Rough Country 110031A Installation Instructions

1.5-Inch Lift Kit with N3 Struts for 2017–2023 GMC Acadia

Part number: 110031A

trailfortress.com/1-5-inch-lift-kit-gmc-acadia-rough-country-110031a

Scan for fitment, price and install help

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ROUGH COUNTRY SUSPENSION SYSTEMS®



GMC 2017 Acadia 1.5” Leveling 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.

This suspension system was developed using a 235/55R20 tire on the factory 20” wheel. If 245/60R20 tires are used trimming may be required and the lower strut plate will need to be modified. Due to manufacturing, dimension variances, and inflation, all tire and wheel combinations should be tested prior to installation on all oversized / wider then stock tires and wheels.

⚠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.

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

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KIT CONTENTS:
Upper Strut Spacer x2
Lower Preload Spacer x2
Camber Bolt Kit x1

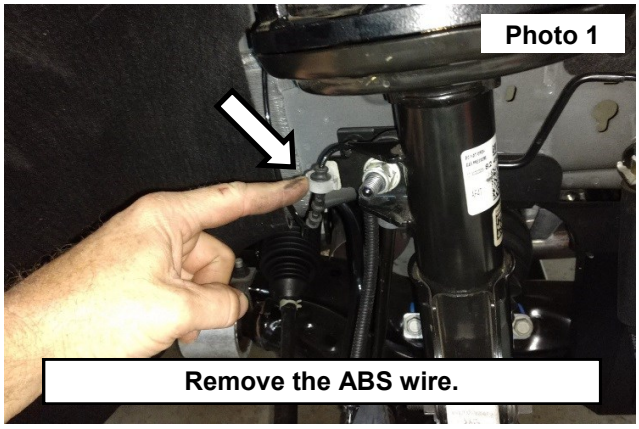
TOOLS NEEDED:
13mm Wrench or Socket
14mm Wrench or Socket
15mm Wrench or Socket
17mm Wrench and Socket
18mm Wrench or Socket
21mm Socket
T50 Torx Bit
Spring Compressor
Jack Stands
Jack

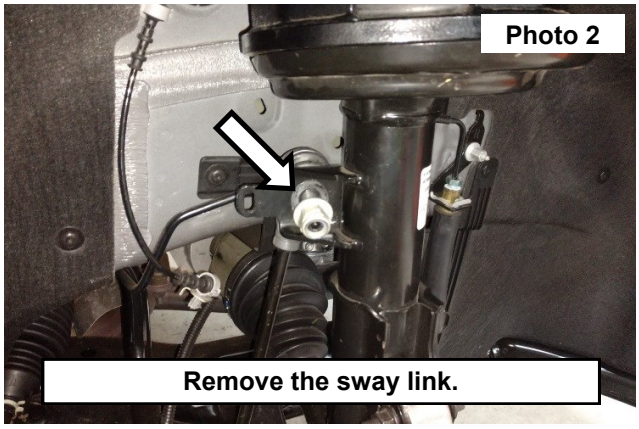
HARDWARE INCLUDED:
8mm X 1.25 X 50mm Hex Head Bolt x6
8mm Flat Washer x6
8mm Lock Washer x6
10mm-1.5 X 55mm Hex Head Bolts x2
10mm Flat Washer x4
10mm-1.5 Nylock Nut x2



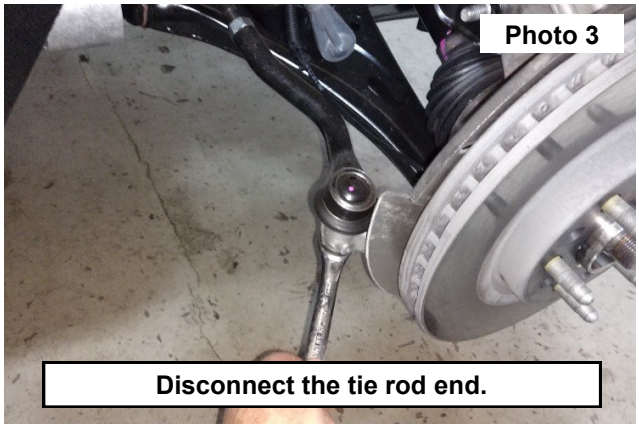
INSTALLATION INSTRUCTONS

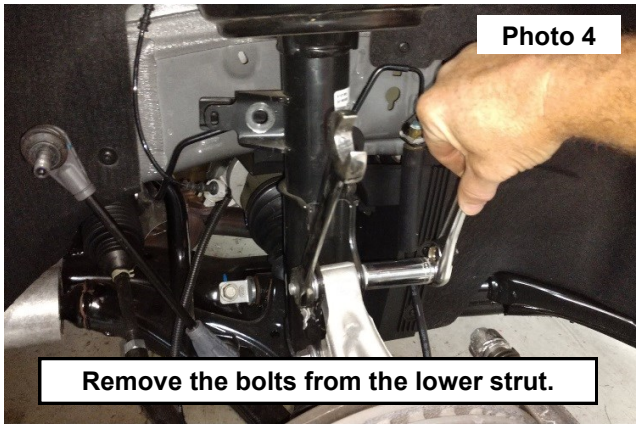
1. Using a jack lift the front of the vehicle up, then lower it down onto jack stands.
2. Remove the wheels and tires.
3. Remove the abs wiring clip from the sway link mount. **See Photo 1.**
4. Remove the sway link from the strut using a 18mm socket. **See Photo 2.**



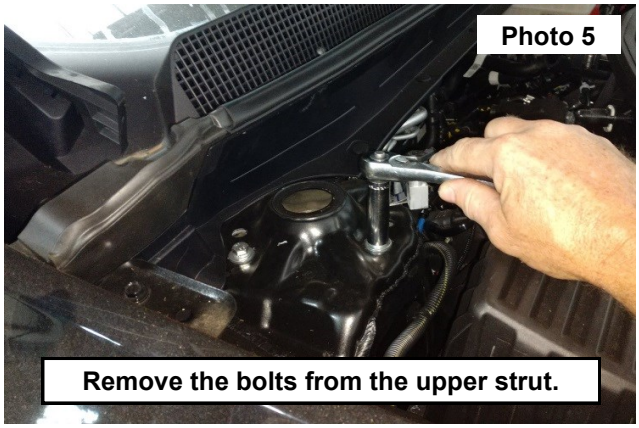


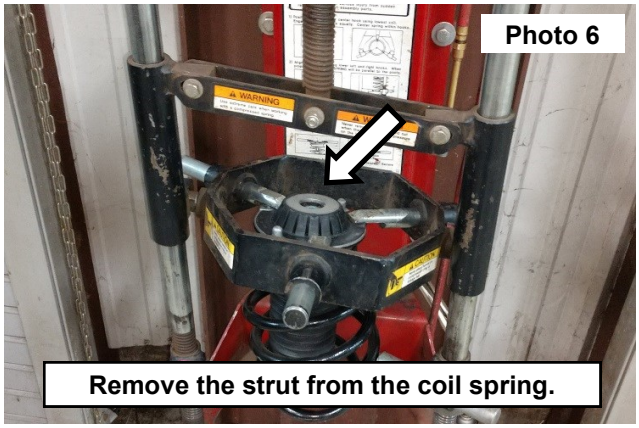
5. Using an 18mm wrench loosen the tie rod end nut. Use a hammer to unseat the taper. Then remove the nut. Retain hardware. **See Photo 3.**
6. Remove the nuts from the 2 lower strut bolts using a 18mm wrench and socket. **See Photo 4.** Retain hardware.





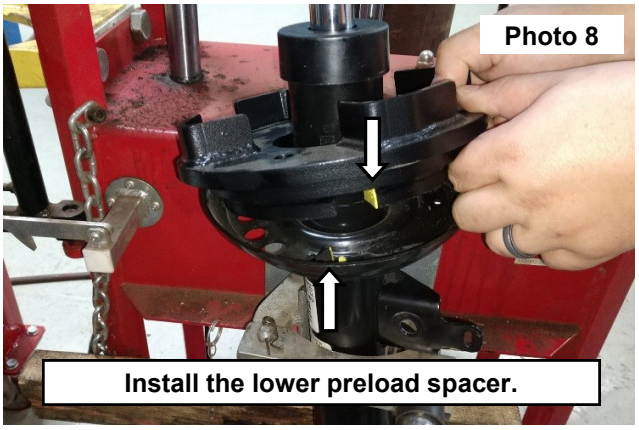
7. Remove the (3) bolts from the upper strut using a 13mm socket. Then remove the strut from the vehicle. **See Photo 5.**
8. Secure the strut in a spring compressor.
9. Compress the coil spring to relieve the pressure off of the strut. Then use a T50 Torx bit and a 21mm socket to remove the nut securing the strut to the coil spring. **See Photo 6.**



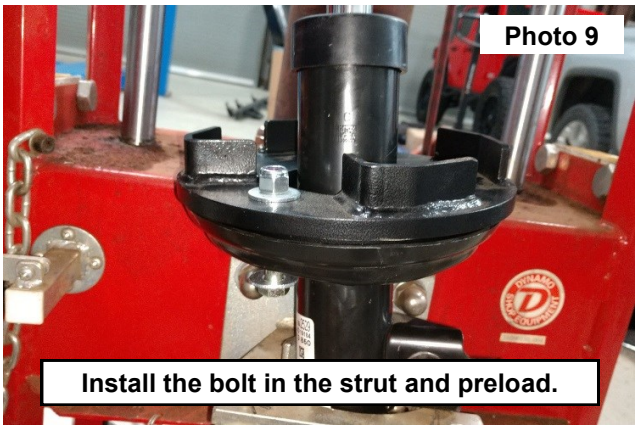


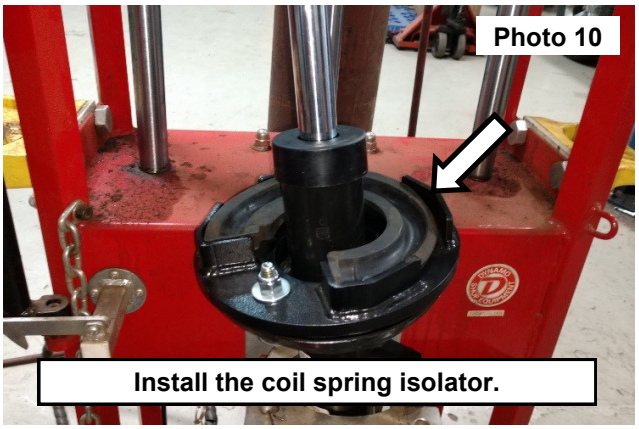
10. Remove the rubber isolator from the coil spring seat. **See Photo 7.**
11. Install the lower preload spacer onto the strut. Align the notch on the bottom of the preload spacer and the raised tab on the strut. **See Photo 8.**



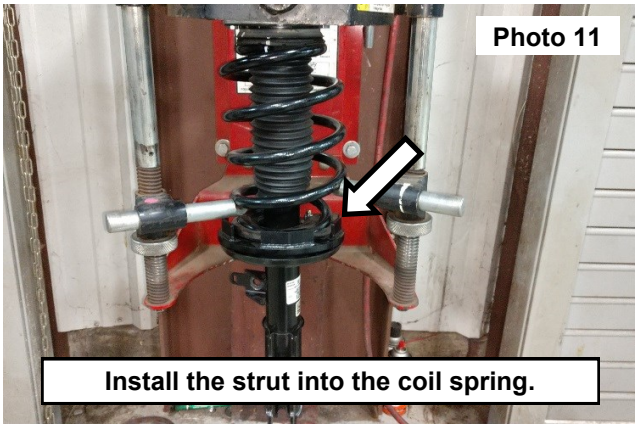


12. Secure the preload spacer using (1) of the supplied 10mm-1.5 X 55mm hex head bolt (2) 10mm flat washers and (1) 10mm-1.5 Nylock Nut. **See Photo 9.**
13. Tighten the preload spacer using a 17mm wrench and socket. Then install the rubber isolator into the preload spacer. **See Photo 10.**



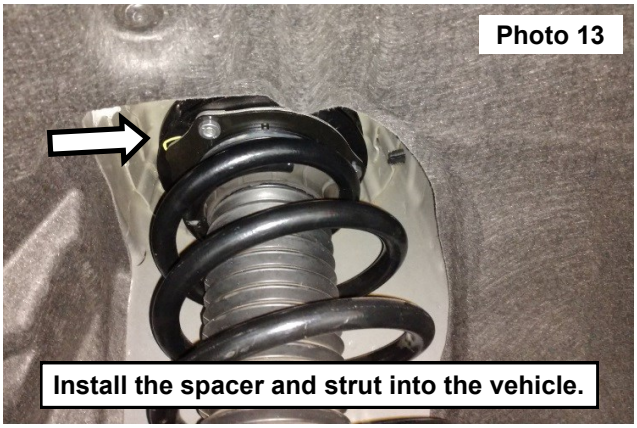


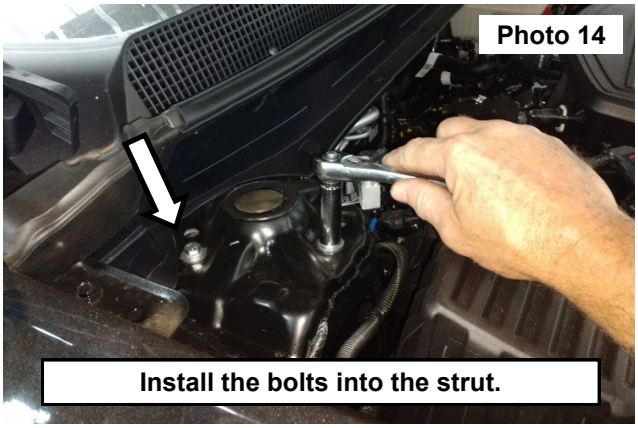
14. Install the strut into the coil spring. Secure using the OE nut. **See Photo 11.**
15. Install the upper strut spacer onto the strut. Align the (2) large holes onto the alignment dowels on the top of the strut. **See Photo 12.**



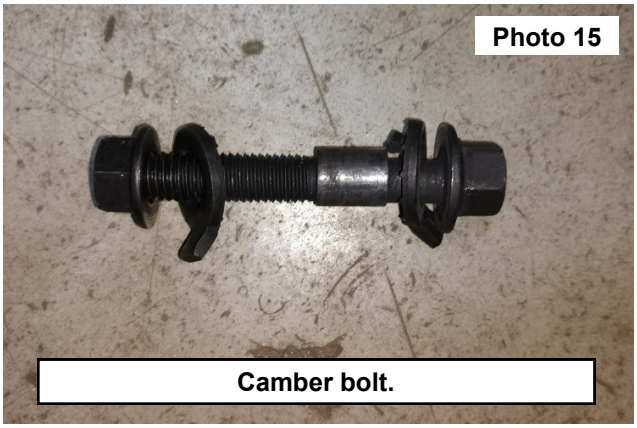


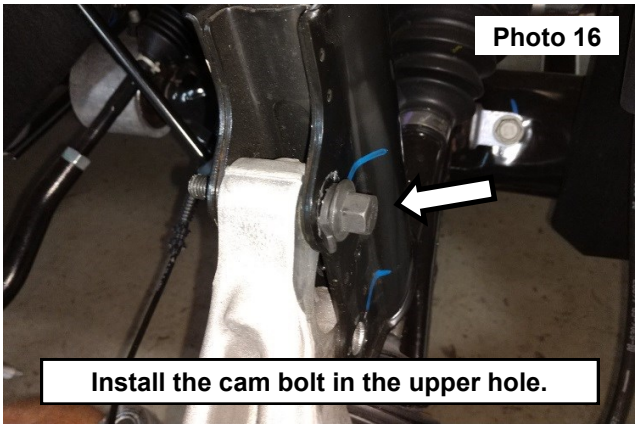
16. Install the strut and spacer into the vehicle. **See Photo 13.**
17. Secure the strut in the vehicle using (3) the supplied 8mm-1.25 x 50mm hex head bolts, 8mm lock washers and 8mm flat washers. Tighten using a 13mm socket. **See Photo 14.**



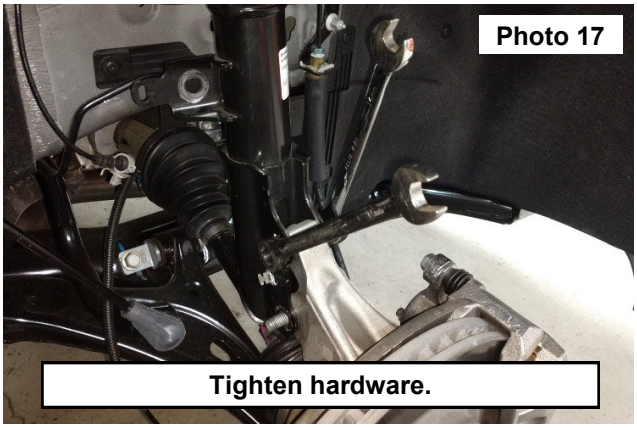


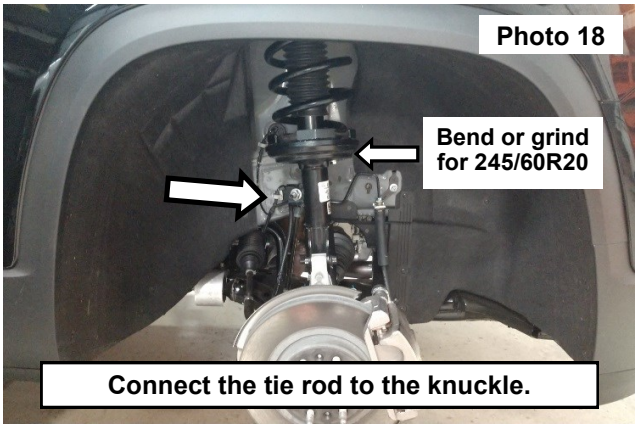
18. Locate the upper camber bolt. Shown in photo 15. Then install the lower strut assembly onto the knuckle using the supplied camber bolt in the upper hole and the OE bolt in the lower hole. **See Photos 15 and 16.**





19. Install the OE bolt in the lower hole and tighten using a 18mm wrench and socket. Tighten the upper cam bolt using a 14mm wrench and a 15mm socket. **See Photo 17.**
20. Connect the tie rod end to the knuckle. Tighten using an 18mm socket.
21. Connect the sway link to the strut mount. Tighten using an 18mm socket.
22. Install the ABS wiring clip into the strut mount. **See Photo 18.**
23. Repeat steps 3-22 on the opposite side of the vehicle.
24. Install the wheels and tires, use a jack to lift the front of the vehicle up, remove the jack stands. then lower the vehicle onto the ground. **NOTE: If installing 245/60R20 tires, the lower strut plate will need to be modified by bending it upward with a hammer or grinding to make clearance with the tire. See Photo 18**.







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