



Installation Manual
2005-2019 Toyota Tacoma
Leveling Kit
Part # 52915

ZS07312019

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Leveling kit

Part #	Description	Qty.
52915-01	Tacoma 2" Strut Spacer	2
S10051	Diff Drop Sleeve	2
S10025	Skid Plate Spacer	4
52915NB	Includes	1
38FLN	3/8 Flange Nut	6
126B	1/2 x 6 Bolt	2
716WA	7/16 Washer	2
12UN	1/2 Unitorque Nut	2
M8501.25B	8MM x 50MM 1.25 Bolt	4
14WA	1/4 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.

If you desire to return your vehicle to stock, it is the customers responsibility to save all stock hardware and components.

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.

Special note: **BEFORE** installation begins, it is the customers/installers responsibility to make sure that all parts are on hand. If any parts are missing, please feel free to call one of our customer service representatives @ (801) 280-2777.

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. Usually OE alignment specs are ideal but on these particular kits we like to see the Castor a little bit lower than specs. It will help with tire wear and drivability.

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; other-

wise, 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. Important information that needs to be read before installation begins:

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.

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 rec-

ommends notifying the customer prior to installation to inform the customer of these issues if they exist.

Tuff Country recommends using loctite on all new and stock hardware associated with the installation of this suspension system.

Due to the different variation of the stock strut spring rate, height after installation of the spacer may vary. Any questions please feel free to contact Tuff Country or your local Tuff Country dealer.

Tuff Country recommends a 31 x 10.5 sized tire once part # 52915 has been installed. If larger than a 31" tire is installed on your vehicle in conjunction with part # 52915, Tuff Country assumes no liability and the warranty will be VOID. Due to different types of tread patterns, some aggressive tires in this size recommendation may require slight trimming of inner fender plastic. **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 tools selection:

- Torque wrench
- Standard socket set
- Standard wrench set
- Metric socket set
- Metric wrench set
- Tape measure
- Hydraulic floor jacks
- Measuring Caliper

Please follow these instructions carefully:

Before installation begins, measure from the center of the wheel hub, to the bottom of the fender well, and record measurements below.

Pre-installation measurements:

Driver side front: _____
Passenger side front: _____
Driver side rear: _____
Passenger side rear: _____

At the end of the installation take the same measurements and compare to the pre-installation measurements.

Post-installation measurements:

Driver side front: _____
Passenger side front: _____
Driver side rear: _____
Passenger side rear: _____

Front end installation:

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 the vehicle with a pair of jack stands. Place a jack stand on both the driver and the passenger side frame rail. Next, remove the front wheels and tires from both sides.

2. Locate the two bottom bolts on the front Skid Plate.



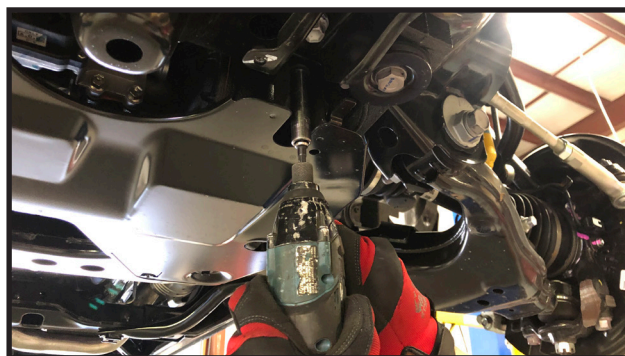
3. Remove the two lower skid plate bolts.



4. Remove the front upper skid plate bolts. Then remove skid plate. Save OE skid plate and hardware.



5. Remove the two front bolts on the lower skid plate.



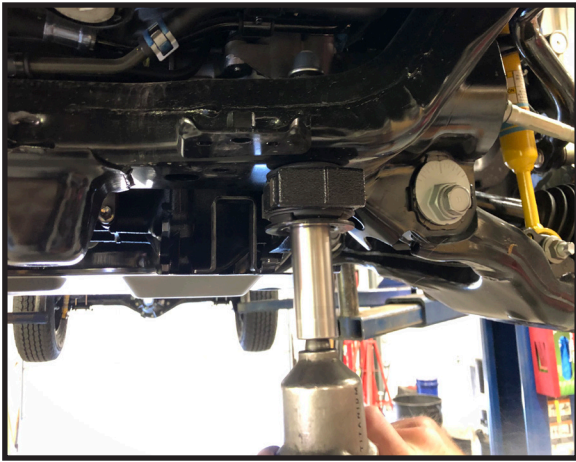
6. On the driver side front diff mount. There is a OE skid plate brace, That you will need to clearance to drop the diff.



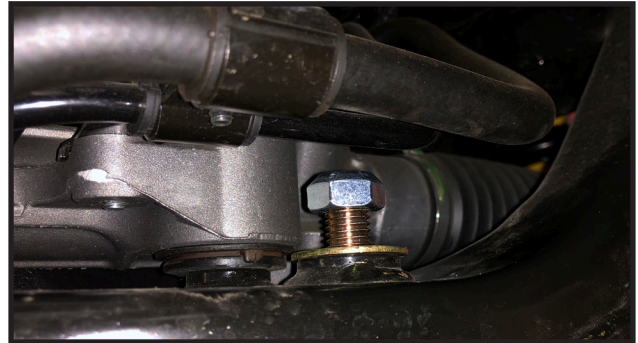
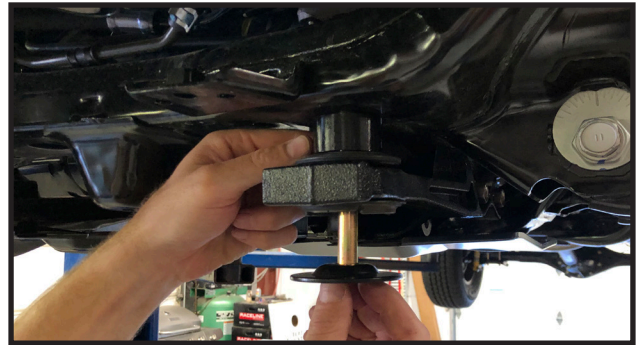
7. Once you have marked the brace like shown in the photo above. Using a grinder to clearance the marked area.



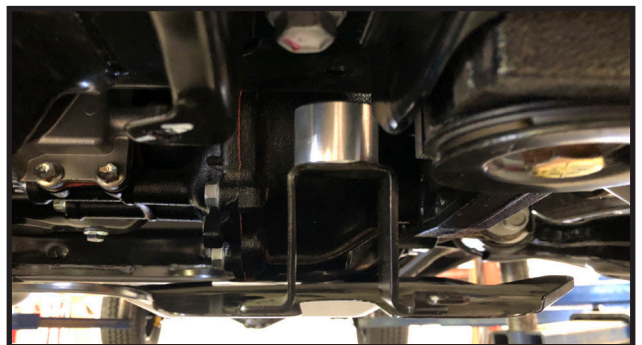
8. Remove driver and passenger side front diff mount bolts. Save big washers.



9. Locate two of part # S10051, Two of part # 126B, Two of part # 12UN, And two of part # 716WA. Install the S10051 in between the driver and passenger diff mount and frame. Install OE big washer on 126B bolt and install with 716WA and 12UN. Tighten hardware to **45 ft-lb.**



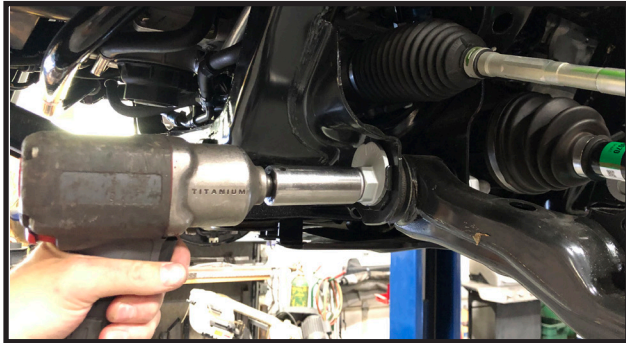
10. Locate two of part # S10025, Two of part # M8501.25B, And two of part # 14WA. Install S10025 between lower skid plate mount.



11. Install part # M8501.25 and 14WA, Tighten to **12 ft-lb.**



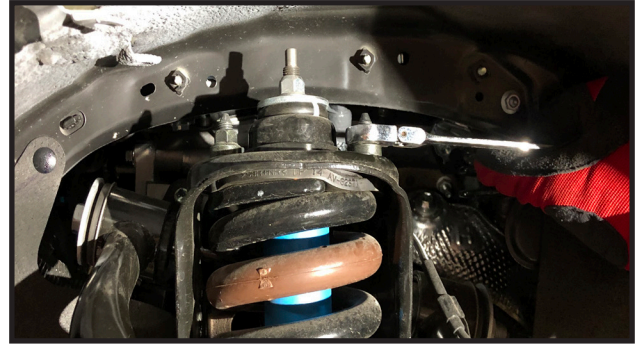
12. Working on driver side. Loosen the front and rear cam bolts on the lower control arm. Repeat on passenger side.



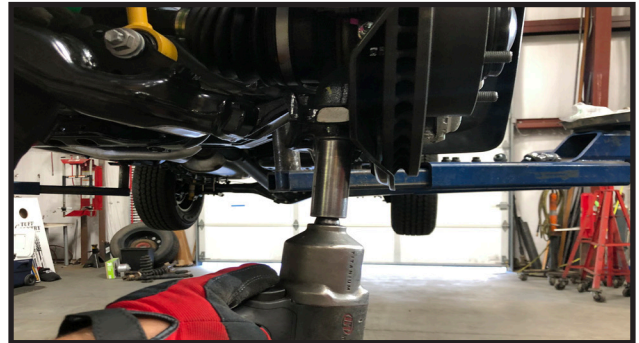
13. Remove lower strut mount hardware on driver and passenger side. Save hardware.



14. Remove the three nuts on the top strut mount. Save hardware.



15. Remove the two bolts that bolt the lower ball joint to the steering knuckle. Save Hardware.



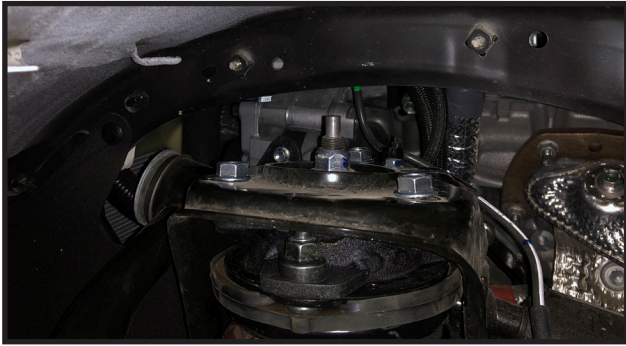
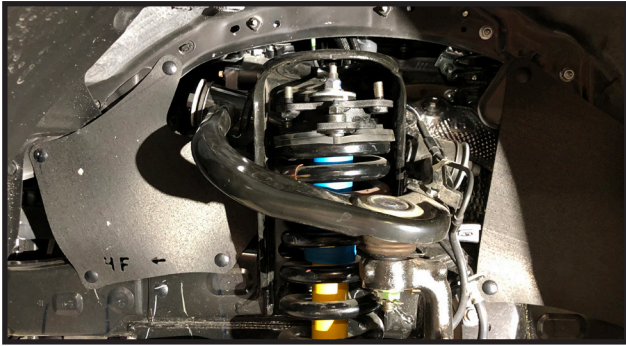
16. Lower the lower control arm down so you can remove the strut from the bottom.



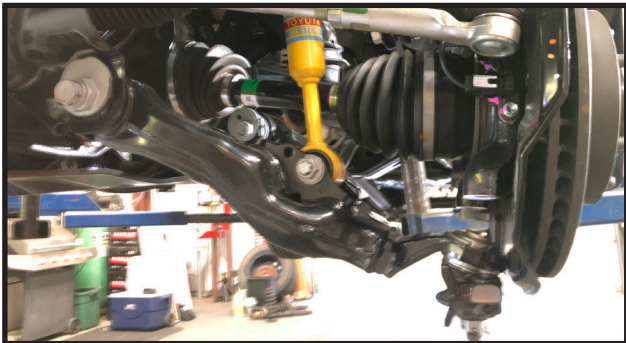
17. Locate part # 52915-01 and the three OE upper strut nuts. And install on to the strut. Tighten to **36 ft-lb.** **Special note. If OE strut studs are higher than the new spacer. Grind off the tip of the studs.**



18. Locate the 3/8 flange nuts and reinstall the strut into the upper strut mount. leave nuts loose.



19. Raise the lower control arm up and reattach it to the strut. leave the lower strut mount loose.

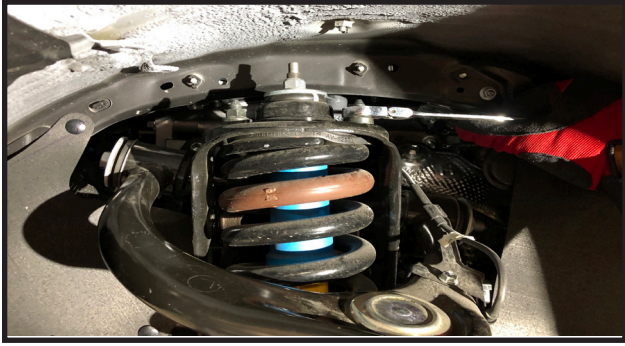


20. Reattach the the two lower ball joint bolts into the steering knuckle. Tighten to **120 ft-lb**



21. Re-install the tires and wheels and torque the lug nuts according to the wheel manufacturer's specs. Carefully lower the vehicle back down to the ground. Tighten the front and rear lower control arms to **140 ft-lb**. Tighten the lower strut mount to **120 ft-lb**. Tighten the three 3/8 flange nuts on the top strut mount to **30 ft-lb**.





22. Working with the OE front skid plate. hang the skid plate on the upper front hooks.



23. Locate two of part # S10025 sleeves, Two of part # M8501.25B, And two of part # 14WA. Install the two sleeves between the skid plate and frame using the new hardware. Tighten to **15 ft-lb**



Installation Complete!

Check and double check to make sure that all steps were performed properly. After the completion of this install, Tuff Country Recommends taking the vehicle in for a complete front end alignment.

Tuff Country EZ-Ride Suspension recommends that a complete re-torque is done on all 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 the system after the first 100 miles of installion. It is also the Customers responsibility to do a complete re-torque after every 3,000 miles or after every off road use. Neglect of following these steps could cause brackets to come loose and cause serious damage to the suspension system and to the vehicle.