TRAIL FORTRESS

BUILT FOR THE TRAIL. CHECKED FOR YOUR TRUCK.

# Rough Country 50016 Installation Instructions

2-Inch Leveling Kit for 2024–2025 Ford Ranger Raptor

Part number: 50016

trailfortress.com/2-inch-leveling-kit-ford-ranger-raptor-rough-country-50016

Scan for fitment, price and install help

921500160

ROUGH COUNTRY SUSPENSION SYSTEMS®



# FORD 2024 Ranger Raptor 2” Leveling Kit

**Thank you for choosing Rough Country for 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 parts list. Be sure you have all the needed parts and understand where they go. Also please review the tools needed list and make sure you have needed tools.

**PRODUCT USE INFORMATION**

**⚠WARNING** As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend 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/heaver 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, and/or combining body lift with 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.

If you desire a different look or if the vehicle has a tool box or added weight in the rear, please consult with your sales representative about block / u-bolt options.

This 2” kit was developed for a **305/70R17** tire on the factory 17” wheel.

**⚠NOTICE** **NOTICE TO DEALER AND VECHICLE OWNER**

Any vehicle equipped with any Rough country product must have the “Warning to Driver” decal installed on the sun visor or dash. The decal is to act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics. **INSTALLING DEALER**—It is your responsibility to install the warning decal and to forward these installation instructions on too the vehicle owner for review and to be kept in the vehicle for its service life.

## 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

trailfortress.com/2-inch-leveling-kit-ford-ranger-raptor-rough-country-50016

## Kit Contents

10MMHEXBAG
- 6 - 10mm x 50mm Bolt
- 6 - 10mm Serrated Flange Nut

2 - 2” Leveling Spacer

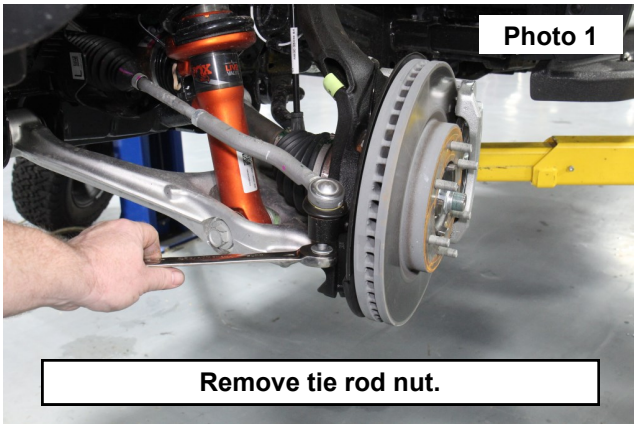
**Tools Needed:**

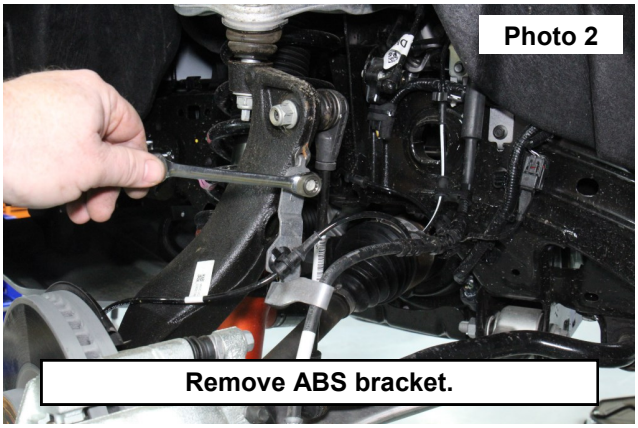
Plyers
8mm Socket or Wrench
10mm Socket or Wrench
15mm Socket or Wrench
16mm Socket or Wrench
18mm Socket or Wrench
21mm Socket or Wrench
1 1/16” Wrench
6mm Allen Wrench
Hammer



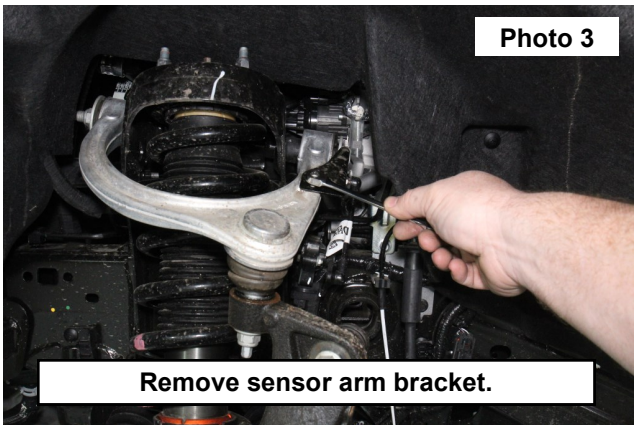
## FRONT INSTALLATION INSTRUCTIONS

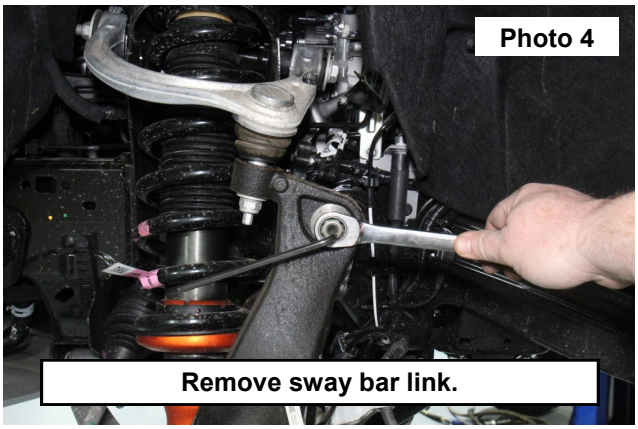
1. Chock the rear wheels and use a floor jack to lift the front of the vehicle. Place the vehicle on jack stands and remove the front wheels.
2. Use a 21mm wrench to remove tie rod end nut. Retain hardware for reuse. **See Photo 1.**
3. Use a 10mm wrench to remove the ABS wire on the knuckle. Retain hardware for reuse. **See Photo 2.**



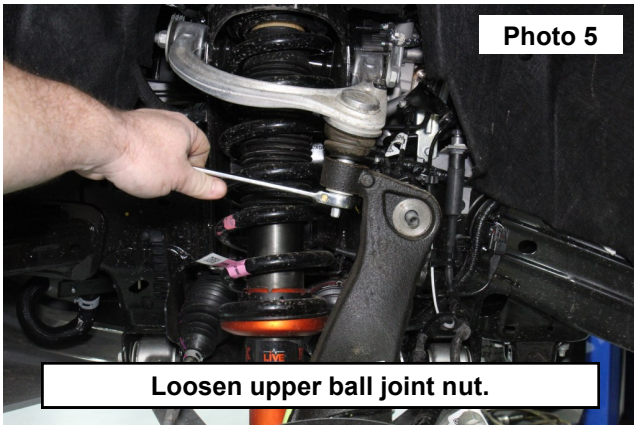



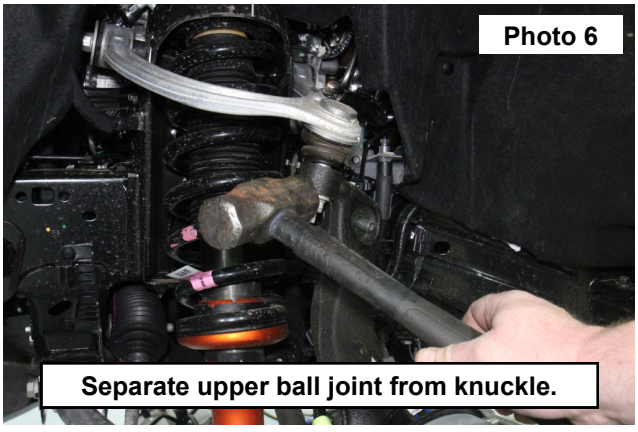

4. Use an 8mm wrench to remove the bolt holding the sensor arm bracket to the upper control arm. Retain hardware for reuse. **See Photo 3.**
5. Use a 18mm wrench with a 6mm Allen to remove sway-bar link from the knuckle. Retain hardware for reuse. **See Photo 4.**



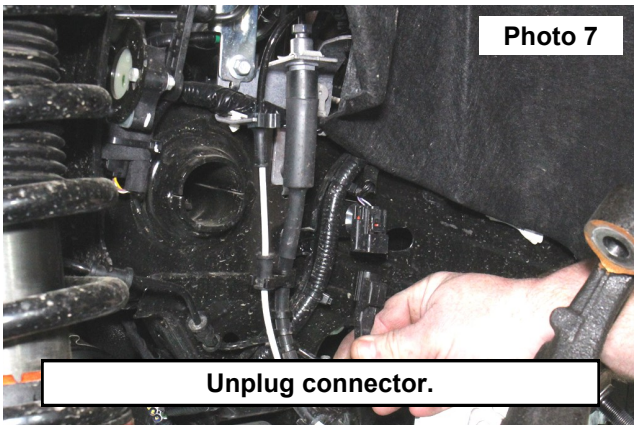



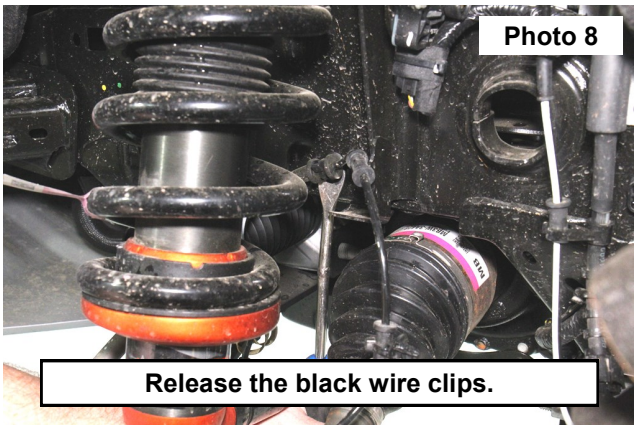

6. Loosen, but do not remove the upper ball joint nut with an 18mm wrench. **See Photo 5.**
7. Use a hammer to strike the knuckle where the upper ball joint is to release the taper. Use the 18mm wrench to finish removing the upper ball joint nut. **See Photo 6.**



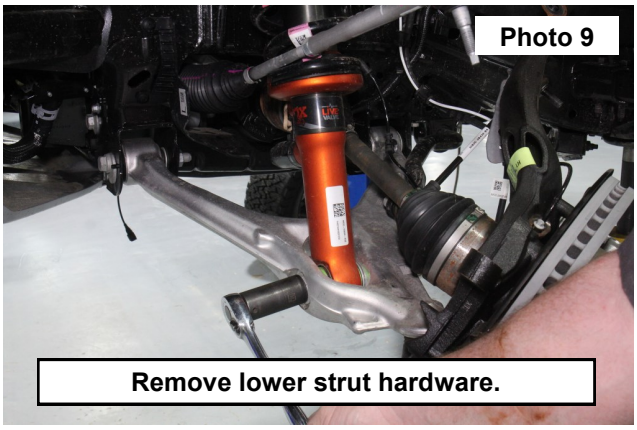



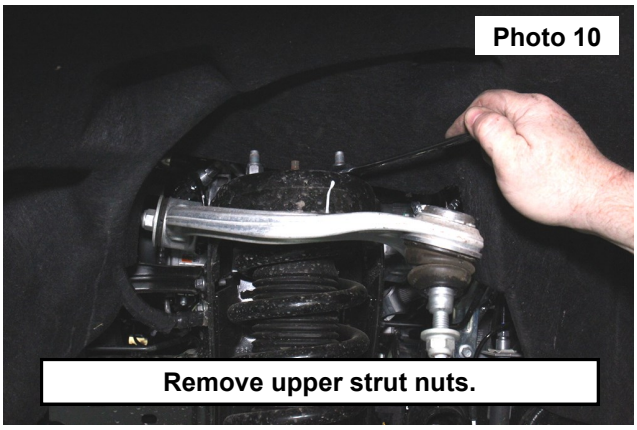
8. Unplug the strut connections. See Photo 7.
9. Undo the clips holding the black wire. See Photo 8.



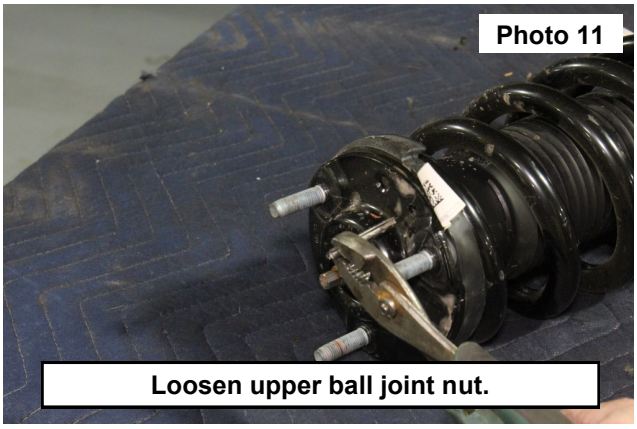



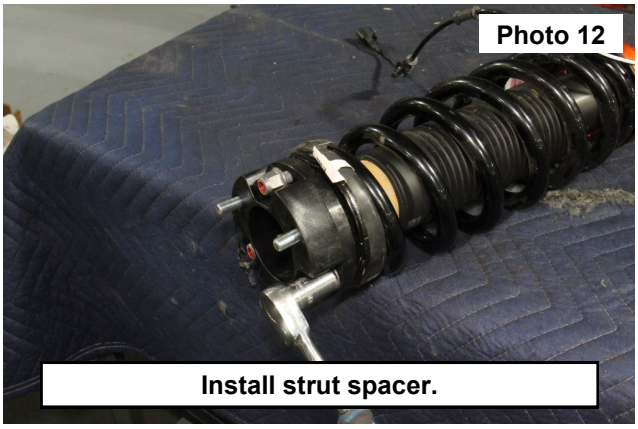

10. Remove the lower strut hardware using a 1 1/16” socket. Retain hardware for reuse. See Photo 9.
11. Use a 15mm wrench to remove the three upper strut nuts. Remove front strut from the vehicle. Retain hardware for reuse. See Photo 10.




12. Use a set of pliers to remove the roll pin on the strut top hat. See Photo 11.
13. Place the strut in a strut compressor and clock the strut top hat 180 degrees. Install the strut spacer onto the strut using the factory hardware. Tighten with a 15mm wrench. See Photo 12.
14. Install the strut using the supplied 10mm serrated flange nuts. Tighten with a 16mm wrench.
15. Reinstall components using the factory hardware in reverse order of disassembly.
16. Reinstall wheels and lower vehicle to the ground.



## POST INSTALLATION INSTRUCTIONS

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floorboards, and wiring harness.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile, or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. On some vehicles, the front lower skirting will need to be trimmed if using certain wheel/tire combinations and with heavy offset wheels. Trim only as needed.
4. Activate four wheel drive system and check front hubs for engagement.
5. Have a qualified alignment center align the vehicle immediately. Realign to factory specifications.
6. Perform head light check and adjustment to proper settings.
7. Check and retighten wheels at 50 miles and again at 500 miles
8. All kit components must be retightened at 500 miles and then every 300 miles after installation. Periodically check all hardware for tightness.
9. Install “Warning to Driver” decal on sun visor.

NOTE: Installation of larger tires will require speedometer recalibration.

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.