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Rough Country 689049 Installation Instructions

Vertex 2.5 Adjustable Front Coilovers for 2022–2025 Tundra 4WD

Part number: 689049

trailfortress.com/rough-country-vertex-2-5-adjustable-coilovers-689049

Scan for fitment, price and install help

TOYOTA 2022-23 Tundra Front Vertex Strut

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.

KIT CONTENTS:
Driver Side Vertex Shock x1
Pass Side Vertex Shock x1
Driver Side Mounting Bracket x1
Pass Side Mounting Bracket x1
Driver Side Reservoir Bracket x1
Pass Side Reservoir Bracket x1
Clamps x4

HARDWARE INCLUDED:
10mm-1.5 Hex Head Bolts x8
10mm Lock Washers x8
10mm Flat Washers x8
8mm Clips x4
8-1.25 x 20mm Bolts x4
8mm Washer x4

TOOLS NEEDED:
Jack
Jack Stands
10mm Wrench
12mm Wrench
17mm Wrench
19mm Wrench
22mm Wrench and Socket
24mm Wrench
Hammer
Ratchet

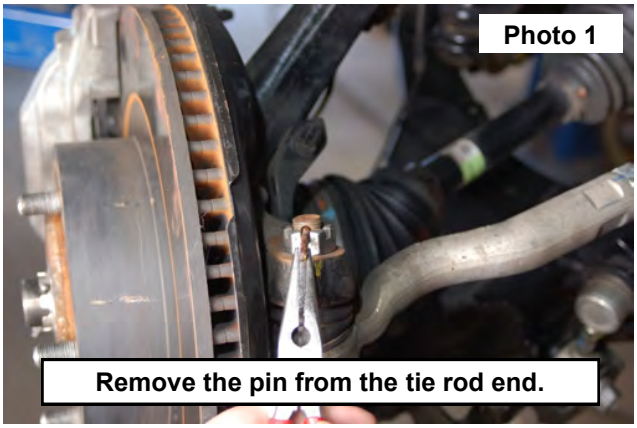


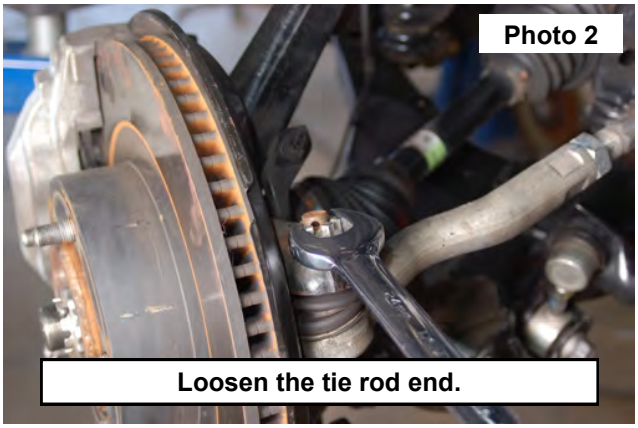
Torque Specs:

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

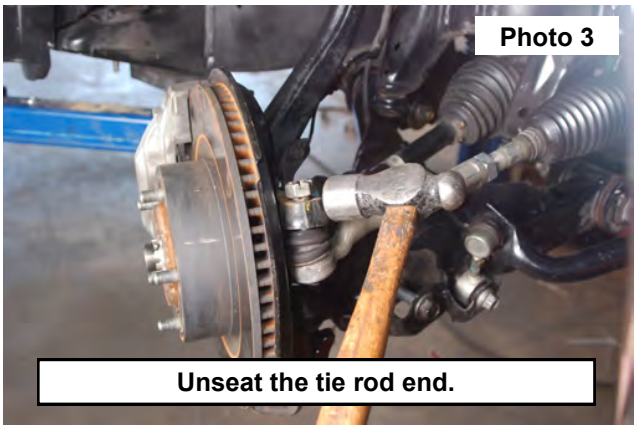
INSTALLATION INSTRUCTONS

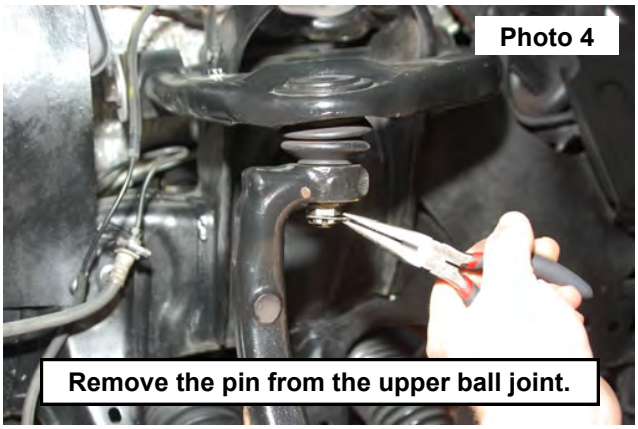
1. Raise the front of the vehicle up using a jack and place jack stands under the frame rail. Lower the vehicle onto the jack stands.
2. Remove the wheels and tires from the vehicle.
3. Take ABS wire loose from upper control arm using a 10mm wrench & ABS/ brake line on the knuckle using a 12mm wrench. Retain the stock hardware.
4. Remove the pin from the tie rod end. **See Photo 1.**
5. Using a 24mm wrench loosen the tie rod end. **See Photo 2.**



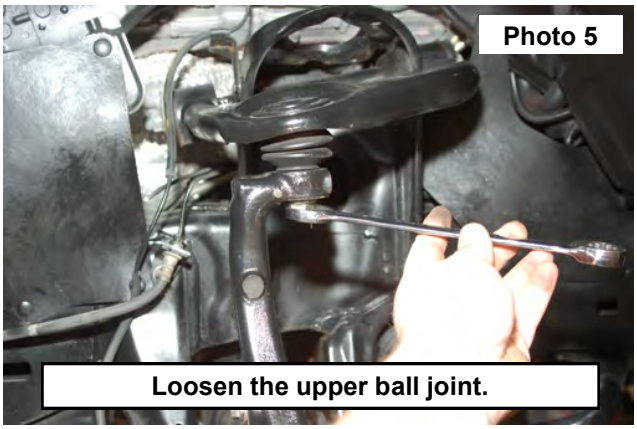


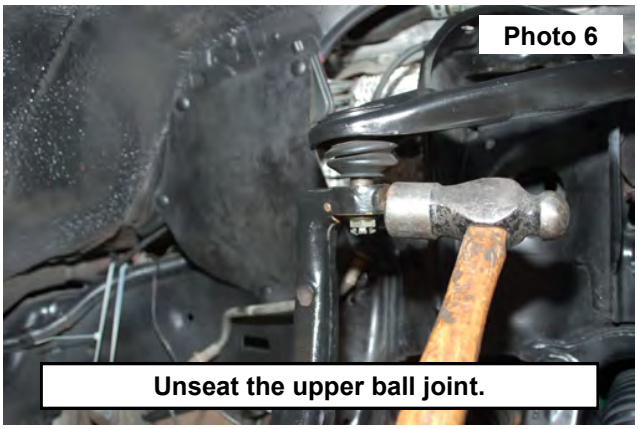
6. Use a hammer to unseat the tie rod end from the knuckle. Then remove the nut and the tie rod end from the knuckle. Retain hardware. **See Photo 3.**
7. Remove the pin from the upper ball joint. **See Photo 4.**



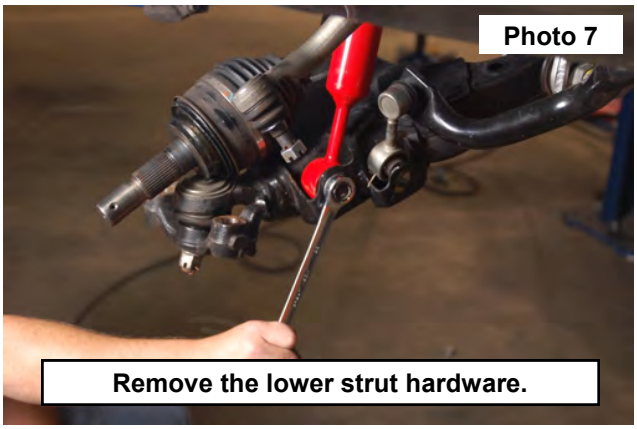


8. Using a 19mm wrench loosen the upper ball joint. **See Photo 5.**
9. Use a hammer to unseat the upper ball joint from the knuckle. Then remove the nut and the upper ball joint from the knuckle. Retain hardware. **See Photo 6.**





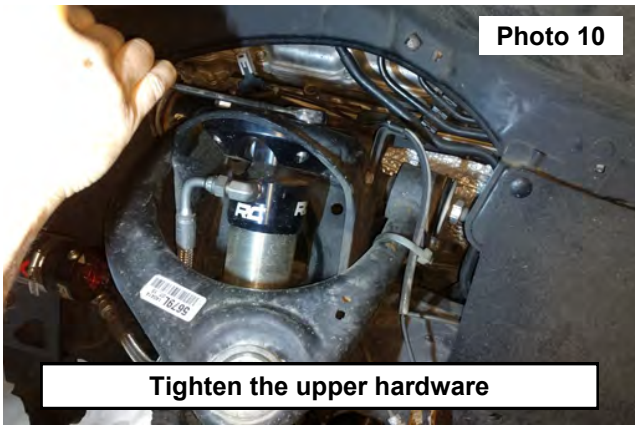
10. Remove the bolt and nut from the lower control arm strut mount using a 22mm wrench and socket. **See Photo 7.**
11. Remove the 4 nuts from the top of the strut using a 14mm wrench. **See Photo 8.**
12. Remove the strut from the vehicle.



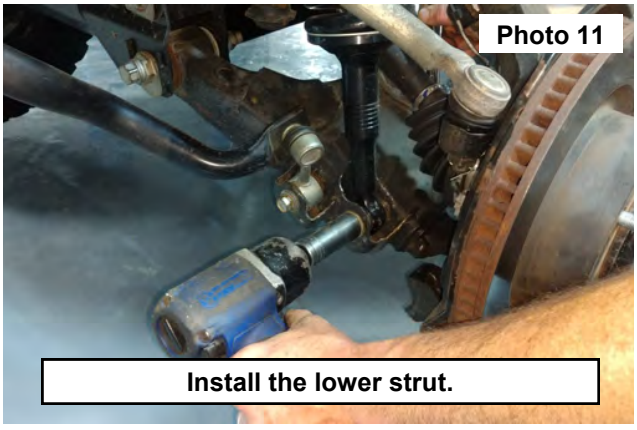


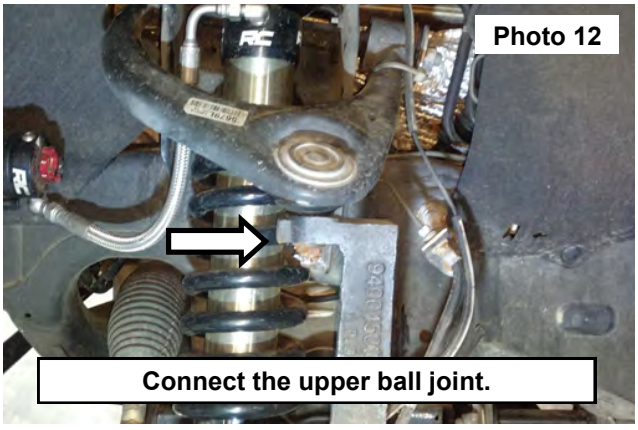
13. Install the vertex strut in to the upper frame mount using the supplied 10mm hardware. Tighten using a 17mm wrench. **See Photos 9 and 10.**



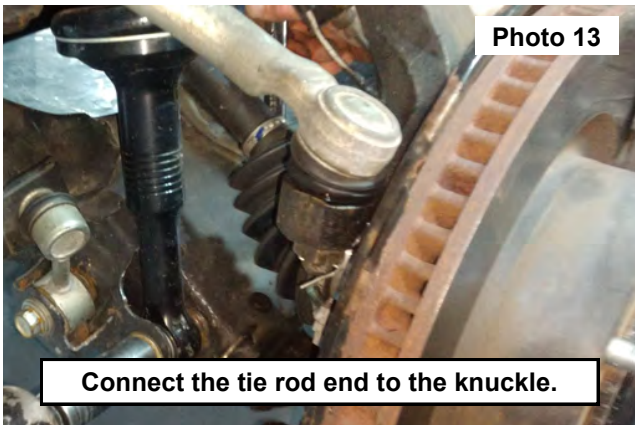


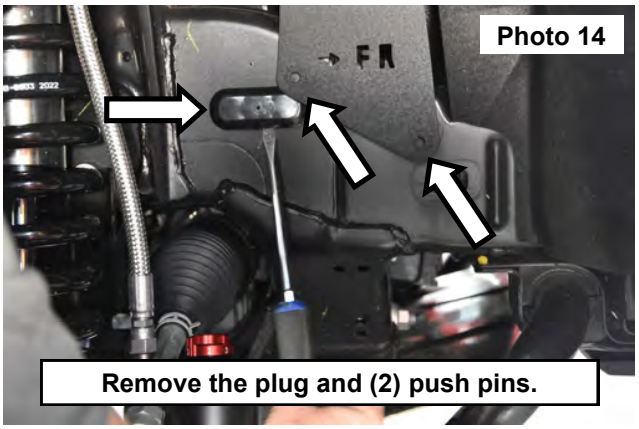
14. Install the lower strut in to the lower control arm mount. Tighten using a 22mm wrench and socket. **See Photo 11.**
15. Connect the upper ball joint to the knuckle and tighten using a 19mm wrench. Reinstall the retained pin. **See Photo 12.**





16. Connect the tie rod end to the knuckle. Tighten using a 24mm wrench. Then reinstall the pin. **See Photo 13.**
17. Install the ABS wire onto the upper control arm using a 10mm wrench and the ABS/ brake line on the knuckle using a 12mm wrench.
18. Remove the plug from the frame and the (2) push pins from the dust shield using straight end plyers. **See Photo 14.**



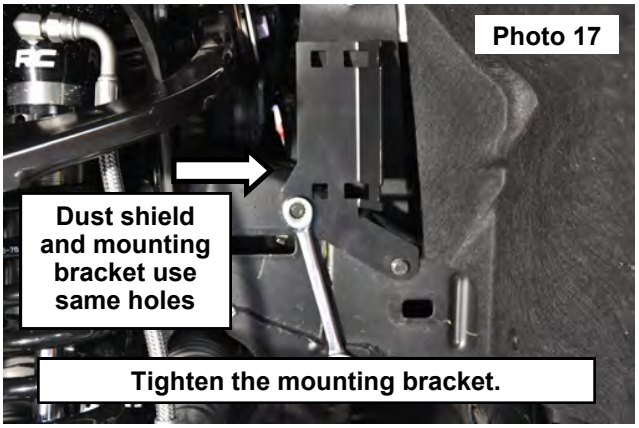


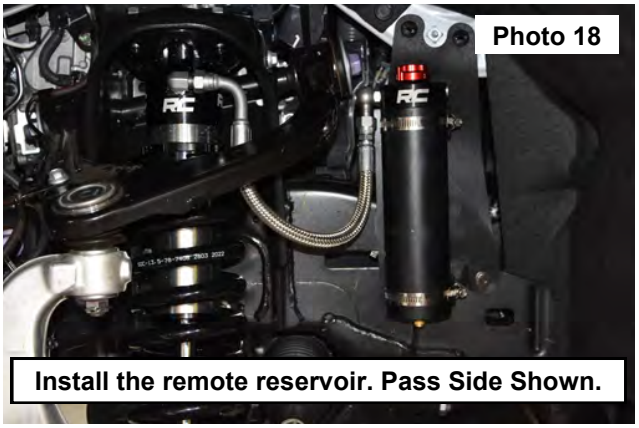
19. Install the (2) clips onto the mounting plate. **See Photo 15.**
20. Install the mounting plate into the frame, then place the dust shield and the reservoir bracket onto the frame and secure using the (2) supplied bolts and lock washers. **See Photos 16 and 17.**





21. Place the clamps into the bracket and install the reservoir into the clamps. Then secure the reservoir into place, tightening the clamps. (Passenger side shown.) **See Photo 18.**
22. Install the wheels and tires.
23. Use a jack to raise the vehicle up and remove the jack stands. Lower onto the ground.





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