



Installation Manual
2013 - 2017 Subaru Crosstrek
1.5" lift system
Part # 51700

SS11142018

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1.5" lift system

Part #	Description	Qty.
51700-01	Front strut spacer	2
51700-02	Rear strut spacer	2
51700NB	Hardware bag	1
51700-03	2.00" x .595" x 1.510" spacer	4
51700-04	1.250" x .515" x 1.510" spacer	4
51700-05	.750" x .320" x 1.500" spacer	4
51700INST	Instruction manual	1

51700NB Hardware Bag

Part #	Description	Qty.
M860B	8mm x 60mm 1.25 bolt	10
M1060B	10mm x 60mm 1.25 bolt	8
M14220B	14mm x 220mm 1.50 hardened bolt	4
M14WA	14mm flat washer	4

Congratulations on your selection to purchase a Tuff Country EZ-Ride Suspension System. We at Tuff Country EZ-Ride Suspension are proud to offer a high quality product at the industries most competitive pricing. Thank you for your confidence in us and our product.

The Tuff Country EZ-Ride Suspension product safety label that is included in your kit box must be installed inside the cab in plain view of all occupants.

Make sure to use thread locker or loctite on all new and stock hardware associated with the installation of this suspension system.

After the completion of the installation, a complete vehicle alignment is required.

Important customer information:

Tuff Country EZ-Ride Suspension highly recommends that a qualified or a certified mechanic performs this installation.

It is the responsibility of the customer/installer to wear safety glasses at all times when performing this installation.

It is the customers/installers responsibility to read and understand all steps before installation begins. If you have any questions or concerns, please contact our technical department @ (801) 280-2777. Also, the OEM manual should be used as a reference guide.

This vehicles reaction and handling characteristics may differ from standard cars and/or trucks. Modifications to improve and/or enhance off road performance may raise the intended center of gravity. Extreme caution must be utilized when encountering driving conditions which may cause vehicle imbalance or loss of control. **DRIVE SAFELY!** Avoid abrupt maneuvers: such as sudden sharp turns which could cause a roll over, resulting in serious injury or death.

It is the customers responsibility to make sure that a re-torque is performed on all hardware associated with this suspension system after the first 100 miles of installation. It is also the customers responsibility to do a complete re-torque after every 3000 miles or after every off road use.

After the original installation, Tuff Country EZ-Ride Suspension also recommends having the alignment checked every 6 months to ensure proper tracking, proper wear on tires and front end components. Tuff Country EZ-Ride Suspension takes no responsibility for abuse, improper installation or improper suspension maintenance.

IMPORTANT!

This kit will NOT work on vehicles equipped with Air Suspension. If your vehicle is equipped with this type of suspension, please contact the company you purchased the lift kit from and arrange for returning the parts.

Limited lifetime warranty

Notice to all Tuff Country EZ-Ride Suspension customers: It is your responsibility to keep your original sales receipt! If failure should occur on any Tuff Country EZ-Ride Suspension component, your original sales receipt must accompany the warranted unit to receive warranty. Warranty will be void if the customer can not provide the original sales receipt. Do not install a body lift in conjunction with a suspension system. If a body lift is used in conjunction with any Tuff Country EZ-Ride Suspension product, your Tuff Country EZ-Ride Suspension WARRANTY WILL BE VOID. Tuff Country Inc. ("Tuff Country") suspension products are warranted to be free from defects in material and workmanship for life if purchased, installed and maintained on a non-commercial vehicle; otherwise, for a period of twelve (12) months, from the date of purchase and installation on a commercial vehicle, or twelve thousand (12,000) miles (which ever occurs first). Tuff Country does not warrant or make any representations concerning Tuff Country Products when not installed and used strictly in accordance with the manufacturer's instructions for such installation and operation and accordance with good installation and maintenance practices of the automotive industry. This warranty does not apply to the cosmetic finish of Tuff Country products nor to Tuff Country products which have been altered, improperly installed, maintained, used or repaired, or damaged by accident, negligence, misuse or racing. ("Racing is used in its broadest sense, and, for example, without regards to formalities in relation to prizes, competition, etc.) This warranty is void if the product is removed from the original vehicle and re-installed on that or any other vehicle. This warranty is exclusive and is in lieu of any implied warranty of merchantability, fitness for a particular purpose or other warranty of quality, whether express or implied, except the warranty of title. All implied warranties are limited to the duration of this warranty. The remedies set forth in this warranty are exclusive. This warranty excludes all labor charges or other incidental or consequential damages. Any part or product returned for warranty claim must be returned through the dealer of the distributor from whom it was purchased. Tuff Country reserves the right to examine all parts returned to it for warranty claim to determine whether or not any such part has failed because of defect in material or workmanship. The obligation of Tuff Country under this warranty shall be limited to repairing, replacing or crediting, at its option, any part or product found to be so defective. Regardless of whether any part is repaired, replaced or credited under this warranty, shipping and/or transportation charges on the return of such product must be prepaid by the customer under this warranty.

Before installation begins, Tuff Country EZ-Ride Suspension highly recommends that the installer performs a test drive on the vehicle. During the test drive, check to see if there are any uncommon sounds or vibrations. If uncommon sounds or vibrations occur on the test drive, uncommon sounds or vibrations will be enhanced once the suspension system has been installed. Tuff Country EZ-Ride Suspension highly recommends notifying the customer prior to installation to inform the customer of these issues if they exist.

This Suspension kit comes with (1) installation manual and some post installation procedure literature and it is the installers responsibility to make sure that the customer receives the post installation procedure literature. If a customer would like a copy of the installation manual, please have them visit our website at www.tuffcountry.com. Have them go to the customer care section to download these instructions. If you have any questions, please feel free to call us at (801) 280-2777.

Our tire and wheel fitments are only a guideline. Different production times or tolerances will vary and this size should only be used as a starting point. Each vehicle is different and will need to be treated as such.

Recommended tool selection:

Wall Mounted Strut Compressor
Torque wrench
Standard socket set
Standard wrench set
Metric socket set
Metric wrench set
Tape Measure

With the vehicle sitting on a level surface and under its own weight, record ride height measurements by measuring from the center of the wheel hub up to the leading edge of the front fender. Record measurements below.

Pre Installation Measurements:

Driver side front : _____

Passenger side front : _____

Driver side rear : _____

Passenger side rear : _____

Post Installation Measurements:

Driver side front : _____

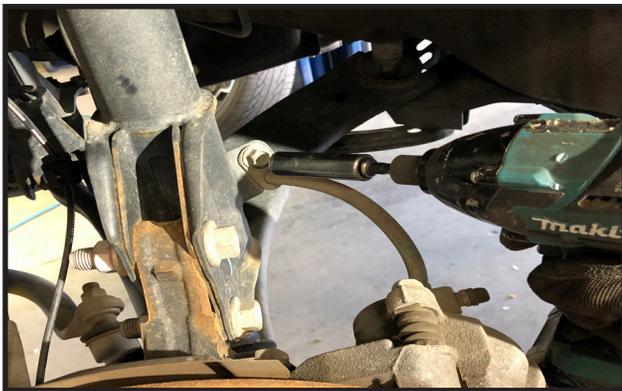
Passenger side front : _____

Driver side rear : _____

Passenger side rear : _____

1. To begin installation, block the rear tires of the vehicle so that the vehicle is stable and can't roll. Safely lift the front of the vehicle and support both the driver and passenger side frame rail with jack stands. Remove the tires and wheels from both sides.

2. Un-bolt the front brake line bracket from the strut. save the hardware.



3. Locate and un-clip the ABS wire from the strut mount.



4. Remove the 2 bolts that attach the strut to the steering knuckle and carefully lean the steering knuckle out of the way.



5. Working under the hood in the engine compartment, make a mark on the top of the strut and the strut tower, so the strut can be installed back into its same location. locate and remove the 3 nuts from the upper strut mount. **Special note: make sure someone is holding onto the strut so that it doesn't fall out uncontrollably.**



6. Take the strut to a vice or work bench and carefully knock out the 3 OE upper studs.



7. Locate the new 51700-01 strut spacer and install it on the top of the strut plate making sure to line the 3 holes up. Secure the new spacer using the 3 new 8mm x 60mm bolts. Torque bolts to 28 ft lbs.



8. Re-install the strut into the vehicle using your marks to make sure it is in the same orientation that it was removed from. Secure using the OE nuts. Torque to 28 ft lbs.

9. Re-assemble the front end by reversing the order of steps 2-8. Repeat on the passenger side of the vehicle.

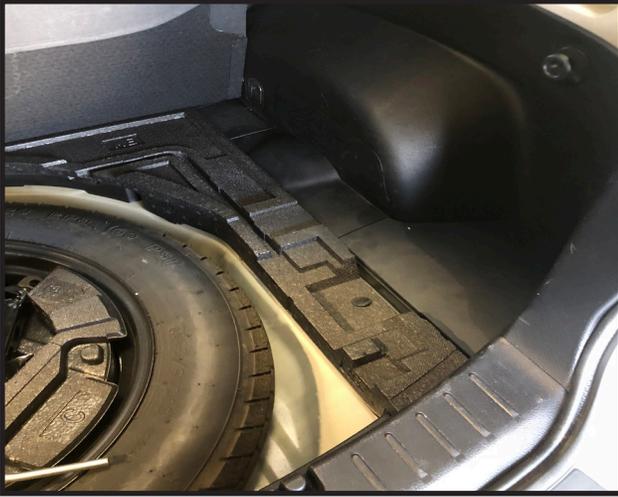
10. Re-install the tires and wheels and torque lug nuts according to manufacturer's specifications. Carefully remove the jacks and lower the vehicle back down to the ground.

Front End installation complete.

Rear installation:

11. To begin installation, block the front tires of the vehicle so that the vehicle is stable and can't roll. Safely lift the rear of the vehicle and support both the driver and passenger side frame rail with jack stands. Remove the tires and wheels from both sides.

12. Located in the rear trunk of the vehicle is the upper strut mounts. You will need to lift up the access to the spare tire and on each side, remove the foam sound dampening material.



13. Now remove the plastic access panels that are located at each rear wheel well in the truck.



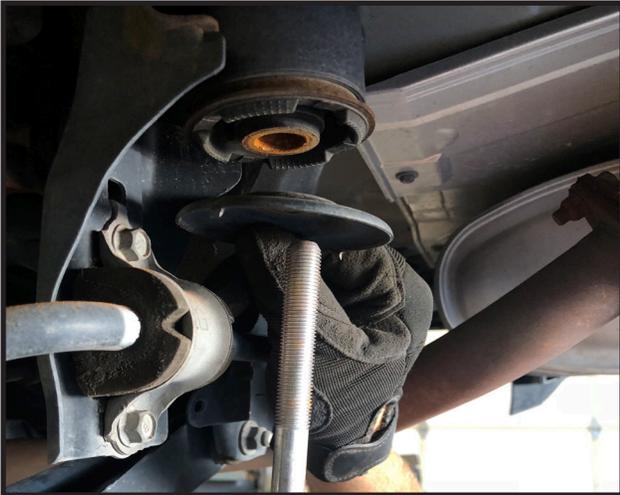
14. You should see the 2 upper strut mount nuts. Remove them from both the driver and passenger side rear struts.



15. Working under the rear of the vehicle, Locate the trailing brackets on both the driver side and passenger side. Remove the 2 bolts that attach them to the body of the vehicle.



16. Locate the (4) main subframe mounting bolts and remove them. These are located at each corner of the rear subframe.



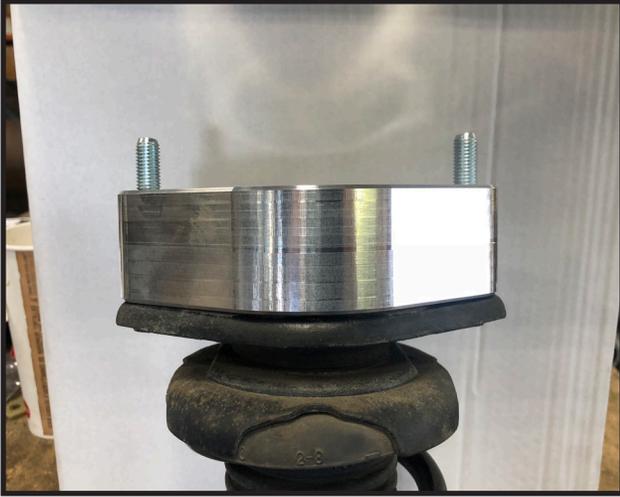
17. Remove the lower strut mounting bolts and completely remove the struts from the vehicle.



18. Take the struts to the work bench or vice and carefully hammer out the OE studs from the top of the strut.



19. Locate the new 51700-02 rear strut spacers and also locate (4) 10mm x 60mm bolts. Install the new spacers on the top of the struts using the new metric bolts. Torque bolts to 35 ft lbs.



20. Re-install the struts to the vehicle using the OE hardware and just start hand tight for now.

21. Locate (4) 2.00" x .595" x 1.510" spacer sleeves, (4) 14mm x 220mm 1.50 hardened bolts, and (4) 14mm flat washers. Install the spacer sleeves at each corner of the sub frame to space it from the body. Hand start the 14mm bolts at this time.



22. Locate (4) 1.250" x .515" x 1.510" spacer sleeves, and

(4) 10mm x 60mm 1.25 bolts. Install the spacer sleeves using the new bolts at the trailing brackets that were removed in step # 15. torque to 35 ft lbs.



23. Torque the (4) 14mm subframe bolts to 100 ft lbs.

24. Move back to the struts and torque the upper nuts to 35 ft lbs, and the lower bolts to 45 ft lbs.

25. Re-assemble the plastic access panel, foam material, and spare tire cover in the rear trunk.

26. Some vehicle years and models will have an extra body brace bracket on the rear of the vehicle, this kit includes the small spacers and new bolts to space those brackets from the body.

27. Re-install the tires and wheels and carefully lower the vehicle back down to the ground.

Congratulations, installation complete!

After the completion of this installation, Tuff Country EZ-Ride Suspension recommends taking the vehicle to an alignment shop and having the proper front end alignment performed.

Tuff Country Ez-Ride Suspension recommends that a complete re-torque is done on all the bolts associated with this suspension system. It is the customers responsibility to make sure that a re-torque is performed on all hardware associated with this suspension system after the first 100 miles of the installation. It is also the customers responsibility to do a complete re-torque after every 3000 miles or after every offroad use.