



## 99-06 CHEVY/GM 1500 1.5-2" Kit

**Thank you for choosing Rough Country for 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.**

### **PRODUCT USE INFORMATION**

As a general rule, the taller a vehicle is, the easier it will roll. Offset, as much as possible, what is lost in rollover resistance by increasing tire track width. In other words, go "wide" as you go "tall".

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, 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.

Braking performance and capability are decreased when significantly larger/heavier tires and wheels are used. Take this into consideration while driving.

The required installation time for this system is approximately 2.5 hours. This suspension system was developed using 285x75R16 tire on an 8" wheel. Before installing other combinations, please consult your local tire and wheel specialist.

If questions exist on the design, function, and correct use of our products please contact us at 800-222-7023.

### **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.

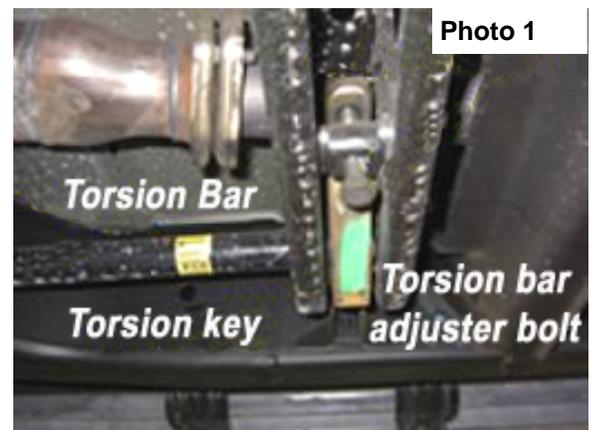
INSTALLING DEALER - it is your responsibility to install the warning decal and forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service.

### **RECOMMENDED TOOLS**

<ul style="list-style-type: none"> <li>• Floor jack</li> <li>• Heavy duty jack stands</li> <li>• Safety glasses</li> </ul>	<ul style="list-style-type: none"> <li>• Wheel chocks</li> <li>• Ball Joint Remover like <b>OTC7249</b></li> </ul>	<ul style="list-style-type: none"> <li>• Impact gun</li> <li>• 18 mm socket</li> <li>• 21 mm socket</li> </ul>
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### **FRONT INSTALLATION INSTRUCTIONS**

1. Place the vehicle in neutral. Raise the front of the vehicle with a jack to slightly raise the tires of the ground and support the frame with jack stands beneath each frame rail behind the lower control arms. Installation is done one side at a time, starting with the driver side. The torsion bar adjusters are under the cab of the vehicle at the rearward end of the torsion bars.
2. Measure or make a note of how much thread is remaining on the torsion bar adjuster bolt. You will reset the bars at this same location with the new adjusters. **See Photo 1.**



3. Use extreme caution when loading and unloading the torsion bars; there is a tremendous amount of energy stored in them. Keep your hands and body clear of the adjuster arm assembly and the puller tool in case anything slips or breaks. Note: Because of the extreme loads generated by the torsion bars on these vehicles, a standard tow-jaw puller may bend the “lips” of the cross member and my pop out of place. For best results use a c-clamp type puller tool. If you cannot find one locally, this tool (J-22517-C) is available from Kent Moore Tools in Roseville, Michigan (800-345-2233) or a Ball Joint Remover like OTC7249 can be used.



Photo 2

4. On the driver side, using a torsion bar removal tool, remove the stock torsion bar adjuster by loading the torsion bar using the tool and removing the bolt and nut block. Slide the torsion bar forward allowing the OE torsion key to fall out.
5. Install the new torsion bar adjuster using the torsion bar tool. Reinstall the threaded block and adjuster bolt.
6. Repeat steps for passenger side. Making sure the driver and passenger side torsion bar adjuster bolts are adjusted the same amount. Fine-tuning is done in a later step.
7. Remove the factory shock absorbers, and discard.
8. Locate shock part # 658520 (**RCX#660566**) from kit box. Install the supplied shock and bushings in the factory location using the factory bolt on the lower end of the shock.
9. Jack up the front of the vehicle and remove the jack stands. Lower the vehicle to the ground to where the torsion bars are supporting the weight of the vehicle.

**REAR INSTALLATION INSTRUCTIONS**

1. Chock the front wheels and jack up the rear of the vehicle. Support the vehicle with approved jack stands.
2. Remove the factory shocks and discard. Support the rear axle with a jack. Loosen the passenger u bolts.
3. Remove the drivers side u bolts.
4. Lower the jack and **remove** factory block and continue to lower the axle until the lift block can be installed (**don't reuse factory block**). The small end of the block faces the front of the truck.
5. Install the new u bolts, washers, and nuts. Do not tighten at this time.
6. On the passenger side remove the u bolts and lower the jack and install the lift block.
7. Tighten u-bolts, alternating from bolt to bolt. Torque 1/2" u-bolts to 65 ft./lbs. and 9/16" u-bolts to 87 ft. /lbs., or 5/8" u-bolts to 120 ft./lbs.
8. Grinding may be required on the driver side e-brake bracket on the lower shock mount. If needed grind the threads to make sure there is no interference with the shock absorber or remove the bolt from the lower shock mount
9. Install the new shocks part # 650380 (**RCX#660567**), using the supplied bushings and sleeves, and factory hardware.
10. Install the wheels and tires. Lower the vehicle to the ground.



**POST INSTALLATION INSTRUCTIONS**

After the torsion bar adjusters have been installed and tightened to the factory measurement taken in step #2. additional adjustment may need to be performed to level the vehicle. This is done by either tightening or loosening the torsion bar adjuster bolts. Use a floor jack to support the side of the vehicle that is being adjusted, raising the tires slightly of the ground and only adjusting the bolt 1-2 turns at a time to ensure the leveling of the truck. After adjustment lower the vehicle to the ground and recheck for level. This may take several attempts. As with any lift installed, adjustment of the front headlights is required after installation. Note – the air dam on the front may need to be trimmed for additional clearance, depending on the tire size.

A front-end alignment should ALWAYS be checked after installing ANY vehicle suspension lift. This kit typically requires a slight toe-in adjustment. Record the ride height measurement at the time of alignment. If, in the future the torsion bars settle excessively, alignment can be restored by adjusting-up the bars to their original ride height.

Alignment Specs	Caster Left	Caster Right	Camber Left	Camber Right
	2	2.5	0	-1/4