TRAIL FORTRESS

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Rough Country 651 Installation Instructions

1.75-Inch Lift Kit for 2007–2017 Jeep Wrangler 4WD/RWD

Part number: 651

trailfortress.com/rough-country-1-75-inch-lift-kit-651

Scan for fitment, price and install help



92651N200

JEEP JK 1 3/4" 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 this 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

As a general rule, the taller a vehicle is, the easier it will roll. 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 285/75/17 tire with factory wheels. **Note** if wider tires are used, offset wheels will be required and trimming will be required.

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

Kit Contents:

651 Kit Box
2– Front Coil Spring Spacers
2– Rear Coil Spring Spacers
2- 658702 Fr N2.0 Nitro Shock
2– 658708 Rr N2.0 Nitro Shock

Tools Needed:

10mm Wrench
14mm Socket
16mm Wrench
16mm Socket
18mm Wrench
18mm Socket
19mm Deep Well Socket
Jack
Jack Stands

Torque Specs:

Size	Grade 5	Grade 8
5/16"	15 ft/lbs	20 ft/lbs
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
6MM	5 ft/lbs	9 ft/lbs
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
18MM	170ft/lbs	240ft/lbs

FRONT 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. Chock rear wheels.
2. Remove the front tires/wheels, using a 19mm deep well socket
3. Using a 18mm socket and wrench remove the bottom sway bar bolts. Retain hardware for later use. **See PHOTO 1**
4. Remove the lower shock bolt using a 18mm socket and wrench. Using a 14mm wrench unbolt the top of the shock and remove. **See PHOTO 2.**





5. Push down on the axle to allow room for the coils to be removed. Remove coil springs, and factory spring isolator.
6. Install the spacer over the factory bump stop with the lip of the spacer pointing down. **See PHOTO 3**.
7. Reinstall the factory coil spring, and the factory spring isolator. Be sure to rotate the spring until the pigtail hits the stop. **See PHOTO 4.**





8. Install the front shocks at this time. When tightening the upper shock mount, using a 14mm wrench tighten until the bushing starts to bulge. Use the factory bolt in the lower shock mount using a 18mm socket and wrench. **See PHOTO 5**.
9. Reinstall the bottom sway bar bolt, using a 18mm socket and wrench.
10. Reinstall the front tires/wheels .



REAR INSTALLATION INSTRUCTIONS

1. Jack up the rear of the vehicle and support the vehicle with jack stands, so that the rear wheels are off the ground. Chock front wheels and remove the rear tires/wheels, using a 19mm deep well socket.
2. Remove the upper shock bolt using a 16mm socket and wrench. Remove the lower shock bolt using a 18mm socket and wrench and remove the factory shock. **See PHOTO 1.**
3. Using a 18mm socket and wrench remove the bottom sway bar bolts. Retain hardware for later use. **See PHOTO 2.**





4. Using a 10mm wrench remove the bolt holding the brake line to the frame. This is done to allow the rear axle to be lowered enough to remove the coil springs. **See PHOTO 3**.
5. Push down on the axle to allow the stock coil to be removed. Remove the stock coil spring and isolator.
6. Install the new coil spring spacer on top of the stock coil with the lip of the spacer pointing down. The factory coil spring isolator will be re-used. **See PHOTO 4**.





7. Install the top of the coil back into the coil seat. When installing the bottom of the coil into the seat rotate the coil until the pigtail hits the spring stop. **See PHOTO 5**.
8. Reinstall the sway bar link using a 18mm socket and wrench using the stock hardware.
9. Install the new rear shock using a 18mm socket and wrench on the bottom and a 16mm socket for the top, using the stock hardware. **See PHOTO 6.**
10. Reinstall the rear tires/wheels and Lower the vehicle to the ground
11. Reinstall the brake line bracket to the stock location with the stock bolt using a 10mm wrench





POST INSTALLATION INSTRUCTIONS

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.

Maintenance Information

It is the ultimate buyers responsibility to have all bolts/nuts checked for tightness after the first 500 miles and then every 1000 miles. Wheel alignment steering system, suspension and driveline systems must be inspected by a qualified professional mechanic at least every 3000 miles

