Rough Country 23732 Installation Instructions

7-Inch Lift Kit for Silverado 1500 / Sierra 1500 2WD (2014-2018)

Part number: 23732

trailfortress.com/rough-country-7-inch-lift-kit-23732

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

187INSTRBAG1

GM 2014-18 2WD 1500 2WD 7” Knuckle 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

⚠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. 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.

⚠NOTICE The electric power steering must be unplugged before any of the steering components are removed. Failure to do so may cause damage to the electric power steering.

⚠NOTICE Trucks equipped with a mass damper on the front diff, the damper will have to be removed.

This kit is packaged as a leveling kit—raising the front 6” and the back 5.5”. If you desire a different look or if the vehicle has a tool box or added weight in the rear, please consult with your sales representative about other block and u-bolt options.

This suspension system was developed using a 35” x 12.5” tire with 20” x 9” wheel and a offset of –12mm to +12mm. If wider tires are used trimming may be required. If stock 20” wheels are used, tires no wider than 11.5” wide are recommended. 20 x 9 wheels with +18mm offset will require 1/4” wheel spacers.

⚠NOTICE **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:

- Floor Jack /Jack Stands
- 10mm socket /wrench
- 13 mm socket/wrench
- 15mm socket / wrench
- 17mm socket/wrench
- 18mm socket /wrench
- 21mm socket /wrench
- 22mm socket /wrench
- 24mm socket /wrench
- 27mm socket /wrench
- 36mm socket
- 1/2” socket/wrench
- 9/16” socket /wrench
- 3/4” socket/wrench
- #30 Torx bit
- Reciprocating Saw
- Hammer
- Locking Pliers

Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

Kit Boxes

Stamped Steel/Aluminum LCA

18731 (7” Kit w/ N3 Rr Shocks):
187BOX1
174BOX2
17430BOX2
17430BOX11
17430BOX12

18734 (7” Kit w/ N3 Struts & N3 Rr Shocks):
187BOX1
17430BOX2
17430BOX11
17430BOX12
23023
20159 x 2

18750 (7” Kit w/ Fr & RR Vertex Shocks):
187BOX1
17430BOX2
17430BOX11
17430BOX12
680001-2 x 2
690001 x 2

18770 (7” Kit w/ V2 Rr Shocks):
187BOX1
174BOX3
17430BOX2
17430BOX11
17430BOX12
760748

18771 (7” Kit w/ N3 Struts & V2 Rr Shocks):
187BOX1
17430BOX2
17430box11
17430box12
23023
760748

18757 (7” Kit w/ Vertex Coil overs & V2 Rr Shocks):
187BOX1
17430BOX2
17430box11
17430box12
680001-2 x 2
760748

Cast Steel LCA

23732 (7” Kit w/ N3 Rr Shocks):
187BOX1
174BOX2
17430BOX2
1237BOX5

23733 (7” Kit w/ N3 Struts & N3 Rr Shocks):
187BOX1
17430BOX2
1237BOX5
23023
20159 x 2

23750 (7” Kit w/ Fr & RR Vertex Shocks):
187BOX1
17430BOX2
1237BOX5
680001-2 x 2
690001 x 2

23770 (7” Kit w/ V2 Rr Shocks):
187BOX1
174BOX3
17430BOX2
1237BOX5
760748

23771 (7” Kit w/ N3 Struts & V2 Rr Shocks):
187BOX1
17430BOX2
1237BOX5
23023
760748

23757 (7” Kit w/ Vertex Coil overs & V2 Rr Shocks):
187BOX1
17430BOX2
1237BOX5
680001-2 x 2
760748

18731, 18734, 18750, 18770, 18771, & 18757 Kit Box & Bag Contents

Box Kit

187BOX1 or 18750BOX1
- Sway Bar Drop Brackets-2
- Sway Links-2
- U-Bolts-4
- Rear Blocks-2
- 187INSTRBAG1
- 1296BAG3
- 18750-1:
  - E-Brake Bracket-1
  - Front Brake Brackets-2
  - Rear Brake Line Bracket-1
  - 1229BAG3
  - 1290BAG6
  - 1263BAG2
  - Tie Rod Ends-2
  - 9/16BAG
  - Transmission Shims-2

17430BOX2
- Front Crossmember-1
- Rear Crossmember-1

174BOX2
- 10MMSTUDBAG-1-1
- Strut Spacers-2
- Rear N3 Shocks-2

174BOX3
- 10MMSTUDBAG-1-1
- Strut Spacers-2

17430BOX11
- Driver Knuckle-1

17430BOX12
- Passenger Knuckle-1

20159-Rear N3 Shock

23023-N3 Strut

760748-Rear V2 Shock

680001-2-Vertex Coilover

690001-Rear Vertex Shock

Kit Bags

187INSTRBAG1
- Instruction Sheet-1
- Warning to Driver Sticker-1

1290BAG6-*Bag*
- 10mm x 35mm Bolts-4
- 10mm Nylock Nuts-4
- Flat Washers-4
- 5/16” x 1” Bolts-5
- 5/16” Toplock Nuts-5
- 5/16” Flat Washers-10

1296BAG3-*Trans Shim Bag*
- 10mm x 55mm Bolts-2
- 10mm x 40mm Bolts-2
- 10mm Flat Washers-2

Kit Bags

1229BAG3-*Crossmember Bag*
- 9/16” x 4.5” Bolts-2
- 9/16” x 5.5” Bolts-2
- Flat Washers-8
- 9/16” Nylock Nuts-4

10MMSTUDBAG-1-*Upper Strut Spacer Bag*
- 10mm Stud-6
- 10mm Lock Washer-6
- 10mm Nut-7
- 1/2” Jam Nut-1

9/16BAG-*U-bolt Bag*
- 9/16” Washers-8
- 9/16” Nuts-8

1263BAG2-*Anti Wrap U-bolt Bag*
- 7/16” x 3 1/8” x 3 1/4” Square U-bolt-4
- 7/16” Washer-8
- 7/16 Nylock-8

23732, 23733, 23750, 23770, 23771, & 23757 Kit Box & Bag Contents

Box Kit

187BOX1 or 18750BOX1
- Sway Bar Drop Brackets-2
- Sway Links-2
- U-Bolts-4
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- 187INSTRBAG1
- 18750-1:
  - E-Brake Bracket-1
  - Front Brake Brackets-2
  - Rear Brake Line Bracket-1
  - 1229BAG3
  - 1290BAG6
  - 1263BAG2
  - Tie Rod Ends-2
  - 9/16BAG
  - Transmission Shims-2

17430BOX2
- Front Crossmember-1
- Rear Crossmember-1

174BOX2
- 10MMSTUDBAG-1-1
- Strut Spacers-2
- Rear N3 Shocks-2

174BOX3
- 10MMSTUDBAG-1-1
- Strut Spacers-2

1237BOX5
- Driver Knuckle-1
- Passenger Knuckle-1

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23023-N3 Strut

760748-Rear V2 Shock

680001-2-Vertex Coilover

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- 10mm x 40mm Bolts-2
- 10mm Flat Washers-2

Kit Bags

1229BAG3-*Crossmember Bag*
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- Flat Washers-8
- 9/16” Nylock Nuts-4

10MMSTUDBAG-1-*Upper Strut Spacer Bag*
- 10mm Stud-6
- 10mm Lock Washer-6
- 10mm Nut-7
- 1/2” Jam Nut-1

9/16BAG-*U-bolt Bag*
- 9/16” Washers-8
- 9/16” Nuts-8

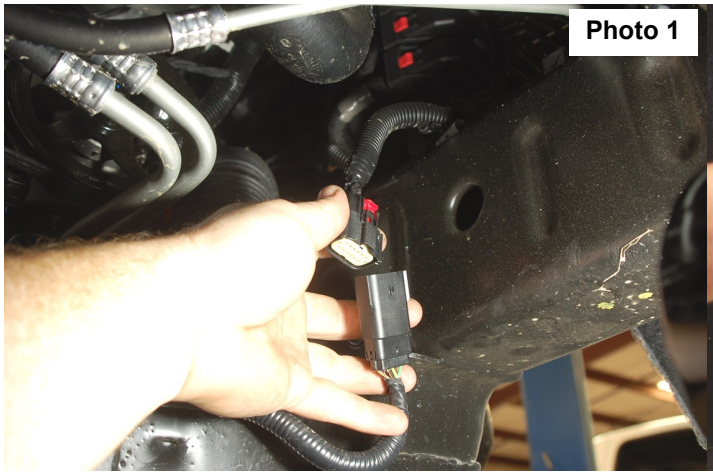
1263BAG2-*Anti Wrap U-bolt Bag*
- 7/16” x 3 1/8” x 3 1/4” Square U-bolt-4
- 7/16” Washer-8
- 7/16 Nylock-8

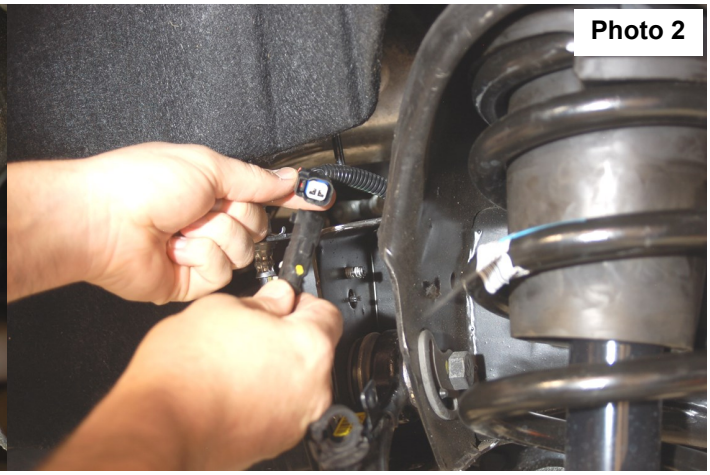
18730 KIT CONTENT



FRONT INSTALLATION

1. Park the vehicle on a level surface and chock the rear wheels. Raise the hood and disconnect the battery using a 10mm socket. Lock the steering wheel in the straight position.
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. Remove the 6 bolts holding the factory skid plate using a 15mm socket. Unplug the two connectors going to the electric power steering wiring harness behind the front skid plate. **See Photo 1**.
4. Remove and unplug the ABS sensor wire from the frame as shown in **Photo 2.**


Photo 1


Photo 2

5. Remove the sensor wire from the plastic clip. Remove the brake line bracket from the control arm using a 10mm wrench. **See Photo 3.** Next remove the bracket line bracket from the control arm pocket with a 13mm wrench.
6. Using a 21mm wrench, remove the tie-rod nut as shown in **Photo 2**. Strike the front of the mount to dislodge the tie rod end. Remove from the knuckle.

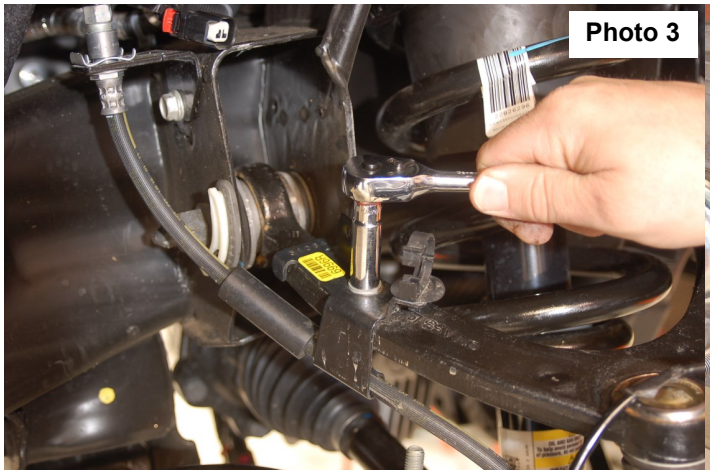
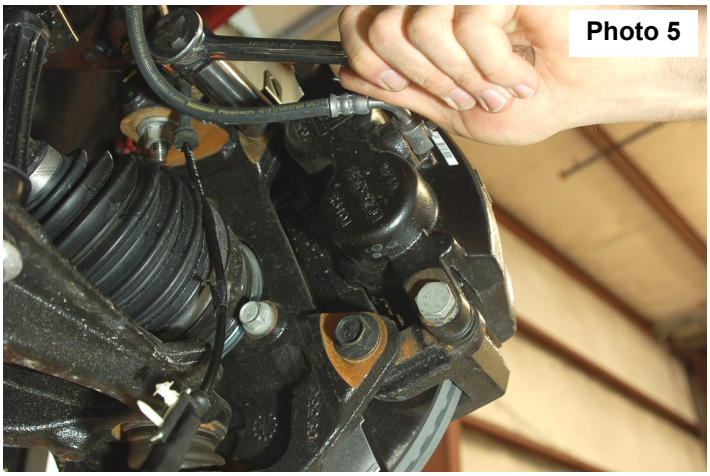
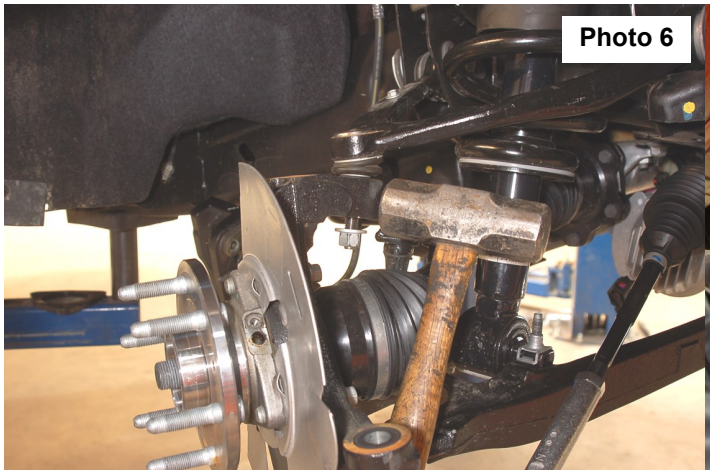

Photo 3

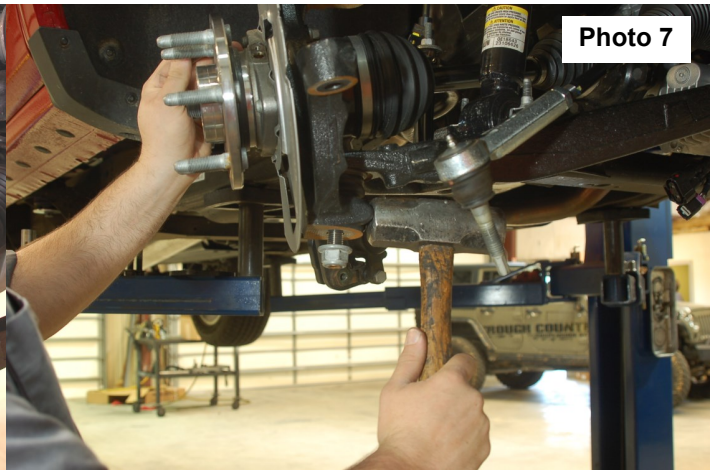

Photo 4

7. Remove the brake caliper using a 18mm socket. Hang the caliper out of the way and remove the rotor using a 30 torx socket. **See Photo 5.**
8. Use a 10mm socket to remove the ABS bracket from the top side of the knuckle.

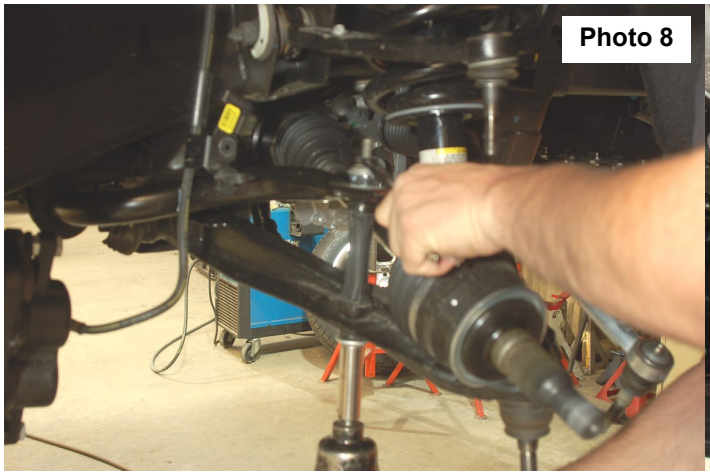

Photo 5

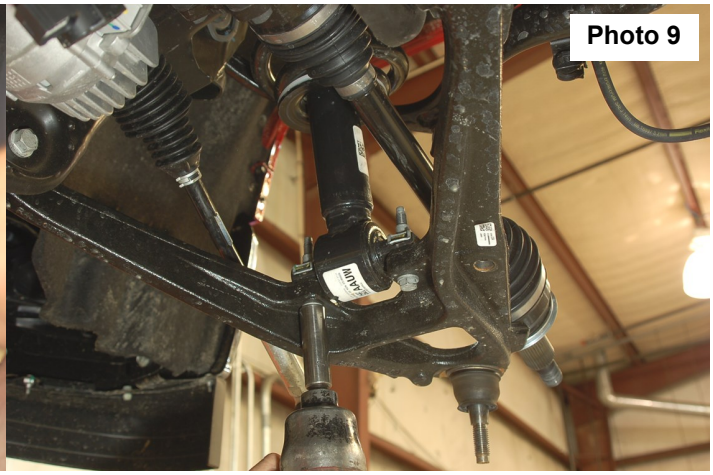
9. Remove the upper ball joint using a 18mm socket and separate using a hammer and striking the knuckle on the side as shown in **Photo 6.**
10. Remove the lower ball joint using a 24mm socket and separate with a hammer as shown in **Photo 7**. Next remove the knuckle from the truck.





11. Using a 15mm wrench and socket remove the sway bar links from the truck. **See Photo 8.**
12. Remove the lower strut bolts using a 15mm socket as shown in **Photo 9** and remove the upper strut nuts using a 18mm wrench. Remove the strut from the truck.

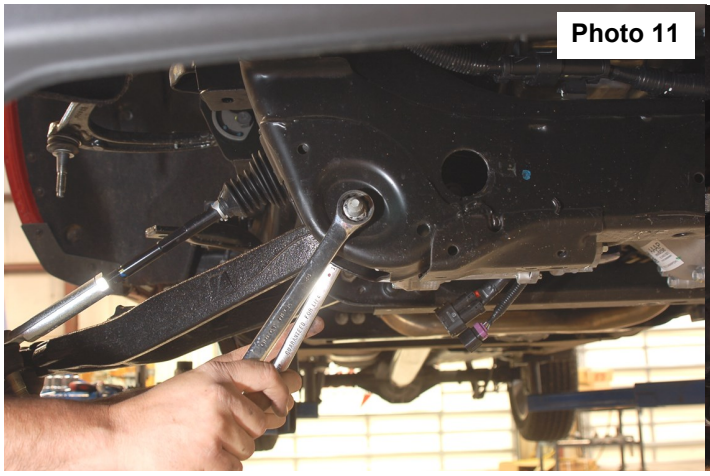


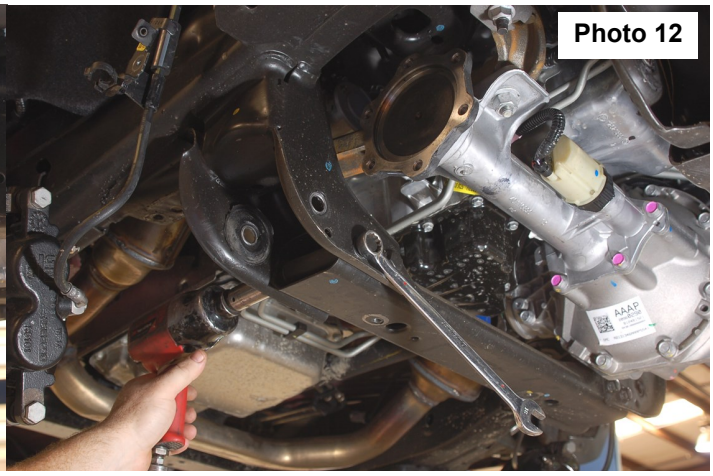


13. Using a 10mm socket remove the sway bar from the bottom of the frame. **See Photo 10.**



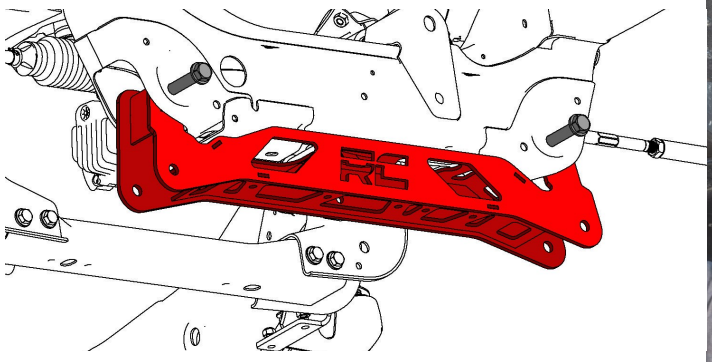
14. Remove the lower control arm using a 18mm wrench and a 24mm socket. **See Photo 11.**
15. Using a 18mm wrench and socket remove the factory lower rear cross-member. **See Photo 12.**
16. Install front crossmember using new 5/8” x 4.5” bolts, washer, and nuts. Hand tighten. **See Photo 13.**


Photo 11

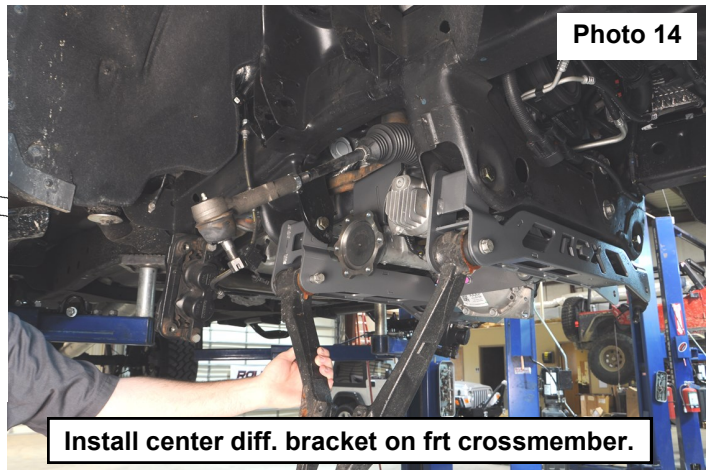

Photo 12

17. Install the rear crossmember with the supplied 5/8” x 5.5” bolts. Hand tighten.
18. Install the factory lower control arm with stock hardware. Hand tighten. Now tighten the 5/8” bolts that secures the crossmembers to the frame with a 24mm wrench. **See Photo 14. Torque to 175ft-lbs.**
19. Install sway-bar drop bracket using 10mm x 35 mm bolts and washers. Tighten using 17mm wrench. **See Photo 15**

Photo 13



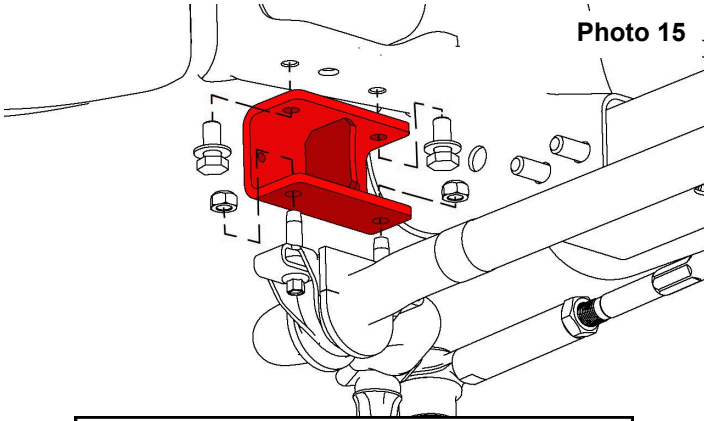
Install front crossmember.


Photo 14

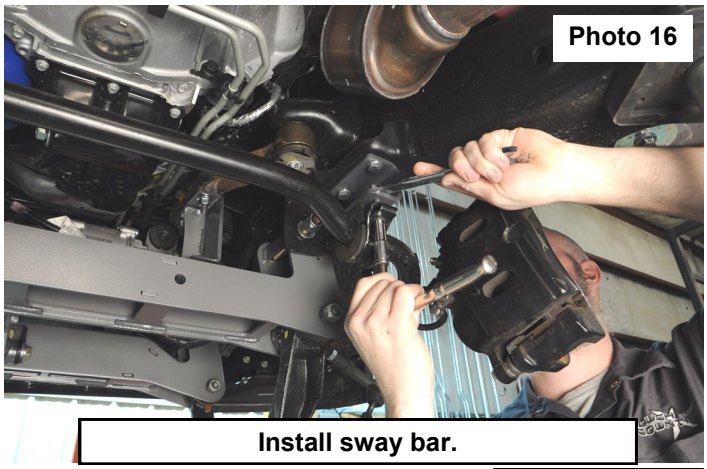
Install center diff. bracket on frt crossmember.

20. Install sway-bar using stock bolt with new 10mm nuts. **See Photo 16.** Use a 10mm socket and 17mm wrench to tighten. Install stock sway-bar link using a 15mm to tighten. **Torque to 35ft-lbs.**

Photo 15

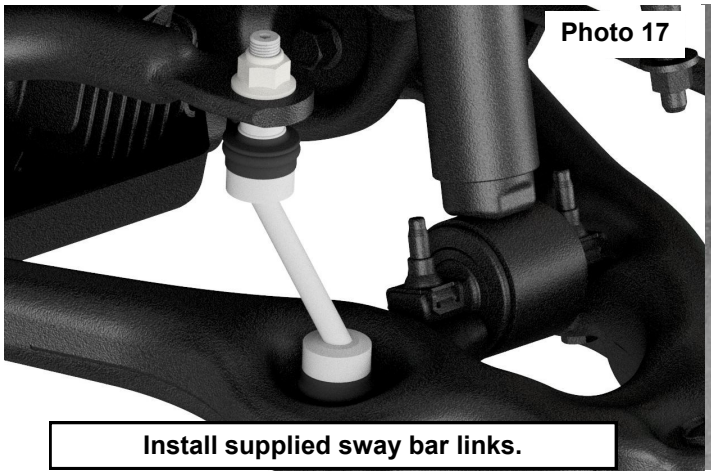


Install sway bar drop bracket.

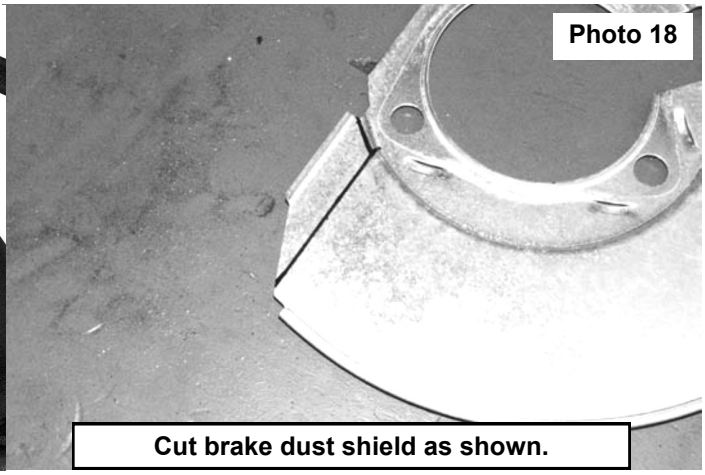

Photo 16

Install sway bar.

21. Install the supplied sway bar link using the supplied nuts. **Do Not use an Impact!!!** Torque to 90ft-lbs using a 19mm wrench and 21mm socket. **Do Not use an Impact!!! See photo 17.**
22. On the factory knuckles, remove the bearing assembly using a 15mm wrench. Next the brake shroud must be trimmed to allow the caliper to install on the new knuckle. Mark the dust shroud as shown in **Photo 18** and trim.

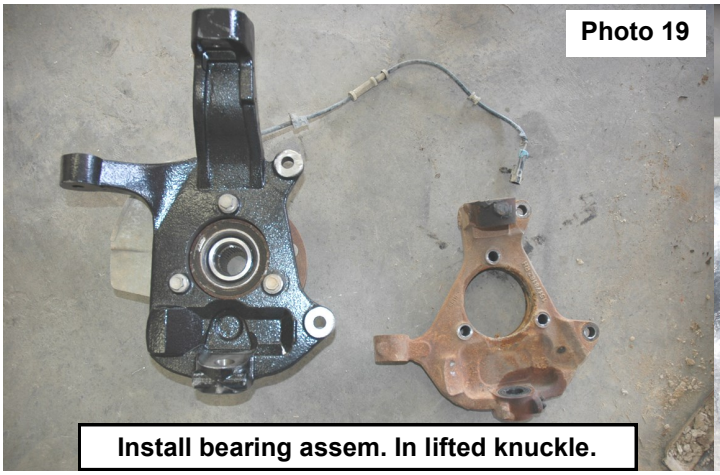


Install supplied sway bar links.

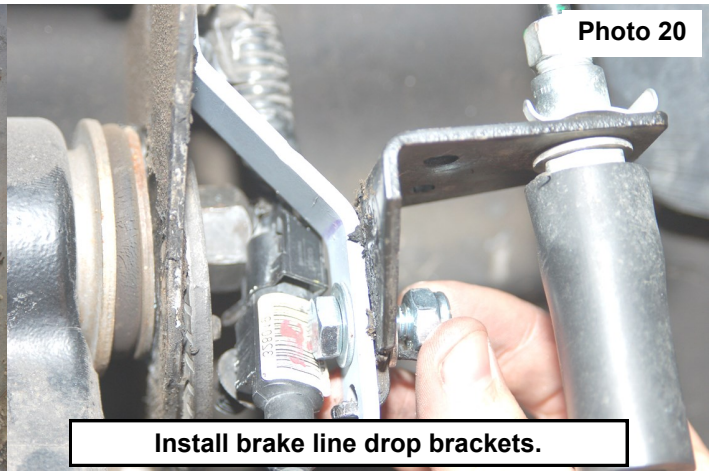


Cut brake dust shield as shown.

23. Install the factory bearing and dust shroud into the new supplied knuckle. Tighten with a 15mm wrench. **See Photo 19. Torque to factory specs.**
24. Install brake line drop bracket to the frame using stock hardware. Next secure factory brake line mount to the new drop bracket using the supplied 5/16" x 1" bolts, washers, and nuts. **See Photo 20.** Use a13mm wrench and socket to tighten. **Torque to 35ft-lbs.**

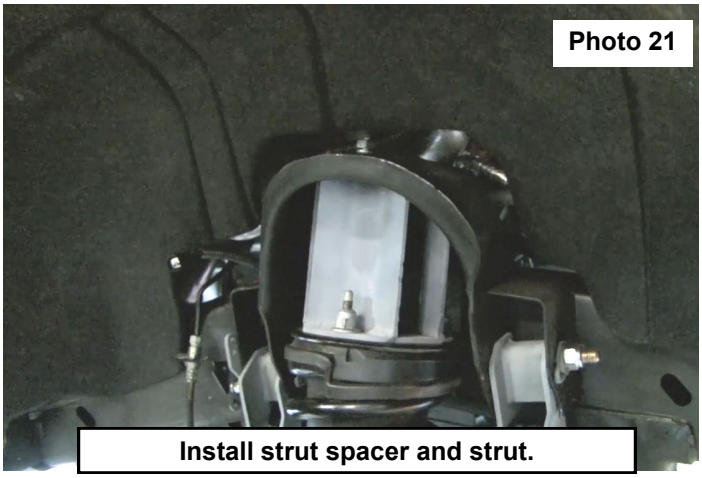


Install bearing assem. In lifted knuckle.



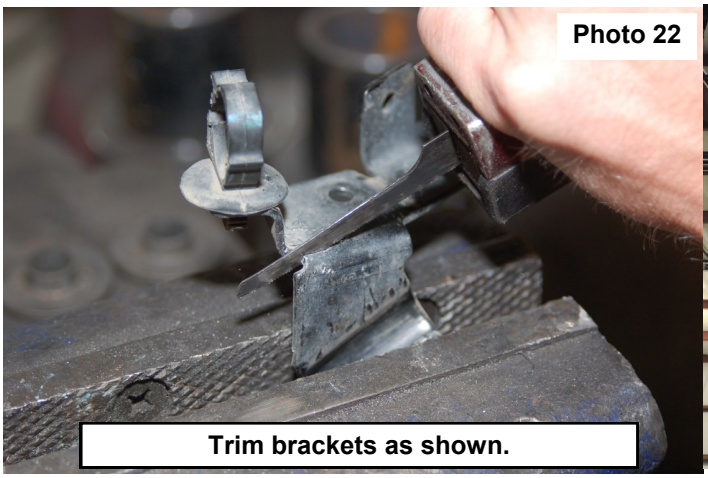
Install brake line drop brackets.

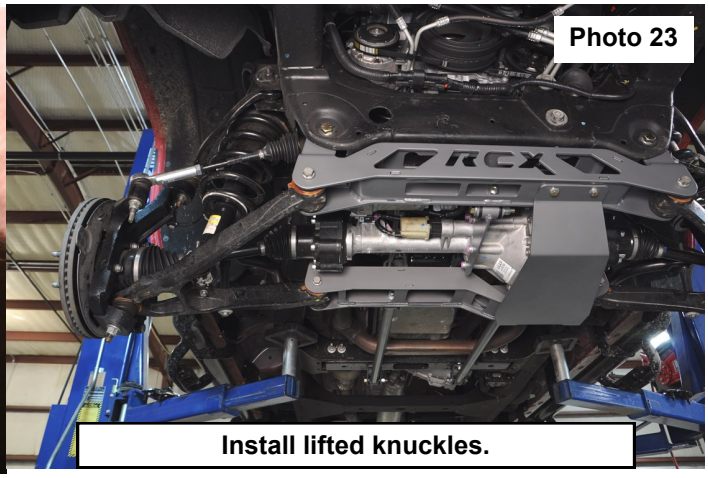
25. If installing the Rough Country lifted struts (23023) or Vertex coilovers (680001-2) refer to the instructions included with the strut and skip to step 28.
26. Press in the 10mm studs into the strut spacer. Install strut spacer on to strut using stock hardware and a 18mm wrench to tighten.
27. Install strut into truck using the supplied 10mm nuts and lock washers. Use a 9/16" wrench to tighten. **See Photo 21.** Use stock hardware for lower strut mount and use a 15mm wrench to tighten lower strut bolts. **Torque to factory specs.**



Install strut spacer and strut.

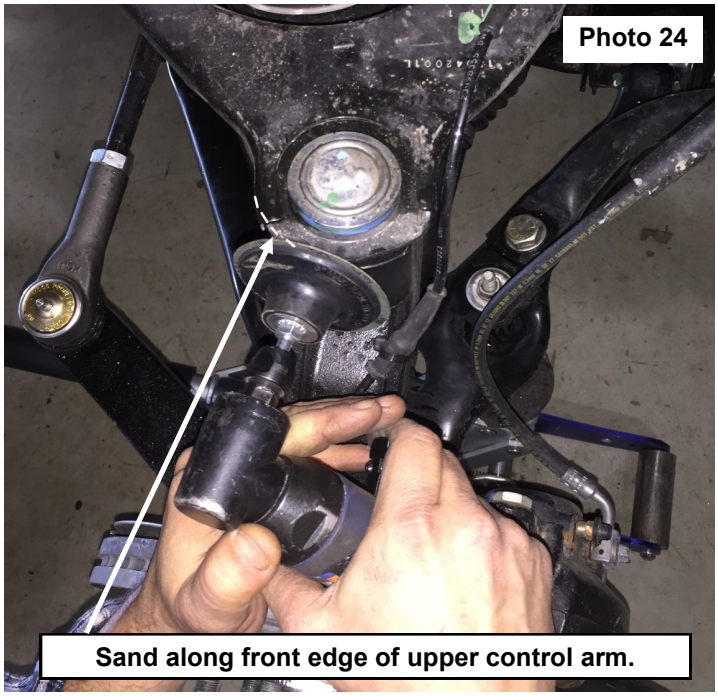
28. Remove the ABS wire from the brake line clip and remove the brake line from the bracket using a flat head screw driver and trim as shown in **Photo 22**. Reinstall the modified bracket on the stock control arm with the stock hardware and reinstall the ABS wire in the clip.
29. Install knuckles using stock hardware. **See Photo 23.** Use a 24mm for lower ball joint a 18mm for upper joint. Install rotor and install bolt using a 30mm torx socket. Install the brake caliper using a 18mm socket for the bolts. **Torque to factory specs.**





30. Remove the factory tie rod end and install the supplied end. Secure to the knuckle using the supplied hardware.
30. Install the wheels and tires, then jack up the truck and remove the jack stands. Lower truck on ground tighten upper and lower control arm bolts using 21mm for upper and 18mm and 24mm socket and wrench for bottom. **Torque to factory specs.**

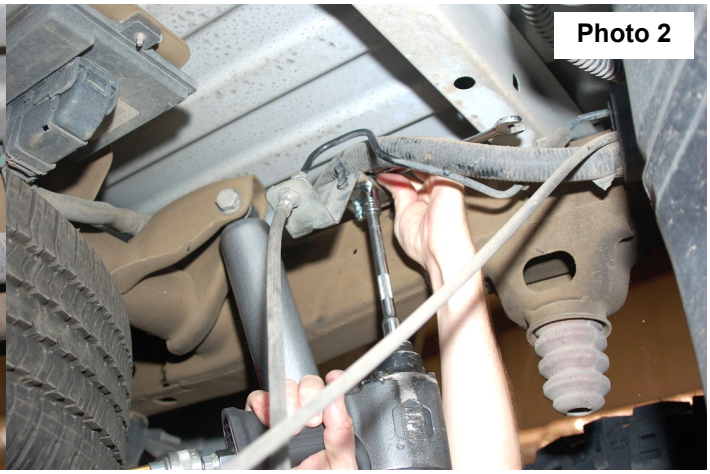
⚠NOTICE Due to tire manufacturer variances and/or other wheel and tire combinations, modification to the upper control arm may be necessary to prevent rubbing. Using a rotary sander, lightly sand the front lip of the factory upper control arm until there is no contact with the wheel and/or tire throughout the full turning radius. **See Photo 24.**



REAR INSTALLATION

1. Chock the front tires.
2. Before jacking up the rear of the vehicle. Remove the stock brake line bracket using a 13mm wrench, from the driver side frame rail to allow the extension bracket to be installed. Also remove the clip securing the hard line and wiring hardness to the top of the frame. **See Photo 1.** The stock bolts can be accessed from the side of the vehicle. Retain the stock hardware for reuse.
3. Install the brake line bracket to the new bracket with the supplied 5/16" x 1" bolts, nuts /washers. Reinstall the assembly in the stock location with the stock hardware using a 13mm wrench. **See Photo 2. Torque to 20ft-lbs.**



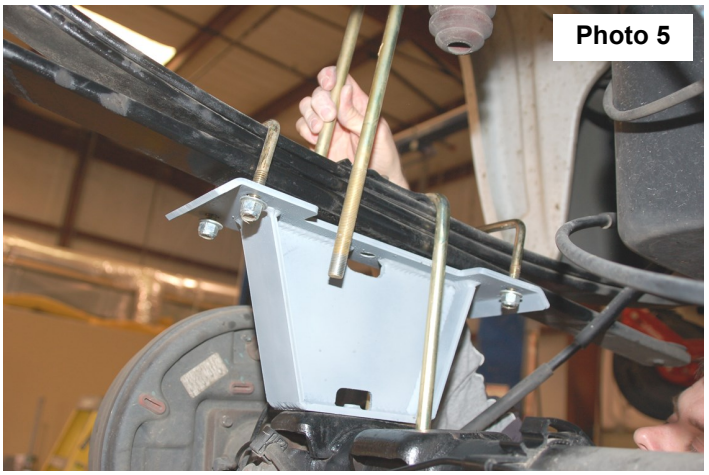


4. Remove the e-brake wire bracket from the frame with a 13mm socket. Use the supplied drop bracket and the factory bolt to mount to the frame. Use the supplied 5/16" x 1" bolt, washers, and nut to mount factory wire bracket to the new drop bracket as shown in **See Photo 3. Torque to 20ft-lbs.**
5. Remove the ABS wire, if equipped, from the frame rail as shown in **Photo 4** to allow slack in the line.





6. Jack up the rear of the vehicle and place jack stands under the frame rails. Remove tire and wheels.
7. Lightly support the differential with a floor jack .
8. Remove the stock shock absorbers using a 21mm wrench. Retain the hardware for reuse.
9. Remove the stock u-bolts and lower the axle to allow the supplied block to be installed. Discard the factory block if so equipped.
10. Install the new block with the supplied 7/16" X 3" u-bolts on the leaf spring. Do not tighten at this time. Jack up the axle to meet the new block and make sure the center pin is in the axle. Tighten 7/16" u-bolts. **Torque to 45ft-lbs. See Photo 5. Note short side of block goes towards front of vehicle.**
11. Install the supplied u-bolts and tighten using a 22mm wrench and a crossing pattern. **See Photo 5. Torque to 90ft-lbs.**



12. Install shock absorbers #660748 in the factory location tighten using a 21mm wrench. **If installing V2 rear shocks or Vertex rear shocks, refer to installation instructions included with those shocks.** **See Photo 6. Torque to factory specs.**
13. Using WD-40 lubricate the ABS wire and slide the rubber sleeve up to allow the wire to be reinstalled in the clip on the frame. The connector will not be reattached to the top of the frame. Reroute the lines as needed to gain sufficient slack.
14. Using a 15mm socket remove the 2 bolts from the transmission crossmember and jack up the transmission.. **See Photo 7.**
15. Install the (2) transmission shims along with the bolts and washers from 1296BAG3. **See Photo 8.**
16. Re-install tires and wheels.
17. Remove jack stands and lower vehicle to ground.
18. Place shock decals on shock absorbers and window decal on vehicle.


Photo 6


Photo 7


Photo 8

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. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. 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.
4. Activate four wheel drive system and check front hubs for engagement.
5. Have a qualified alignment center align the vehicle immediately. Realign to factory specifications. The following are the recommended specifications:

Caster in degrees	4.5 +-1.0
Camber in degrees	0.0—.3
Toe In in degrees	0.1 +-.2

6. Perform head light check and adjustment to proper settings.
7. Check and retighten wheels at 50 miles and again at 500 miles.
8. All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check all hardware for tightness.
9. Install “Warning to Driver” decal on sun visor

Note: Installation of larger tires will require speedometer recalibration.

Thank you for choosing Rough Country for all of your suspension needs.

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