



07-13 GM 1"-2" FRONT & 4" REAR LOWERING 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 kit contents list on the back page. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have the tools needed to install the kit.

PRODUCT USE INFORMATION

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 decrease vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

Rough Country makes no claims regarding lowering devices and excludes any and all implied claims. We will not be responsible for any product that is altered.

****Note** This kit will only fit a 2.0" diameter factory size strut body.**

We will be happy to answer any questions concerning the design, function, and use of our products.

NOTICE TO DEALER AND VEHICLE OWNER

INSTALLING DEALER / OWNER - 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 life.

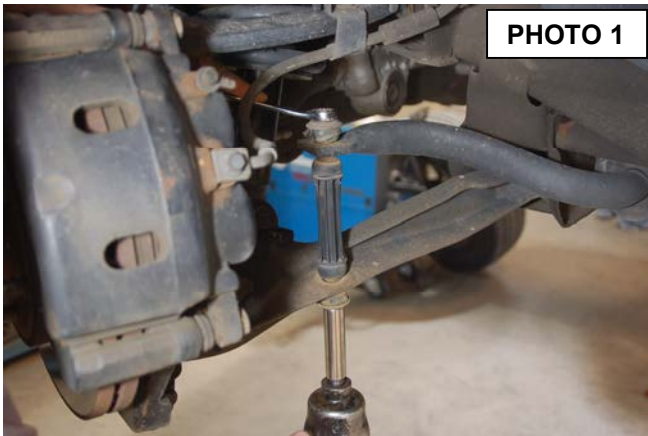
Tools Needed:

- 24mm Wrench
- 22mm Wrench
- 21mm Wrench
- 18mm Wrench
- 15mm Wrench
- 13mm Wrench
- 12mm Wrench
- 10mm Wrench
- 8mm Allen Wrench
- Drill Motor
- Drill Bit 11/32
- Drill Bit 15/32
- Vise Grips
- Die grinder
- Floor Jack
- Jack Stands



FRONT INSTALLATION INSTRUCTIONS

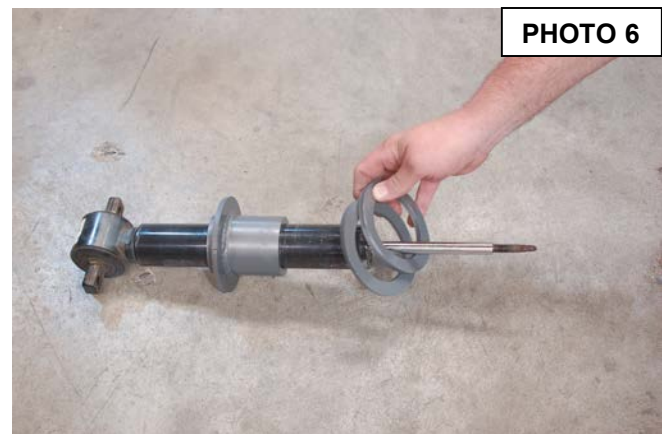
1. Lift the front of the vehicle using a jack and support the vehicle with jack stands, so that the front wheels are off the ground
2. Remove the front tires/wheels., using a 21mm deep well socket
3. Loosen the sway bar link with a 15mm wrench and socket. **See Photo 1.**
4. Loosen the (3) nuts on top of the strut using an 18mm wrench as shown in **Photo 2.** Do not remove nuts completely.



5. Remove lower strut bolts using a 15mm wrench as shown in **photo 3.**
6. Now you can remove the upper strut nut and remove the strut from the frame pocket.
7. Place the strut in a strut compressor and put tension on the coil spring. Use a 18mm socket to remove the center nut holding on the strut hat. **See Photo 4.**



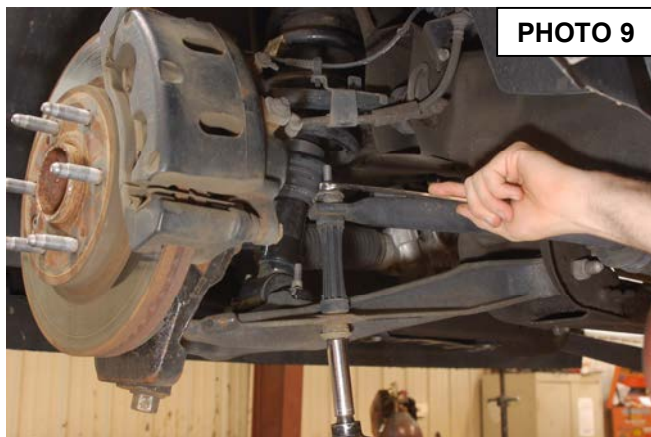
8. Remove the bump stop, bump stop hat, and coil spring seat from the strut. **See Photo 5.**
9. Install the new supplied coil seat on the strut body. This will lower the front of the truck 2 inches. If you only want the truck lowered 1 inch in the front add the two shim plates. Note one is thicker than the other. One 3/8" plate and one 5/16" plate per strut. **See Photo 6.** ****Note** Only fits a 2.0" strut body.**



10. Install the bump stop hat and bump stop back onto the strut. **See Photo 7.**
11. Using a strut compressor install the spring and strut hat onto the strut body. Tighten the factory strut hat nut with a 18mm socket.
12. Next place the strut back into the frame pocket and install the 3 factory nuts on top. Hand tighten. Install the lower strut factory bolts and tighten with a 15mm socket. Now tighten the upper nuts with a 18mm wrench. **See Photo 8.**



13. Tighten the sway bar links with a 15mm socket and wrench.
14. Install tires and wheels and tighten with a 21mm socket.
15. Jack up the truck and remove the jack stands. Then lower the truck to the ground.



REAR INSTALLATION INSTRUCTIONS

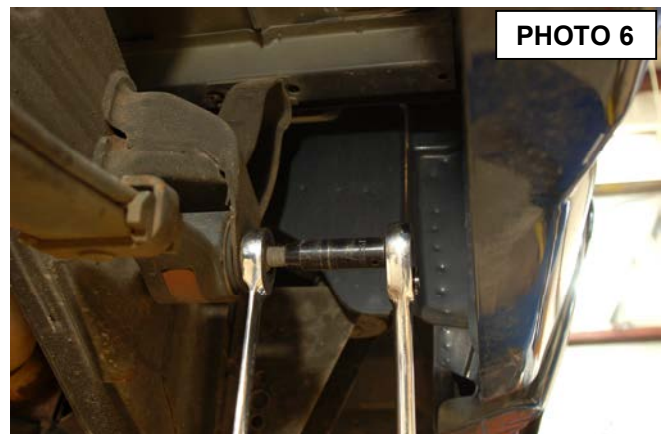
1. Lift the rear of the vehicle using a jack and support the vehicle with jack stands, so that the rear wheels are off the ground.
2. Remove the rear tires/wheels., using a 21mm deep well socket.



3. Remove bump stop. Using a cutoff wheel, cut all 4 sides of the bump stop and remove as shown in **Photo 1**.
4. Using the 2 existing underneath welds on the frame, measure to center and mark for new bump stop location. **Photo 2**.
5. Drill a 11/32" hole and install the stock bolt along with the factory bump stop.
6. Using a 21mm socket and wrench, remove the shocks. Retain hardware for re-use with new provided RC shock. **Photo 3**.
7. Remove the bolt holding the brake line bracket to the rear-end. **Photo 4**.



8. Supporting rear axle, use a 21mm socket and remove the u-bolts on both driver and passenger side. **Photo 5**.
9. On the passengers side, using a 24mm wrench for nut and a 12mm for bolt on front 21mm for nut and 10mm for bolt on rear, remove the leaf spring bolts and remove from vehicle. See **photo 6** **note* If equipped with tow hitch, this must be removed*



10. Using same wrenches as passenger side leaf, remove the rear bolt in the frame mount and the shackle on the drivers side. Only loosen the front bolt only. Do not remove!
11. Carefully slide the rear end toward the passengers side keeping the axle firmly on the stands for support.
12. Swing the drivers side leaf out and under the axle.

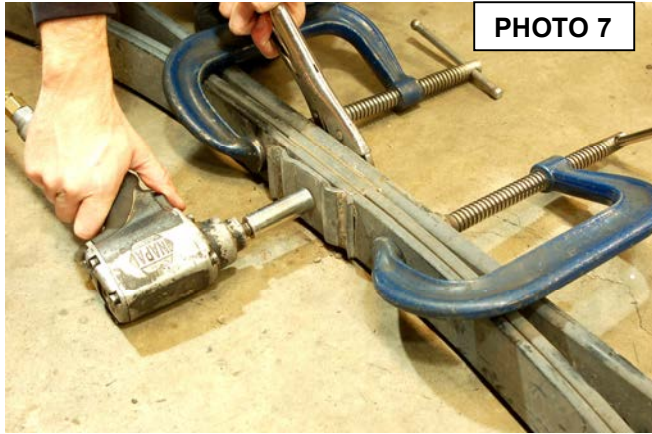


PHOTO 7



PHOTO 8

13. As shown in **Photo 7**, using a 15mm wrench and vise grips on the end of the pin, remove the ubolt plate and bolt.
14. After removing plate, flip bolt in insert on the opposite side as shown in **Photo 8**.
15. Using a 15mm and vise grips, re-tighten pin into the shown position in **Photo 9**.



PHOTO 9



PHOTO 10

16. Install Socket Head Bolt and nut into the plate as shown in **Photo 10**. *note direction of plate when placing bolt*
17. Using a 9/16 wrench and 5/16 Allen wrench, tighten bolt in place. **Photo 11**



PHOTO 11



PHOTO 12

18. Using 21mm socket and wrench, remove the stock shackle and retain stock hardware. **Photo 12**

19. Using a die-grinder or air chisel remove the three factory rivets on the hanger bracket. See **Photo 13**.
20. Use a 15mm socket to remove the top rear bolt on the hanger bracket. See **Photo 14**.



PHOTO 13



PHOTO 14

21. Drill out the three rivet holes to 15/32ø (clearance for a 7/16ø bolt). See **Photo 15**.
22. Install the new hanger bracket on the frame, insert the factory bolt in the top rear hole and hand tighten. Use the supplied 7/16ø x 1 1/4ø long bolts, washers, and nuts for the other three holes in the hanger bracket. Tighten 7/16ø bolts with a 16mm and 17mm socket and wrench and the stock bolt with a 15mm socket. See **Photo 16**.



PHOTO 15

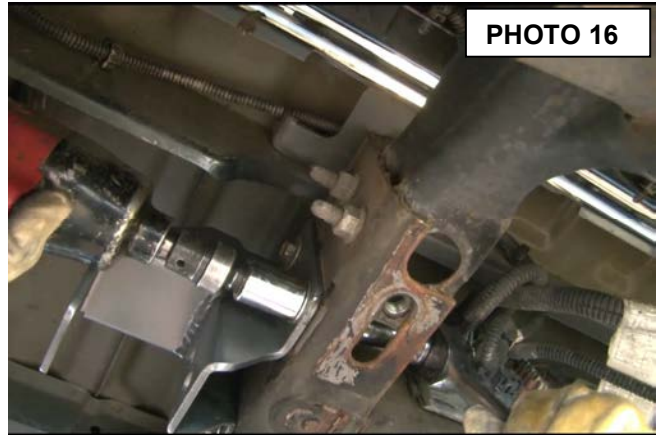


PHOTO 16

23. Reinstall the driver leaf spring using the stock bolts with axle on top side of leaf. You will need the 24mm wrench with the 12mm on end and the 21mm wrench with 10 mm on end. Tighten to correct torque spec.
24. Install the factory shackle in the lower hole of the hanger bracket, using the stock hardware and previous wrenches used. See **Photo 17**. The lower hole is a 4ø drop in the rear and the upper hole of the hanger bracket is a 4.5ø drop.
25. On the drivers side frame, remove the e brake cable hanger using a 13mm socket.
26. Install the provided axle saddle with the spring hole positioned to the front of the truck .. See **Photo 18**.



PHOTO 17



PHOTO 18

27. Place the u-bolt plate with bolt head side in axle as indicated in **Photo 19**.
28. Install the provided u-bolts and new bottom plate as shown in **Photo 19 and Photo 20**.

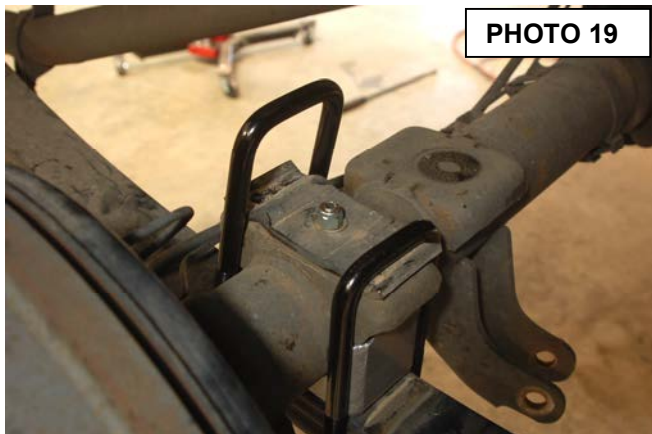


PHOTO 19



PHOTO 20

29. Using a 22 mm socket, install and tighten nuts to the u-bolt to correct torque. See **Photo 21**
30. Repeat steps 3-25 for passenger side.
31. Reinstall the brake line bracket to the axle using a 13mm wrench.
32. Reinstall the bolt in the e-brake hanger on the drivers side frame using a 13mm wrench.
33. Install the new 2.0 shocks with existing hardware with a 21mm wrench and a 21mm socket. **Photo 22 & 23**.



PHOTO 21



PHOTO 22

34. If truck was equipped , reinstall the factory hitch.
35. Install the rear tires/wheels., using a 21mm deep well socket.
36. Remove all jack stands.
37. Lower vehicle and follow post installation instructions below.

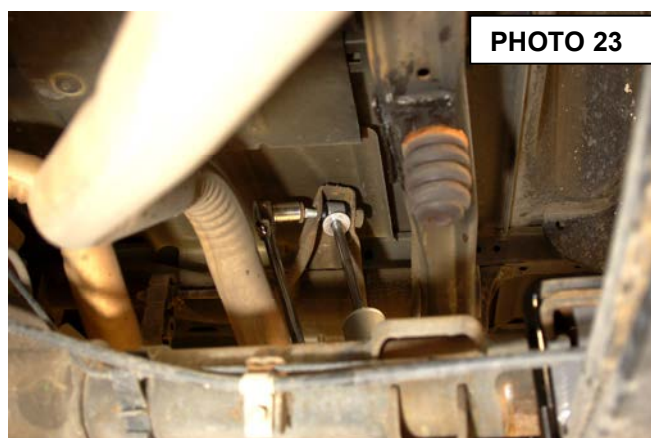


PHOTO 23




POST INSTALLATION

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.
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 and take truck in for a front-end alignment to a qualified alignment professional.

Kit Contents

728.20

- Strut Lowering Coil Spacer-2
- 5/16" Thick Coil Shim Plate-2
- 3/8" Thick Coil Shim Plate-2
- Spring Hanger Relocation Brackets-2
- Axle Flip Bracket-2
- U-bolt Plate-2
- U-bolts-4
- 9/16BAG-1
- 1721BAG1-1
- 720BAG3-1

SIZE	 SAE GRADE 5		 SAE GRADE 8		 L9
	ASSEMBLY TORQUE DRY	LUBRICATED	ASSEMBLY TORQUE DRY	LUBRICATED	ASSEMBLY TORQUE LUBRICATED
1/4-20	8	75*	12	9	11
1/4-28	10	86*	14	10	13
5/16-18	17	13	20	18	21
5/16-24	19	14	25	20	23
3/8-16	30	23	45	30	33
3/8-24	35	25	50	35	38
7/16-14	50	35	70	55	60
7/16-20	55	40	80	60	65
1/2-13	75	55	110	80	95
1/2-20	90	65	120	90	105
9/16-12	110	80	150	110	140
9/16-18	120	90	170	130	150
5/8-11	150	110	220	170	185
5/8-18	180	130	240	180	205
3/4-10	260	200	380	280	290
3/4-16	300	220	420	320	355

BOLT TORQUE CHART

ITEMS WITH * = INCH POUNDS
ALL OTHERS = FOOT POUNDS

Thank you for purchasing a Rough Country Lowering System.

