Rough Country 868RED Installation Instructions

2-Inch Lift Kit for 2016-2024 Nissan Titan XD 4WD and RWD

Part number: 868RED

trailfortress.com/rough-country-2-inch-lift-kit-868red

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

868BAG3

Nissan 2016 Titan XD 2” Suspension Kit

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

Rough Country recommends a certified technician install 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 instructions before beginning installation. Check the kit hardware against the parts list on the last page. Be sure you have all needed parts and know where they go. Also please review 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, because of roll-over possibility, that the seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

Generally, braking performance and capability are decreased when larger/heavier tires and wheels are used. Take this into consideration while driving. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

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 question exist we will be happy to answer any questions concerning the design, function, and correct use of our products.

This suspension system was developed using a **275/60R20**, tire with factory wheels. The lift was designed as a leveling kit only. **Actual spacer thickness does not reflect actual lift height.**

⚠NOTICE NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Rough Country product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should 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 forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service life.

Tools Needed:

13 mm Socket
14 mm Socket
17 mm Wrench
19 mm Socket /Wrench
21 mm Wrench
22 mm Socket
24 mm Wrench
7/8” Socket
Hammer

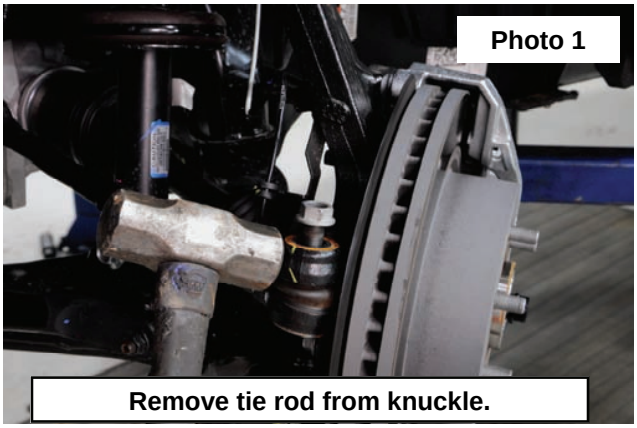
Torque Specs:

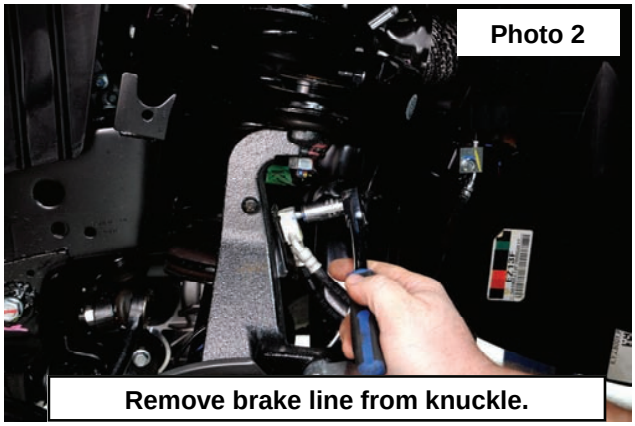
Size	Grade 5	Grade 8
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs
3/4”	185 ft/lbs	280 ft/lbs

	Class 8.8	Class 10.9
8MM	18ft/lbs	23 ft/lbs
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
14MM	85ft/lbs	120ft/lbs
16MM	130ft/lbs	165ft/lbs

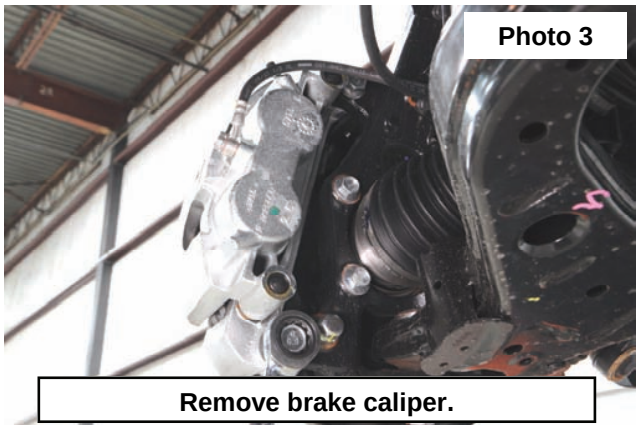
INSTALLATION INSTRUCTIONS

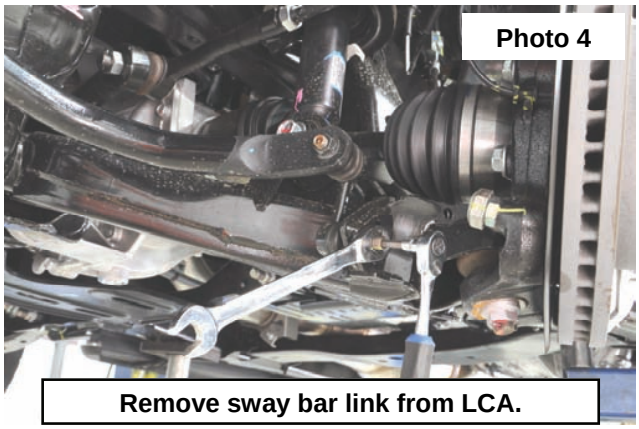
1. Jack up the front of the vehicle and support the vehicle with jack stands, so that the front wheels are off the ground
2. Using 13/16” socket remove the front tires/wheels.
3. Remove cotter pin. Then, using a 22mm wrench, remove the nut from the steering linkage. Using a hammer hit on the side of the knuckle as shown, and remove the linkage from the knuckle. Push linkage forward to make room for installation. Retain factory hardware. **See Photo 1.**
4. Using a 13mm socket, remove the nut holding the brake line bracket from the knuckle. **See Photo 2.**



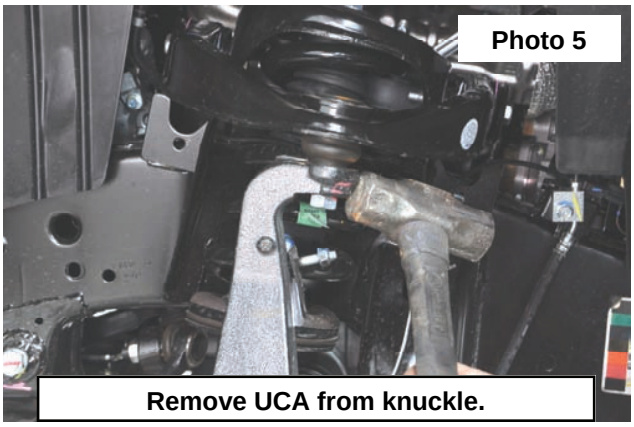


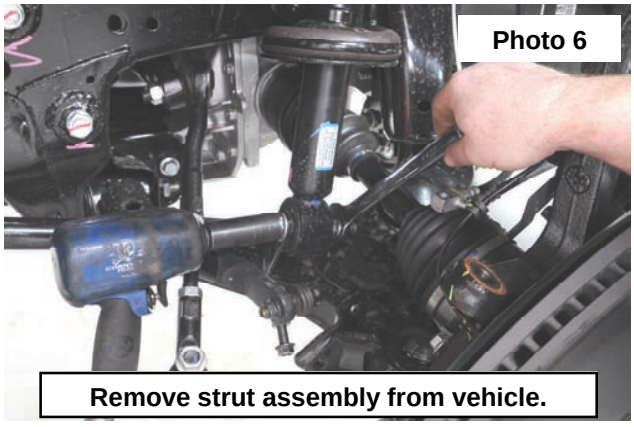
5. Using a 24mm wrench, remove the brake caliper bolts. Remove the caliper and hang out of the way. **See Photo 3**. **Never hang the brake caliper by the brake line.**
6. Using a 17mm wrench and 6mm allen, remove the sway bar link from the lower control arm. **See Photo 4**.





7. Remove cotter pin. Then, using a 22mm wrench, loosen the nut on the upper ball joint. Using a hammer hit on the side of the knuckle as shown, and remove the knuckle from the upper ball joint. Retain factory hardware. **See Photo 5.**
8. Using a 22mm socket and wrench, remove the lower strut bolt. **See Photo 6.**





9. Using a 14mm wrench, remove the 3 upper strut nuts. Retain factory hardware.
10. Install the new strut spacer on the strut using factory hardware and a 14mm socket. **See Photo 7.**
11. Install the strut assembly into the strut tower and secure with the supplied 10mm nuts, lock washers, & washer. Tighten using a 17mm wrench**. See Photo 8**.



Photo 7

Install strut spacer on stock strut.

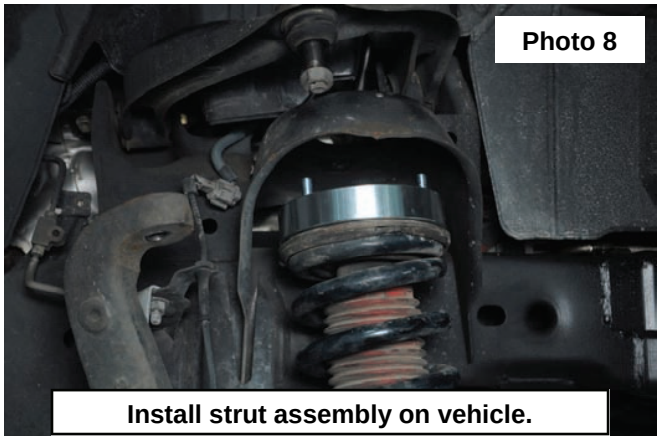


Photo 8

Install strut assembly on vehicle.

12. Install the lower strut bolt in the original position that it was removed. Torque to factory specs
13. Using a floor jack, raise the lower control arm and connect the upper ball joint on the upper control arm to the spindle. If ball joint spins while trying to tighten nut. You may have to put a ratchet strap around the upper and lower control arm to pull them together to tighten. **See Photo 9**. Torque to manufacturer specs.
14. Using a 22mm socket reinstall the steering linkage nut and cotter pin.
15. Repeat steps 3-14 on opposite side of vehicle
16. Using 17 mm wrench reinstall sway bar links using factory hardware. Torque to factory specs.
17. Install the wheels / tires.
18. Jack up the vehicle and remove the jack stands. Lower the vehicle to the floor and torque all bolts to factory specifications.

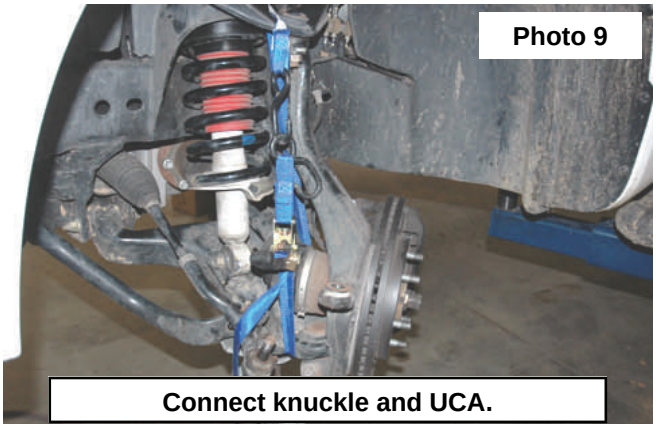
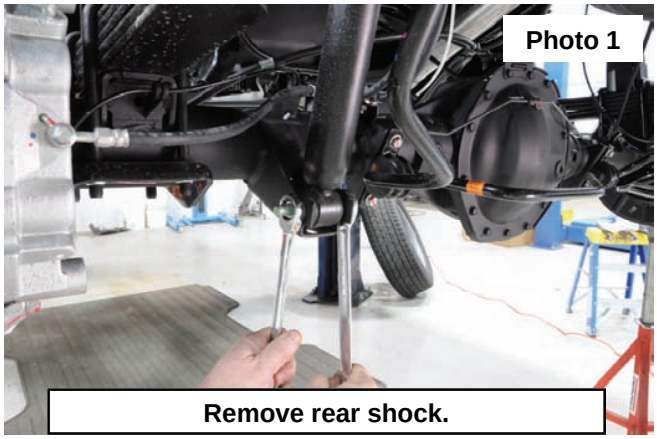


Photo 9

Connect knuckle and UCA.

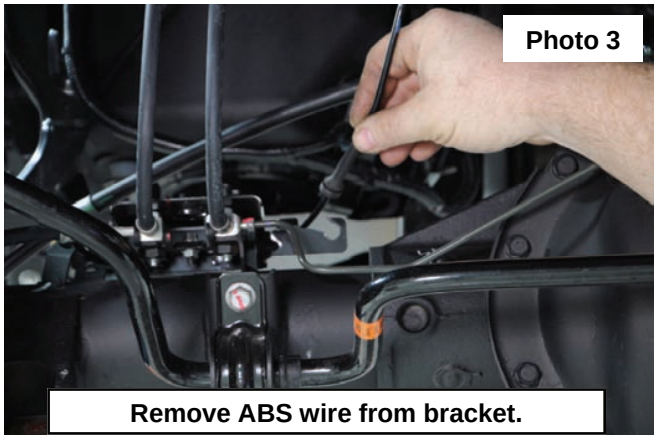
Rear Installation

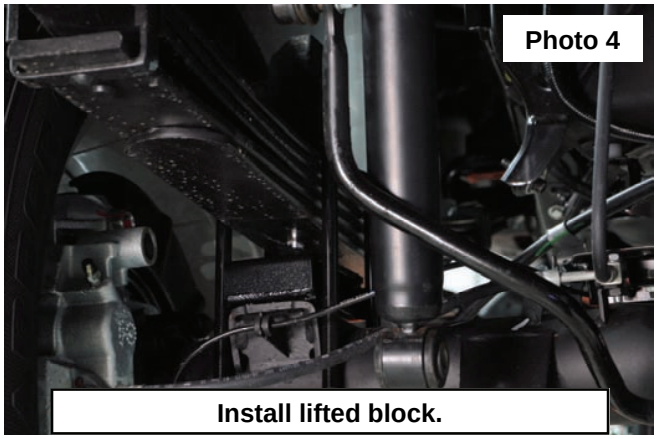
1. Chock the front wheels.
2. Jack up the rear of the vehicle and place jack stands underneath the frame rail.
3. Remove the tires and wheels.
4. Remove rear shocks using a 21mm, and 19mm wrench. Retain stock hardware for reuse. **See Photo 1.**
5. Using a 18mm wrench, remove the rear sway bar from the links. **See Photo 2.**



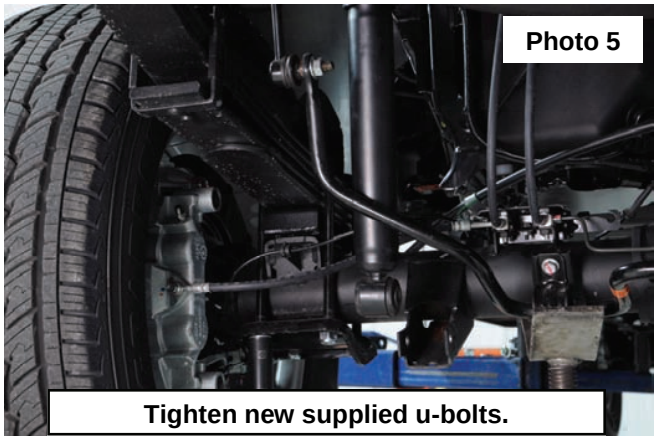


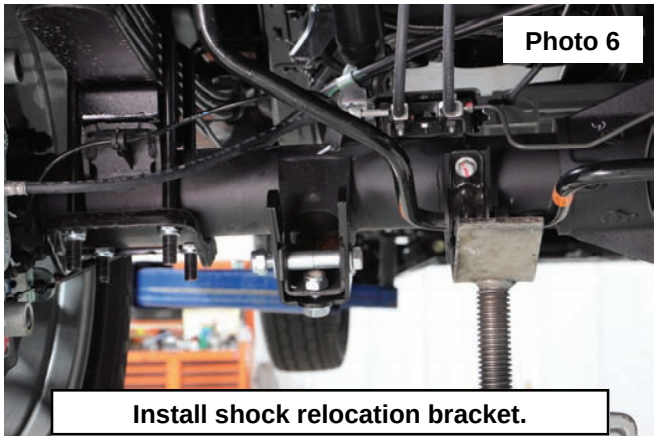
6. Support the rear axle with a jack.
7. Remove the ABS line from the bracket on the axle. **See Photo 3.**
8. Using a 19mm socket, remove the rear u-bolts.
9. Lower the axle and install the supplied 1.5” block with the center pin offset toward the front of the truck. **See Photo 4.**



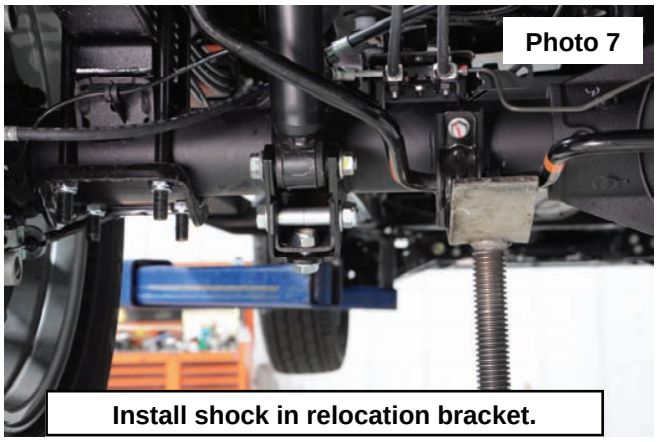


10. Install supplied u-bolts and hardware. Tighten using a 7/8” socket. Torque to 90 ft-lbs. **See Photo 5.**
11. Push the supplied shock extension bracket on from the bottom. Install the supplied 14mm x 25mm bolt, nut and washer into the bottom hole. Then install the sleeve into the bracket using the supplied 14mm 85mm bolt, nut and washer. **Do not tighten at this time. See Photo 6.**

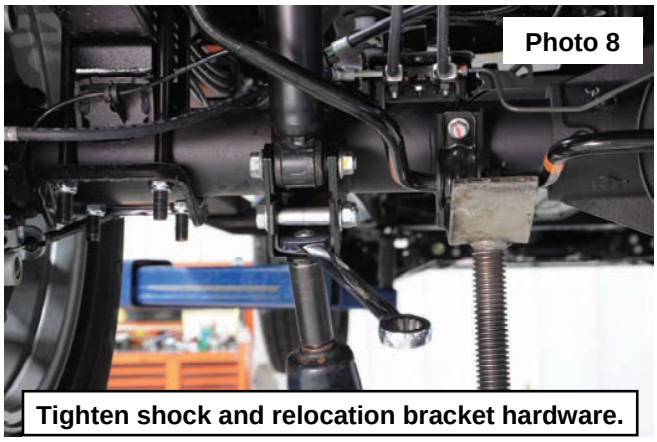




12. Attach the rear shocks to the relocation brackets using the stock hardware. Tighten all shock and bracket hardware. **See Photos 7 & 8.**
13. Install the wheels and tires and lower the vehicle to the ground.



Install shock in relocation bracket.



Tighten shock and relocation bracket hardware.

POST INSTALLATION

1. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering for interference and proper working order. Test brake system.
2. Perform steering sweep. The distance between the tire sidewall and the brake hose must be checked closely. Cycle the steering from full turn to full turn to check for clearance. Failure to perform inspections may result in component failure.
3. Re torque all fasteners after 500 miles. Visually inspect components and re torque fasteners during routine vehicle service.
4. Readjust headlights to proper settings.
5. Vehicle will have to have a front-end alignment.

Alignment specs.	Caster	5.42° to 6.42°
	Camber -	-.42° to .58°
	Toe ……	.20” to .39”
	Total Toe	.37° to .66°

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KIT CONTENT

