Rough Country 100324WC Installation Instructions

Air Spring Kit with 4 Inch Spacers and Compressor for Ram 1500

Part number: 100324WC

trailfortress.com/air-spring-kit-ram-1500-rough-country-100324wc

Scan for fitment, price and install help

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ROUGH COUNTRY
SUSPENSION SYSTEMS®



RAM 2009-22 1500 AIR BAG 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.

⚠NOTICE Airbags will not increase the maximum load capacity.

⚠NOTICE Must maintain 1/2” clearance around airbag at all times.

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

RC ROUGH COUNTRY

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KIT CONTENTS:
2 - Air Springs
2 - 90° Air Fitting
2 - Inflation Valve
20' - 1/4" Air Line
2 - Upper Air Bag Bracket
2 - Upper Air Bag Frame Mount
1 - Pass. Lower Air Bag Mount
1 - Dr. Lower Air Bag Mount

TOOLS NEEDED:
21mm Socket and Wrench
18mm Socket or Wrench
Reciprocating Saw
Metal Cutting Blade
11/32 Drill
9/32 Drill
14mm Wrench
7/32 Allen Wrench
9/16" Wrench
1/2" Nut Setter
9/16" Wrench (Spacer Combo)

HARDWARE INCLUDED:
3/8" x 1" x4
3/8" Flat Washer x4
3/8" Lock Washer x4
3/8" Flange Nut x12
3/8" x 1" Self-Tapping Screw x 2
3/8" x 1" Carriage Bolt x12
3/8" x 3/4" Button Head Bolt x4
5/16" x 1" Self-Tapping Screw x2
8mm x 20mm Socket Head x2
8mm Flange Nut x2

KIT CONTENTS (Spacer Combo):
Spacer x2

HARDWARE INCLUDED (Spacer Combo):
3/8" Flange Nut x8
3/8" Flat Washer x4
3/8" Lock Washer x4
3/8"x1" Hex Head Bolt x4
3/8" x 1 1/4" Carriage Bolt x4 (Not in 4" Lift Spacer Kit)

Air Bag Kit





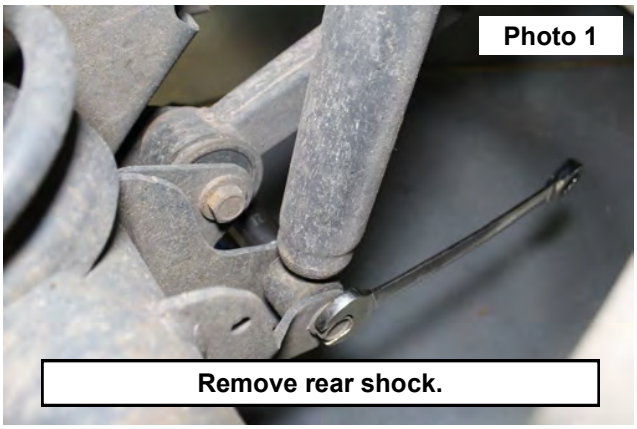
6" Spacer

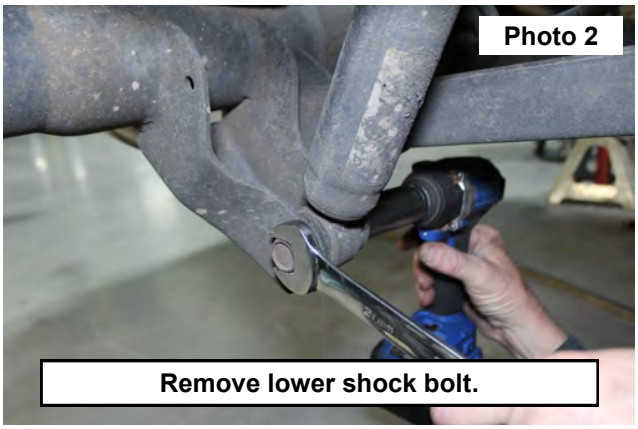


4" Spacer

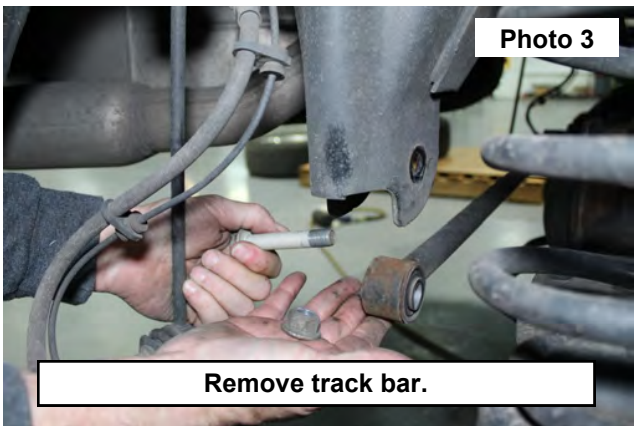
INSTALLATION INSTRUCTONS

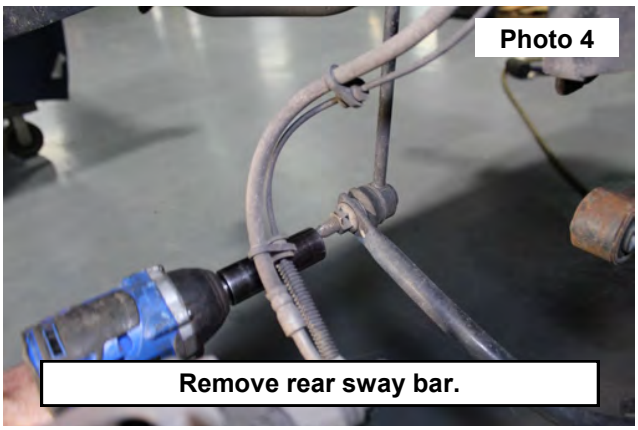
1. Chock the front wheels. Jack up the rear of the vehicle and place on jack stands. Remove rear tires. **NOTE:** It may be necessary to lower the axle to free the rear coil spring.
2. Using a 21mm wrench and socket, remove the lower shock bolt. Retain hardware for reuse. **See Photo 1 and Photo 2.**





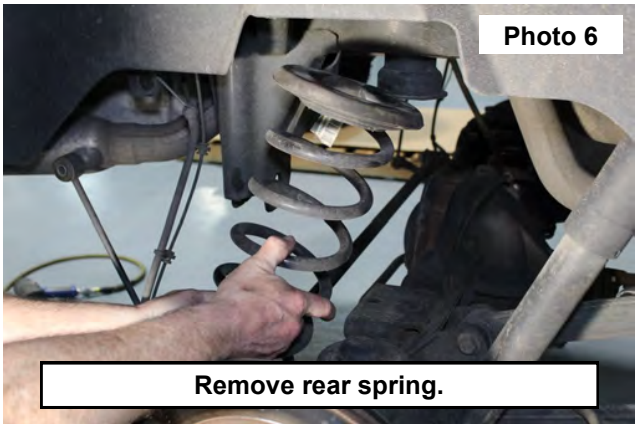
3. Use a 21mm wrench and socket to remove track bar. Retain hardware for reuse. **See Photo 3.**
4. With an 18mm wrench or socket, remove the rear sway bar. Retain hardware for reuse. **See Photo 4.**





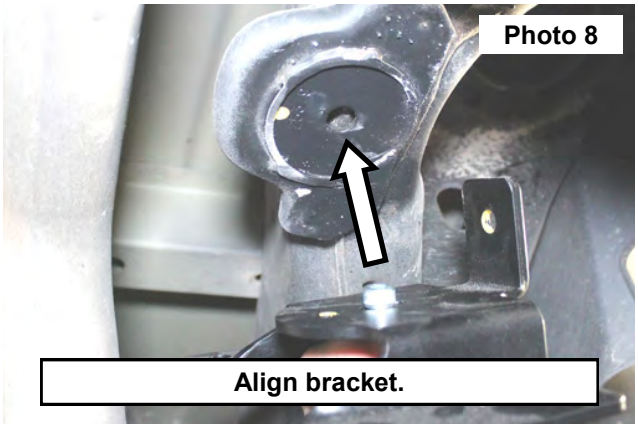
5. Remove factory bump stop. **See Photo 5.**
6. Pull out factory spring. Retain for reuse. **See Photo 6.**



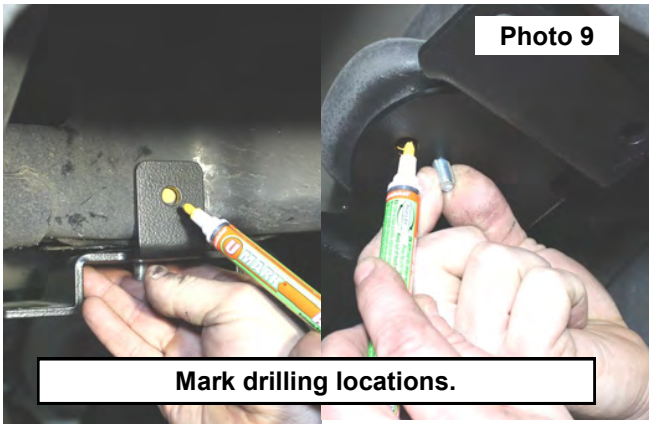


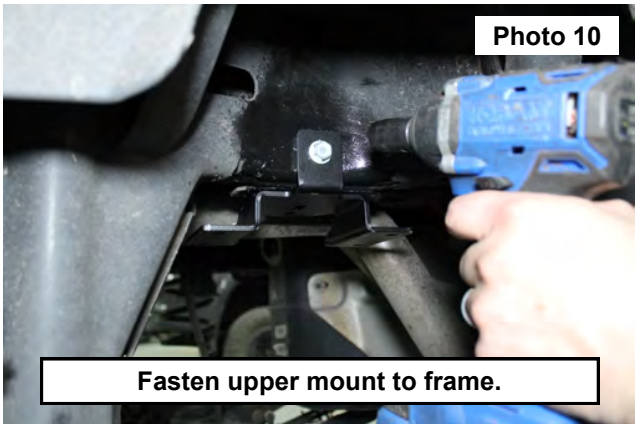
7. Use a reciprocating saw with appropriate metal cutting blade to remove factory bump stop housing from the frame of the vehicle. **See Photo 7.**
8. Sand and paint exposed metal to reduce risk of rust.
9. Install supplied 8mm x 20mm bolt and 8mm flange nut in the slot of the upper mount. Tighten with a 13mm wrench. Align with center hole of the chopped bump stop. Use a paint pen and upper air bag mount to mark drilling locations. **See Photo 8 and Photo 9.**



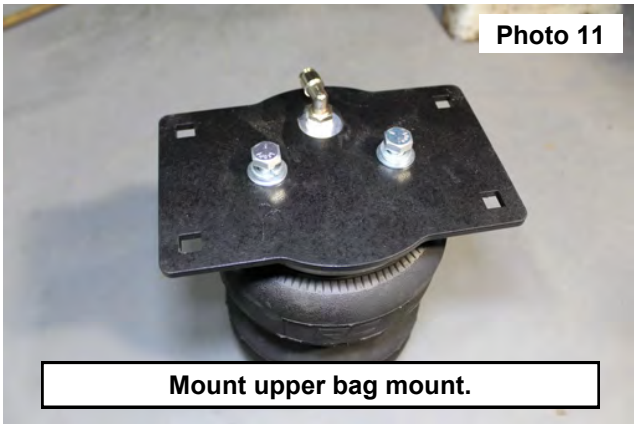


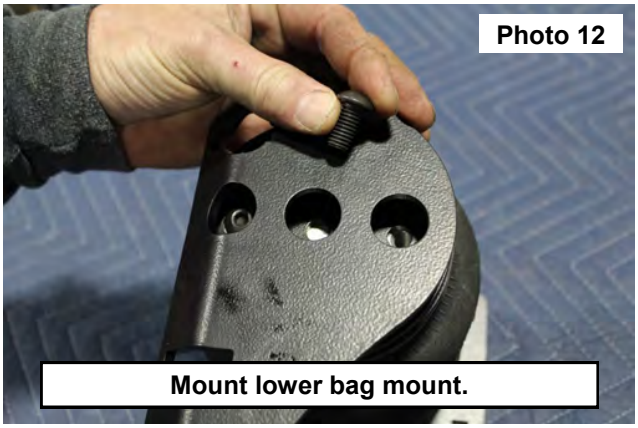
10. Use 11/32 drill to dimple the metal at the marked locations.
11. Use supplied 3/8” self-tapping screws and 9/16” socket to fasten upper air bag frame mount to the frame in previously drilled locations. **See Photo 10.**



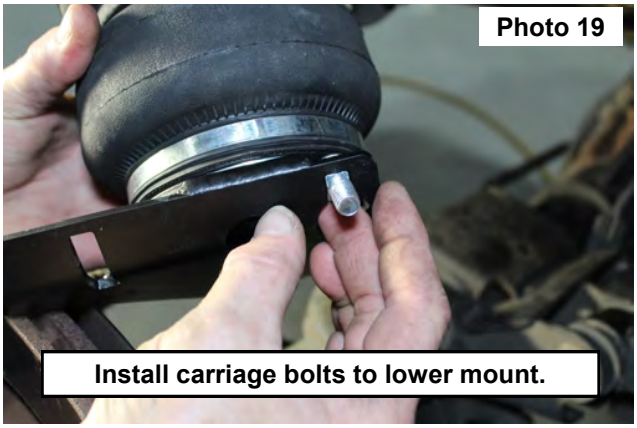


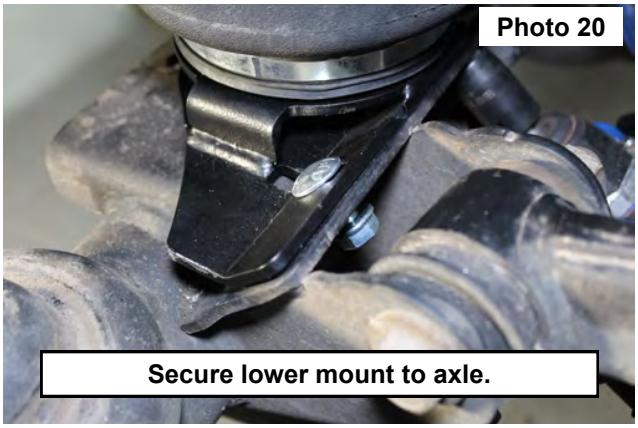
12. Place upper air bag mount on top of air bag. Use thread tape and secure 90° degree air fitting to top of air bag. With a 9/16” wrench, secure 3/8” x 1” bolt, 3/8” lock washer, and 3/8” flat washer to top of air bag. **See Photo 11.**
13. **LIFTED VEHICLES INSTALL SPACER BEFORE ATTACHING LOWER BAG MOUNT**. Use supplied 3/8” x 3/4” button head bolts to secure lower air bag mount to air bag. **NOTE:** Be sure to apply blue Loctite to the threads before tightening. **See Photo 12.**



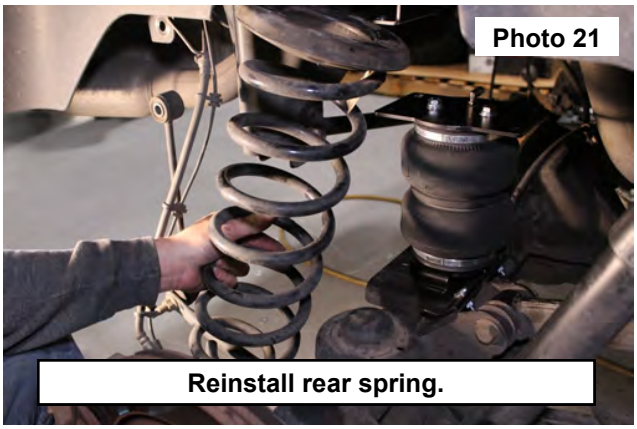


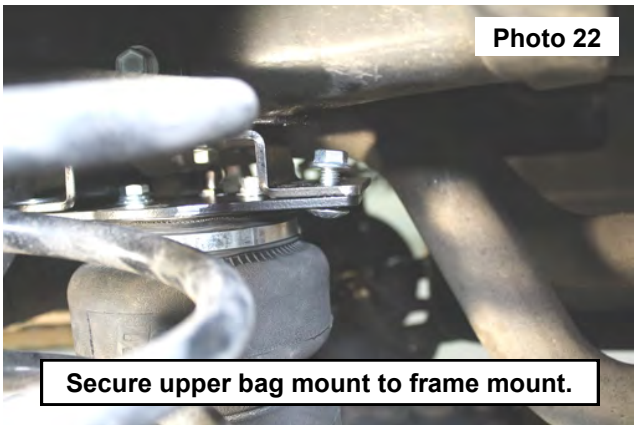
14. Use supplied 3/8” carriage bolt and 3/8” flange nut to secure air bag lower mount to the axle. Tighten with 9/16” wrench. See **Photo 19 and Photo 20.**





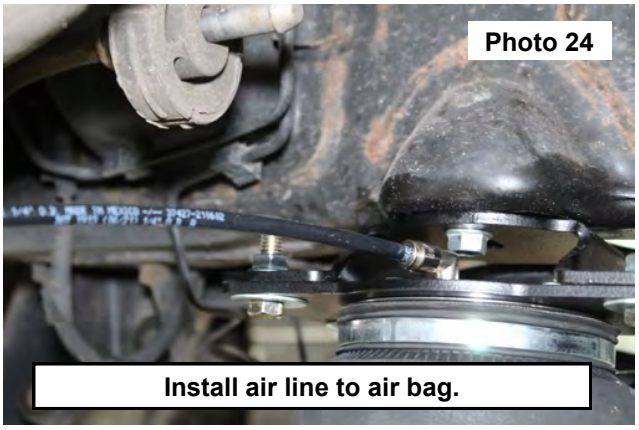
15. Reinstall factory rear spring then lower truck **See Photo 21.**
16. Use supplied 3/8” carriage bolt and 3/8” flange nut to secure upper air bag mount to upper frame mount with a 9/16” wrench. **See Photo 22.**





17. Reinstall track bar, rear sway bar, and shock in reverse order of disassembly. **NOTE:** If installing a 6” spacer, extended track bar brackets need to be installed.
18. Repeat for other side of vehicle.
19. Reinstall rear wheels and lower truck.
20. Install inflation valves in license plate screw locations. **See Photo 23.**
21. Run DOT 1/4” air line from inflation valve to air bag. **See Photo 24.** NOTE: Be sure to avoid kinks and pinch points when routing air line.





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SPACER INSTALLATION INSTRUCTONS

1. Place spacer on top of bottom air spring mount. **See Photo 1.** Use 3/8” button head bolt (from air spring kit) and 3/8” flange nut from spacer kit to install spacer to bottom air spring mount. Tighten with 7/32” Allen wrench and 9/16” wrench. **See Photo 2. NOTE:** Spacer will angle in towards vehicle.

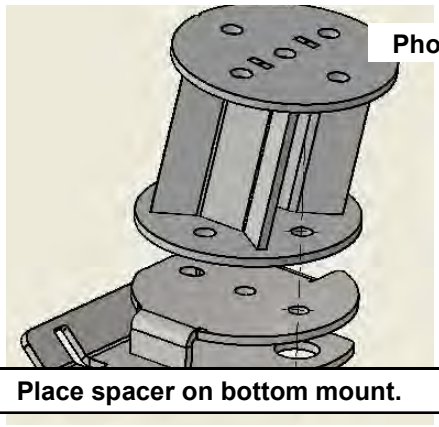

Photo 1

Place spacer on bottom mount.



Photo 2

Secure spacer to bottom mount.

2. Install bottom air spring mount to axle of truck with supplied 3/8” x 1 1/4” carriage bolts and flange nuts from air spring kit. **See Photo 4**. **NOTE:** Only 6” lift kits will need 3/8” x 1 1/4” carriage bolts. Others can use carriage bolts supplied with air bag kit.

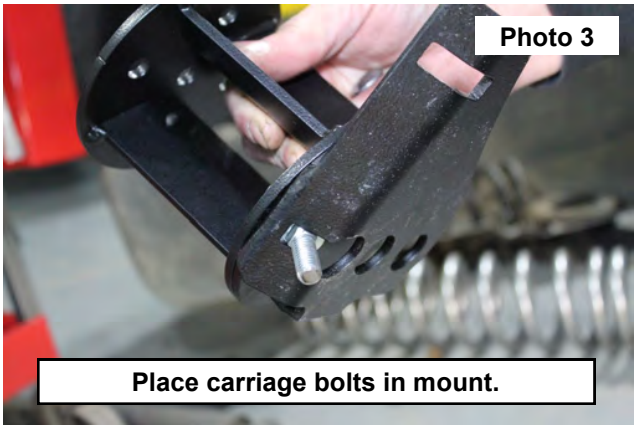

Photo 3

Place carriage bolts in mount.

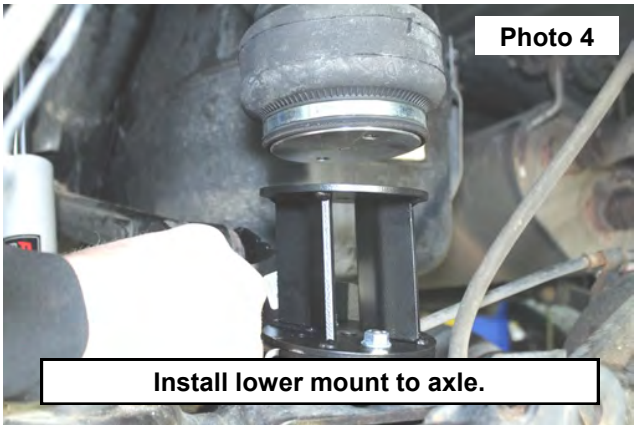

Photo 4

Install lower mount to axle.

3. **FOR 6” LIFT ONLY**: Mount extended track bar bracket to axle before installing the lower mount and spacer assembly. **See Photo 5.**
4. Assemble supplied 3/8” hex head bolt, 3/8” lock washer, and 3/8” flat washer as shown below and install into lower air bag. Tighten with 9/16” wrench. **See Photo 6.**

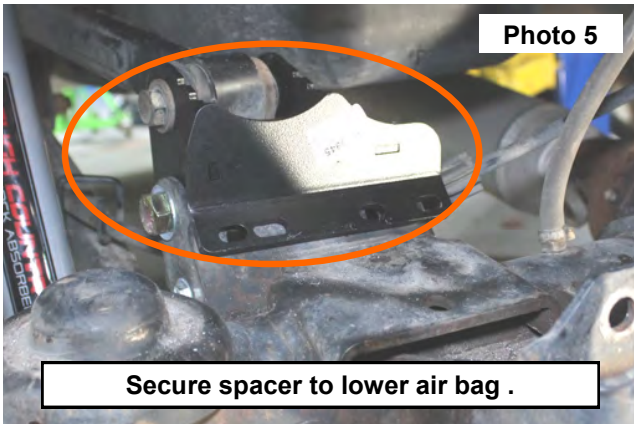

Photo 5

Secure spacer to lower air bag .



Photo 6

Lifted air bag assembly.