Rough Country 487.20 Installation Instructions

3-Inch N3 Lift Kit for 2000–2005 Ford Excursion 4WD

Part number: 487.20

trailfortress.com/rough-country-3-inch-lift-kit-487-20

Scan for fitment, price and install help

921487200

ROUGH COUNTRY
SUSPENSION SYSTEMS®

2000-05 Ford Excursion 4wd 3” Lift 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 on the back page of these instructions. 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. 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 the vehicle has a tool box in the rear or any other reason that the rear may be lower then normal this lift may not result in a level look most often desired. Rough Country offers block and u-bolt combinations and add-a-leafs to raise the rear of this vehicle to a look that is more desirable —contact you local distributor for details.

This kit was designed for use with a **305/70R-16** tire on a factory wheel. Any other variation will need to be verified before use to prevent possible clearance issues.

If you have any questions about this installation or the product included please call our customer service department at 800-222-7023.

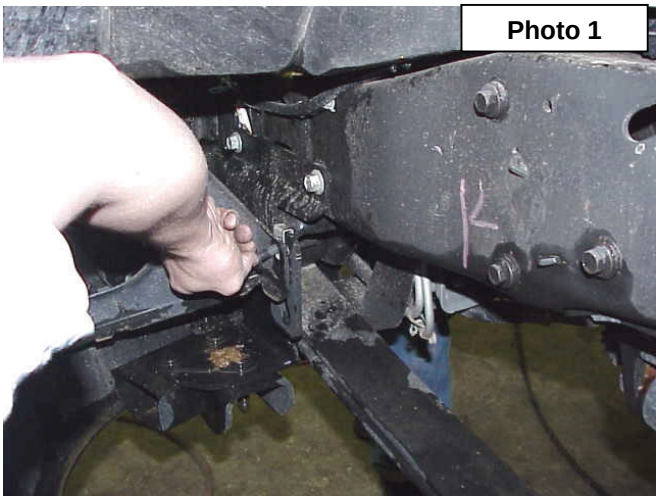
⚠NOTICE NOTICE TO DEALER AND VECHICLE OWNER

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.

INSTALLATION INSTRUCTIONS

1. Place the vehicle in park. Block the rear wheels and jack up the front of the vehicle. Secure with jack stands behind the spring shackle on the frame rail.
2. Lightly support the front axle assembly with a floor jack.
3. Remove the tires/wheels.
4. Remove the front shock absorbers.
5. Remove the 4 nuts on the front bumper holding the front bumper to the frame using a 18mm socket and the rear bumper support bolts (1 each side) on the frame bracket as shown in **Photo 1** using a 15mm socket.

Photo 1



6. Gently pull the bumper outward as shown in **Photo 2**. Carefully remove the lighting harness plugs, and any other wiring attached to the bumper assembly to allow for removal noting the routing of the wiring. Place the bumper assembly out of harms way to ensure that no damage occurs to the bumper.
7. The condenser lower mounts will have to be removed to allow access to the front spring bolts. Remove bolts on both sides of condenser as shown in **Photo 3** (Passenger Side Shown). Retain the factory hardware for reuse.


Photo 2

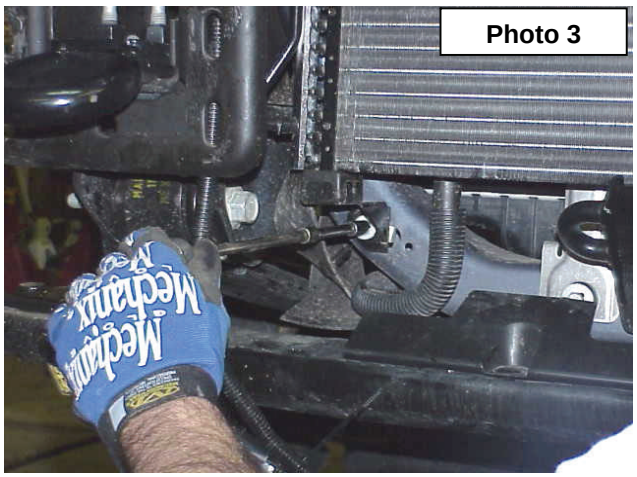


Photo 3

8. Remove the factory track rod from the axle and the frame using a 30mm socket / wrench. Remove the factory track bar. **See Photo 4 & 5.**

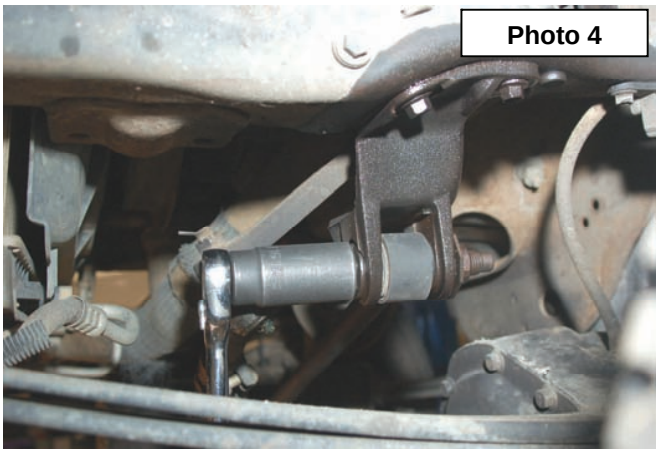


Photo 4

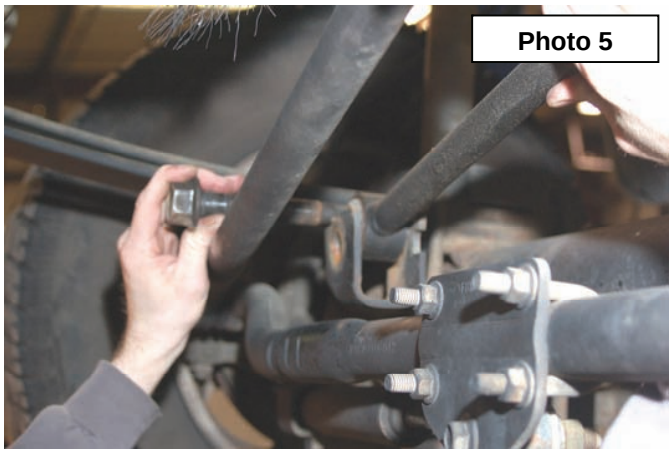


Photo 5

9. Make sure the axle is still being supported with the floor jack. On the front spring bolt, gently pull the condenser outward to remove the spring bolts. Remove spring bolts and retain for reuse. **See Photo #6**. Remove factory rear spring shackle bolts. **See Photo #7**. Retain for reuse.
10. Remove the factory front spring bolts. **See Photo #6** and factory rear spring shackle bolts. **See Photo #7**.

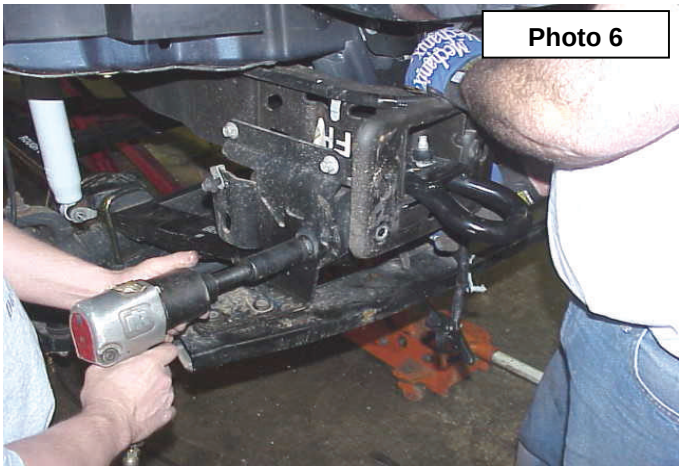


Photo 6


Photo 7

11. Clean and lubricate the front u-bolts and remove. Be sure the floor jack is still in position under the axle to avoid movement. Retain the u-bolts for re-use.
12. Lower the floor jack to gain clearance between the axle and spring assembly.
13. Lightly grease the supplied bushings and install in the leaf springs with the 5/8” diameter sleeve in the rear and the larger diameter sleeve on the front mount. **Note:The front of the spring is the double wrapped end.**
14. Install the new Rough Country spring in the mounts using the factory hardware. Do not tighten at this time.
15. Raise the axle to meet the spring and center. Install the factory u-bolts and tighten.
16. Repeat process for opposite side.
17. It may be necessary to bend the brake line bracket on the side of the frame rail downward slightly to allow for more travel. Simply bend the bracket downward toward the axle. This bracket is located on the frame rail where the metal line and the rubber line meet.
18. Assemble the new shock absorbers 658692 with the supplied poly bushings and corresponding sleeves. Note supplied sleeve goes on body end of shock and on this shock the piston must run up. Install the shock absorbers with the factory hardware an tighten.
19. Reinstall the front bumper making sure to re-clip the wiring to the bumper and to reattach the wiring harness for the lighting. (If applicable).
20. Reinstall the tires /wheels and lower vehicle to the ground.
21. After vehicle is on the ground, the new track rod can be installed. Install new track rod with stock hardware and using a 30mm socket. **See Photo 8 & 9.** It may be necessary to turn the steering wheel to align the track rod in the mount. This is best accomplished with two people. One turning the steering wheel and one under the truck inserting the bolts in the mounts.

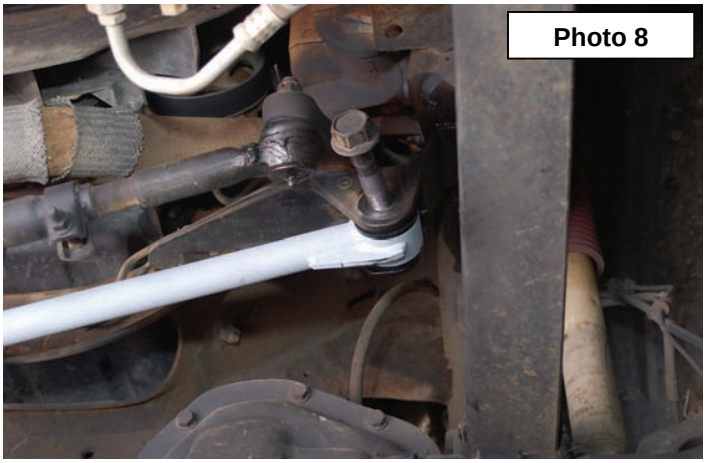


Photo 8

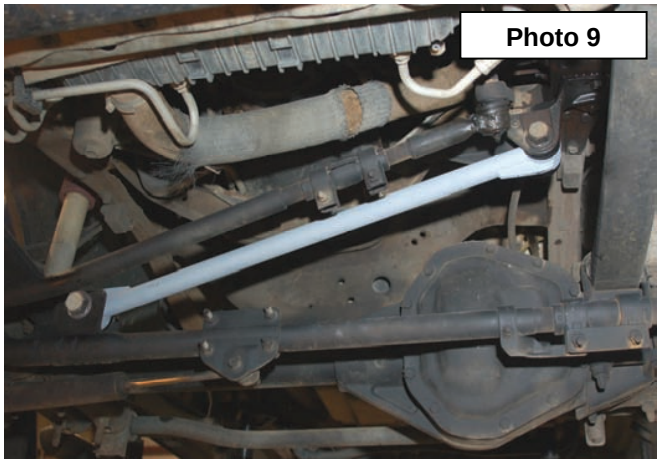


Photo 9

REAR INSTALLATION

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 factory block (if equipped) and axle. The lager end of the block goes to the rear of the vehicle. **See PHOTO 1 & 2**. 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.
6. Locate shock part number 658694 and assemble poly bushings and sleeve in shock. Using a 18mm socket, and wrench, Install using factory hardware on upper and lower shock mount.
7. Install the tires and wheels.
8. Jack up the rear of the vehicle and remove the jack stands. Lower the vehicle to the floor.

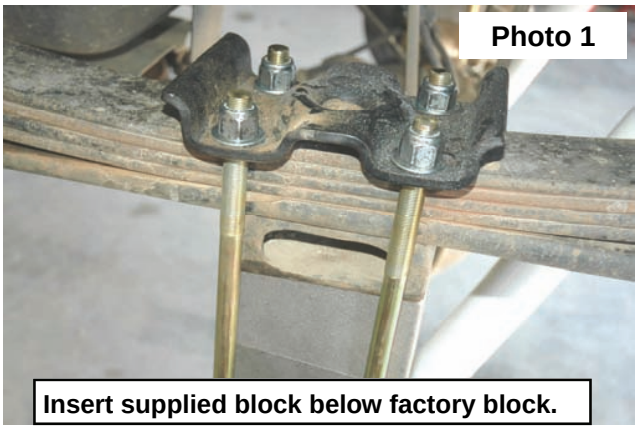


Photo 1

Insert supplied block below factory block.

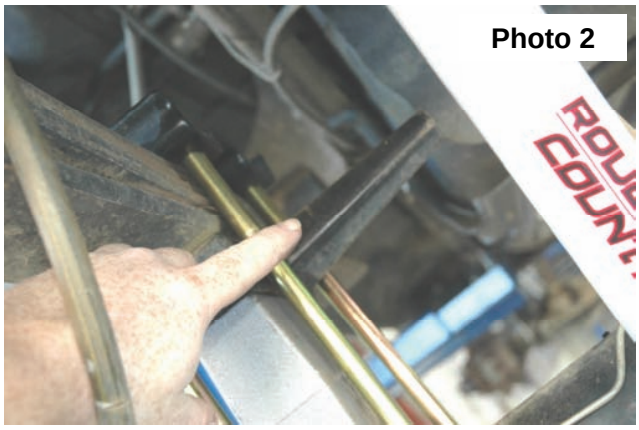


Photo 2

POST INSTALLTION 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 gear for interference and proper working order. Test brake system
2. Perform steering sweep. Check to ensure brake hoses have sufficient slack and will not contact rotating, mobile, or fixed members, adjust lines/brackets to eliminate interference and maintain proper working order. Failure to perform inspections may result in component failure
3. Readjust headlights to factory settings
4. Have vehicle aligned by a certified alignment professional.
5. All components must be retightened after 500 miles, and every three thousand miles after installation.

KIT CONTENTS:

2-Fr Springs (8060)
2-Fr Shock Absorbers(658692)
2-Rr Shock Absorbers(658694)
4-9/16” Ubolts
4-5/8” Ubolts
2-3” Rr Blocks
1-Fr Track Rod
1698Bag3:
- **2-Lower Shock Sleeves**

(2)20001Bag:
- **2-Shock Sleeves**
- **2-5/16” x 1” Bolts**
- **2-5/16” Hex Nuts**
- **2-5/16” Lock Washers**

1489Bag3:
- **4-Track Rod Bushings**
- **2-Track Rod Sleeves**

9/16”& 5/8” U-bolt Hardware Bag

TOOLS NEEDED:

Hammer
Floor Jack
Jack Stands
15mm Socket / Wrench
21mm Socket / Wrench
24mm Socket / Wrench
10mm Socket
18mm Socket
30mm Socket

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



THANK YOU FOR CHOOSING ROUGH COUNTRY FOR YOUR SUSPENSION NEEDS

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.