



## Installation Manual

**3" suspension system**

**2007 - 2017**

**Toyota Tundra 4WD & 2WD**

**Part # 53072**

SS02182017

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**2007 - 2017 Toyota Tundra 4WD & 2WD  
3" Suspension System (no strut disassembly)**

<b>Part #</b>	<b>Description</b>	<b>Qty.</b>
54070-01	front strut spacer	2
5U-247S	9/16" x 2 9/16" x 9 5/8" u-bolt	4
916NW	ubolt hardware bag	1
52925-04	rear block	2
S10051	1.750" x .510" x .950" sleeve	2
S10090	1.000" x .500" x .400" sleeve	3
126B	1/2" x 6" bolt	2
12UN	1/2" uni torque nut	2
38NLN	3/8" Nylon locking nut	8
516WA	5/16" flat washer	8

**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.**

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

Tuff Country recommends a 33" x 12.50" tire with this system. The stock tires and wheels can be used in conjunction with this lift kit. **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.**

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.

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

Recommended tools selection:

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

Please follow instructions carefully:

Before installation begins, measure from the center of the 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 backwards. 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. Next, remove the front wheels and tires from both sides.

2. Remove the skid plate from the OE location. Save the hardware and skid plate.



3. Working on the driver side, remove the hardware that attaches the front portion of the differential to the OE mounts. Save the over size washer on the head side of the bolt. Repeat procedure on the passenger side.



4. Locate (2) S10051 sleeves. Also, locate (2) 1/2" x 6" bolts, and (2) 1/2" unitorque nuts. Working on the driver side, install the new spacer between the differential and the OE mount and secure using the new 1/2" hardware, make sure to use the OE over size washer on the head side of the bolt. Repeat procedure on the passenger side. Move back to the new hardware hardware on the driver and passenger side and add some loctite and torque to **55 ft lbs.**



5. Place a pair of hydraulic floor jacks under the driver and passenger side lower control arm. Carefully raise up on them until they come into contact with the lower control arm. **You can do one side at a time if it works better for you.**

6. Unbolt the sway bar end links from the lower control arm, save the bolts for later reinstallation.

7. Working on the driver side remove the 2 lower bolts that attach the steering knuckle to the lower balljoint. Repeat on the passenger side.

8. Loosen, but do not remove the lower control arm Cam adjustment bolts.

9. Working on the driver side, remove the 4 nuts on top of the strut. **NOTE: make sure the floor jack is still supporting the lower control arm so everything doesn't suddenly drop out.** Repeat on passenger side



10. Working on the driver side, remove the lower mounting hardware that attaches the strut to the lower control arm. Save the hardware. Carefully lower down on the hydraulic floor jack allowing removal of the strut easier. Remove the strut and set aside. Repeat procedure on the passenger side.



11. Carefully remove the struts from the vehicle.



12. Locate the new upper strut spacers. Also locate the OE upper strut nuts that were removed in step #8. Install the strut spacers on top of the struts and secure using the OE nuts.

13. Locate the (8) 3/8" nylon lock nuts and the (8) 5/16" flat washers. Reinstall the struts into the vehicle and loosely install the new hardware.

14. Carefully raise up on the floor jack enough to reinstall the lower strut bolt. Torque to **150 ft lbs**

15. Move back to 3/8" nuts on top of the struts and tighten them to **35 ft lbs.**

16. Carefully raise up on the lower control arms enough to reinstall the 2 lower balljoint bolts to the steering knuckles.

17. Reinstall the sway bar endlinks to the lower control arms using the OE bolts.

18. Retorque the lower control arm Cam adjustment bolts to **150 ft lbs.**

19. Locate the S10090 spacer sleeves and reinstall the front skid plate using the OE hardware and spacer sleeves on the rear portion of the skid plate.

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

## Front end Installation complete!

Rear Installation:

21. To begin installation, carefully block the front tires and wheels so that the vehicle can not roll forward. Safely lift the rear 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. Next, remove the rear wheels and tires from both sides.

22. Place a hydraulic floor jack under the driver and passenger side of the rear axle.

23. Working on the driver side, remove and save the lower shock hardware. Repeat on the passenger side



24. Working on the driver side, remove the u-bolts from the OE location. The u-bolts and hardware may be discarded. Place the lower u-bolt plate aside. Repeat procedure on the passenger side.



25. Carefully lower down on both hydraulic floor jacks at the same time allowing enough room for the rear blocks to be installed. **Special note: Take special care not to over extend any brake lines and/or hoses.**

26. Locate (2) new rear blocks. Working on the driver side, install the new block into the stock location. Repeat procedure on the passenger side. Carefully raise up on both hydraulic floor jacks at the same time until the spring assembly sits flush with the newly installed block.



27. Locate (4) 9/16" x 2 9/16" x 9 5/8" square u-bolts. Locate (8) 9/16" u-bolt high nuts and (8) u-bolt washers from hardware bag 916NW. Also, locate the lower u-bolt plates. Working on the driver side, install the new u-bolts into the stock location and secure using the new 9/16" high nuts and washers. **Special note: If need be, cut off the excess threads off each leg of the newly installed u-bolts.** Torque to 120 ft lbs. Repeat procedure on passenger side.



28. Reinstall the lower shock mounting locations using the OE hardware.

29. Carefully remove the (2) hydraulic floor jacks from under the rear differential.

30. Check and double check and check again to make sure all steps have been performed properly with the rear end.

31. Install the tires and wheels and carefully lower the vehicle to the ground.

**Congratulations, installation complete!**

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

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 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. Neglect of following these steps could cause brackets to come loose and cause serious damage to the suspension system and to the vehicle.