TRAIL FORTRESS

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Rough Country 28300 Installation Instructions

1.5-2 Inch Torsion Key Lift Kit for Silverado and Sierra 1500

Part number: 28300

trailfortress.com/1-5-2-inch-torsion-key-lift-kit-silverado-and-sierra-1500-rough-country-28300

Scan for fitment, price and install help

921283000

ROUGH COUNTRY SUSPENSION SYSTEMS®

28300BAG

99-06 CHEVY/GM 1500 1.5-2” Kit

Thank you for choosing Rough Country for 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.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is, the easier it will roll. Offset, as much as possible, what is lost in rollover resistance by increasing tire track width. In other words, go "wide" as you go "tall".

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, lifts, and/or combining body lift with 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.

Braking performance and capability are decreased when significantly larger/heavier tires and wheels are used. Take this into consideration while driving.

The required installation time for this system is approximately 2.5 hours. This suspension system was developed using **285x75R16 tire on an 8” wheel**. Before installing other combinations, please consult your local tire and wheel specialist. If questions exist on 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.

⚠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.

Tools Needed:

15mm Wrench /socket
21mm Wrench/Socket
3/4” Wrench/Socket
13/16” Wrench/Socket
Drill Motor
17/32” Drill
Torque Wrench

Rough Country Torsion Tool **1067**

Kit Contents:

28300 Box Contains:

(2)Torsion Keys
(2) Rear Shock Brackets
(2) Rear Lift Blocks
(4) U-Bolts
(1) 9/16BAG
(1) 28300BAG2

28300BAG2 Contains:

(2) Upper Frt Shock Spacers
(2) 1/2” x 1.5” Bolts
(2) 1/2” Nuts
(4) 1/2” Flat Washers
(2) 1/2” Lock Washers
(2) 9/16” x 3” Bolts
(2) 9/16” Flat Washers
(2) 9/16” Top Lock Nuts
(2) Shock Brkt Sleeves

FRONT INSTALLATION INSTRUCTIONS

1. Place the vehicle in neutral. Raise the front of the vehicle with a jack to slightly raise the tires of the ground and support the frame with jack stands beneath each frame rail behind the lower control arms. Installation is done one side at a time, starting with the driver side. The torsion bar adjusters are under the cab of the vehicle at the rearward end of the torsion bars.
2. Measure or make a note of how much thread is remaining on the torsion bar adjuster bolt. You will reset the bars at this same location with the new adjusters. **See Photo 1.**
3. Use extreme caution when loading and unloading the torsion bars; there is a tremendous amount of energy stored in them. Keep your hands and body clear of the adjuster arm assembly and the puller tool in case anything slips or

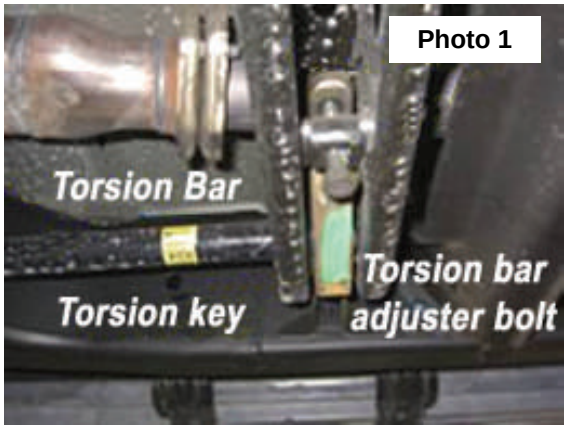


Photo 1


Photo 2

breaks. Part # 1067 torsion bar removal tool is available from Rough Country. **See Photo 2.**

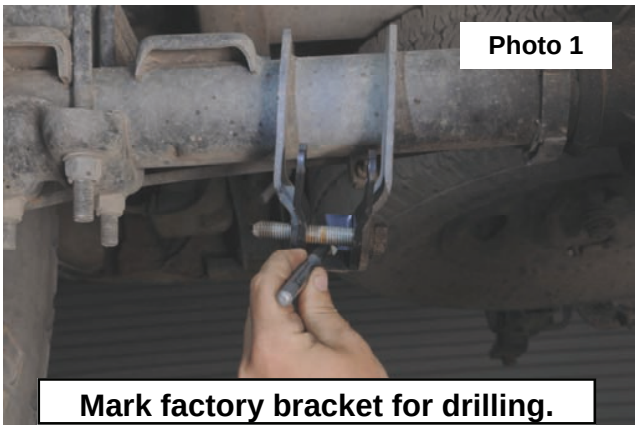
4. On the driver side, using a torsion bar removal tool, remove the stock torsion bar adjuster by loading the torsion bar using the tool and removing the bolt and nut block. Slide the torsion bar forward allowing the OE torsion key to fall out.
5. Install the new torsion bar adjuster using the torsion bar tool. Reinstall the threaded block and adjuster bolt.
6. Repeat steps for passenger side. Making sure the driver and passenger side torsion bar adjuster bolts are adjusted the same amount. Fine-tuning is done in a later step.
7. Remove the factory shock absorbers, using a 15mm wrench for the top and 21mm socket for the bottom mount, and install the supplied spacer and reinstall the shock on the truck using the factory hardware. Torque to factory specs. **See Photo 3.**
8. Jack up the front of the vehicle and remove the jack stands. Lower the vehicle to the ground to where the torsion bars are supporting the weight of the vehicle.



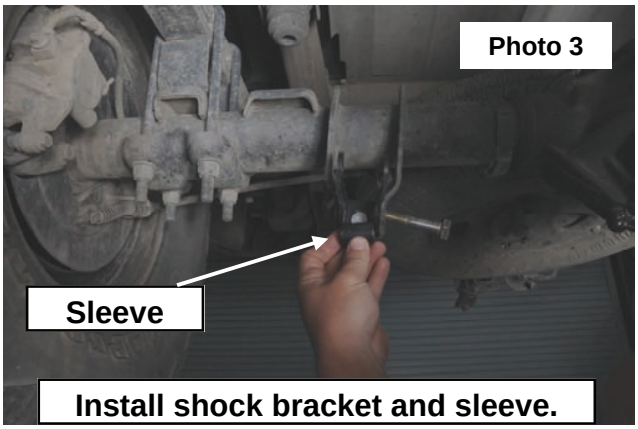
Photo 3

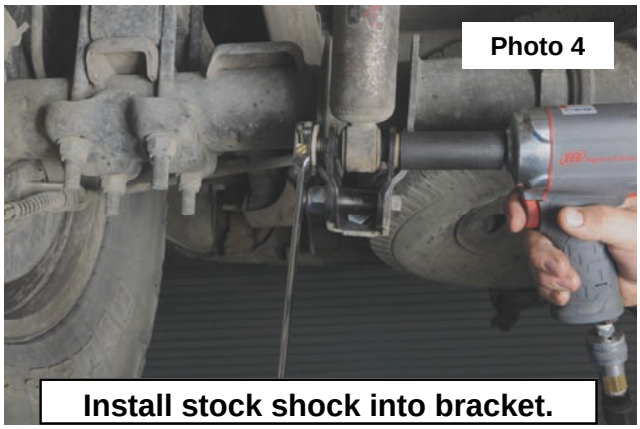
REAR INSTALLATION INSTRUCTIONS

1. Chock the front wheels and jack up the rear of the vehicle. Support the vehicle with approved jack stands.
2. Remove the factory shocks. Support the rear axle with a jack.
3. Loosen the passenger u bolts.
4. Remove the drivers side u bolts.
5. Lower the jack and **remove** factory block and continue to lower the axle until the lift block can be installed (**do not reuse factory block**). The small end of the block faces the front of the truck.
6. Install the new u bolts, washers, and nuts. Do not tighten at this time.
7. On the passenger side remove the u bolts and lower the jack and install the lift block.
8. Tighten u-bolts, alternating from bolt to bolt. Torque 9/16" u-bolts to 87 ft. /lbs
9. Grinding may be required on the driver side e-brake bracket on the lower shock mount. If needed grind the threads to make sure there is no interference with the shock absorber or remove the bolt from the lower shock mount
10. Install the new shock bracket and use as a guide to mark the factory bracket for drilling. **See Photo 1.**
11. Drill marked hole using a 17/32" drill. **See Photo 2.**
12. Attach the shock relocation bracket to the rear of the factory bracket using the supplied 1/2" x 1.5" bolt, washers, and nut. Install the supplied sleeve and 9/16" x 3.5" bolt, washers, and nut. Torque per the torque specs on page 1. **See Photo 3.**
13. Install the shock using the factory hardware. Torque to factory specs. **See Photo 4.**
14. Install the wheels and tires. Lower the vehicle to the ground.









Torque Specs:

Size	Grade 5	Grade 8
1/2"	65 ft/lbs	90 ft/lbs
9/16"	95 ft/lbs	130 ft/lbs

POST INSTALLATION INSTRUCTIONS

After the torsion bar adjusters have been installed and tightened to the factory measurement taken in step #2. additional adjustment may need to be performed to level the vehicle. This is done by either tightening or loosening the torsion bar adjuster bolts. Use a floor jack to support the side of the vehicle that is being adjusted, raising the tires slightly of the ground and only adjusting the bolt 1-2 turns at a time to ensure the leveling of the truck. After adjustment lower the vehicle to the ground and recheck for level. This may take several attempts. As with any lift installed, adjustment of the front headlights is required after installation. Note – the air dam on the front may need to be trimmed for additional clearance, depending on the tire size.

A front-end alignment should ALWAYS be checked after installing ANY vehicle suspension lift. This kit typically requires a slight toe-in adjustment. Record the ride height measurement at the time of alignment. If, in the future the torsion bars settle excessively, alignment can be restored by adjusting-up the bars to their original ride height.

Alignment Specs	Caster Left	Caster Right	Camber Left	Camber Right
	2	2.5	0	-1/4

Kit Contents



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.