GM 2011-18 2500 2WD/4WD 3.5" Lift 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. Check the kit hardware against the parts list on the rear cover of these instructions. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have needed tools.

PRODUCT USE INFORMATION

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

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 question exist we will be happy to answer any questions concerning the design, function, and correct use of our products.

Jack stands

This kit is packaged as a leveling kit—raising the front 3.5" and the back 1.5".

This suspension system was developed using a 295/70-18 tire with factory aluminum 18" wheels. Note if wider tires are used, offset wheels will be required and trimming may be required.

NOTICE TO DEALER AND VEHICLE OWNER

A NOTICE 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.

Tools Needed: 3/4" Wrench & Socket	Torque Specs:						
	Size .	Grade 5	Grade 8	Class 8.8		Class 10.9	
7/8" Socket	5/16"	15 ft/lbs	20 ft/lbs	6MM	5 ft/lbs	9 ft/lbs	
15MM Wrench	3/8"	30 ft/lbs	35 ft/lbs	8MM	18ft/lbs	23 ft/lbs	
18MM Wrench	7/16"	45 ft/lbs	60 ft/lbs	10MM	32ft/lbs	45ft/lbs	
21MM Wrench & Socket	1/2"	65 ft/lbs	90 ft/lbs	12MM	50ft/lbs	75ft/lbs	
22MM Socket	9/16"	95 ft/lbs	130 ft/lbs	14MM	85ft/lbs	120ft/lbs	
24MM Socket	5/8"	135 ft/lbs	175 ft/lbs	16MM	130ft/lbs	165ft/lbs	
Hammer	3/4"	185 ft/lbs	280 ft/lbs	18MM	170ft/lbs	240ft/lbs	
Floor Jack							



Kit Content

<u>95920</u>

1959

1-Driver Side Control Arm

1-Pass Side Control Arm

1959BOX4

2-Torsion Keys.

4-5/8" x 12" Ú-bolts

2-1.5" Rear Blocks

4-N3 Shock Absorbers

5/8BAG

8-5/8" washers

8-5/8" lock nuts

1959BAG6

4-14mm x 110mm Bolts

4-14mm Nylock Nuts

4-14mm Flat Washers

4- 1/2" Aluminum Diff Spacers 4- 1/2" x 1.25" Bolts 1959BAG9

2-Torsion Key Retainers

1959BAG14

1-Instructions

4-Shock Decals

1-Warning to Driver Decal

1-Service Reminder





Kit Content

95730

1959

1-Driver Side Control Arm

1-Pass Side Control Arm

1959BOX4

2-Torsion Keys.

4-5/8" x 12" Ú-bolts

2-1.5" Rear Blocks

4-N3 Shock Absorbers

5/8BAG

8-5/8" washers

8-5/8" lock nuts

1959BAG6

4-14mm x 110mm Bolts

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4-14mm Flat Washers

4- 1/2" Aluminum Diff Spacers 4- 1/2" x 1.25" Bolts

1959BAG9

2-Torsion Key Retainers

1959BAG14

1-Instructions

4-Shock Decals

1-Warning to Driver Decal

1-Service Reminder

95730BOX1

1-Dr Side Knuckle

95730BOX2

1-Pass Side Knuckle





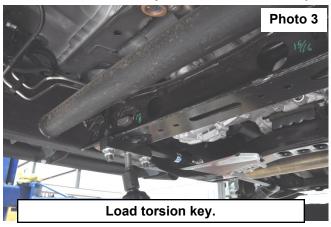
FRONT INSTALLATION

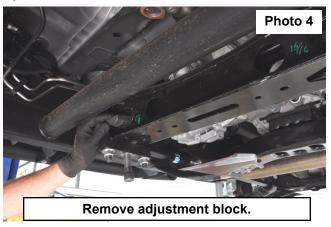
- 1. Park the vehicle on a level surface and chock the rear wheels.
- 2. Jack up the front of the vehicle. Place jack stands under the frame rails and lower onto jack stands letting the front suspension hang.
- 3. Remove the tires and wheels.
- 4. Measure and record torsion bar adjustment bolts. See Photo 1.
- 5. Using a 21mm socket, remove the torsion bar adjustment bolt. See Photo 2.





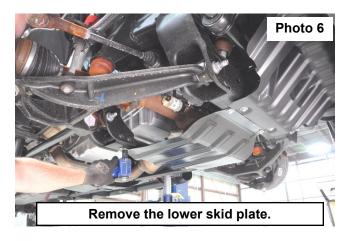
- 6. Use a torsion bar tool to load the torsion key. See Photo 3.
- 7. Remove the torsion bar adjustment block and factory torsion key. See Photo 4.





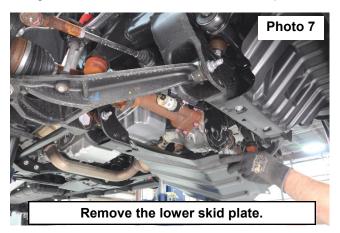
- 8. Install the new torsion key. See Photo 5.
- 9. (For 2WD kits skip to step 14) 4WD Trucks, Use a 15mm socket, remove the lower skid plate. See Photo 6.

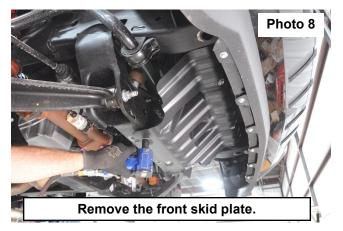






- 10. Using a 15mm socket, remove the lower skid plate. See Photo 7.
- 11. Using a 15mm socket, remove the front skid plate. See Photo 8.





- 12. Using a 21mm socket and remove the front 2 diff mounting bolts. Install supplied diff spacers between diff mount and frame. Secure using the supplied 14mm x 110mm bolt nut and washers. Tighten to factory specs using a 22mm. **See Photo 9.**
- 13. Using a 21mm socket and remove the rear 2 diff mounting bolts. Install supplied diff spacers between diff mount and frame. Secure using the supplied 14mm x 110mm bolt nut and washers. Tighten to factory specs using a 22mm. **See Photo 10.**





- 14. Unplug ABS wire at the frame.
- 15. Using a 21mm wrench and socket, remove the lower shock hardware and retair for later use. See Photo 11.
- 16. Using a 21mm wrench, remove the upper shock hardware, and remove the shock from the truck. Save hardware for reuse. **See Photo 12.**





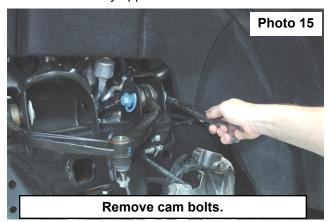


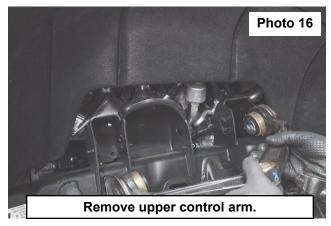
- 17. Using a 18mm wrench, loosen the upper ball joint nut. See Photo 13. Do not completely remove nut.
- 18. Strike the front of the steering knuckle with a hammer to dislodge ball joint taper. **See Photo 14.** Remove nut and remove the stock knuckle from the truck.





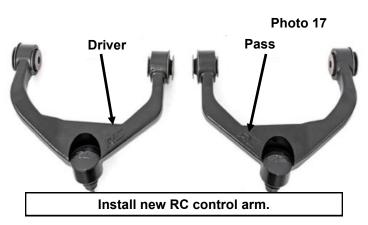
- 19. Using a 24mm wrench, remove the cam bolts. Retain for reuse. See Photo 15.
- 20. Remove the factory upper control arm from the truck. See Photo 16.

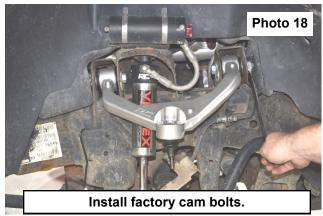




21. Install the new RC supplied upper control arm, shocks, and factory cam bolts. **Do not tighten. See Photo 17** and **Photo 18**.

NOTE: The RC logo on the arm goes to the rear of the vehicle. Ball joint must be greased before use. Check ball joint grease after the first 100 miles and then every 3000 miles.





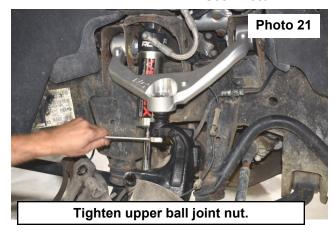


- 23. **Knuckle Kit Only:** Remove the hub from the stock knuckle and install on the new knuckle using stock hardware. **See Photo 19**.
- 24. Knuckle Kit Only: Install the hub and knuckle to the axle. See Photo 20.



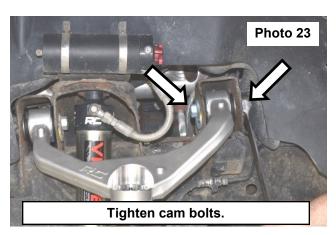


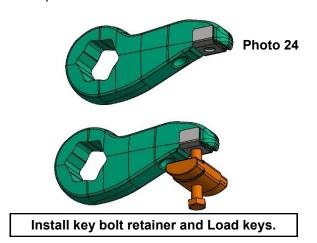
- 25. Using a 18mm wrench, tighten the upper ball joint nut to factory specs. See Photo 21.
- 26. Install the ABS line to the knuckle. See Photo 22.





- 27. Tighten the cam bolts to factory specs using a 24mm. See Photo 23.
- 28. Install the supplied torsion key bolt retainer on the torsion key. Load the supplied torsion keys and install adjustment blocks and bolts. Set the bolts to the recorded measurement from step 4. **See Photo 24.**



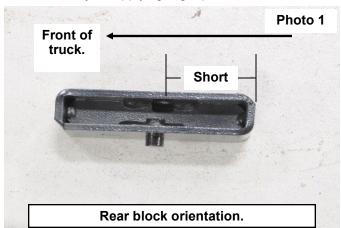


- 29. Reinstall the wheels/tires.
- 30. Jack up the vehicle and remove the jack stands.
- 31. Lower the vehicle to the ground.



REAR INSTALLATION

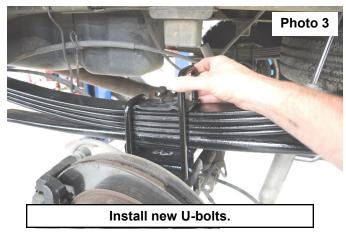
- 1. Chock the front wheels.
- 2. Place a floor jack under the differential and jack up the rear of the vehicle.
- 3. Place jack stands under the frame rails and lower onto the jack stands.
- Remove the tires/wheels.
- 5. Remove the factory shock absorbers using a 21mm wrench & socket. Retain the factory hardware for reuse.
- 6. Remove the factory u-bolts using a 21mm socket. Lower the axle using the floor jack to allow for the new 1.5" block to be installed.
- 7. Install the block on the factory spring pad, ANOTICE The center pin should be installed offset to the front of the vehicle. Jack up the axle to meet the springs, making sure to align the center pin. See Photos 1 & 2
- 8. With the floor jack applying slight pressure to the rear axle to keep the pin aligned, install the new supplied u-bolts and





tighten in a crossing pattern, using a 7/8" socket. See Photo 3.

- 9. Locate the new shock absorbers (660744), and install the shock absorbers in the factory mounting locations using the factory hardware. Tighten using a 21mm wrench & socket. **See Photo 4.**
- 10. Install the tires/wheels.





11. Jack up the vehicle to remove the jack stands. Remove the jack stands and lower the vehicle to the ground.

POST INSTALLATION INSTRUCITONS

- Have a qualified alignment center align the vehicle immediately. Alignment specs on following page.
- 2. Have headlights adjusted to proper settings.
- 3. Wheels must be retightened at 50 miles.
- All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check hardware for tightness.
- 5. Install "Warning to Driver" decal on sun visor.
- 6. 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.

Alignment Specs

Front	MIN		MAX
Total Toe	-0.10°	+0.10°	+0.30°
Front Camber	-0.05°	+0.05°	+0.15°
Caster	+1.70°	+2.70°	+3.70°
King-Pin			
Incl. Angle			
Rear			
Total Toe	o	0	٥
Rear Camber	٥	0	0
Thrust Angle	025°	+0.00°	+0.25°

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.

GM 2011-18 2500 2WD/4WD 3.5" Lift Kit with Vertex Shocks

Thank you for choosing Rough Country for your suspension needs.

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Please read instructions before beginning installation. Check the kit hardware against the parts list on the rear cover of these instructions. Be sure you have all needed parts and know where they go. Also please review 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. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur. 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 increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

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 question exist we will be happy to answer any questions concerning the design, function, and correct use of our products.

A NOTICE

Floor Jack Jack stands

This kit is packaged as a leveling kit—raising the front 3.5" and the back 1.5".

This suspension system was developed using a 295/70-18 tire with factory aluminum 18" wheels. **Note** if wider tires are used, offset wheels will be required and trimming may be required.

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.

Tools Needed: Torque Specs:

3/4" Wrench & Socket	Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
7/8" Socket	5/16"	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
15MM Wrench	3/8"	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
18MM Wrench	7/16"	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
	1/2"	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
21MM Wrench & Socket	9/16"	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
22MM Socket	5/8"	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
24MM Socket	3/4"	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs
Hammer	0/ 1	10014180	20010100	10111111	11010100	2.0.0.00



Kit Contents: 95950

1959:

1-Driver Side Control Arm 1-Pass Side Control Arm

1959BOX5:

2-Torsion Keys 4-5/8" x 12" U-bolts 2-1.5" Rear Blocks **5/8BAG**

1959BAG9

1959BAG6

1959BAG11

680011 x 2:

Front Vertex Shocks

690011 x 2:

Rear Vertex Shocks

Hardware Bags:

5/8BAG:

8-5/8" washers

8-5/8" lock nuts

1959BAG6:

4-14mm x 110mm Bolts

4-14mm Nylock Nuts

4-14mm Flat Washers

4- 1/2" Aluminum Diff Spacers 4- 1/2" x 1.25" Bolts

1959BAG15:

Instructions

1-Warning to Driver Decal

1-Service Reminder

1959BAG9:

2-Torsion Key Retainers

KIT CONTENT





Kit Contents: 95750

1959:

1-Driver Side Control Arm 1-Pass Side Control Arm

1959BOX5:

2-Torsion Keys 4-5/8" x 12" U-bolts 2-1.5" Rear Blocks **5/8BAG**

1959BAG9 1959BAG6

1959BAG11

680011 x 2:

Front Vertex Shocks

690011 x 2:

Rear Vertex Shocks

95750Box 1

1-Dr Side Knuckle

95750Box 2

1-Pass Side Knuckle

Hardware Bags:

5/8BAG:

8-5/8" washers

8-5/8" lock nuts

1959BAG6:

4-14mm x 110mm Bolts

4-14mm Nylock Nuts

4-14mm Flat Washers

4- 1/2" Aluminum Diff Spacers 4- 1/2" x 1.25" Bolts

1959BAG15:

Instructions

1-Warning to Driver Decal

1-Service Reminder

1959BAG9:

2-Torsion Key Retainers

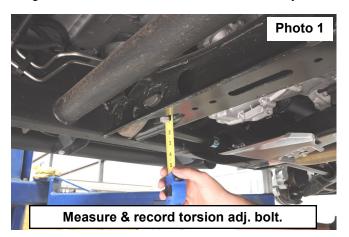
KIT CONTENT





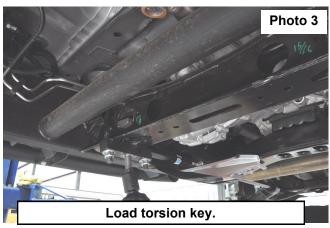
FRONT INSTALLATION

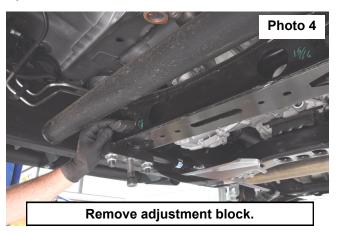
- 1. Park the vehicle on a level surface and chock the rear wheels.
- 2. Jack up the front of the vehicle. Place jack stands under the frame rails and lower onto jack stands letting the front suspension hang.
- 3. Remove the tires and wheels.
- 4. Measure and record torsion bar adjustment bolts. See Photo 1.
- 5. Using a 21mm socket, remove the torsion bar adjustment bolt. See Photo 2.





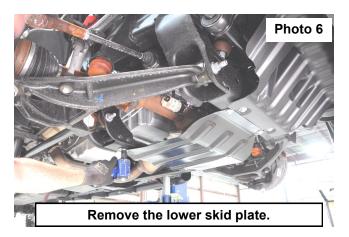
- 6. Use a torsion bar tool to load the torsion key. See Photo 3.
- 7. Remove the torsion bar adjustment block and factory torsion key. See Photo 4.





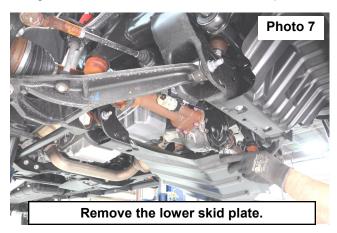
- 8. Install the new torsion key. See Photo 5.
- 9. (For 2WD kits skip to step 14) 4WD Trucks, Use a 15mm socket, remove the lower skid plate. See Photo 6.





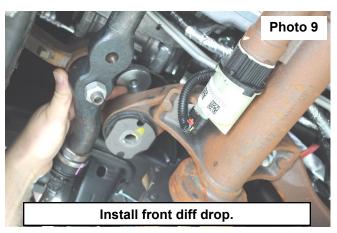


- 10. Using a 15mm socket, remove the lower skid plate. See Photo 7.
- 11. Using a 15mm socket, remove the front skid plate. See Photo 8.





- 12. Using a 21mm socket and remove the front 2 diff mounting bolts. Install supplied diff spacers between diff mount and frame. Secure using the supplied 14mm x 110mm bolt nut and washers. Tighten to factory specs using a 22mm. **See Photo 9.**
- 13. Using a 21mm socket and remove the rear 2 diff mounting bolts. Install supplied diff spacers between diff mount and frame. Secure using the supplied 14mm x 110mm bolt nut and washers. Tighten to factory specs using a 22mm. **See Photo 10.**





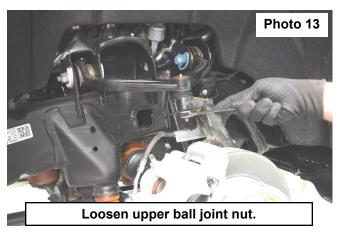
- 14. Unplug ABS wire at the frame.
- 15. Using a 21mm wrench and socket, remove the lower shock hardware and retair for later use. See Photo 11.
- 16. Using a 21mm wrench, remove the upper shock hardware, and remove the shock from the truck. Save lower hardware for reuse. **See Photo 12.**







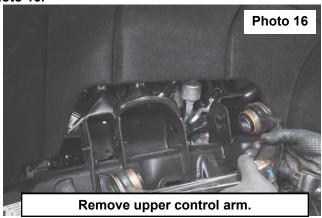
- 17. Using a 18mm wrench, loosen the upper ball joint nut. See Photo 13. Do not completely remove nut.
- 18. Strike the front of the steering knuckle with a hammer to dislodge ball joint taper. See Photo 14. Remove nut.





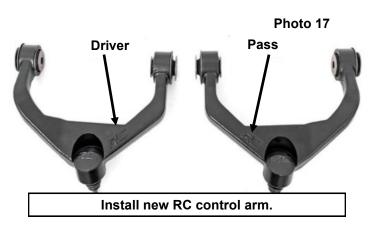
- 19. Using a 24mm wrench, remove the cam bolts. Retain for reuse. See Photo 15.
- 20. Remove the factory upper control arm from the truck. See Photo 16.

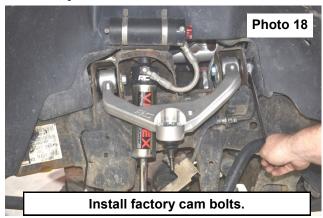




21. Install the new RC supplied upper control arm and factory cam bolts. **Do not tighten. See Photo 17** and **Photo 18**.

NOTE: The RC logo on the arm goes to the rear of the vehicle. Ball joint must be greased before use. Check ball joint grease after the first 100 miles and then every 3000 miles.

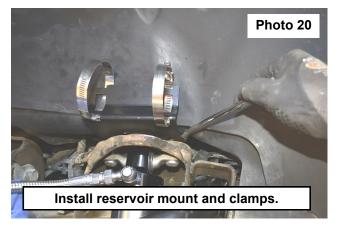






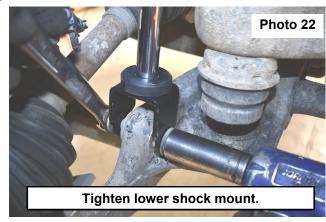
- 23. Install the front shocks (680011) in the upper mount. Do not install the nuts and washers at this time. See Photo 19.
- 24. Install the supplied clamps on the reservoir mount. Then install the reservoir mount on the upper Vertex shock mounting studs using the supplied flange nuts and tighten using a 17mm wrench. **See Photo 20**.





- 25. Install the Vertex shock reservoir into the clamps from the front of the vehicle. Tighten clamps using a flat screwdriver. **See Photo 21.**
- 26. Install the Vertex shock on the lower mount using the factory hardware and two 21mm socket/wrenches. See Photo 22.





- 27. **Knuckle Kit Only:** Remove the hub from the stock knuckle and install on the new knuckle using stock hardware. **See Photo 23**.
- 28. Knuckle Kit Only: Install the hub and knuckle to the axle. See Photo 24.





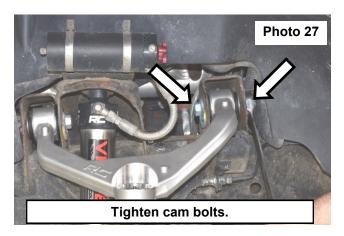


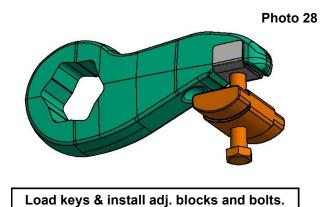
- 23. Using a 18mm wrench, tighten the upper ball joint nut to factory specs. See Photo 25.
- 24. Install the ABS line to the knuckle. See Photo 26.





- 29. Tighten the cam bolts to factory specs using a 24mm. See Photo 27.
- 30. Install the supplied torsion key bolt retainer on the torsion key. Load the keys and install adjustment blocks and bolts. Wet the bolts to the recorded measurement from step 4 **See Photos 28.**



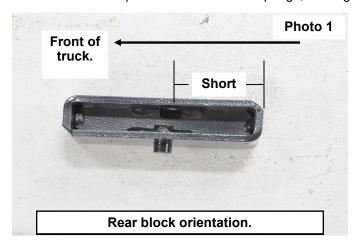


- 31. Reinstall the wheels/tires.
- 32. Jack up the vehicle and remove the jack stands.
- 33. Lower the vehicle to the ground.



REAR INSTALLATION

- 1. Chock the front wheels.
- Place a floor jack under the differential and jack up the rear of the vehicle. 2.
- 3. Place jack stands under the frame rails and lower onto the jack stands.
- Remove the tires/wheels.
- 5. Remove the factory shock absorbers using a 21mm wrench & socket. Retain the factory hardware for reuse.
- Remove the factory u-bolts using a 21mm socket, then remove the factory blocks. Lower the axle using the floor jack to allow for the new 1.5" block to be installed Install the block on the factory spring pad, A NOTICE The top center pin hole should be installed offset to the rear of
- the vehicle. Jack up the axle to meet the springs, making sure to align the center pin. See Photos 1 & 2





- With the floor jack applying slight pressure to the rear axle to keep the pin aligned, install the new supplied u-bolts, washers and nuts. Torque to 125ft/lbs, in a crossing pattern, using a 7/8" socket. See Photo 3.
- Locate the new Vertex shock absorbers (690011) and install the shock absorbers in the factory mounting locations using the factory hardware. Torque to factory specs using a 21mm wrench & socket. See Photo 4.



- 10. Install the tires/wheels.
- 11. Jack up the vehicle to remove the jack stands. Remove the stands and lower the vehicle to the ground.



Install new rear shock.

jack



POST INSTALLATION INSTRUCITONS

- 1. Have a qualified alignment center align the vehicle immediately. Alignment specs on following page.
- 2. Have headlights adjusted to proper settings.
- 3. Wheels must be retightened at 50 miles.
- 4. All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check hardware for tightness.
- 5. Install "Warning to Driver" decal on sun visor.
- 6. 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.

Alignment Specs

Front	MIN		MAX
Total Toe	-0.10°	+0.10°	+0.30°
Front Camber	-0.05°	+0.05°	+0.15°
Caster	+1.70°	+2.70°	+3.70°
King-Pin			
Incl. Angle			
Rear			
Total Toe	٥	۰	٥
Rear Camber	٥	٥	0
Thrust Angle	025°	+0.00°	+0.25°





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.