TRAIL FORTRESS

BUILT FOR THE TRAIL. CHECKED FOR YOUR TRUCK.

Rough Country 37630 Installation Instructions

6-Inch Lift Kit with N3 Shocks for 2002–2005 Dodge Ram 1500 2WD

Part number: 37630

trailfortress.com/rough-country-6-inch-lift-kit-37630

Scan for fitment, price and install help



92137600

02-05 2WD Dodge 1500 6” Suspension 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

As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend, because of rollover possibility, that the vehicle be equipped with a functional roll-bar and cage system. 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 not 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.

This kit is packaged as a leveling kit—raising the front 6” and the back 3”. If you desire a different look or if your truck has a tool box or something else that is going to bring the rear end down, please consult with your sales representative about the option of a 4” block and u-bolt kit part # 6575, or the use of an add-a-leaf.

This **6”** suspension system was developed for **315/70/17** tire on an after market wheel with 4.5” of back spacing.

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.

Kit Contents

9293	Coil springs
1380BOX1	Driver Side Knuckle
1380BOX2	Passengers Side Knuckle
1376BOX3	Front and Rear Cross Members Sway Bar Links, Sway Bar Brackets 1376Bag1, Front Bump Stop Brackets, LinkBag2
8117 / 9117	Front Shocks
8112 / 9112	Rear Shocks
6561	3” Block and U-Bolt Kit
OR	
6575	4” Block and U-Bolt kit

Tools Needed

13mm Wrench
13mm Socket
14mm Socket
15mm Wrench
15mm Socket
16mm Wrench
18mm Wrench
18mm Socket
19mm Socket
21mm Wrench
21mm Socket
24mm Socket
7/8 Deep Well Socket
T30 Torx Socket
4 Ton Floor Jack
2 Jack Stands

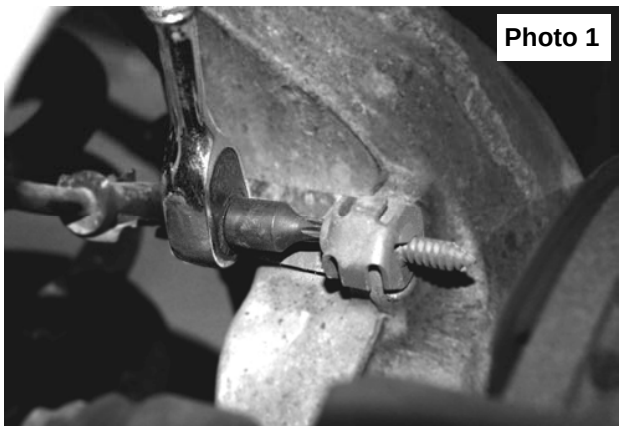
Torque Specs

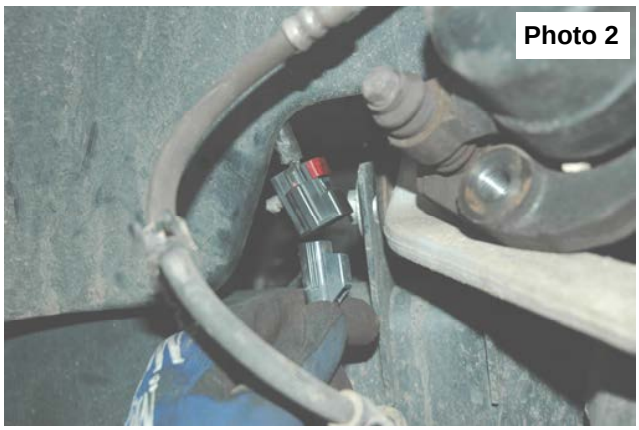
Size	Grade 5	Grade 8
5/16”	15 ft/lbs	20 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs
3/4”	185 ft/lbs	280 ft/lbs

trailfortress.com/rough-country-6-inch-lift-kit-37630

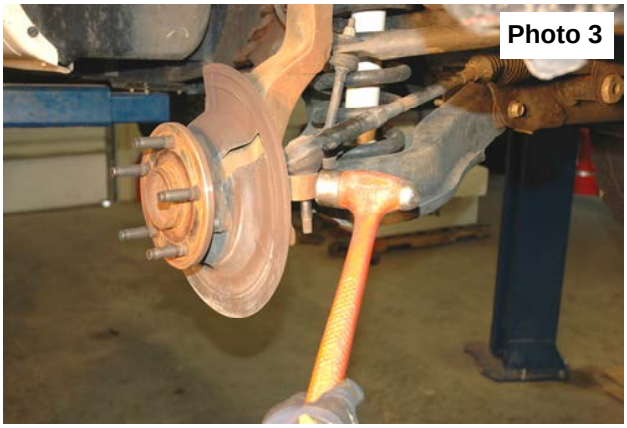
FRONT INSTALLTION INSTRUCTIONS

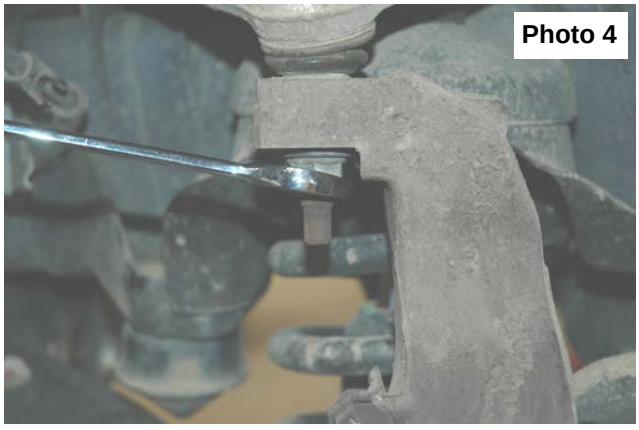
1. The tools needed , and parts for this installation are on the front cover. Make sure you have all of the proper tools and understanding of these instructions before you proceed.
2. Place the truck on a clean level surface and set the parking brake. Chock the rear wheels and using a floor jack raise the front of the truck and support the frame rails with approved jack stands. **NEVER WORK UNDER AN UN-SUPPORTED VEHICLE,** Using a 7/8 deep well socket remove the front wheels.
3. Remove the brake calipers from the spindle bracket using a 13 mm wrench. Using a pry bar to pry up the caliper, zip tie the caliper to the frame rail. ***Do not let the caliper hang from the hose.*** Remove the two bolts securing caliper bracket to the spindle.
4. Remove Rotor
5. Using a T30 Torx socket remove the ABS wire from the spindle as shown in **Photo 1**
6. Unplug the ABS wire as shown in **Photo 2**.





7. Using a 21 mm socket remove tie rod end from the spindle. Using a hammer lightly wrap on the spindle around the ball joint to loosen. Remove from spindle **See Photo 3.**
8. Using a 21 mm wrench loosen the nut on the upper control arm ball joint, but do not remove. **See Photo 4.**



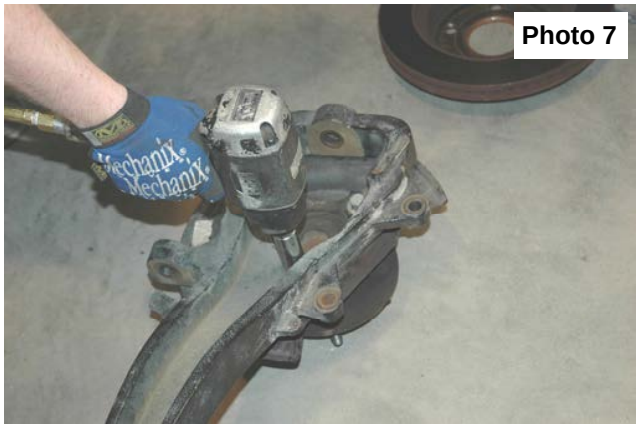


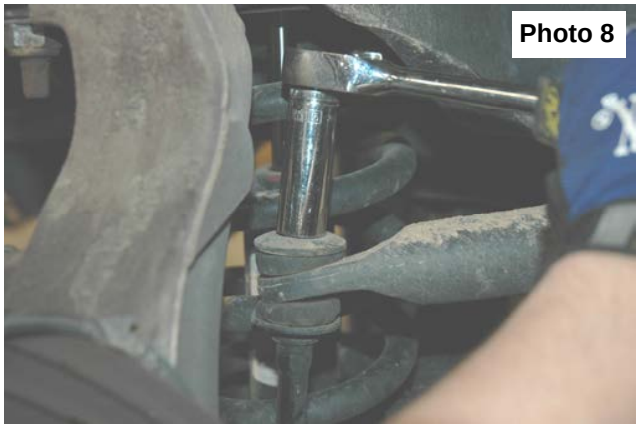
9. Using a 24 mm wrench loosen the nut on the lower control arm ball joint. Using a hammer lightly rap on the spindle around the ball joint until it breaks free from the joint. **See Photo 5**
10. Take nuts off of the upper and lower control arm ball joints and remove spindle.
11. Turn spindle on its back side. Using a 18mm socket remove the 3 bolts holding the hub assembly and dust cover on the spindle. **See Photo 6.**





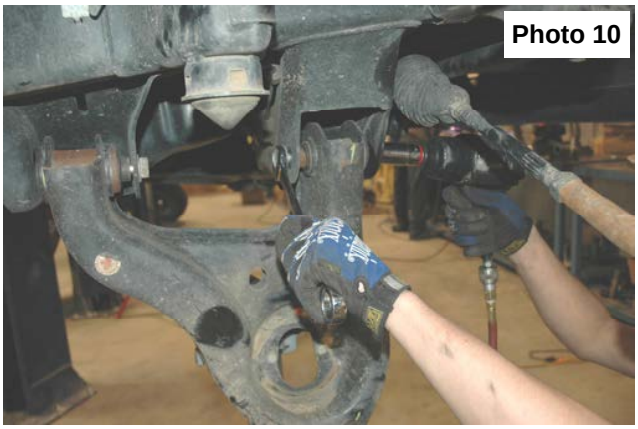
12. Using the 18mm socket reinstall the hub assembly and dust cover on Rough Country spindle using the 3 factory bolts. Torque to factory specs. **See Photo 7**.
13. Using a 16mm socket remove sway bar links, the links and hardware will not be re-used. **See Photo 8**.





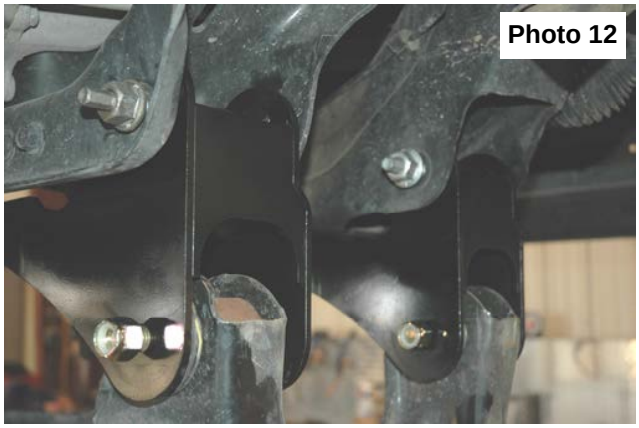
14. Remove factory shocks using a 13mm socket for the bottom and a 18mm wrench for the top. **See Photo 9**.
15. Remove the factory coil springs.
16. Using a 21mm wrench and a 24mm socket remove the lower control arms. Retain factory hardware for re-use. **See Photo 10**.





17. Hang the new Rough Country front cross member in place. Use factory hardware from lower control arms to bolt in place, do not tighten at this time.
18. Hang the new Rough Country rear cross member in place. Use factory hardware from lower control arms to bolt in place, do not tighten at this time. **See Photo 11**.
19. Reinstall lower control arms using the 5/8”x5.5” bolts, washers, and nuts provided in 1376Bag1. Do not tighten at this time. **See Photo 12**.





20. Install new Rough Country coil spring part # 9293, be sure that the factory rubber isolator is still in place on the top of the coil seat. Rotate coil until it is properly seated.
21. Place a jack stand under the lower control arm. Reinstall the new spindle on the lower control arm ball joint and install the factory nut. Torque to factory specs. **See Photo 13**.
22. Push the spindle up to reinstall the upper control arm ball joint. Reinstall the factory nut, torque to factory specs. **See Photo 14**.

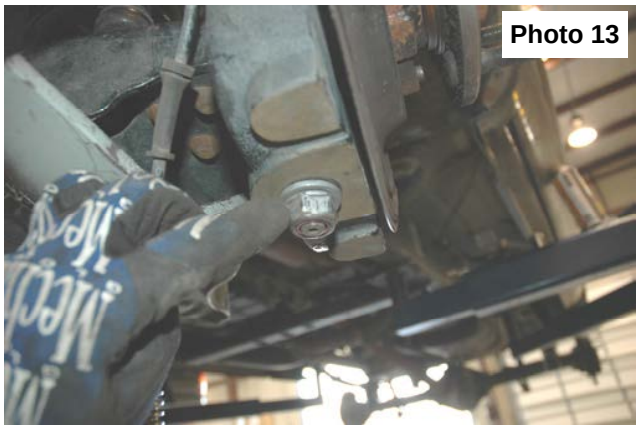

Photo 13


Photo 14

23. Reinstall rack–pinion tie rod end on the spindle. Reinstall the factory nut, torque to factory specs. **See Photo 15.** Reinstall ABS wires from step 5 and 6. Repeat steps 19-23 on opposite side.
24. Using a 15mm socket remover the factory sway bar bracket from the frame as shown in **Photo 16**. Keep factory bolts for the next step.


Photo 15


Photo 16

25. Locate sway bar bracket from 1376BOX3. Insert the (2) 3/8" x 1.25" bolts provided in the kit bag into the bracket with the hex holes. Bolt the sway bar drop bracket in the stock location using the stock bolts from the last step. Torque to factory specs.
26. Align the bolts from the sway bar drop bracket with the holes in the factory bar. Using the supplied washers and nuts, tighten using a 14mm socket. Torque to factory specs. **See Photo 17**.
27. Locate the new sway bar link bracket and install as shown in **Photo 18** on the lower control arm with the supplied 12mm x 50mm bolt, flange lock nut and thick washer under the bracket. Do not tighten at this time. Repeat on opposite side.

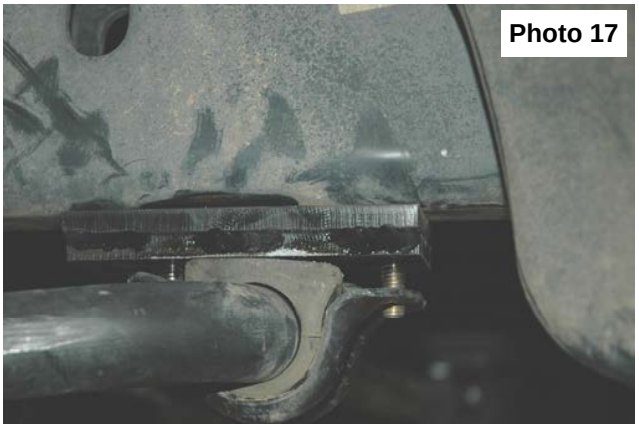

Photo 17


Photo 18

28. Install the sway bar bracket on the sway bar with the supplied 12mm x 35mm bolt and flange lock nut. **See Photo 19.**
29. Install the link in the upper and lower brackets and secure with 12mm x 65mm bolts and flange lock nuts. **See Photo 20 & 21.** Tighten the upper and lower brackets and links using a 18mm & 19mm socket / wrench.

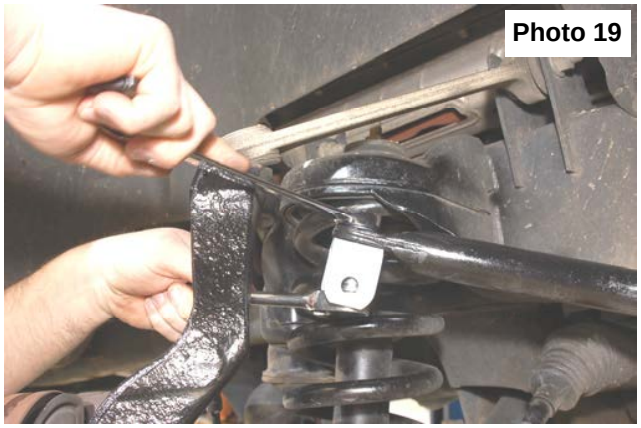

Photo 19


Photo 20

30. Remove the rubber bump stop from the bump stop cup and remove the mounting cup from the frame using a cutting wheel as shown in **Photo 22**.

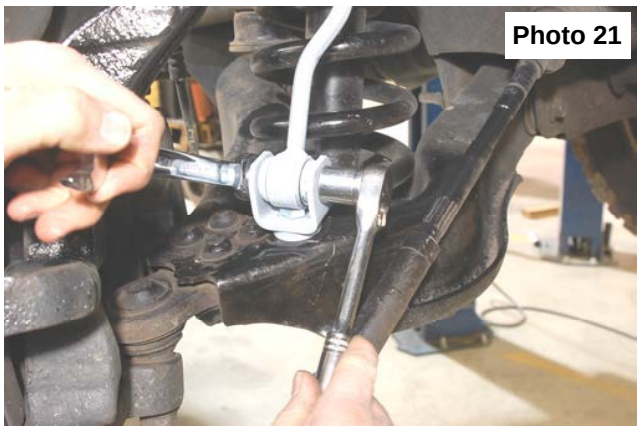

Photo 21


Photo 22

31. Reinstall the stock bump stop cup on the bump stop bracket as shown in **Photo 23** using the supplied 3/8" x 1 1/4" bolts, washers/nuts.
32. Reinstall the bracket in the stock location on the frame using the supplied 3/8" 1 1/4" bolts, washers & flange lock nuts . Reinstall the stock rubber bump stop in the bump stop cup.
33. Locate shock part number 8117 hydraulic shock/ 9117 nitrogen charged shock. Using the stock bolts and a 13mm socket bolt the bottom of the shocks into the factory location. Install provided bushings on the top of the shock and tighten using a 18mm wrench. Do not over tighten, only buldge the bushings.
34. Using a 7/8" socket reinstall tires and wheels.
35. Jack up the front of the vehicle and remove the jack stands. Lower the vehicle to the floor.
36. Using a 21mm wrench and a 24mm socket tighten the and lower control arms to factory specs. Using a 24mm wrench and 24mm socket tighten the cross member to factory specs.

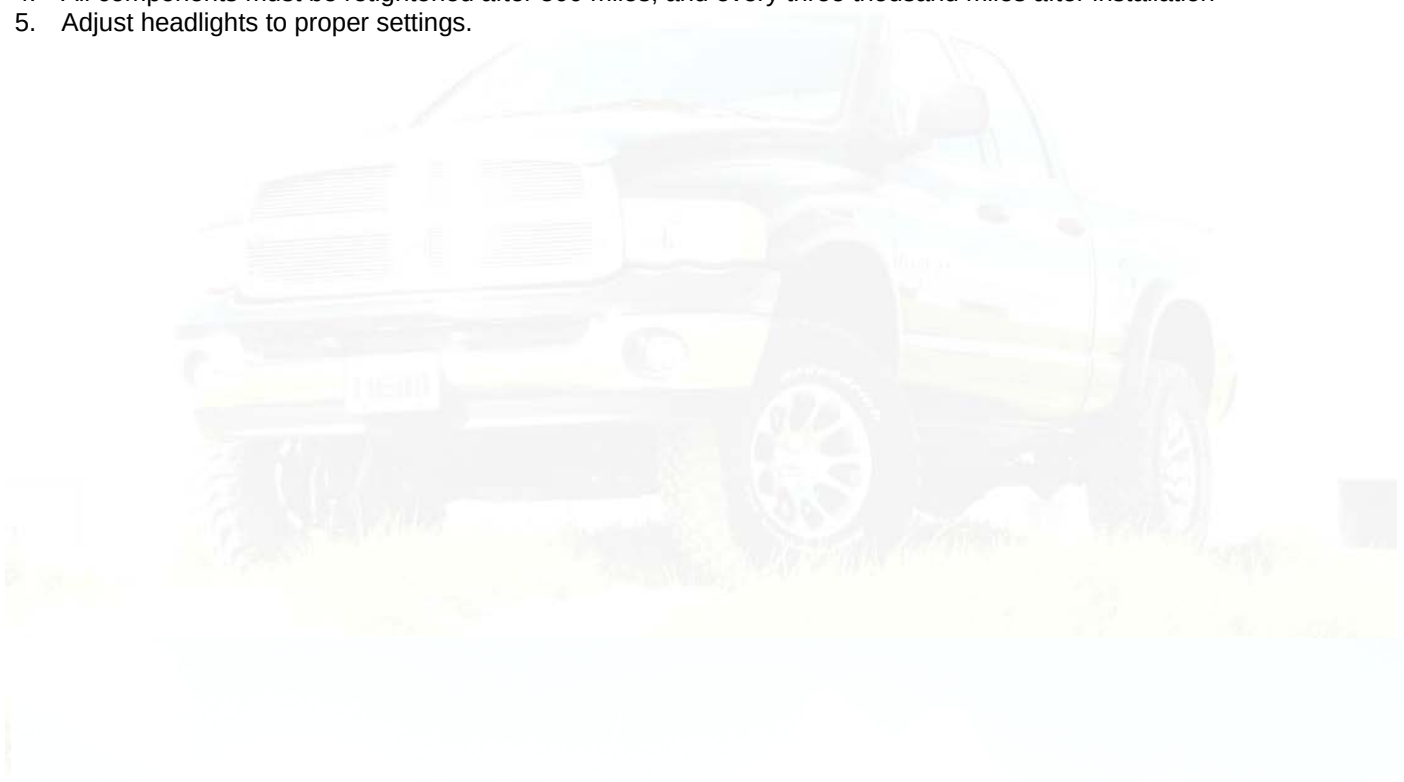

Photo 23

REAR INSTALLTION

1. Chock front wheels and jack up the rear of the vehicle. Secure with jack stands on the frame rail.
2. Place a floor jack under the rear differential on the rear axle. Using a 18mm socket and wrench, remove the stock shock absorbers, retain the stock hardware for reuse.
3. Using a 24mm socket, remove the stock u-bolts. Use the floor jack to lower the axle assembly to allow for lifted block installation.
4. Install the Rough Country block in between the leaf spring and the axle. Jack up the axle and align the pins in the blocks and axle seat. Secure with new u-bolts and torque evenly to 85 ft/lbs.
5. Locate shock part number 8112 hydraulic shock/ 9112 nitrogen charged shock and assemble poly bushings and sleeve in shock. Using a 18mm socket, and wrench, Install using factory hardware on upper and lower shock mount
6. Install the tires and wheels
7. Jack up the rear of the vehicle and remove the jack stands. Lower the vehicle to the floor.

POST INSTALLTION INSTRUCTIONS

1. Have a qualified alignment center realign front end to factory specs.
2. Install Warning to Driver decal on sun visor.
3. Re-torque all nuts, bolts, and especially u-bolts after the first 100 miles, again after another 100 miles and then check periodically thereafter.
4. All components must be retightened after 500 miles, and every three thousand miles after installation
5. Adjust headlights to proper settings.



KIT CONTENTS:



Thank you for choosing Rough Country for your suspension needs.