TRAIL FORTRESS

BUILT FOR THE TRAIL. CHECKED FOR YOUR TRUCK.

Rough Country 12030 Installation Instructions

4-Inch Lift Kit with N3 Shocks for 1973–1976 Chevy/GMC K20/K25

Part number: 12030

trailfortress.com/4-inch-lift-kit-chevy-gmc-k20-k25-rough-country-12030

Scan for fitment, price and install help

92114500

ROUGH COUNTRY SUSPENSION SYSTEMS®

1973-87 GM P/U, 1973-91 Blazer, Suburban, 1/2 Ton 4WD 4”-6” Kits

Thank you for choosing Rough Country for all of 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 Kit Contents list on next page. Be sure you have all the needed parts and understand where they go. Also please review the tools needed list to be certain that you have the tools necessary to complete the installation.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend, because of rollover possibility, that 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/heavier 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, with this 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.

NOTICE TO DEALER AND VEHICLE OWNER

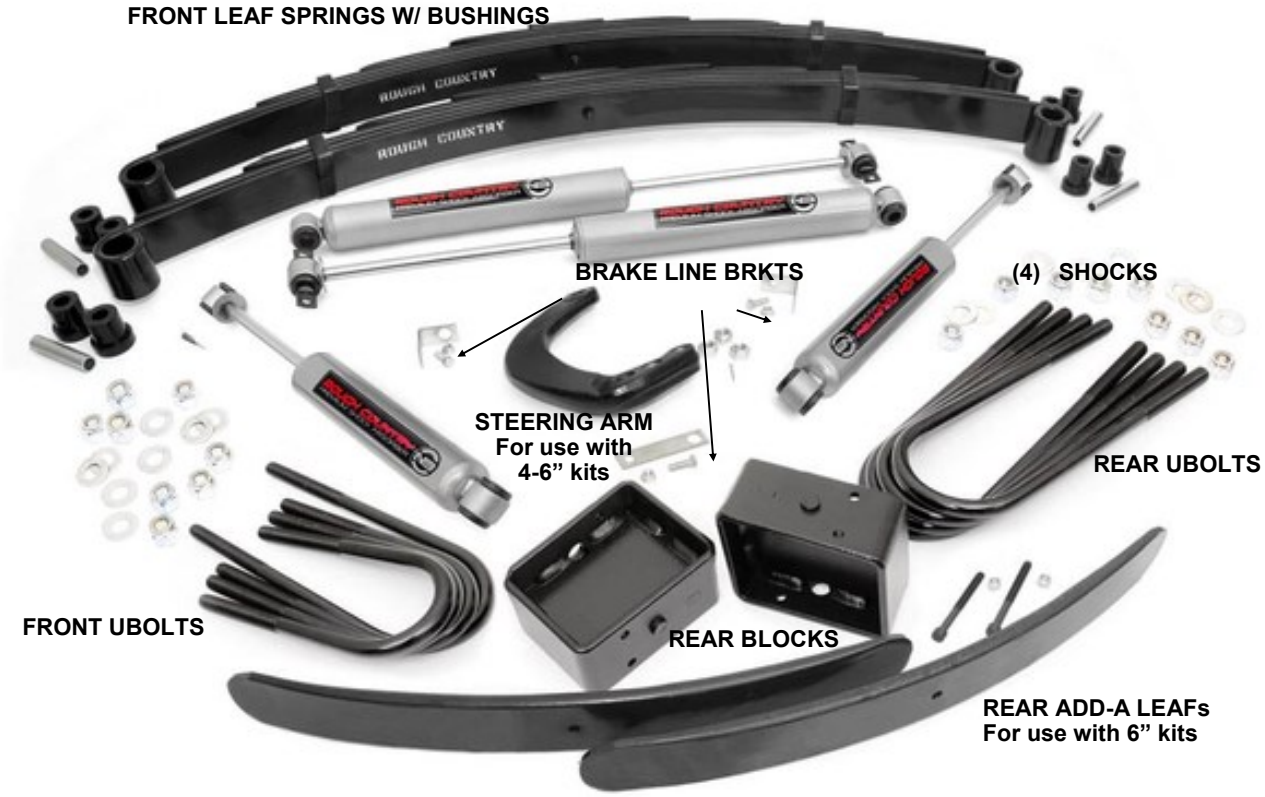
⚠NOTICE

Any vehicle equipped with a 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.

We hope installing your Rough Country lift kit is a positive experience. Please note that variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at 800-222-7023. We do not recommend that you modify the Rough Country parts in any way as this will void any warranty expressed or implied.

trailfortress.com/4-inch-lift-kit-chevy-gmc-k20-k25-rough-country-12030

KIT CONTENTS



TOOLS NEEDED:

1/2 socket/ wrench
5/8 socket/ wrench
9/16 socket /wrench
11/16 socket/ wrench
3/4 socket/wrench
13/16 socket/ wrench
15/16 socket/ wrench
Loc-Tite
Reciprocating Saw
Floor Jack
Jack Stands
Pliers
Torque Wrench

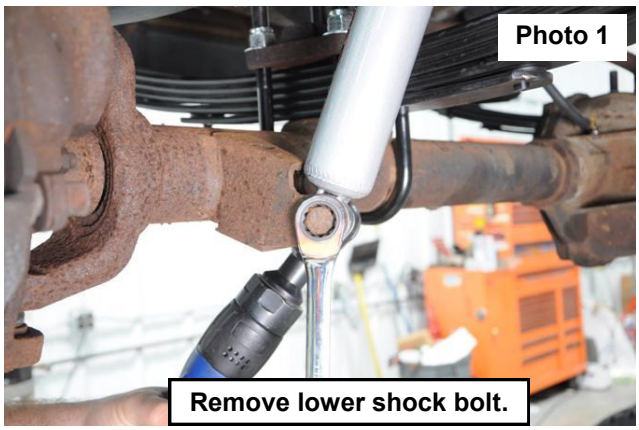
TORQUE SPECS:

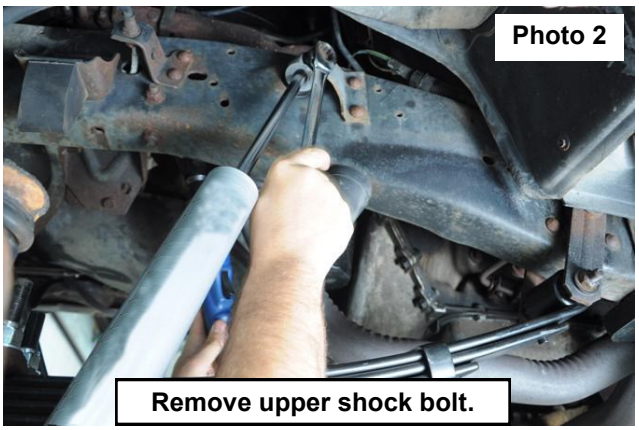
Size	Grade 5	Grade 8
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs

	Class 8.8	Class 10.9
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
18MM	170ft/lbs	240ft/lbs

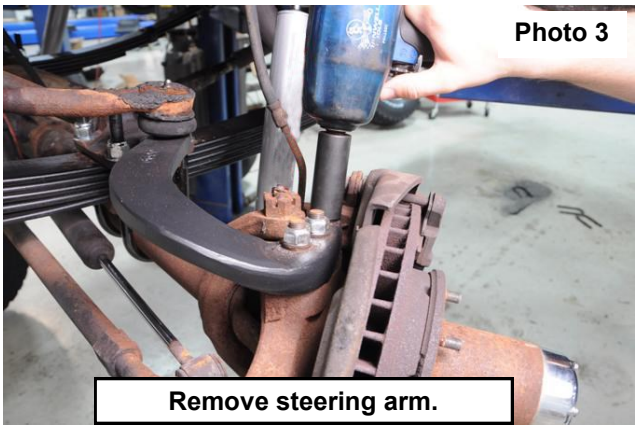
INSTALLATION INSTRUCTIONS

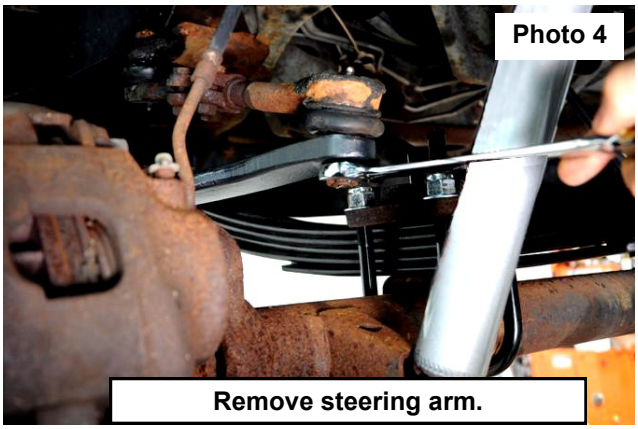
1. Chock the rear wheels.
2. Jack up the front of the vehicle.
3. Place jack stands on the frame behind the lower control arms.
4. Lower the vehicle onto the jack stands and remove the tires and wheels.
5. Place the floor jack under the front axle.
6. Using a 3/4” socket and wrench remove the lower shock bolt. Retain factory hardware. **See Photo 1**.
7. Using 3/4” wrench, remove upper shock bolt. Retain factory hardware. **See Photo 2.**



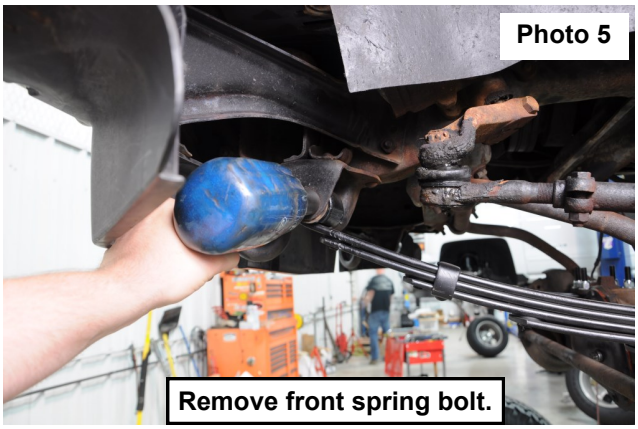


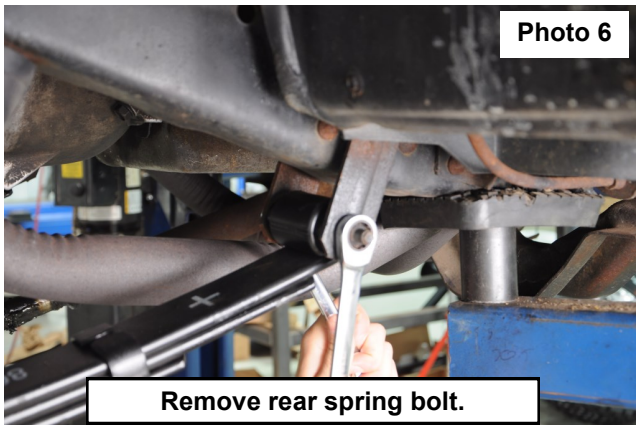
8. For 4-6” kits, Remove the 3 nuts securing the steering arm to the knuckle using a 7/8” socket. **See Photo 3.**
9. Remove cotter pin. Then, using a 15/16” wrench loosen the nut securing the steering arm to the drag link, it may be necessary to hit the steering arm with a hammer to break the taper loose. Save hardware for reuse. **See Photo 4.** You may need to replace the cotter pin.
10. Support the front axle with a floor jack.



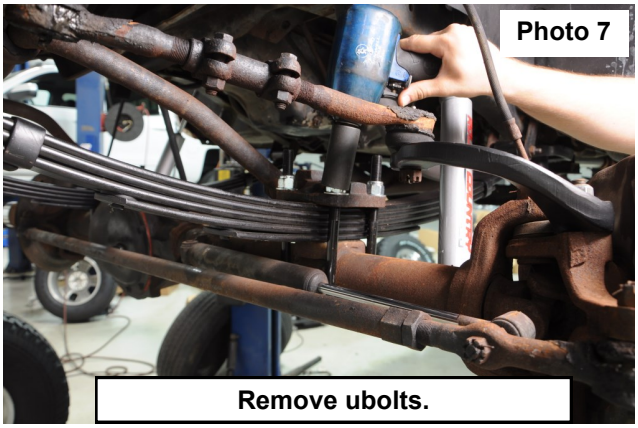


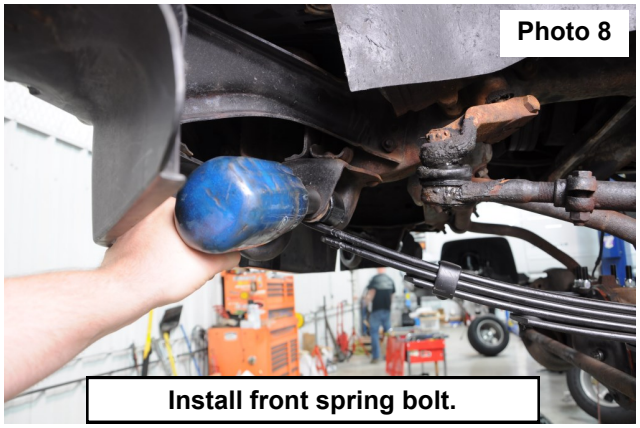
11. Using a 7/8” socket, remove the front spring bolts and retain for reuse. **See Photo 5.**
12. Using a 13/16” socket, remove the rear spring bolts and retain for reuse. **See photo 6.**



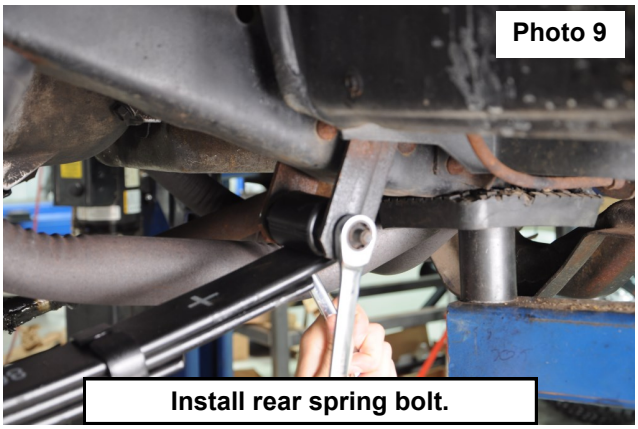


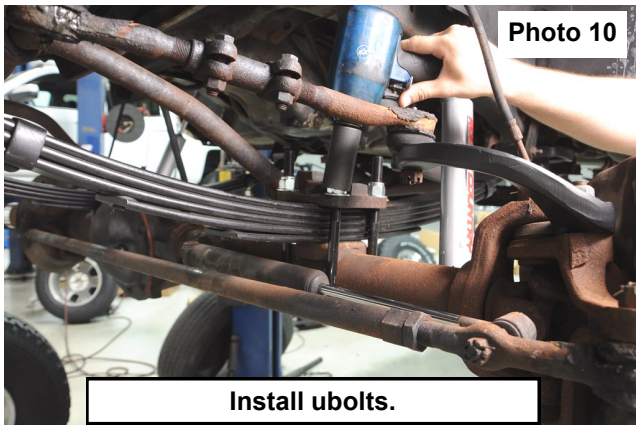
13. Lower the axle. **Note: use caution when lowering the axle not to over extend the brake lines.**
14. Using a 15/16” socket, remove the u bolts and stock spring. **See Photo 7.** 1 ton models will have u bolts and studs.
15. After the spring is free from the axle, remove the spring.
16. Install supplied bushings and sleeves in both ends of leaf spring.
17. Using factory hardware install the front spring bolt and tighten using a 7/8” socket. **See Photo 8.**





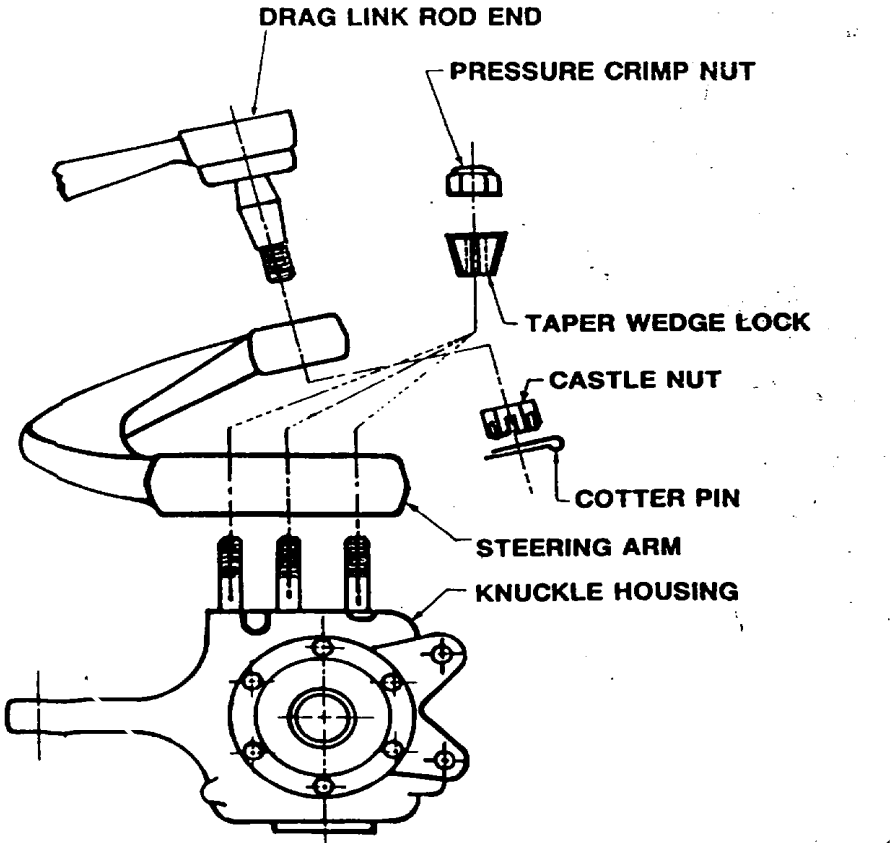
18. Install factory bolt in the rear spring eye and tighten using a 13/16” socket. **See Photo 9.**
19. Install supplied ubolts, washers ,and nuts. Tighten using a 15/16” socket. **See Photo 10.**



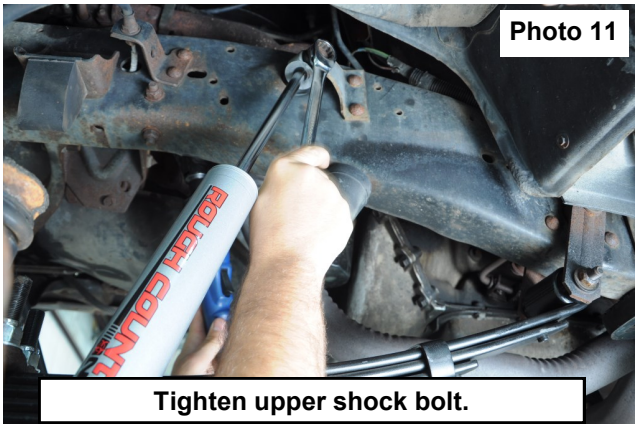


Steering Arm Install
4-6" kits only

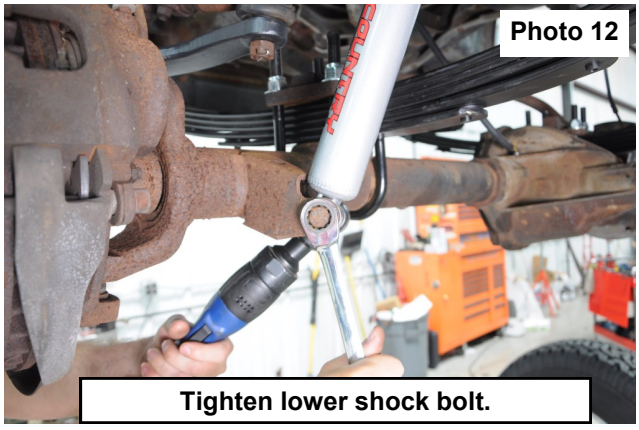
20. Clean mounting surface thoroughly and install the new Rough Country steering arm using the new nuts supplied in the kit. Torque nuts to 90ft/lbs.
21. Inspect the drag link assembly. If the drag link is worn or the ball joint grease boot is torn, replace the assembly. Install the drag link onto the steering arm but do not tighten. It may need to be adjusted to allow the wheels to travel from stop to stop without binding the steering mechanism.



22. Install new Rough Country N2.0 front shocks. 4" lift kits will use **660768**. 6" lift kits use **660792**. Upper mount will use spacer bushing and sleeve. 1/2" sleeve will need to be pressed into the lower bushing. Shock body goes down.
23. Using factory hardware, tighten the upper shock bolt using a 3/4" wrench. **See Photo 11.**
24. Using factory hardware, tighten the lower shock bolt using a 3/4" wrench and socket. **See Photo 12.**



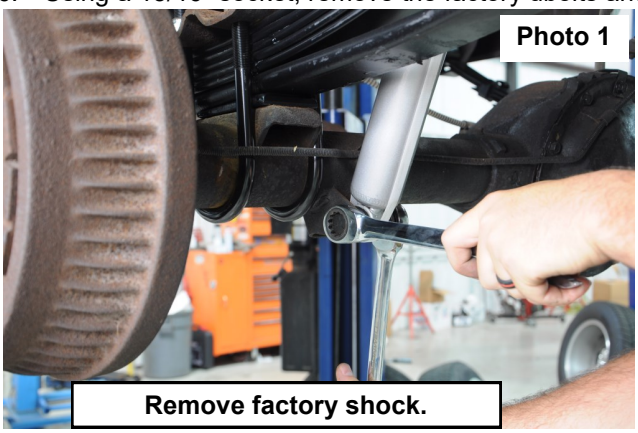
Tighten upper shock bolt.

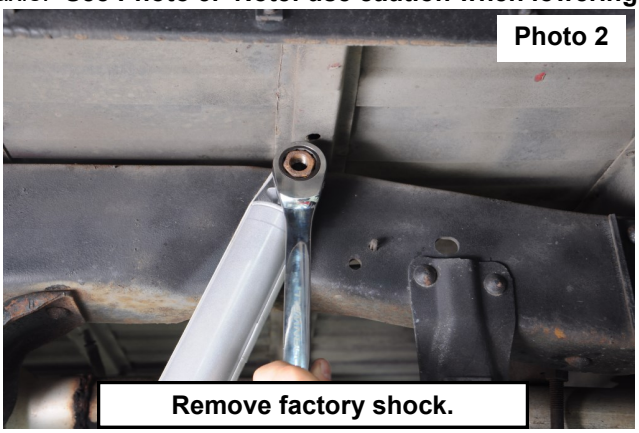


Tighten lower shock bolt.

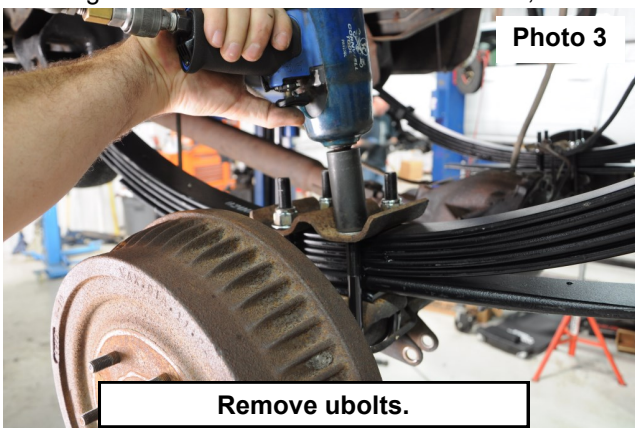
REAR INSTALLATION INSTRUCTIONS

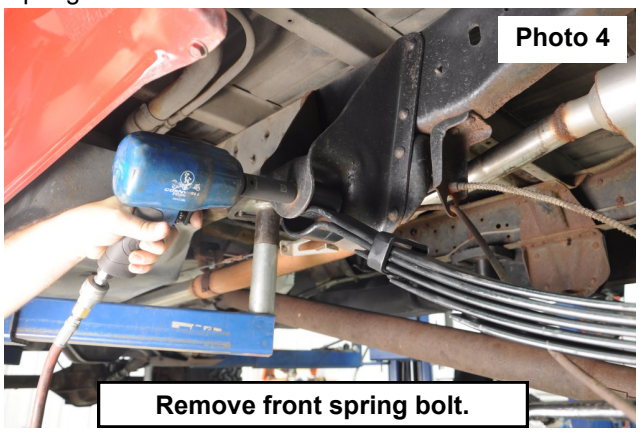
1. Chock the front tires.
2. Position a floor jack under the rear differential and jack up the vehicle.
3. Place jack stands under the frame rails just forward of the front leaf spring hangers and lower the frame on the jack stands.
4. Reposition the floor jack under the center of the differential and apply slight pressure for support, but do not raise the frame off the jack stands.
5. Remove the rear shock with a 15/16” wrench on the upper and 13/16” and 7/8” wrenches on the lower mount. Retain lower hardware for reuse. **See Photos 1 & 2.**
6. Using a 15/16” socket, remove the factory ubolts and lower axle. **See Photo 3. Note: use caution when lowering the axle not to over extend the brake lines.**



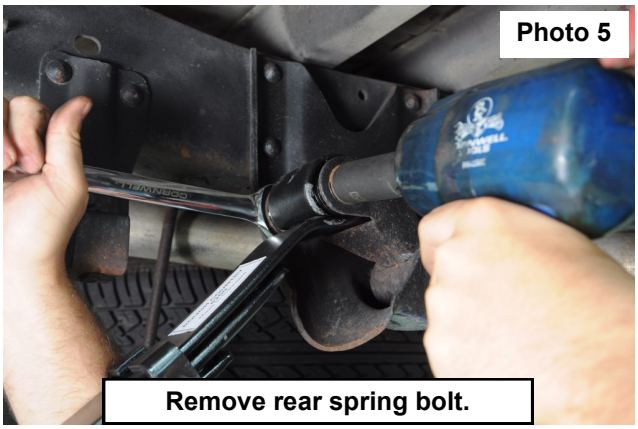


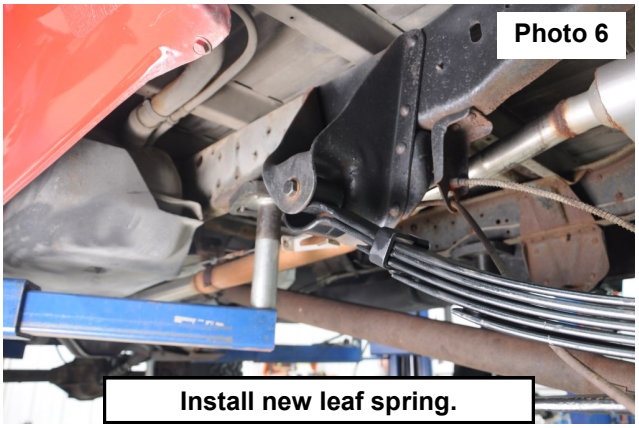
7. Kit with rear blocks, place supplied lift block between the leaf spring and axle pad. **Thicker end of the block goes to the rear of the truck. See Photo 3. If your kit has new rear leaf springs, skip to next step.**
8. Using a 13/16” socket, remove the front spring bolt and retain for reuse. **See Photo 4.**
9. Using a 13/16” and 7/8” socket and wrench, remove the rear spring bolt and retain for reuse. **See Photo 5.**



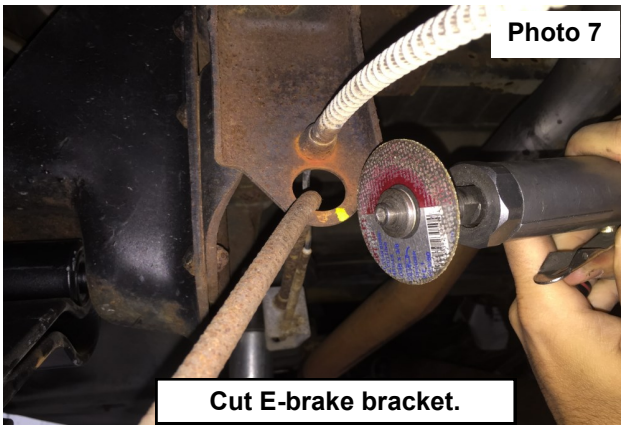


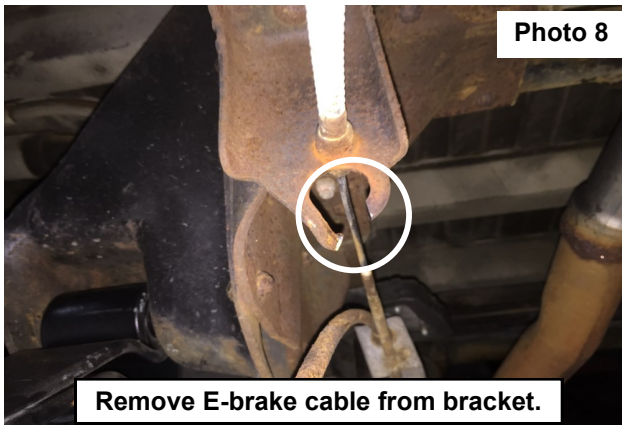
10. Install supplied rear springs using stock hardware. Tighten using 13/16” and 7/8” sockets/wrenches. **See Photo 6.**



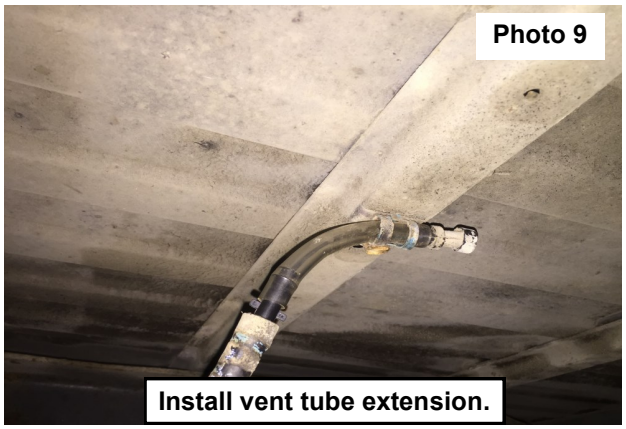


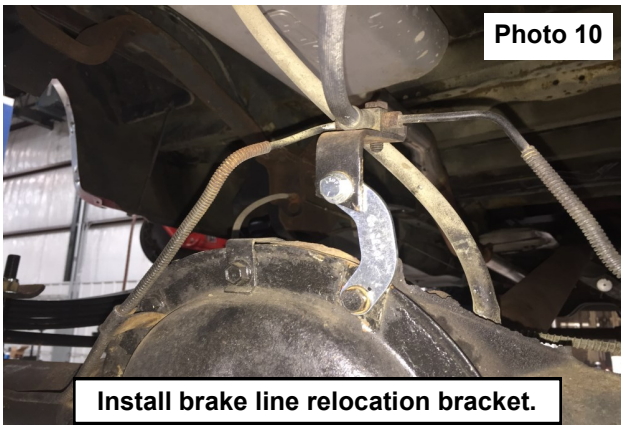
11. Using a cutoff wheel, cut the factory e-brake cable mount and bend. **See Photo 7.**
12. Remove e-brake cable and bend mount back to original position. **See Photo 8. Apply paint to cut surfaces to prevent rust.**





13. Attach 1/4” coupler and hose to differential breather hose. **See Photo 9.**
14. Attach rear brake line relocation bracket to the differential. Using supplied 5/16” x 1” bolt washer and nut, attach the factory brake line bracket to the relocation bracket. Tighten using 1/2” wrench and socket. **See Photo 10.**





15. Install supplied shock pin kit into frame. **See Photo 11.**
16. Install rear shock (**660788**) on pin and tighten using 15/16” wrench. **See Photo 12. Body of the shock goes down.**
17. Insert sleeve into lower shock eye. Attach using factory hardware and tighten using 12/16” and 7/8” wrenches.
18. Install wheels and tires and lower the 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, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. 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.
3. Activate four wheel drive system and check front hubs for engagement.
4. Have a qualified alignment center align the vehicle immediately. Realign to factory specifications. Have headlights adjusted to proper settings.
6. Perform head light check and adjustment to proper settings.
7. Check and retighten wheels at 50 miles and again at 500 miles.
8. Recheck lifted height and adjust torsion bar as necessary.
9. All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check all hardware for tightness.
10. Install “Warning to Driver” decal on sun visor.

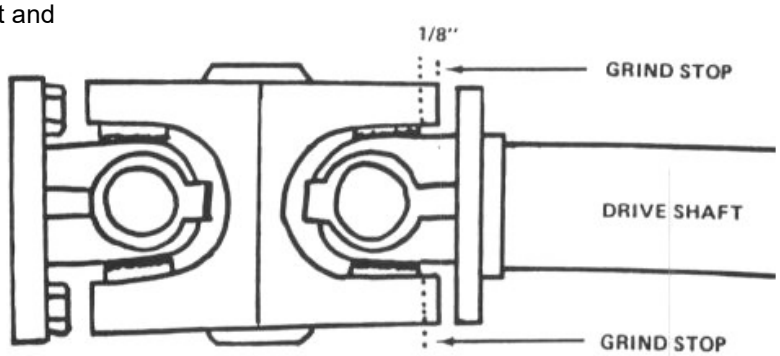
Alignment Specs

Front			
Total Toe	-0.10°	+0.10°	+0.30°
Front Camber	-0.90°	-0.10°	+0.70°
Caster	+1.80°	+2.80°	+3.80°
King-Pin	———	———	———
Incl. Angle	———	———	———
Rear			
Total Toe	°	°	°
Rear Camber	°	°	°
Thrust Angle	-.025°	+0.00°	+0.25°

FRONT CONSTANT VELOCITY U-JOINT STOPS MODIFICATION INSTRUCTIONS

The stops on the front cv u-joint and the stops on the front drive shaft must be modified to obtain maximum suspension travel on all 4" and 6" lift systems (see diagram below). These stops are designed to prevent the drive shaft from contacting the road surface in the event of a u-joint failure at the front-end housing.

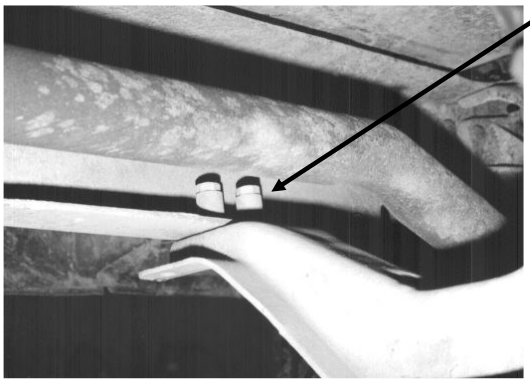
1. Remove the front drive shaft assembly from the vehicle. Use a grinder or other suitable tool and remove the amount of material needed to gain ample u-joint clearance at the drive shaft stop. (Remove as little material as possible). About 1/8" of material.
2. With the grinding completed, reinstall the drive shaft and check the stop clearance by turning the drive shaft.



TRANSFER CASE LOWERING INSTRUCTIONS

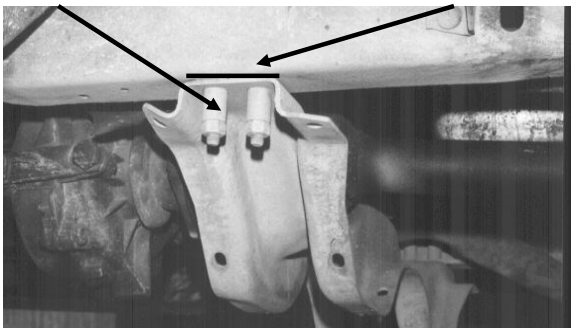
For ½ & ¾T 1980 and later model years on 4" and 6" lifts, the transfer case is lowered by using stock mounting hardware on the transfer case cross-member.

1. Place floor jack under transfer case cross-member, raise jack until it applies pressure to the cross-member. Remove stock mounting hardware.
2. Lower floor jack until there is enough space between the cross-member and the frame to install stock spacer and mounting hardware per the picture. Tighten all hardware.



The sleeves may be either on top of the frame rail or on the bottom from the factory

Place sleeves here, between the frame and cross-member.



Thank you for choosing Rough Country for all of 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.