Rough Country 100347 Installation Instructions

Air Spring Kit with 4-Inch 4-Degree Spacers for GM 2500/3500 HD

Part number: 100347

trailfortress.com/air-spring-kit-gm-2500-3500-hd-rough-country-100347

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

921100340

CHEVY 2020-23 2500/3500 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.

⚠NOTICE Airbags will not increase the maximum load capacity.

KIT CONTENTS:
Dr. Side Upper Bracket
Pass. Side Upper Bracket
2 - Lower Bracket
2 - Lower Strap
Heat Shield
2 - Air Spring
20' - DOT Air Line

TOOLS REQUIRED:
13mm Wrench or Socket
14mm Wrench or Socket
7/32 Allen Wrench
21mm Wrench or Socket
13/64" Drill
9/16" Wrench or Socket
Drill Motor
Thread Tape/Sealant

Hardware Included:
2 - Hose Clamp
2 - 90° Air Fitting
2 - Inflation Valve
8 - 3/8" x 3/4" Flat Head Bolt
4 - 3/8" x 2" Carriage Bolt
2 - 3/8" x 1" Self Tapping Bolt
3 - 8mm x 20mm Bolt
3 - 8mm Flat Washer
8 - 3/8" Flange Lock Nut
4 - 3/8 x 6 1/2" Bolt
2 - 3/8" x 3 5/8" x 4 3/4" U-Bolt
2 - 3/8" Nut Plate
4 - 3/8" Flat Washer
4 - 3/8" Lock Washer



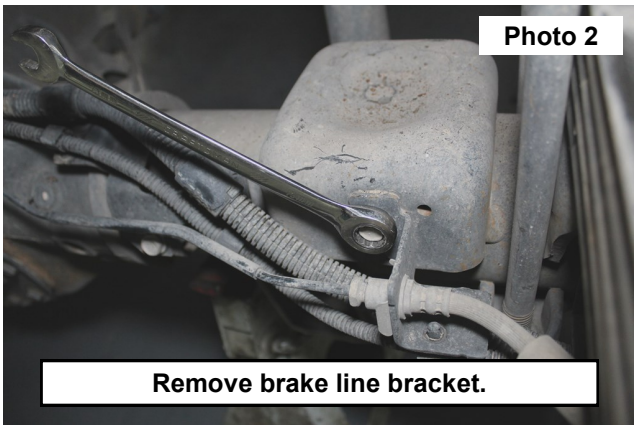
Torque Specs:

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

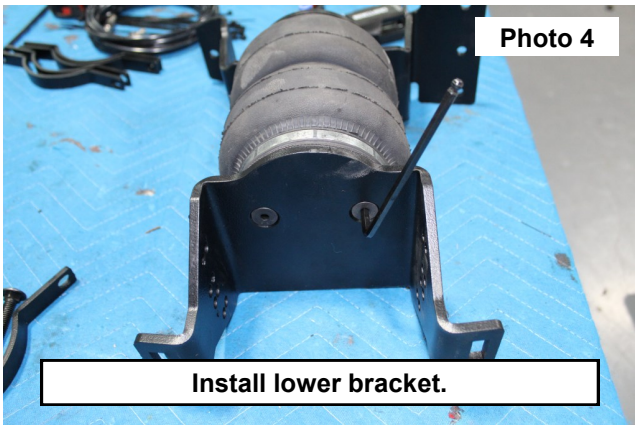
1. Chock the front wheels and use a floor jack to lift the rear of the vehicle. Place jack stands under the frame rails to support the vehicle. Remove the rear wheels.
2. Remove the rear bump stop by hand. **See Photo 1.**
3. Remove brake line bracket using a 13mm wrench. Retain hardware for reuse. **See Photo 2.**



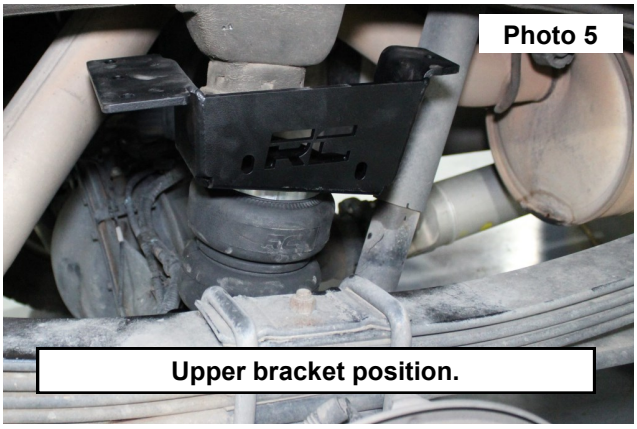


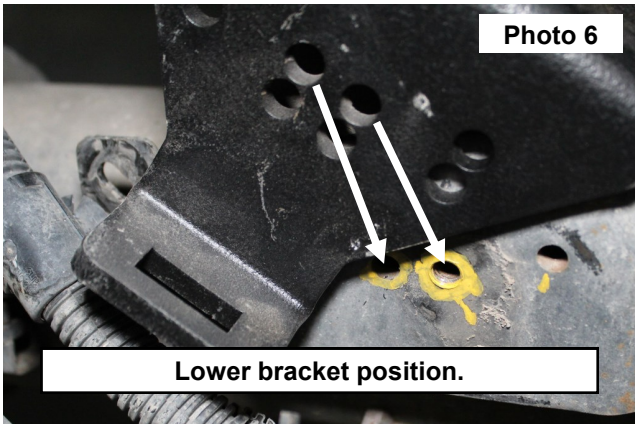
4. Install supplied 90° air fitting into the air bag, using thread tape/sealant, with a 14mm wrench. Place supplied passenger side upper bracket on top of air spring. Apply blue thread locker to supplied 3/8” flat head bolts and install with a 7/32Allen wrench. **See Photo 3.**
5. Apply blue thread locket to supplied 3/8” flat head bolts and install the lower bracket to the air spring. Tighten with a 7/32 Allen wrench, **See Photo 4.**



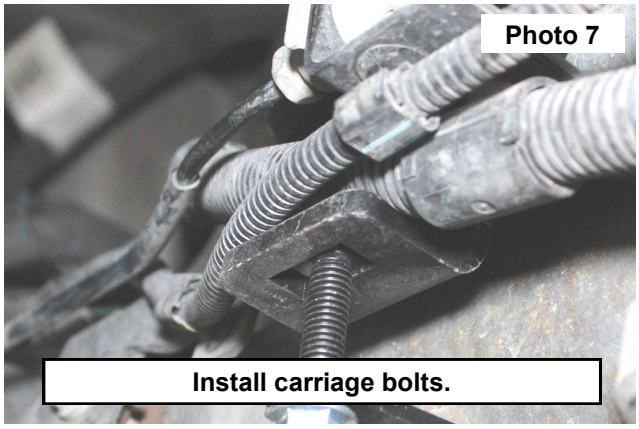


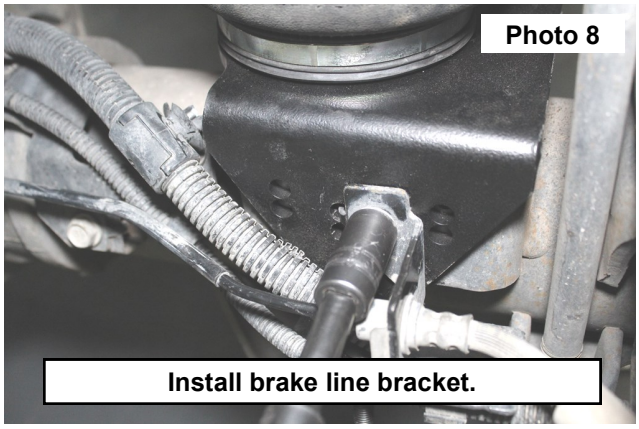
6. Remove the lower rear shock bolt using a 21mm wrench. Retain hardware for reuse.
7. Place air spring assembly into place. **NOTE:** Align holes in the bottom bracket with the holes on the axle. **See Photo 5 and Photo 6.**



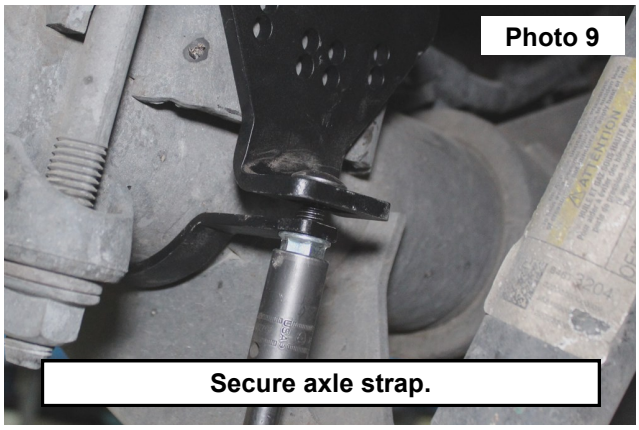


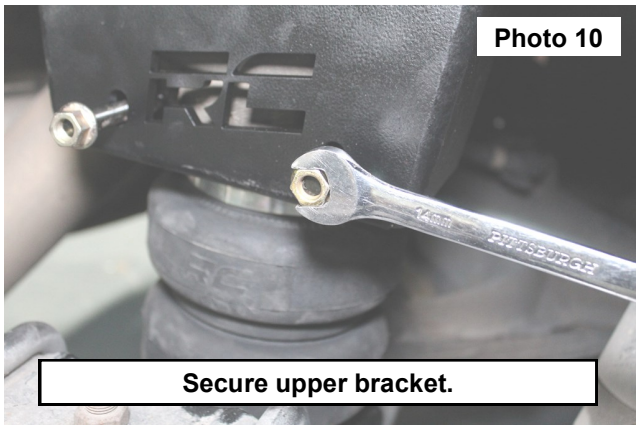
8. Place supplied carriage bolts in the slots of the lower bracket. **See Photo 7.**
9. Reinstall brake line bracket using factory hardware and a 13mm wrench. **See Photo 8.**



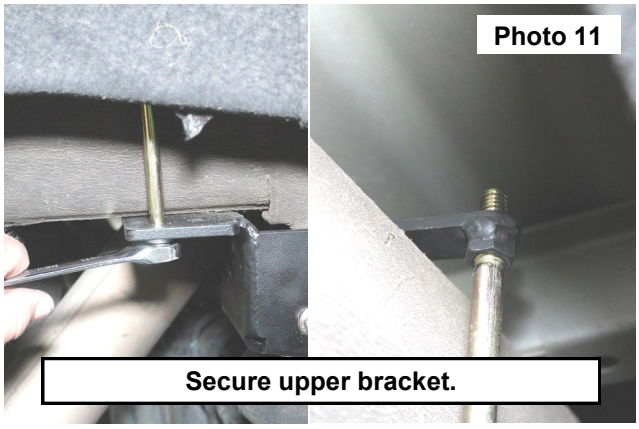


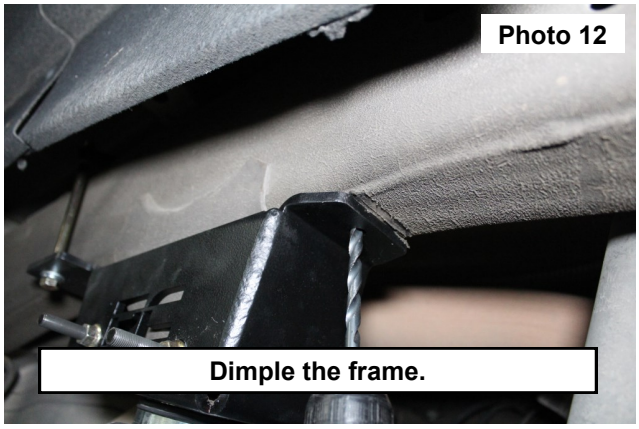
10. Secure lower mount using a supplied axle strap and two 3/8” flange lock nuts. Tighten with a 9/16 wrench. **See Photo 9.**
11. Lower the vehicle so the top bracket rests on the frame.
12. Install the supplied U-bolt around the bump stop and feed it through the slots of the upper bracket. Use supplied flange lock nuts to secure. Tighten with a 9/16 wrench. **See Photo 10.**



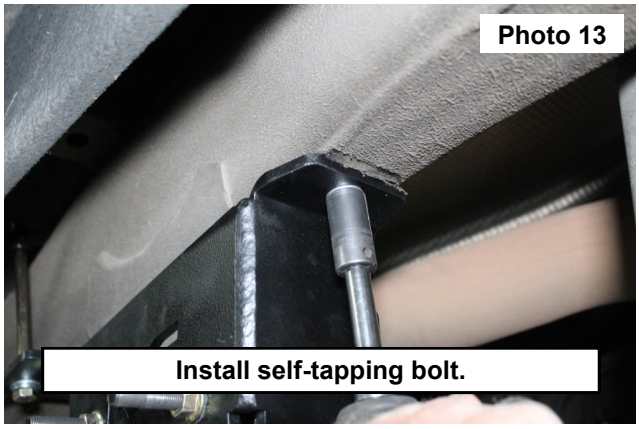


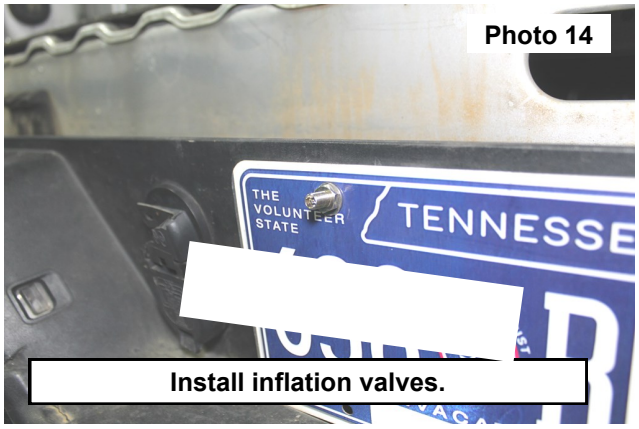
13. Use supplied 3/8” x 6 1/2” bolts, 3/8” nut plate, 3/8” lock washer, and 3/8” flat washer to secure the rear part of the lower bracket. **NOTE:** Nut plate will go over the frame. **See Photo 11.**
14. Use a 13/64” drill to dimple the frame where the hole in the upper bracket meets the frame. **See Photo 12.**



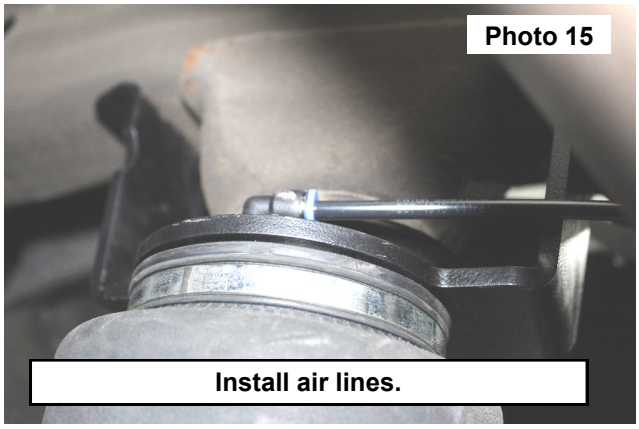


15. Install 3/8” self tapping bolt with a 9/16” socket and drill motor. **See Photo 13.**
16. Reinstall lower rear shock bolt with a 21mm wrench.
17. Repeat for other side of vehicle.
18. Install wheels and lower vehicle.
19. Install inflation valves in license plate screw locations. **See Photo 14.**





20. Run DOT 1/4” air line from inflation valve to air bag. **See Photo 15. NOTE:** Be sure to avoid kinks and pinch points when routing air line.



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