TRAIL FORTRESS

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Rough Country 31006 Installation Instructions

Traction Bar Kit for Ram 2500 4WD (2003–2013)

Part number: 31006

trailfortress.com/traction-bar-kit-ram-2500-4wd-rough-country-31006

Scan for fitment, price and install help

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ROUGH COUNTRY SUSPENSION SYSTEMS®

31006BAG1

Dodge 03-13 2500 Traction Bar Kit

Thank you for choosing Rough Country for all your suspension needs.

⚠WARNING 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. 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 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 correct use of our products by calling our toll free number @ 800-222-7023.

DEALER AND VEHICLE OWNER

Install the supplied “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.



Kit Contents:
2-Axle Clamp Brackets
2-Axle Shims
2-Frame Brackets
2-Flag Nuts
2-Traction Bars
2-Threaded Joints
2-1” Jam Nuts
1-31003BAG1
1-31006BAG2

31006BAG2:
12-1/2” x 1 3/4” Bolts
4-1/2” Lock Washers
4-14mm x 100mm Bolts
4-14mm Nylock Nuts
8-14mm Flat Washers
8-1/2” Nylock Nuts
16-1/2” Flat Washers
2-1/4”-28 Grease Fittings

Tools Needed:
Wheel Chocks
Ratchet
1 1/8” wrench
22mm Socket
22mm Wrench
9/16” Wrench
3/4” Wrench
Drill Motor
9/16” Drill
Die Grinder
Torque Wrench
9/16” Socket
3/4” Socket

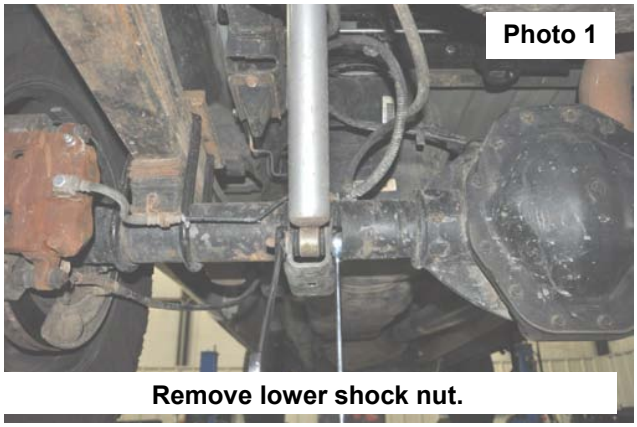
Torque Specs:

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
1/2”	65 ft/lbs	90 ft/lbs

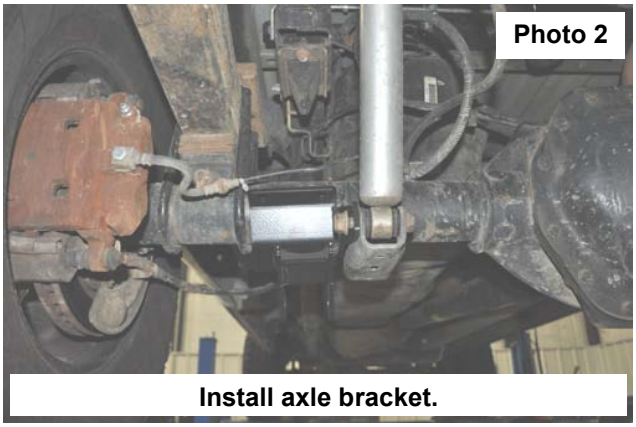
	Class 8.8	Class 10.9
6MM	5 ft/lbs	9 ft/lbs
8MM	18ft/lbs	23 ft/lbs
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
14MM	85ft/lbs	120ft/lbs

Installation Instructions

1. Using 21mm wrenches, remove the nut from the lower shock bolt. Retain hardware. **See Photo 1.**
2. Install the axle bracket under the axle while placing the tab over the lower shock mounting bolt. If installing on a 3.5" diameter axle, place the supplied shim between the axle and the axle bracket. **See Photos 2 & 3.**

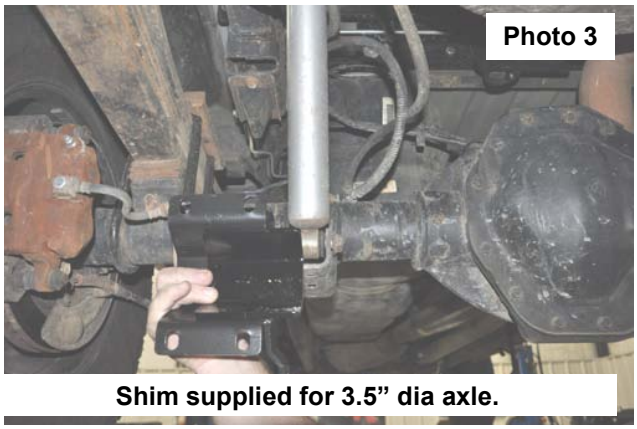


Remove lower shock nut.

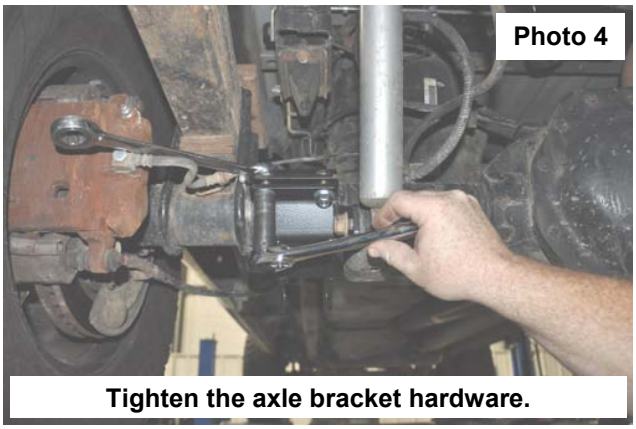


Install axle bracket.

3. Place the supplied top axle bracket over the axle and attach to the lower bracket using the supplied 1/2" x 1.75" bolts, flat washers and nylock nuts. Tighten the 1/2" hardware using a 3/4" socket and wrench. **See Photo 4.**

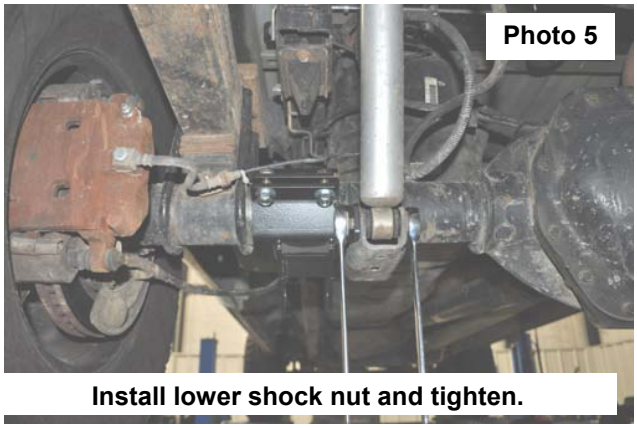


Shim supplied for 3.5" dia axle.

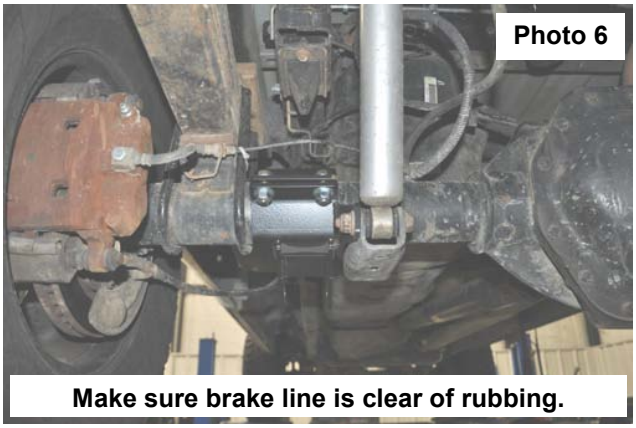


Tighten the axle bracket hardware.

4. Install the factory lower shock nut and tighten using 21mm wrenches. Torque to factory specs. **See Photo 5.**
5. Make sure brake lines are clear from rubbing on anything, we used a wire tie to secure the brake line to the u-bolt. **See Photo 6.**



Install lower shock nut and tighten.



Make sure brake line is clear of rubbing.

6. Install the joint into the end of the traction bar.
7. Measure 5-1/8” from the edge of the center frame section to the front of the frame mount. Make sure the frame bracket is centered on the frame rail. **See Photo 7.**
8. Using the frame bracket as a guide mark the holes for drilling. **See Photo 7.**
9. Drill using a 9/16” drill. **See Photo 8.**

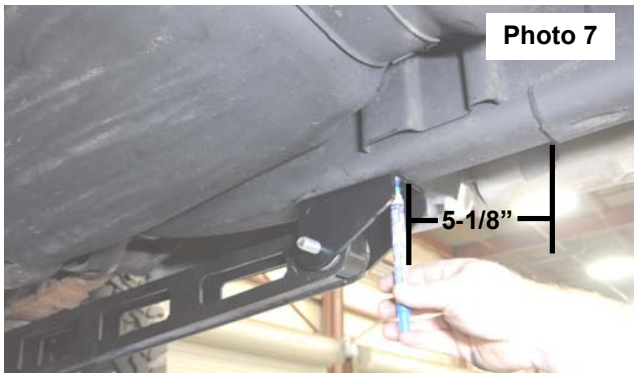


Photo 7
Measure from where 2 sections of frame meet.


Photo 8
Drill using a 9/16” drill.

10. Using a die grinder, open up the access hole in the side of the frame to fit the supplied flag nut in the frame rail. **See Photo 9.**
11. Paint drilled holes and access hole to prevent rusting.
12. Install the flag nut in the frame through the access hole and align with the holes drilled in step 9. **See Photo 10.**


Photo 9
Open up access hole on frame.


Photo 10
Install flag nut.

13. Install the frame bracket using the supplied 1/2” x 1.75” bolts and lock washers. Torque to 65t/lbs. **See Photo 11.**
14. Install the adjustable joint end of the traction bar on the axle mount using the supplied 14mm x 100mm bolt, washers, and nylock nut. Do not tighten at this time. **See Photo 12.**

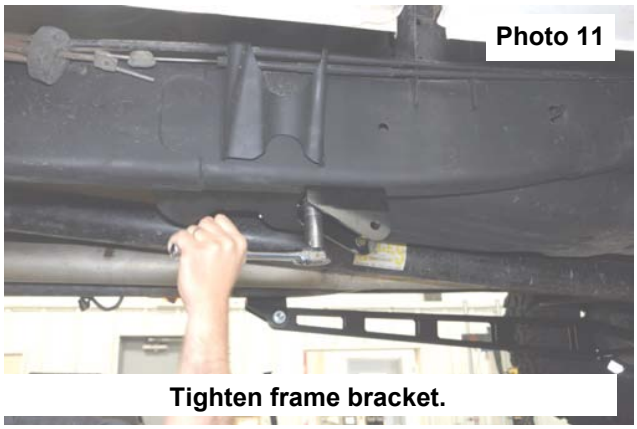
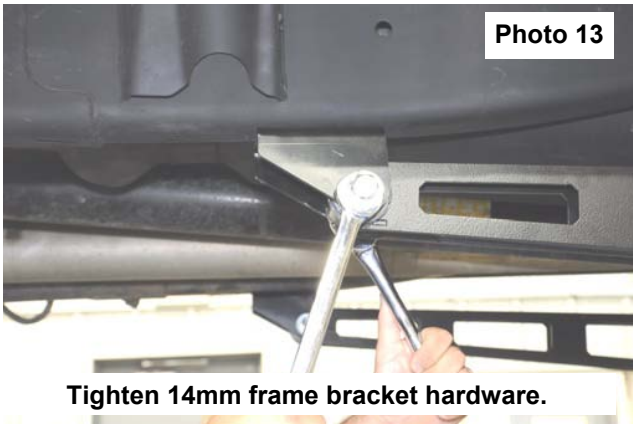


Photo 11
Tighten frame bracket.


Photo 12
Install traction bar assembly on axle bracket.

16. **Make sure vehicle is on the ground with weight on all four tires to set the traction bar length before attaching to the frame bracket.**
17. Install the fixed bushing end of the traction bar in the frame mount using the supplied 14mm x 100mm bolt, washers, and nylock nut. Tighten using a 22mm socket and wrench. Torque to 120ft/lbs. **See Photo 13.**
18. Tighten the axle end using a 22mm socket and wrench. Torque to 120ft/lbs. **See Photo 14.**
19. Tighten the jam nut using a 1-1/8" wrench.
20. Repeat process for opposite side.



Tighten 14mm frame bracket hardware.



Tighten 14mm axle bracket hardware.

POST INSTALLATION INSTRUCTIONS

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
2. Grease shackle components at each oil change.
3. Check and retighten wheels at 50 miles and again at 500 miles. Periodically check all hardware for tightness.
4. Install "Warning to Driver" decal on sun visor.
5. Install window cling Service Reminder.

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