TRAIL FORTRESS

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Rough Country 689021 Installation Instructions

Vertex 2.5 Adjustable Front Coilovers for 2019–2024 Ram 1500 4WD

Part number: 689021

trailfortress.com/rough-country-vertex-2-5-adjustable-coilovers-689021

Scan for fitment, price and install help

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ROUGH COUNTRY SUSPENSION SYSTEMS®

2012-18 Dodge 1500 4wd Front Vertex Coilovers

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

Please read all the instructions before beginning the installation. Check the kit hardware against the Kit Contents list on next page. Be sure you have all the needed parts and understand where they go. Also please review the tools needed list to be certain that you have the tools necessary to complete the installation.

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.

We hope installing your Rough Country lift kit is a positive experience. Please note that variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at 800-222-7023. We do not recommend that you modify the Rough Country parts in any way as this will void any warranty expressed or implied.



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

Tools Needed:

Floor Jack /Jack Stands
15mm Socket/Wrench
17mm Socket/Wrench
21mm Socket/Wrench
24mm Socket/Wrench
36mm Socket
Torque Wrench
Screw Driver
Hammer
Pry bar

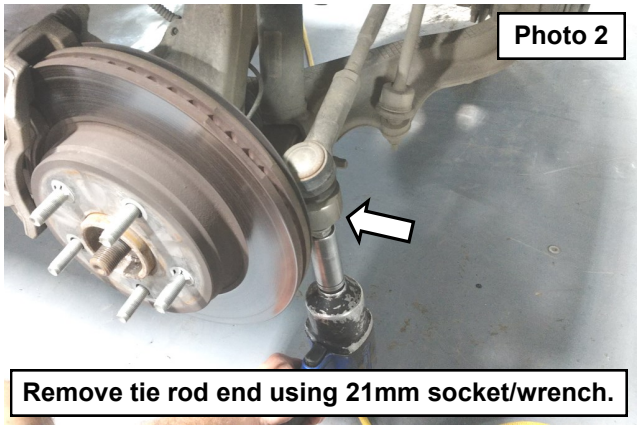
INSTALLATION INSTRUCTIONS

1. Chock the rear wheels.
2. Jack up the front of the vehicle.
3. Place jack stands on the frame behind the lower control arms.
4. Lower the vehicle onto the jack stands and remove the tires and wheels.

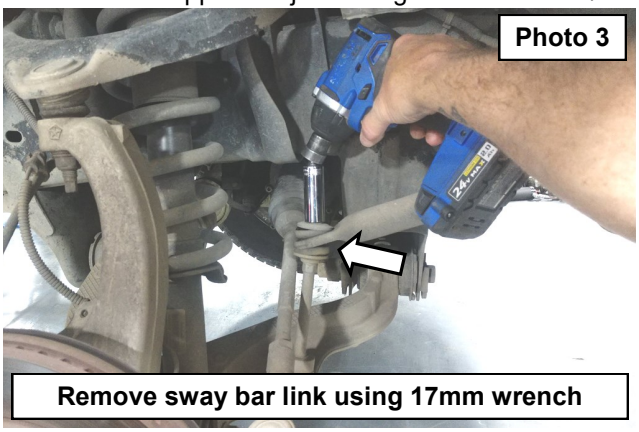
Photos are shown on passenger side of vehicle, but either side can be done first.

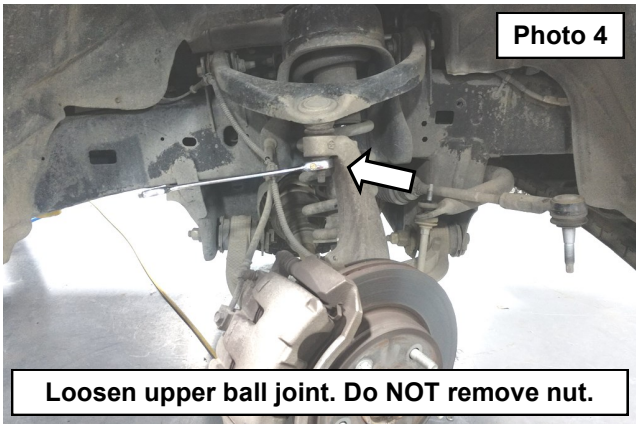
5. Remove axle nut using a 36mm socket. **See Photo 1**.
6. Remove tie rod end using a 21mm socket/wrench. **See Photo 2.**



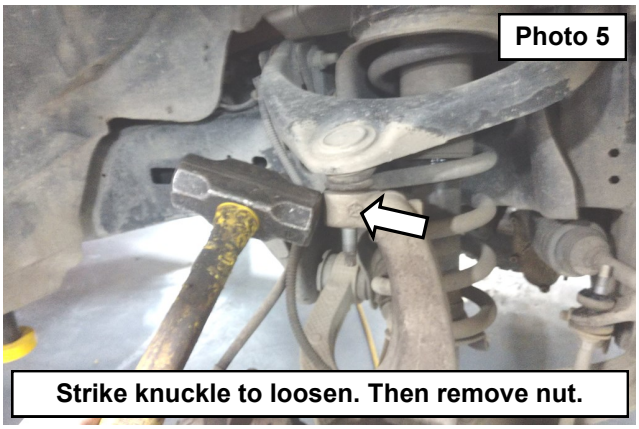


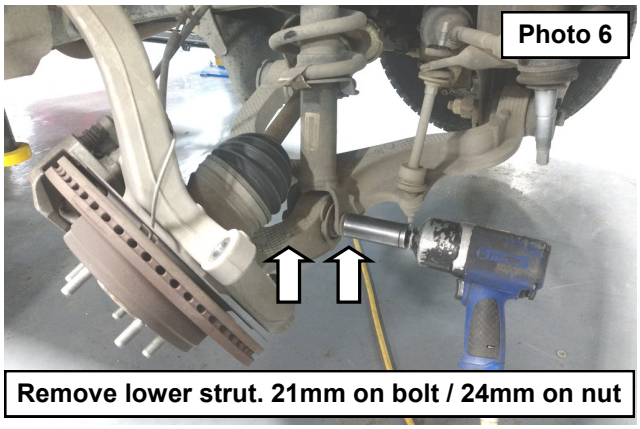
7. Remove the sway bar link using a 17mm socket/wrench. **See Photo 3.**
8. Loosen the upper ball joint using a 21mm socket/wrench. Do NOT remove nut. **See Photo 4.**



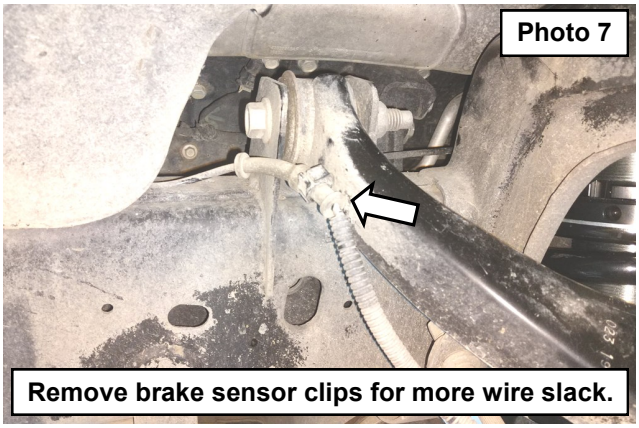


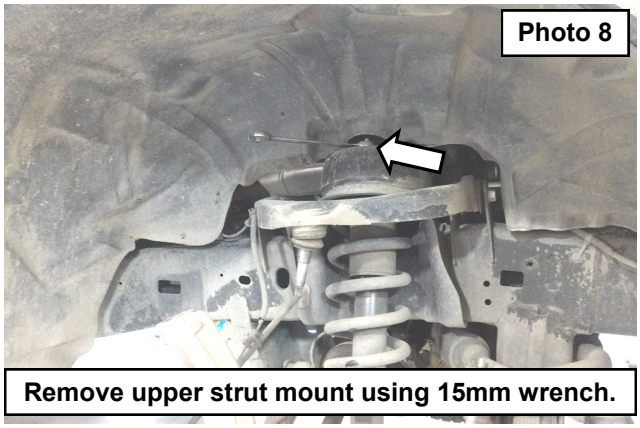
9. Strike knuckle with a hammer until it loosens. Then remove nut. **See Photo 5.**
10. Remove the lower strut mount using a 21mm socket/wrench on the bolt and a 24mm socket/wrench on the nut. **See Photo 6.**



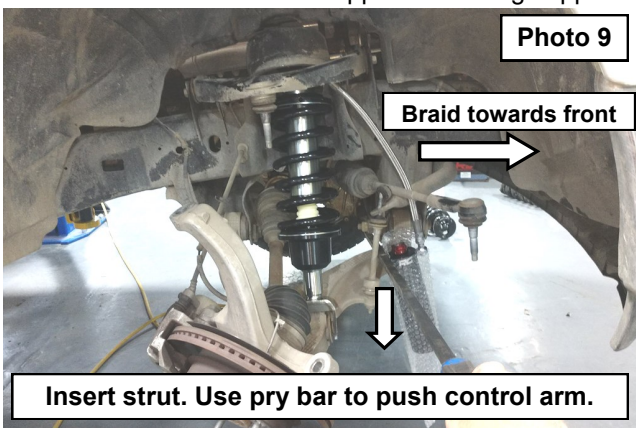


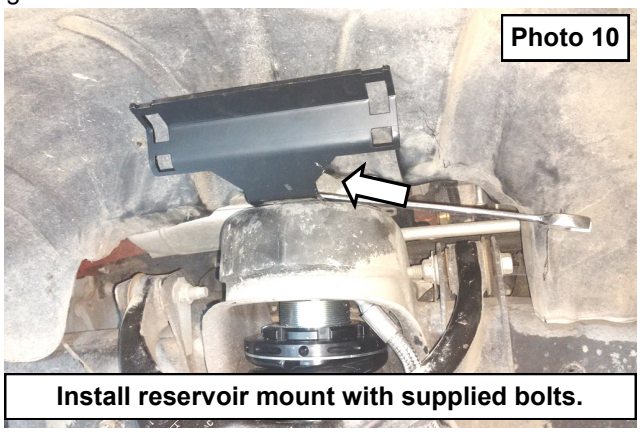
11. Remove the brake sensor clips to give wire more slack. **See Photo 7.**
12. Remove the upper strut mount using a 15mm wrench. **See Photo 8.**



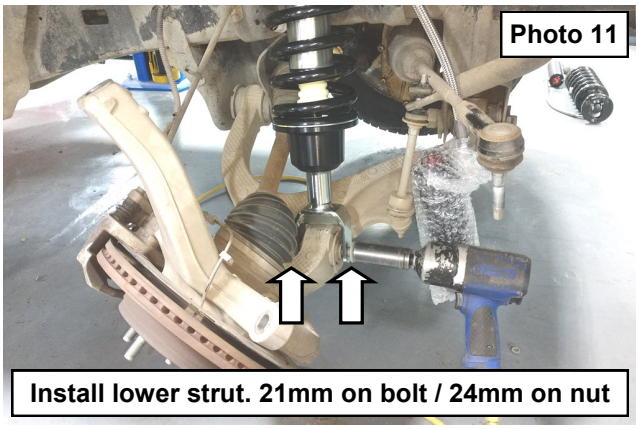


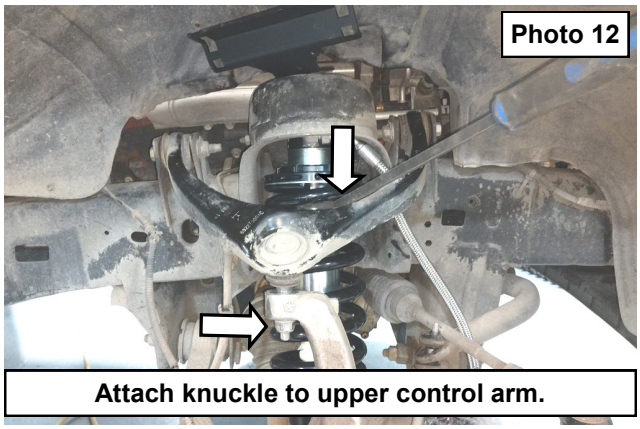
13. Install new Vertex strut so that the braided line on the reservoir is routed toward the front of the vehicle. **See Photo 9 and 16**. Insert upper strut first and use a pry bar to push the lower control arm down until the lower strut fits. **See Photo 9.**
14. Install reservoir mount on upper strut using supplied bolts. Tighten with 17mm wrench. **See Photo 10.**



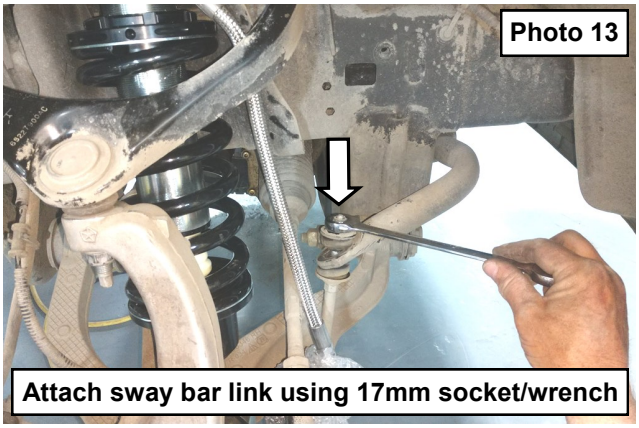


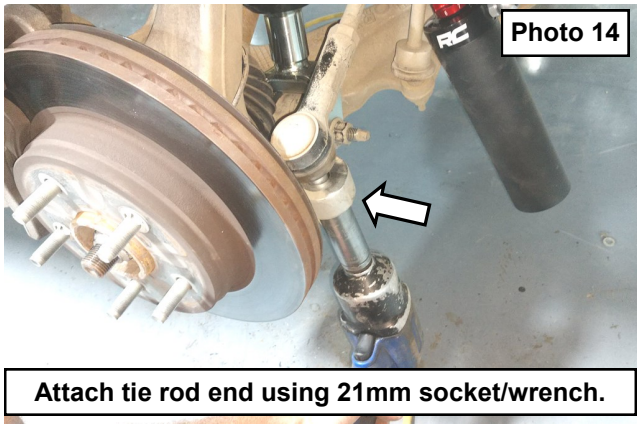
15. Install lower strut reusing stock hardware. Use a 21mm socket/wrench on the bolt and 24mm socket/wrench on nut. **See Photo 11.**
16. Attach the knuckle to the upper control arm using a pry bar to get leverage on the upper control arm. Tighten with a 21mm socket/wrench. **See Photo 12.**



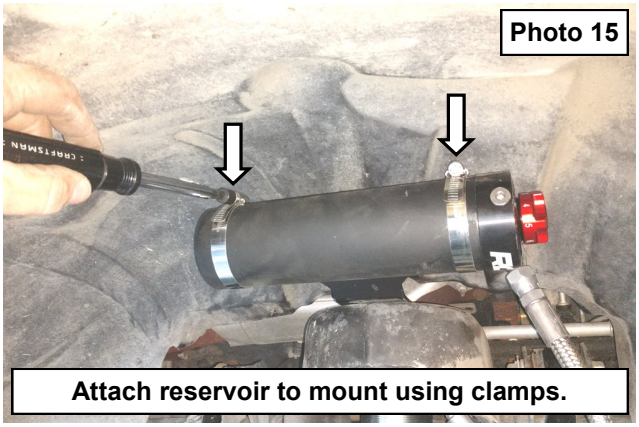


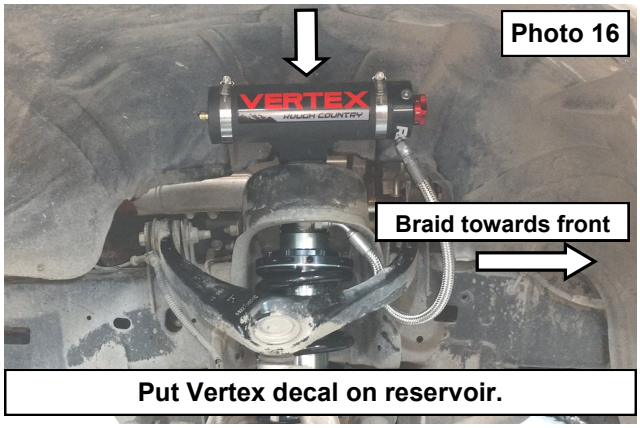
17. Attach the sway bar link using a 17mm socket/wrench. **See Photo 13.**
18. Attach the tie rod end using a 21mm socket/wrench. **See Photo 14.**





19. Attach the reservoir to the reservoir mount using the supplied clamps. **See Photo 15.**
20. Put the Vertex decal on the reservoir. **See Photo 16**.





21. Put on wheels and lower.

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.