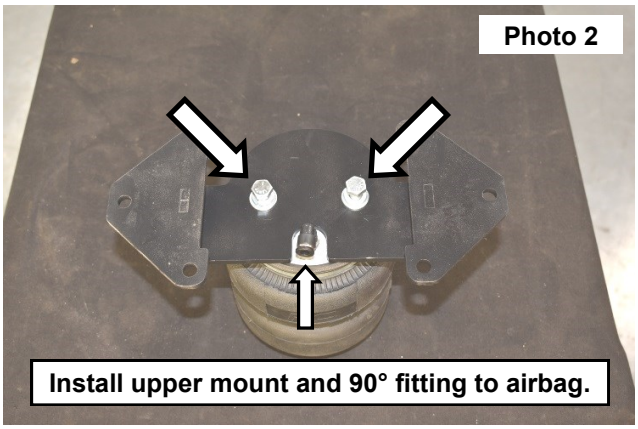
Hardware Included:
3/8” x 4-7/8” x 6-1/4” U-Bolts x4
3/8” x 1” Self-Tapping Bolts x4
3/8” x 1” Bolts x4
3/8” Flat Washers x4
3/8” Lock Washers x4
3/8” x 3/4” Flat Head Bolts x4
1/4” x 3/4” Carriage Bolts x4
1/4” Flat Washer x4
1/4” Lock Nut x4
3/8” Flange Nuts x8
Cable Ties x6
1/4” DOT Air Line x20ft



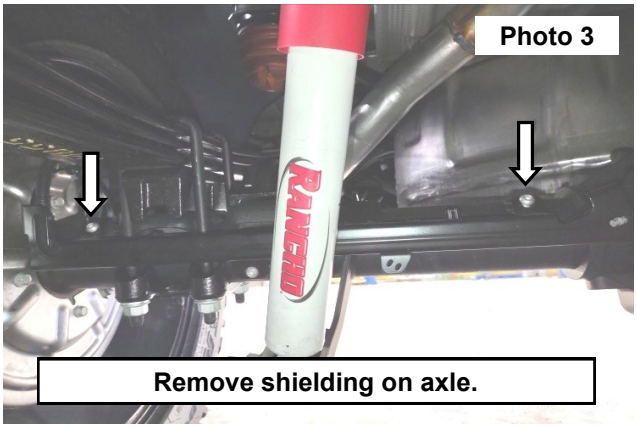
INSTALLATION INSTRUCTIONS

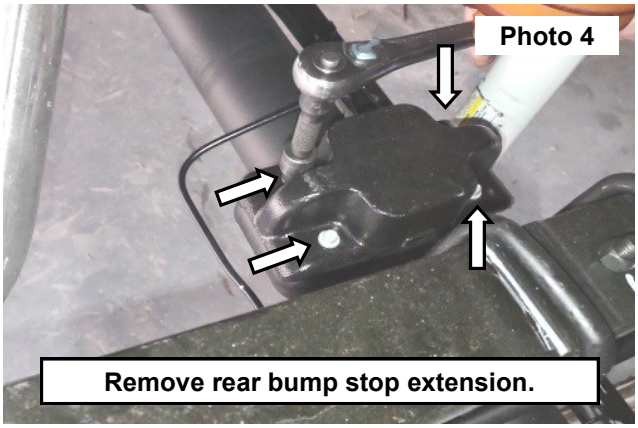
1. **NOTE: The instructions show for a lifted vehicle. For stock ride height, instructions will be the same with the exception of the spacer**.
2. Jack up the rear of the vehicle and place on jack stands. Remove rear wheels.
3. Remove the rear bump stop using a 10mm socket. **See Photo 1**.
4. Install the upper mount and 90° fitting to the air bag with the 3/8" bolts using 9/16" socket/wrench. **See Photo 2**.





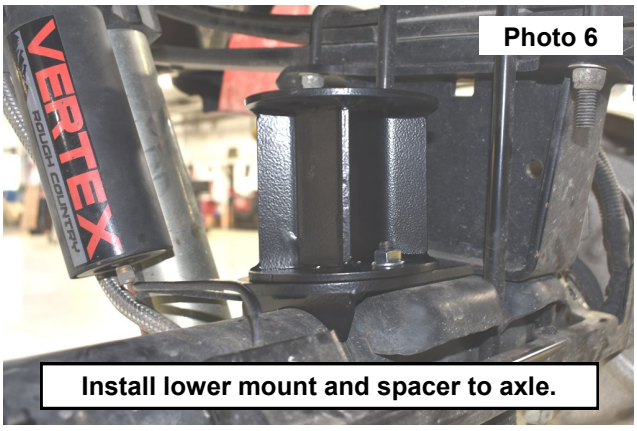
5. **Trailboss/AT4 Models Only:** Remove the shielding on the axle using T40 Torx bit. **See Photo 3**. Remove the rear bump stop extension using an 8mm socket/wrench. **See Photo 4** and **Photo 5**.





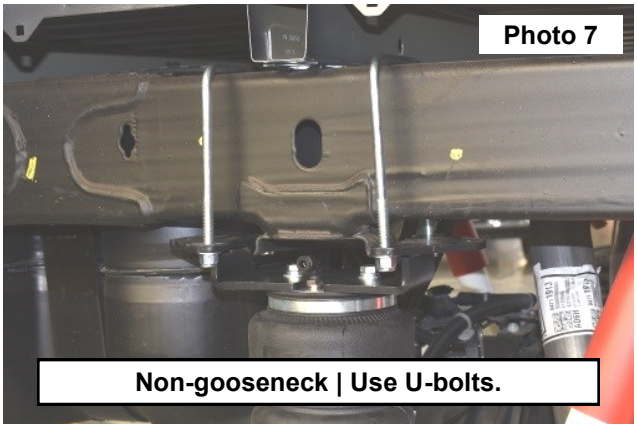
6. Install lower mount to the spacer or air bag (non-lifted applications) with the 3/8" flat head bolts using a 7/32" Allen wrench and 9/16" socket/wrench. Secure the mount to the axle using the supplied 1/4" carriage head bolts and nuts

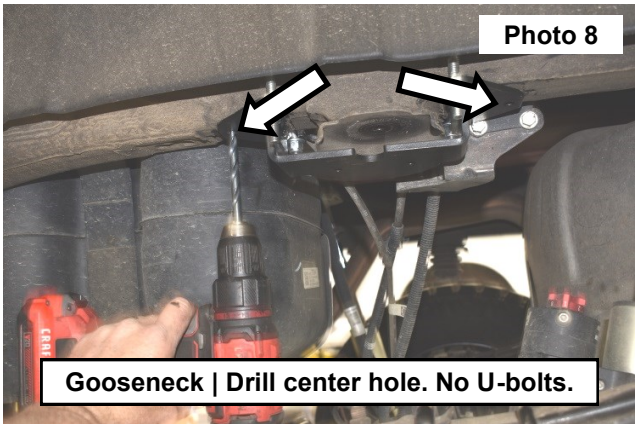




and 7/16 socket. **See Photo 6**.

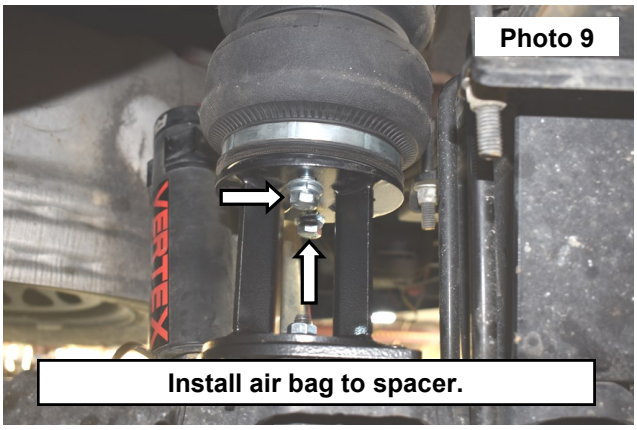
7. **Vehicles without a gooseneck hitch:** Install the air bag and top mount to the frame using the supplied U-bolts and 3/8” flange nuts. **See Photo 7**.
8. **Vehicles with a gooseneck hitch:** Drill holes into the frame through the upper mount using a 21/64” drill bit and





install air bag and top mount to frame using 3/8” self tapping bolts. U-bolts will not fit this application. **See Photo 8**.

9. Raise axle and install the air bag assembly to the axle with the supplied 3/8” x 1” bolts, flat washer, and lock washer



using a 9/16 socket/wrench. **See Photo 9**.

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