TRAIL FORTRESS

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Rough Country 26231 Installation Instructions

5-Inch Lift Kit with N3 Shocks for Silverado/Sierra 1500 (2007–2013)

Part number: 26231

trailfortress.com/rough-country-5-inch-lift-kit-26231

Scan for fitment, price and install help

921262000

ROUGH COUNTRY SUSPENSION SYSTEMS®

262INSTBAG1

07-16 2WD/4WD GM 1500 5” KIT

Thank you for choosing Rough Country for your suspension needs. We appreciate your business!!

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. Be sure you have all needed parts and know where they go.

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

⚠NOTICE **This kit will not fit 07-13 4wd models equipped with electric steering.**

⚠NOTICE **07-13 2wd and 14-16 models, you must unplug electric steering before installation, if equipped.**

This kit is packaged as a leveling kit—raising the front 5” and the rear 3 1/2”. 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 an add-a-leaf option.

Due to differences in manufacturing, dimension and inflated measurements, tire and wheel combinations should be test fit prior to installation. For this application we recommend a 18” or larger wheel not to exceed 9” in width. When using a 18” wheel backspacing should be maximum of 5.5” and a minimum 5.0” . With a 20” or larger wheel backspacing should be a maximum of 6.0” and a min of 5.5”. Additionally a quality tire of radial design is recommended, not exceeding 33” tall and 12.5” wide. Please note that use of a 33” x 12.5” tire may require modification to the front valance.

⚠NOTICE **For alignment purposes, it may be necessary to trim/shorten the tie rod end to allow the front end alignment to be set properly. Please alert your alignment specialist of this possibility.**

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 life.

Tools Needed:

Floor Jack /Jack Stands	24mm socket / wrench
8mm Allen Socket	19mm socket / wrench
10mm socket / wrench	35mm socket
11mm socket / wrench	7/16” socket / wrench
13 mm socket/ wrench	9/16 socket / wrench
15mm socket / wrench	Reciprocating Saw
17mm socket/ wrench	Drill
18mm socket / wrench	11/16” Drill Bit
21mm socket / wrench	Hand Grinder
22mm socket / wrench	Loctite

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

4wd Kits

26230 (5” 4wd Kit w/ N3 Rr Shocks):
- *262BOX1*
- *262BOX2*
- *229BOX2*
- *1264BOX3*
- *20158 x 2*

26231 (5” 4wd Kit w/ N3 Struts & N3 Rr Shocks):
- *262BOX1*
- *229BOX2*
- *1264BOX3*
- *23011*
- *20158 x 2*

26270 (5” 4wd Kit w/ V2 Rr Shocks):
- *262BOX1*
- *229BOX2*
- *1264BOX3*
- *262BOX3*
- *760748*

26271 (5” 4wd Kit w/ N3 Struts & V2 Rr Shocks):
- *261BOX1*
- *229BOX2*
- *1264BOX3*
- *23011*
- *760748*

2wd Kits

26130 (5” 2wd Kit w/ N3 Rr Shocks):
- *261BOX1*
- *262BOX2*
- *229BOX2*
- *1264BOX3*
- *20158 x 2*

26131 (5” 2wd Kit w/ N3 Struts & N3 Rr Shocks):
- *261BOX1*
- *229BOX2*
- *1264BOX3*
- *23011*
- *20158 x 2*

26170 (5” 2wd Kit w/ V2 Rr Shocks):
- *261BOX1*
- *229BOX2*
- *1264BOX3*
- *262BOX3*
- *760739*

26171 (5” 2wd Kit w/ N3 Struts & V2 Rr Shocks):
- *261BOX1*
- *229BOX2*
- *1264BOX3*
- *23011*
- *760739*

26330, 26331, 26370, 26371, 26350, & 26357 Kit Box & Bag Contents

Box Kit

261BOX1- (2wd Kits)
- Sway Bar Drop Brackets-2
- U-Bolts-4
- Rear Blocks-2
- Front Brake Brackets-2
- Rear Brake Line Bracket-1
- Transmission Shims-2
- 262INSTRBAG1
- 1263BAG1
- 1296BAG3
- 9/16BAG

262BOX1- (4wd Kits)
- Driver Diff Bracket-1
- Pass Diff Bracket-1
- Skid Plate-1
- CV Spacers-2
- Sway Bar Drop Brackets-2
- U-Bolts-4
- Rear Blocks-2
- Front Brake Brackets-2
- Rear Brake Line Bracket-1
- 262INSTRBAG1
- 1264BAG1
- 1264BAG2
- 1272BAG3
- 9/16BAG

229BOX2
- Front Crossmember-1
- Rear Crossmember-1

262BOX2
- 10MMSTUDBAG-1-1
- Strut Spacers-2

1264BOX3
- Driver Knuckle-1
- Passenger Knuckle-1

20158-Rear N3 Shock

23011-N3 Strut

760748-Rear V2 Shock (4wd Kits)

760739-Rear V2 Shock (2wd Kits)

Kit Bags

262INSTRBAG1
- Instruction Sheet-1
- Warning to Driver Sticker-1

1263Bag1- (2wd Kits)

For Front Cross Member
- 5/8" x 4 1/2' Bolts-2
- 5/8" Lock Nuts-2
- 5/8" Washers-4

For Rear Cross Member
- 5/8" X 5 1/2" Bolts-2
- 5/8" Lock Nuts-2
- 5/8" Washers-4

For Lwr Strut to Ctrl Arm
- 10mm x 55mm Bolts-4
- 10mm Lock Nuts-4
- 10mm Washers-8

For Sway Bar Bracket
- 10mm x 35mm Bolts-4
- 10mm Lock Nuts-4
- 10mm Lock Washers-4
- 10mm Washers-8

For Frt and Rr Brake Line Brkts
- 5/16" x 3/4" Bolts-4
- 5/16" Nylon Lock Nuts-4
- 5/16" Washers-8

1264Bag1- (4wd Kits)

For Front Cross Member-
- 5/8" x 4 1/2' Bolt (2)
- 5/8" Lock Nuts (2)
- 5/8" Washers (4)

For Rear Cross Member-
- 5/8" X 5 1/2" Bolt (2)
- 5/8" Lock Nuts (2)
- 5/8" Washers (4)

For Lwr Strut to Ctrl Arm Mount-
- 10mm x 55mm Bolt (4)
- 10mm Washers (8)
- 10mm Lock Nuts (4)

For Sway Bar Bracket-
- 10mm x 35mm Bolt (4)
- 10mm Lock Nuts (4)
- 10mm Lock Washer (4)
- 10mm Washers (8)

Kit Bags

1264Bag2- (4wd Kits)

For Driver Side Diff. Drop Bracket-
- 12mm x 35mm Bolt (2)
- 12mm Flange Nut (2)
- 12mm Washer (2)

For Pas Side Differential Bracket
- 12mm x 45mm Bolt (2)
- 12mm Flange Nut (2)
- 12mm Washer (2)

For Frt and Rr Brake Line Brackets-
- 5/16" x 3/4" Bolt (4)
- 5/16" Nylon Lock Nut (4)
- 5/16" Washer (8)

For Skid Plate Installation-
- 3/8" x 1" Bolt (4)
- 3/8" Lock Washer (4)
- 3/8" Flat Washer (4)

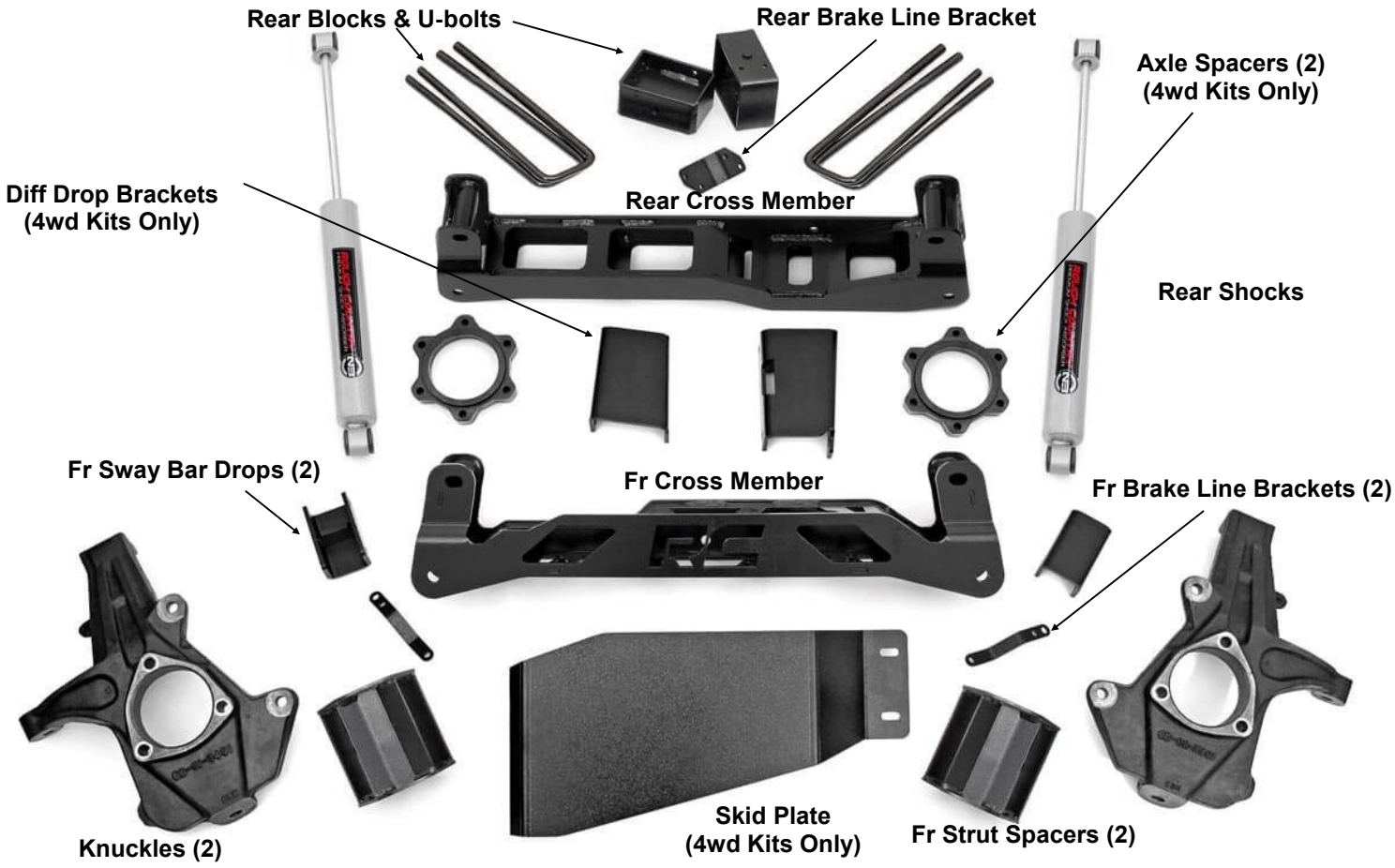
1272BAG3-*CV Spacer Bag* ***(4wd Kits)***
- 10mm x 65mm Socket Head Bolts (12)

10MMSTUDBAG-1-*Upper Strut Spacer Bag*
- 10mm Studs-6
- 10mm Lock Washers-6
- 10mm Nuts-7
- 1/2" Jam Nut-1

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

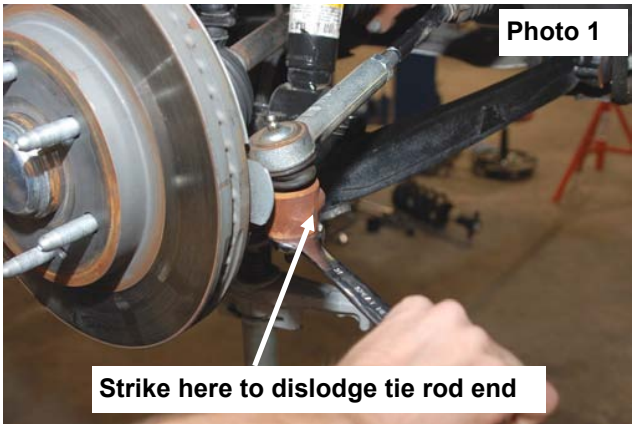
1293BAG3-*Transmission Shims*
- 10mm x 55mm Bolts-2
- 10mm x 40mm Bolts-2
- 10mm Flat Washers-2

KIT COMPONENTS (4wd Kit Shown)



FRONT INSTALLATION

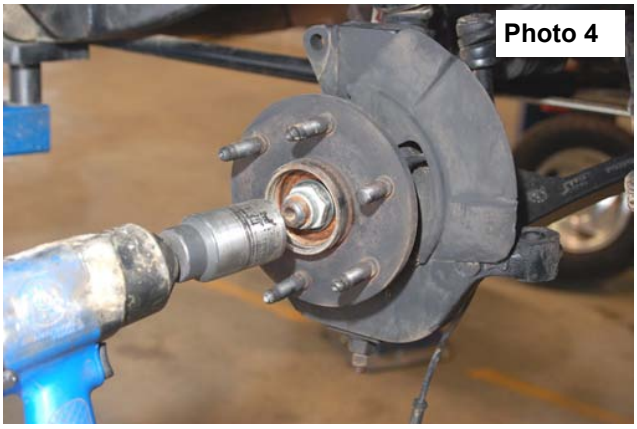
1. Park the vehicle on a level surface and chock the rear wheels.
2. Jack up the front of the vehicle. Place jack stands under the frame rails and lower onto jack stands letting the front suspension hang.
3. Remove the tires and wheels. Remove the upper and lower factory skid plates using a 15mm wrench. Retain factory hardware and front skid plate for reuse.
4. Using a 21mm wrench, remove the tie-rod nut as shown in **Photo 1**. Strike the side of the mount to dislodge the tie rod end. Remove from the knuckle. Unplug electric steering if equipped.
5. Remove the sensor wire from the plastic clip. Remove the bracket from the control arm using a 10mm wrench. **See Photo 2.**





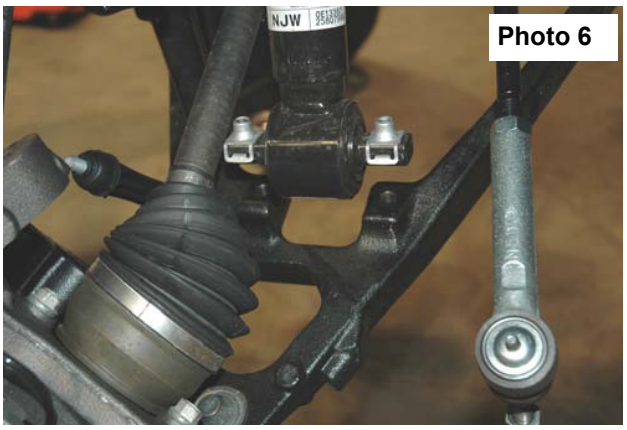
6. Remove and unplug the ABS sensor wire from the frame as shown in **Photo 3** and remove the two bolts holding brake caliper to the factory knuckle using a 18mm wrench. Remove the caliper assembly from the knuckle and hang securely out of the way. Do not hang the caliper by the brake hose.
7. **2wd models, skip to step 8.** Remove the axle nut from the knuckle as shown in **Photo 4** using a 35mm socket. Retain the hardware for reuse.



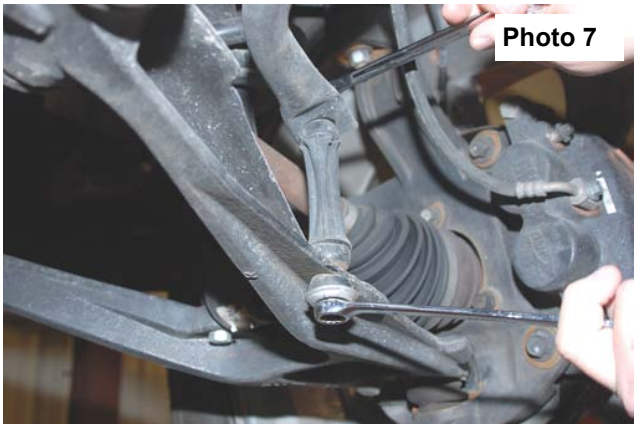


8. Using a 18mm wrench, remove the upper strut nuts as shown in **Photo 5**. Retain factory hardware for reuse.
9. Using a 15mm wrench, remove the 2 bolts securing the lower strut as shown in **Photo 6**, to the lower control arm and remove the strut from the vehicle. Remove and discard the factory lower retainer clips. New hardware will be used.





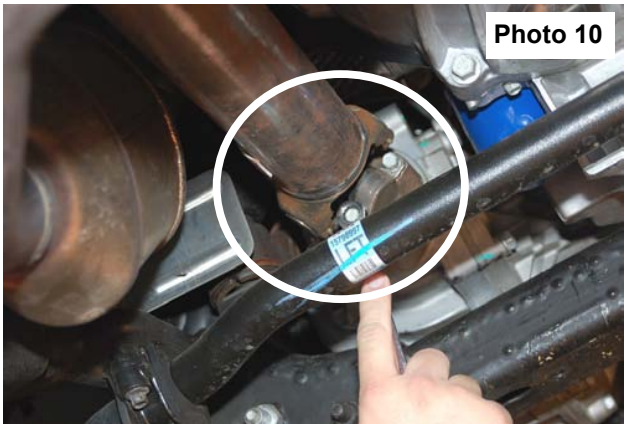
10. Remove the sway bar & end links from the lower control arm as shown in **Photo 7** using a 15mm wrench.
11. Remove the sway bar from the frame as shown in **Photo 8** using a 10mm wrench. Retain all hardware for reuse.



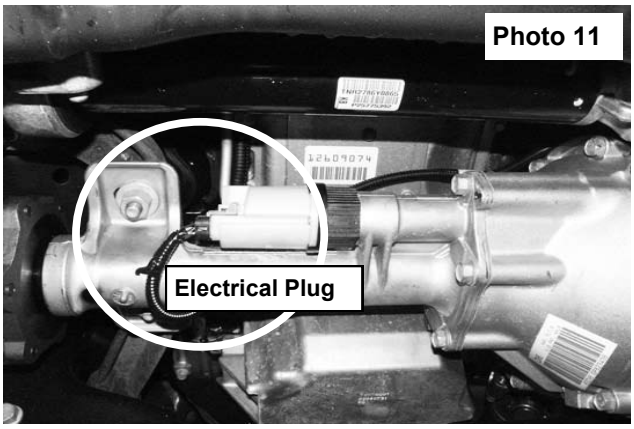


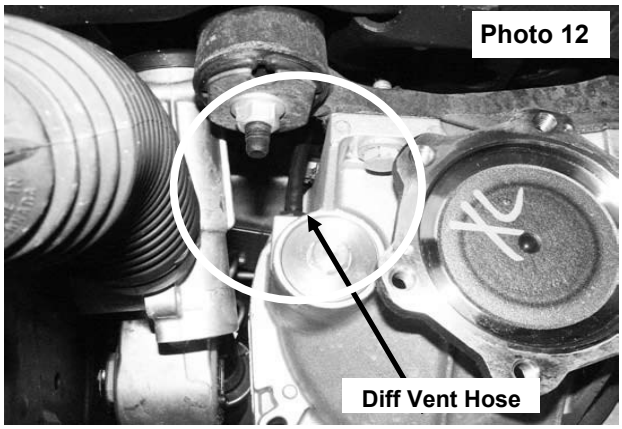
12. Using a 15mm wrench, remove the 6 axle shaft bolts from the differential and remove from the knuckle. Repeat on opposite side.
13. Remove the upper and lower ball joint from knuckle using a 18mm wrench and 24mm on the lower. Upper shown in **Photo 9**. Strike the knuckle as shown to dislodge the ball joint. Separate the upper control and lower control arm from the knuckle and remove the knuckle and the lower control arms from the vehicle.
14. Make an alignment mark to show relationship between driveshaft and differential input flange. Using a 11mm wrench, remove the four drive shaft bolts. **See Photo 10.** Retain hardware for reuse.
15. **2wd models skip to step 18.** Place a floor jack under the differential assembly to provide support for following steps.





16. Unplug the electrical connector on differential as shown in **Photo 11.**
17. Unplug the differential vent hose shown in **Photo 12.**



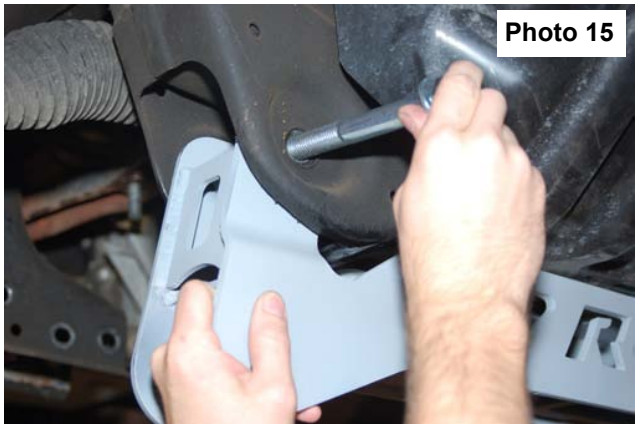


18. Remove the four rear cross member bolts and remove the rear cross member brace as shown in **Photo 13** using a 18mm wrench.
19. **2wd models, skip to step 21**. Using a 18mm socket remove the 4 differential bolts (2 each side) securing the differential to the frame. **See Photo 14.** Retain the hardware for reuse.


Photo 13

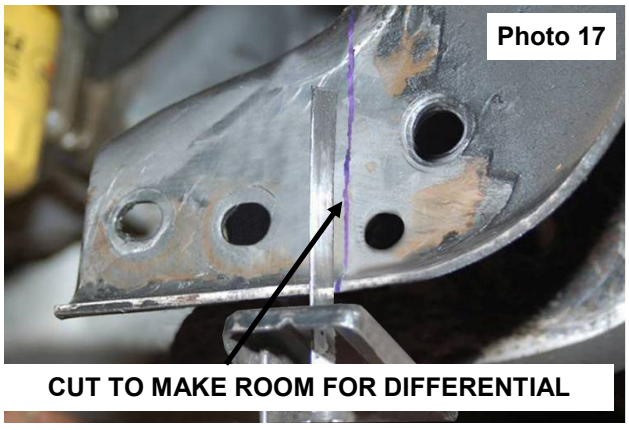

Photo 14

20. Slowly lower differential assembly to the ground.
21. Install the front cross member as shown in **Photo 15** with the supplied 5/8" x 4 1/2" bolts, nuts /washers. Do not tighten at this time.


Photo 15

22. **2wd models, skip to step31**. On the drivers side rear lower control arm pocket, measure over 3/4" from the edge of the hole on the rear frame where the cross member was removed in step 10 and mark area to be cut as shown in **Photo 16**. Please note the area needs to be cleaned of any oil, grease and/or undercoating. These coatings can be flammable.
23. Cut area with reciprocating saw as shown in **Photo 17.**

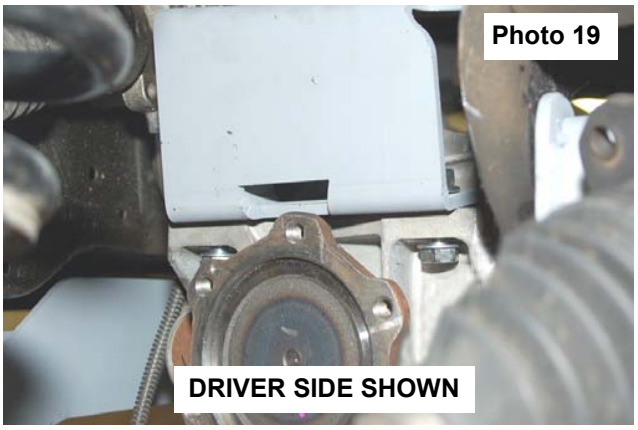

Photo 16


Photo 17

CUT TO MAKE ROOM FOR DIFFERENTIAL

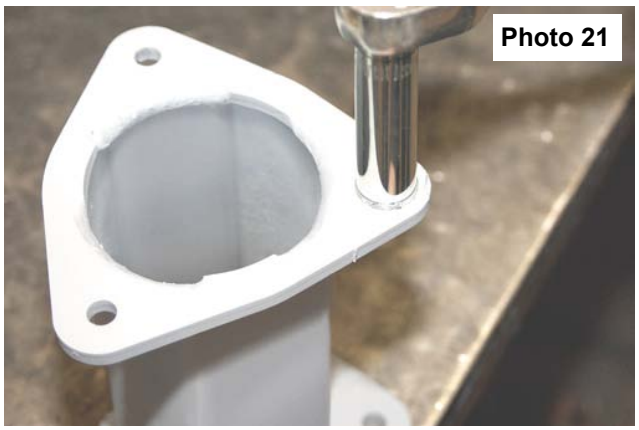
24. After the cross member has been trimmed, grind the edges smooth using a hand grinder, and apply paint to raw metal.
25. Install the Passenger differential drop bracket (open side to center of truck) with the supplied 12mm flange nuts. **See Photo 18.**
26. Install the Driver side differential drop bracket (open side to center of truck) with the notch at the bottom to allow clearance for the differential axle shaft flange using the supplied 12mm x 35mm bolts & washers. Do not tighten.
27. Raise the differential back into place and install on the drivers side drop brackets with the supplied 12mm flange nut and the factory bolts. **See Photo 19.**
28. Install the differential to the passenger side drop brackets with the factory nuts and the supplied 12mm x 45mm bolts & washer on the head of the bolt. **The stock nuts/ large washers must be reused to make sure the differential stays located in the drop bracket.**



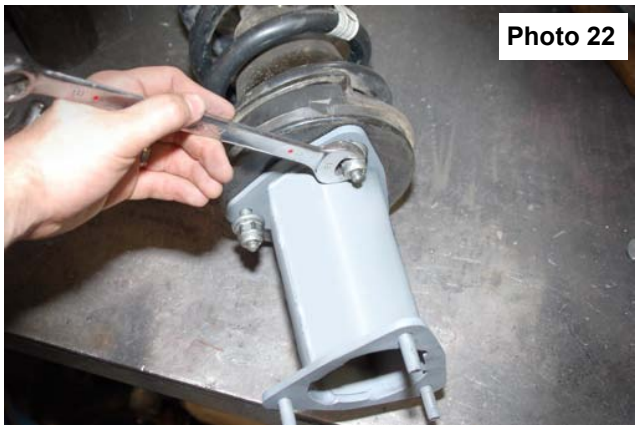


29. Tighten the diff drop brackets (65ft. lbs) to the frame and the differential to the diff drop brackets using a 18mm wrench .
30. Install the rear cross member in the factory location using the supplied 5/8" x 5 1/2" bolts, nuts/ washers as shown in **Photo 20.** Do not tighten at this time.
31. Reinstall the lower control arms in the cross member brackets with the factory hardware. Do not tighten at this time.
32. Install the supplied 3/8" studs on the strut spacer using 9/16" wrench & 3/8" nuts to lock the stud in place. **See Photo 21. The stud should clinch with about 35-45 ft/lbs of torque. Do not over torque the nut.**

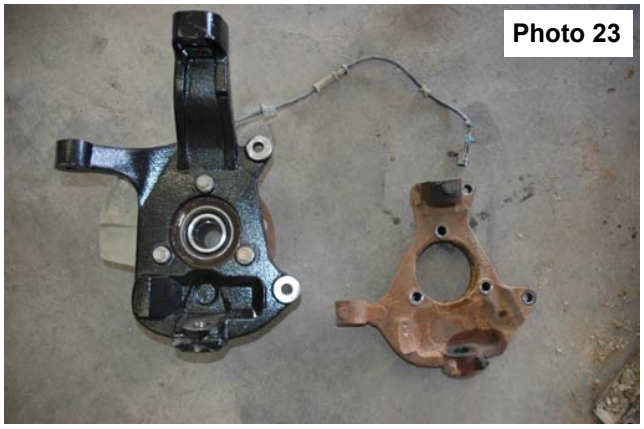


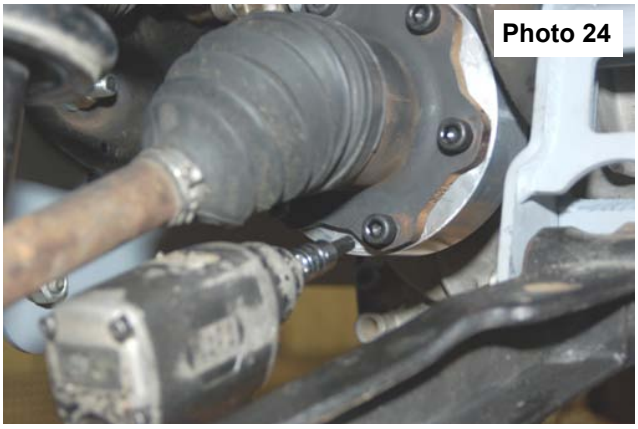


33. Install the strut spacer on top of the factory strut as shown in **Photo 22** with the stock hardware. Tighten using a 18mm wrench. **If installing the Rough Country lifted struts (23011) refer to the instructions included with the strut and skip to step 36.**



34. Install the strut in the upper strut tower using the supplied 3/8” nuts, washers & lock washers. Tighten using a 9/16” wrench.
35. Install the lower part of the strut in the factory location on the lower control arm with the supplied 10mm x 55mm bolts, nuts /washers. Tighten using a 17mm” wrench.
36. On the factory knuckles, remove the bearing assembly using a 15mm wrench and install in the new knuckle. Tighten hardware. **See Photo 23.**
37. Install the knuckles on the lower ball joint with the factory hardware and tighten using a 18mm wrench
38. Trim tie rod ends as per instructions on last page and install on the knuckle. Tighten using a 21mm wrench.
39. **2wd models, skip to step 42**. Position the axle shafts in the knuckle and tighten the factory nut using a 35mm socket. Torque to 155 ft-lbs.
40. Install the CV spacer as shown in **Photo 24** between the shaft and the differential. Secure with the supplied 10mm x 65mm allen bolts using 8mm allen socket. Use Loctite on the bolt threads and torque to 45ft. Lbs using a crossing pattern.


Photo 23


Photo 24

41. Install the sway bar drop brackets with the 10mm x 35mm bolts, lock washers, and flat washers using a 17mm wrench. Tighten hardware. **See Photo 25.**
42. Install the sway bar on the sway bar drop brackets with the stock bolts and supplied 10mm nuts & washers. Tighten using a 17mm wrench. **See Photo 26.**

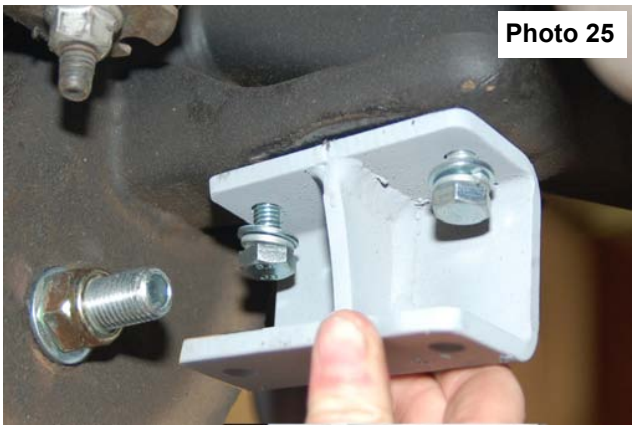

Photo 25


Photo 26

43. **2wd models, skip to step 45**. Reinstall the drive shaft on the differential with the stock hardware using a 11mm wrench. **Note clocking marked during disassembly.**
44. Install the skid plate as shown in **Photo 27** with the supplied four 3/8” x 1” bolts, flat washers and lock washers on the front and rear cross member. Tighten using a 9/16 wrench. Tighten cross member hardware using a 24mm wrench.
45. Using the supplied template on last page of instructions as a guide, mark and drill the lower control arm using a 11/16” drill bit to relocate the sway bar end link. **See Photo 28.** After drilling, install the sway bar end link with the stock hardware and tighten.

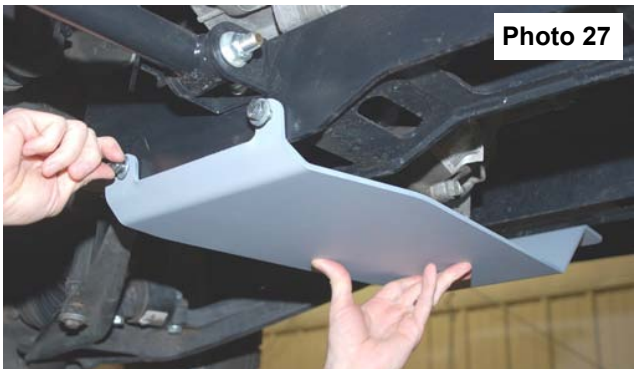
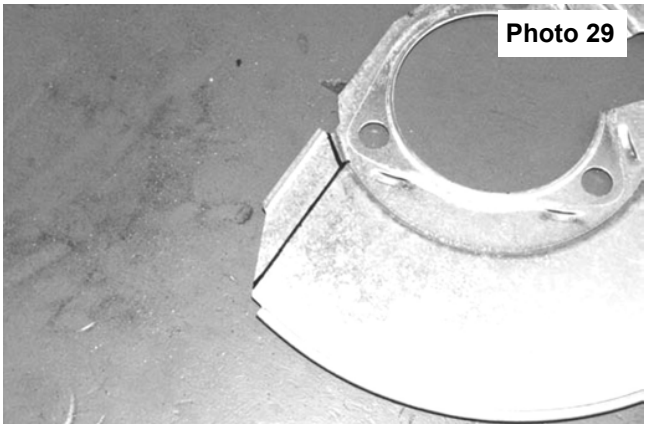
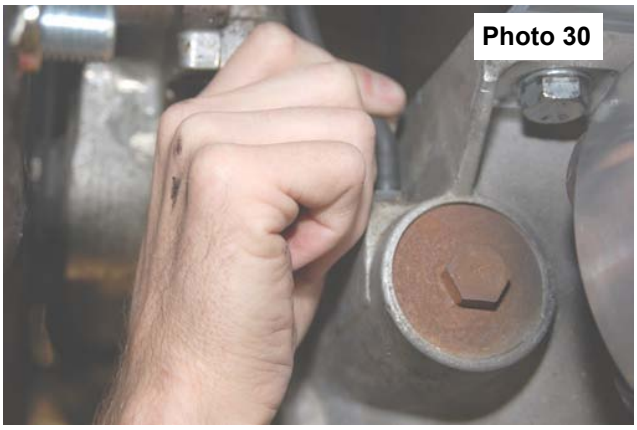

Photo 27


Photo 28

46. The brake shroud must be trimmed to allow the caliper to reinstalled, Mark the dust shroud as shown in **Photo 29** and trim. Reinstall the brake caliper on the knuckle with the factory hardware and tighten.
47. **2wd models, skip to step 49**. Slightly pull down on the diff vent hose and reinstall on the differential. **See Photo 30.** It may be necessary to loosen the diff vent hose from the wire loom to allow for enough slack to reconnect to the axle.
48. Reconnect the electrical connection on the axle that was removed in Step 16.


Photo 29

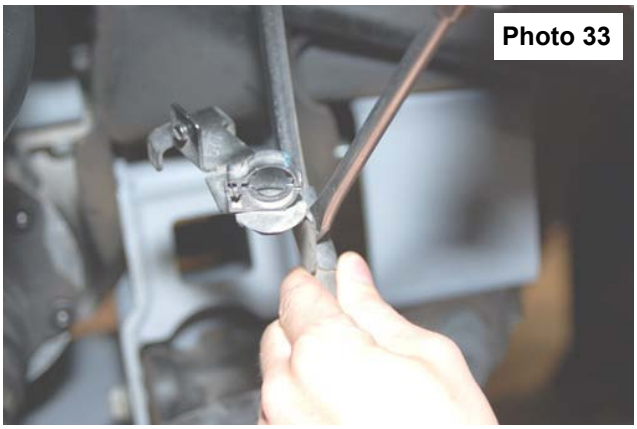

Photo 30

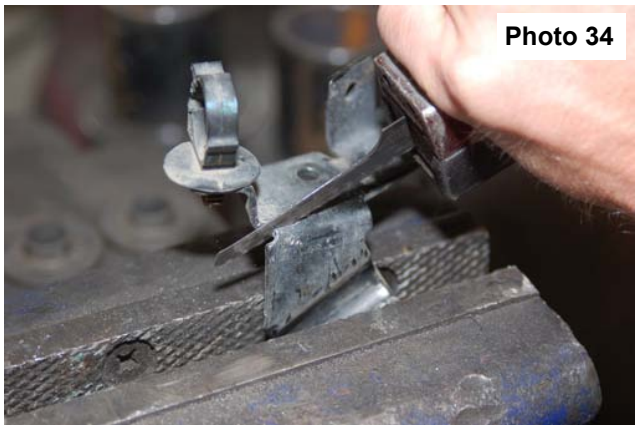
49. Remove the brake line bracket from the upper control arm mount as shown in **Photo 31** using a 13mm wrench.
50. Install the supplied brake line relocation bracket on the upper control arm mount with the stock hardware. Slightly pull down on the brake line assembly and reinstall on the drop bracket with the supplied 5/16" x 3/4" bolts, nuts /washers using a 7/16 wrench. **See Photo 32.** Reconnect the ABS wire that was disconnected in Step 6.


Photo 31


Photo 32

51. Remove the brake line clip from the brake line using a flat head screw driver as shown in **Photo 33** and trim as shown in **Photo 34**. Reinstall the modified bracket on the stock control arm with the stock hardware.


Photo 33


Photo 34

52. If the optional kicker bars were purchased with this kit, install at this time per the instructions included with that kit.
53. Reinstall the factory upper skid plate with the factory hardware.
54. Install the tires and wheels. Jack up the front of the vehicle and remove the jack stands.
55. Lower the vehicle to the ground.

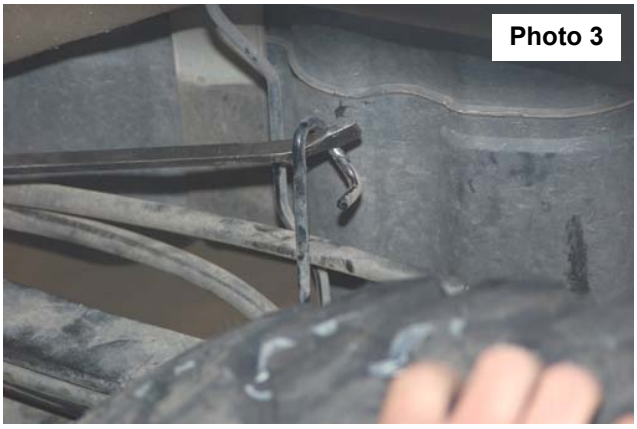
REAR INSTALLATION INSTRUCTIONS

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. **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 3/4" bolts, nuts /washers. Reinstall the assembly in the stock location with the stock hardware using a 13mm wrench. **See Photo 2.**



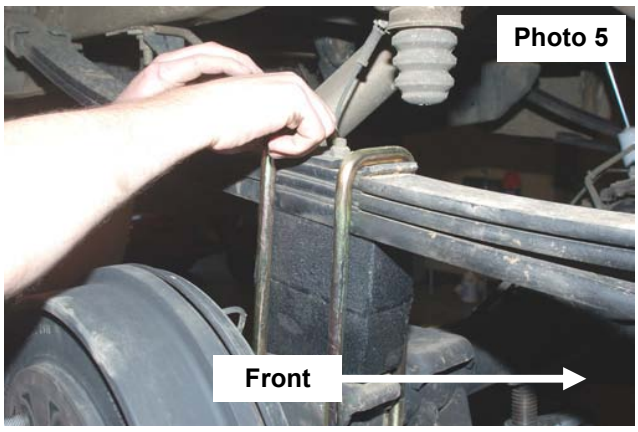


4. Remove the e-brake cable from the mount as shown in **Photo 3.** This will require a screw driver to bend open mounting loop.
5. Remove the ABS wire, if equipped, from the frame rail as shown in **Photo 4** to allow slack in the line.





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 on the axle. Jack up the axle and make sure the center pin is aligned with the block. **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.



13. Install the supplied shock absorbers in the factory location, using the factory hardware. Tighten using a 21mm wrench. **If installing V2 rear shocks, refer to installation instructions included with those shocks. See Photo 6.**
12. Reconnect the ABS lines to the plastic retaining clip at the bottom of each frame rail. The connector will not be reattached to the top of the frame. Reroute the lines as needed to gain proper slack.
13. **07-13 and all 4wd models skip to step 17.**
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. Let the transmission down and tighten the hardware using a 16mm socket. Torque to 32 ft-lbs.
17. Re-install tires and wheels.
18. Remove jack stands and lower vehicle to ground.

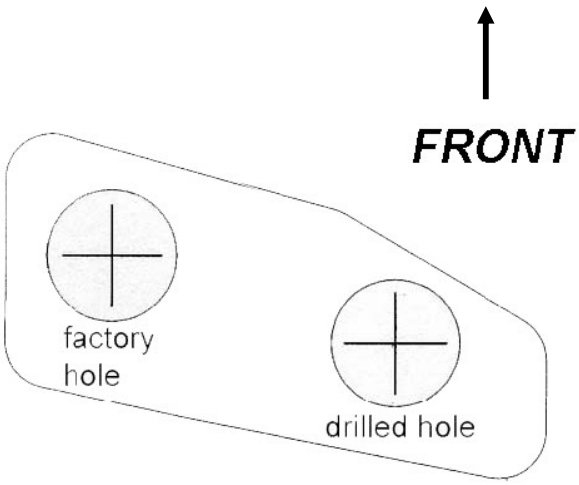

Photo 6


Photo 7


Photo 8

TEMPLATE FOR SWAY BAR RELOCATION

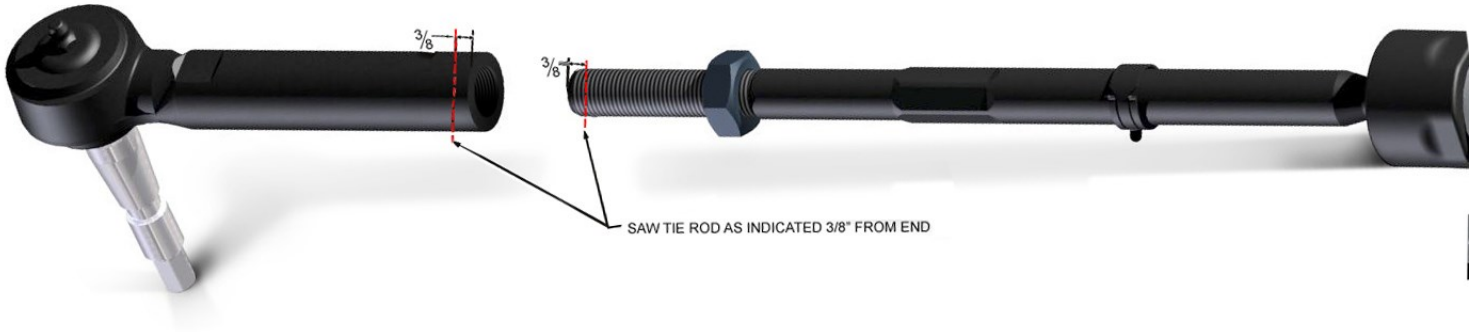
Cut out template and position template on lower control arm as shown in Step 45.. Drill with a 11/16 drill bit and relocate the sway bar end links into the new location.




RC
ROUGH COUNTRY

INSTRUCTIONS FOR TRIMMING TIE ROD ENDS.

1. Disassemble the tie rod from the tie rod ends
2. Measure over 3/8” and mark.
3. Cut the tie rods / tie rod sleeves as shown below to allow the vehicle to be realigned.
4. Smooth any rough edges.
5. Reassemble the cut assembly



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

Important note: For alignment purposes, please refer to the instructions above. The inner & outer tie rod ends may need to be trimmed to allow the front end alignment to be set properly. Please alert your alignment specialist of this possibility.

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

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