

ROUGH COUNTRY

SUSPENSION SYSTEMS®

2016 - 2018 (Stamped Arms) 2.5" Strut Lift GM 1500

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

Rough Country recommends that 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 all the instructions before beginning the installation. Check the kit hardware against the "Kit Contents" list below. We will be happy to answer any questions concerning this product. Check all fasteners for proper torque. Check to ensure for adequate clearance between all components. Check and retighten wheels at 50 miles and again at 500 miles. Periodically check all hardware for tightness. Be sure you have all the needed parts and understand where they go. Also, please review the "Tools Needed" list to be certain you have the necessary tools to complete the installation.

PRODUCT USE INFORMATION

▲WARNING As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend that seat belts and shoulder harnesses be worn at all times. Braking performance and capabilities are decreased when significantly larger/heavier tires and wheels are used. Do not add, alter, or fabricate any factory or after-market parts which increase vehicle height over the intended height of the Rough Country product purchased. 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.

TIRE FITMENT

This kit was developed using a 285/70/r17 for a no rub on factory wheels. Due to differences in manufacturing, dimension and inflated measurements, tire and wheel combinations should be test fit prior to installation.

NOTICE TO DEALER AND VEHICLE OWNER

▲NOTICE Any vehicle equipped with any Rough country product must have the "Warning to Driver" decal installed on the sun visor or dash. The decal is to 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 to forward these installation instructions on too the vehicle owner for review and to be kept in the vehicle for its service life.



TOOLS NEEDED:

Jack
Safety Stands
Wheel Chocks

Metric Wrench/Socket

10mm
18mm
21mm
22mm

KIT CONTENTS:

Loaded Strut (2)
Rear Block (2)
U-Bolts (4)

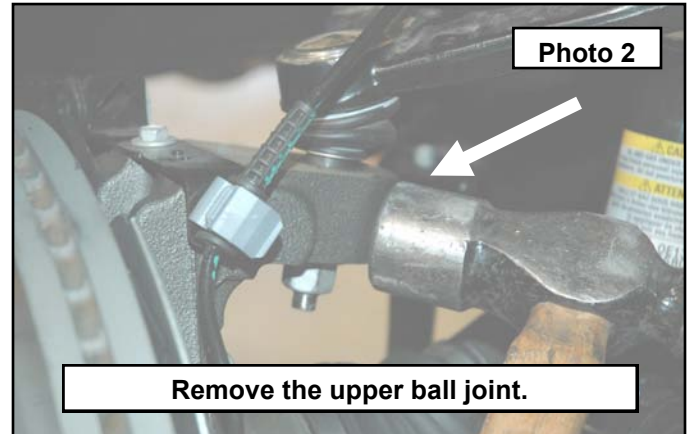
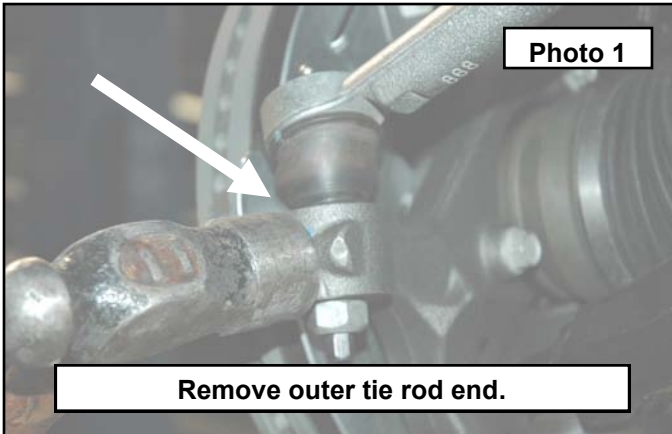
HARDWARE INCLUDED:

U-Bolt Hardware Bag (1)

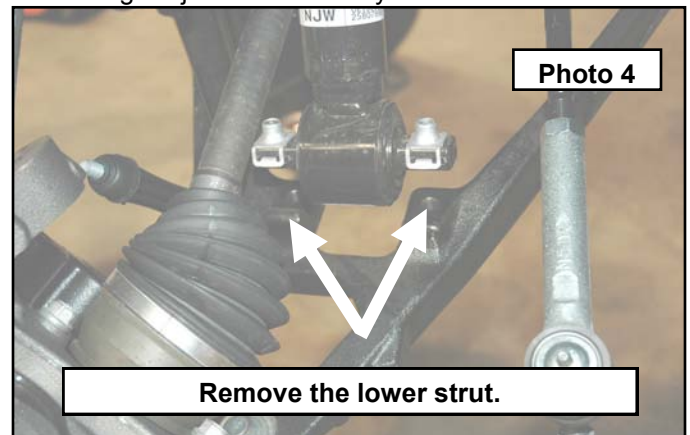
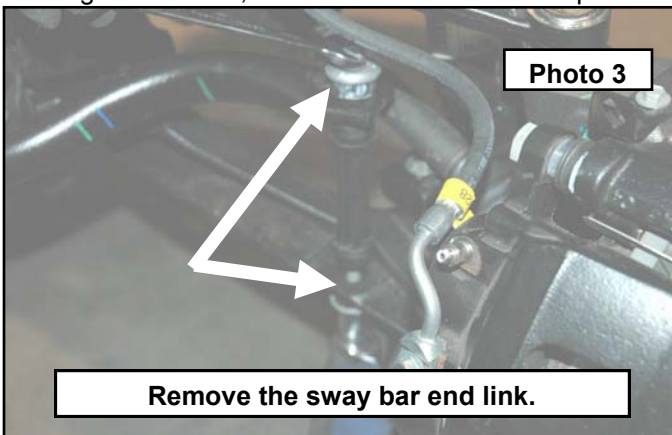


Front Installation

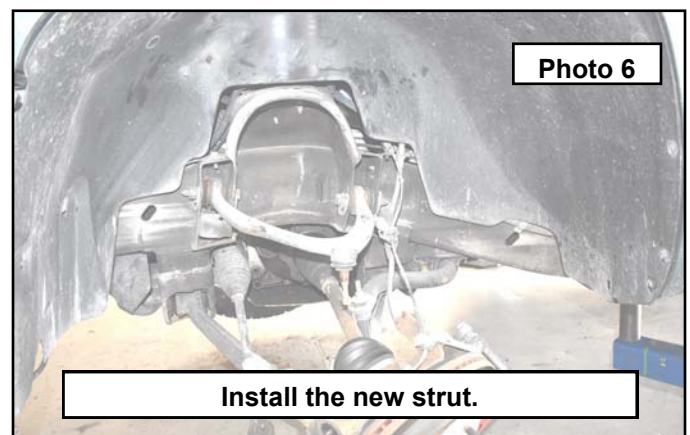
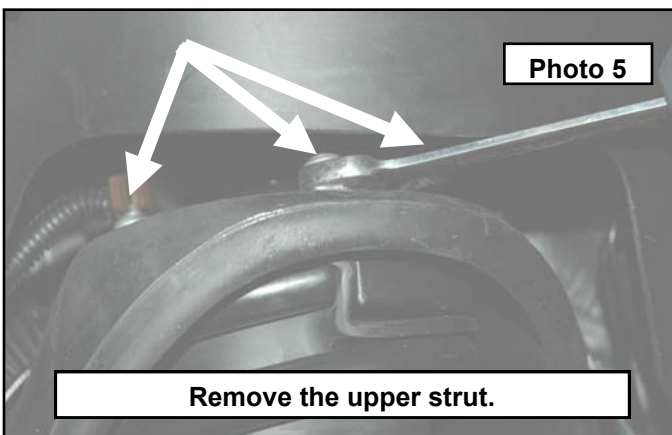
1. Park your vehicle on a clean flat surface, engage the parking brake and block the rear tires.
2. Jack the front of the vehicle up and place safety stands at the indicated lift points for the frame in the service manual. Remove the front wheels and set aside.
3. **Save all hardware removed from the vehicle unless otherwise noted.**
4. Open the hood and disconnect the negative terminal on the battery.
5. Remove the ABS and brake line brackets from the upper control arm and the knuckle using a 10mm socket. Let hang out of the way.
6. Remove the outer tie rod end from the knuckle using a 21mm wrench. Strike the boss on the knuckle with a hammer to dislodge the taper. **Photo 1**
7. Support the lower control arm with a jack and remove the upper ball joint from the knuckle using a 18mm wrench. Strike the boss on the knuckle with a hammer to dislodge the taper. Take care when allowing the knuckle to droop out that you do not overextend the CV axle, brake and ABS lines. **Photo 2**



8. Loosen the upper and lower control arm at the frame using 18mm, 21mm, and 24mm wrenches.
9. Remove the sway bar end link from the lower control arm and sway bar using 15mm wrenches. **Photo 3**
10. Remove the lower strut from the lower control arm using a 15mm wrench. Lower the control arm down while watching the CV axle, brake and ABS lines to keep them from overextending. Adjust as necessary. **Photo 4**



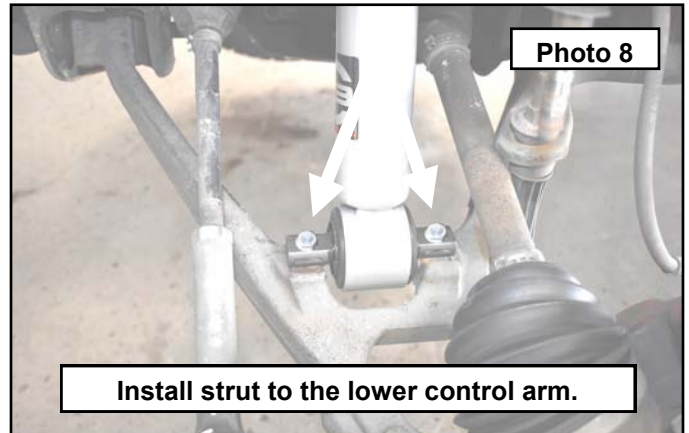
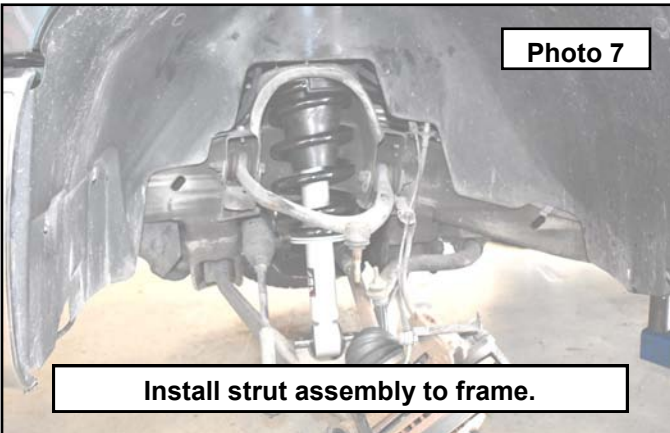
11. Remove the wire harness from the upper strut mounting studs by prying the clips up and away. Remove the strut upper hardware using a 18mm wrench. **Photo 5**
12. Remove the strut from the vehicle. **Photo 6**



13. Install the new strut assembly with spacer to the frame using the factory hardware. DO NOT tighten at this time.

Photo 7

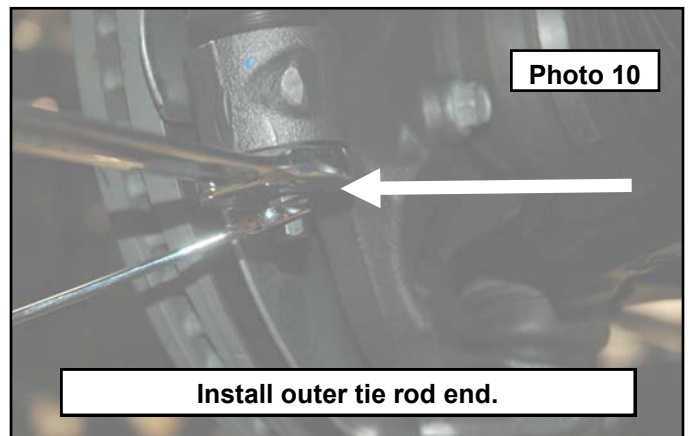
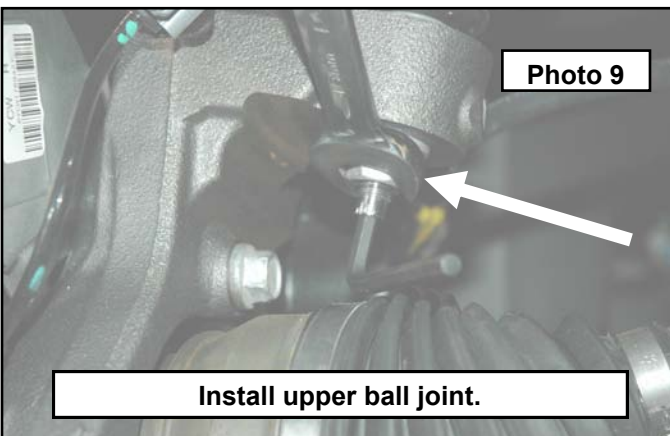
14. Raise the lower control arm up to meet the strut lower cross pin. Install the provided 10mm bolts, washers, and nuts making sure to install the bolts with their heads above the strut. **Photo 8**



15. Reinstall the upper ball joint to the knuckle using the factory hardware and 18mm wrench. If the ball joint spins and the nut will not tighten, use an Allen wrench to keep the stud from turning. You can also use a pry bar against the top of the control arm to pry down as you tighten the nut if you cannot get the Allen wrench in place. Torque to **65 ft-lbs.**

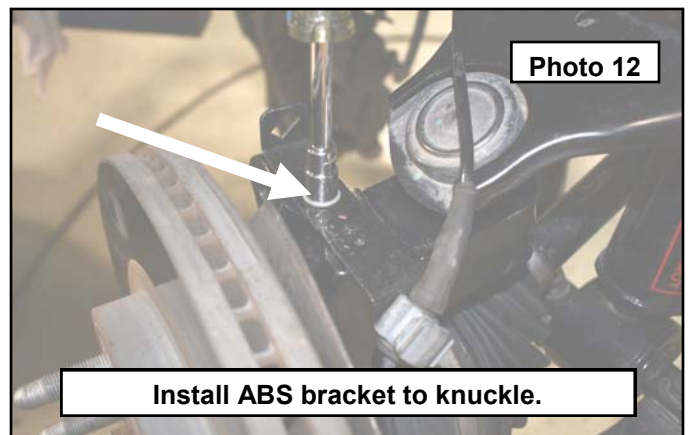
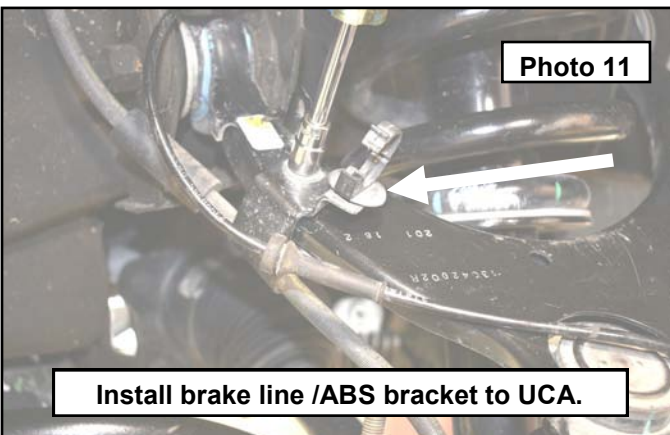
Photo 9

16. Reinstall the outer tie rod to the knuckle using the factory hardware and 21mm wrench. If the stud spins and the nut will not tighten, use a 10mm wrench to keep the stud from turning. Torque to **85 ft-lbs.** **Photo 10**



17. Reinstall the brake line, and ABS bracket to the upper control arm using the factory hardware and 10mm wrench. Torque to **5 ft-lbs.** Photo 11

18. Reinstall the ABS bracket to the knuckle using the factory hardware and 10mm wrench. Torque to 5 ft-lbs. Photo 12



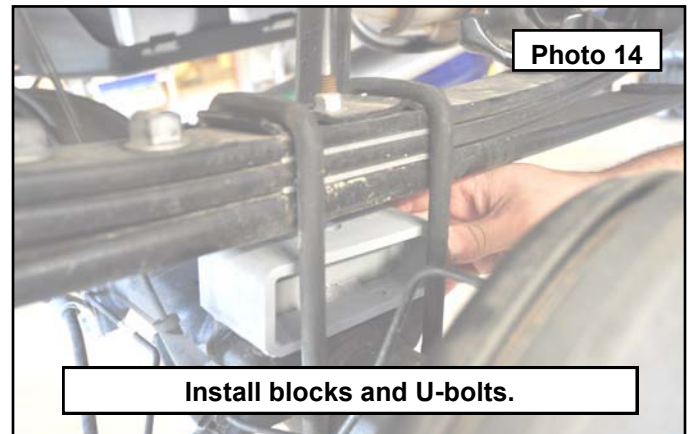
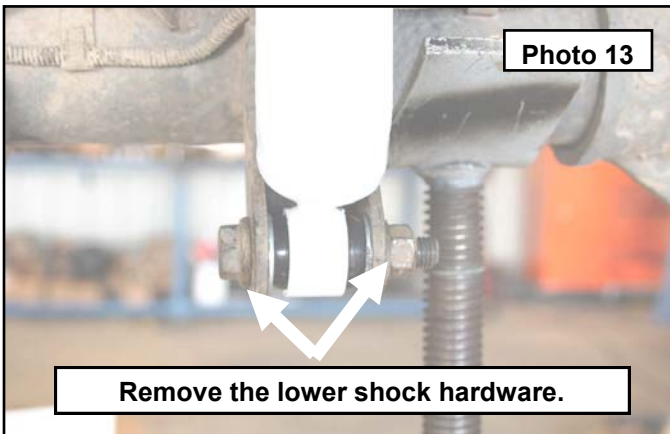
19. Install the wheels/tires and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturer's specs.

Rear Installation

1. Block the front wheels. Jack the front of the vehicle up and place safety stands at the indicated lift points for the frame in the service manual. Remove the rear wheels and set aside.
2. Place a jack under the axle for support. Remove the lower shock mount hardware using a 18mm socket and wrench.

Photo 13

3. Starting with one side of the axle, loosen but do not remove the U-bolt nuts. On the opposite side, remove the U-bolts completely and discard all. Lower the axle just enough to install the lift block. Raise the axle up and install the provided U-bolts and hardware. DO NOT fully tighten at this time. Repeat the steps for the opposite side. Failure to install in this order can lead to a bind in the axle/leaf springs that will make it difficult to install the opposite side and lead to a bad thrust angle when it is time for the alignment. Once both blocks and all U-bolts are installed, torque the U-bolts in a crisscross pattern to **90 ft-lbs**. **Photo 14**



4. Reinstall the lower factory shock and hardware but do not tighten at this time.
5. Install the wheels/tires and lower the vehicle to the ground.
6. Reconnect the negative terminal at the battery.
7. Start the vehicle making sure there are not any dash lights pertaining to suspension. Cycle the steering from lock to lock making sure that all clearances between wheel/tire, suspension and body panels are good. Adjust as necessary.
8. Roll the vehicle forward and backwards a few feet to get it to settle to the new ride height. Once the vehicle is settled, center the upper control arm cams and torque to **120 ft-lbs** (final torque to be set by alignment technician), torque the lower control arm hardware to **145 ft-lbs**, and the rear lower shock hardware to **65 ft-lbs**.
9. Have the alignment set by a reputable alignment shop to the provided numbers below.

FRONT	DRIVER	PASSENGER	TOLERANCE
CAMBER	+0.0	+0.0	+/-0.5
CASTER	+3.0	+3.0	+/-0.5
TOE	+0.5	+0.5	+/-0.05

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.