



Installation Manual
2022 Toyota Tundra
3" Suspension Lift Kit
Part # 53220

zs08092022

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3" Suspension Lift Kit

Part #	Description	Qty.
52220-01	TUNDRA STRUT SPACER	2
M23469	FRONT PRE LOAD SPACER	2
M23457-BK-01	REAR COIL SPRING SPACER	2
S10122	REAR LOWER SHOCK SPACER	2
38FLN	3/8" FLANGE NUT	8
*M00393-BK-01	Shock Bushing hour glass 3/4" ID	2
53220INST	INSTRUCTION MANUAL	1

* Included only in kits that are purchased with Tuff Country Shock Absorbers

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; 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:

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 recommends 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.

*Part # 53220 does not work with the following Models. Pro Series models, Models equipped with Adaptive Variable Suspension (AVS) system.

**OE rear shock absorbers will be too short to work properly once this kit has been installed. It is recommended to get new rear shocks that are made for a 1"- 2" Rear lift.

Tuff Country recommends a 35" Maximum tire diameter

35x12.50 tall tires when used on 18"x9" wide wheels with a +12mm offset. 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
- Wall Mounted strut compressor

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: _____

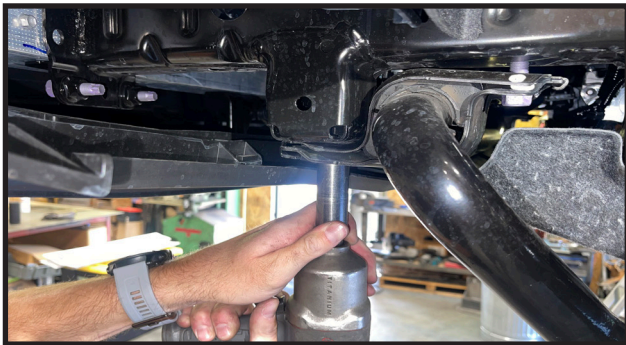
Driver side rear: _____

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. Working on the sway bar. Loosen but do not remove the bolts that hold the sway bar to the frame on the driver and passenger side.



3. Remove the lower sway bar endlink hardware on the driver and passenger lower control arms.



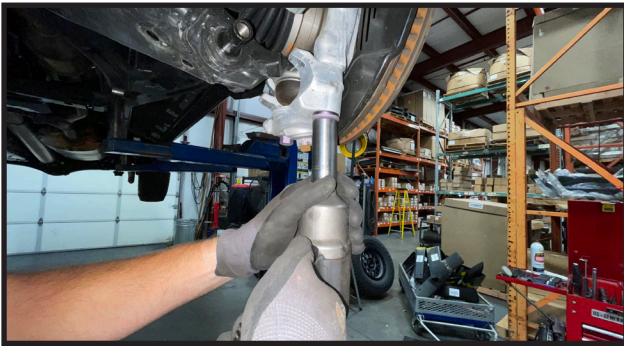
4. Remove the lower strut mounting hardware on the driver and passenger side.



5. Loosen but do not remove, the lower control arm cam bolt hardware on the driver and passenger side.



6. Remove the two bolts that attach the the lower ball joint to the bottom of the steering knuckle, Pivot the lower control arm down out of the way.



7. Remove the top strut mounting hardware to remove the struts.



8. Using a strut compressor. Mark the top hat and coil spring before removing the retaining nut.

9. Remove the top hat retaining nut, then release the spring pre load. And remove top hat.



10. Pull off the OE rubber spring isolator and discard it.



11. Locate and install the new strut pre-load spacer in place of the OE rubber isolator.



12. Re-assemble the top hat of the strut making sure to line up your reference marks from step #8. Carefully compress the strut and re-install the OE nut.

13. Take the strut back to a work bench, or even into a vise to hold it. Locate and install the new upper strut spacer onto the top of the strut assembly. Secure using the OE nuts.



14. Install the strut back into the vehicle and LOOSLY start the new 3/8" flange nuts on the new upper strut spacers.

15. Loosen the upper control arm bolt, on the driver and passenger side to allow it to pivot downwards.



16. Using a large screw driver or suitable prying tool to fit in the eyelet of the lower strut mount, carefully turn the shock body so that it will line up with the lower mounting pockets of the lower control arm.



17. Pivot lower control arms back up to the lower struts, Re attach to strut using OE hardware. **Torque to 140 ft lbs.**



18. Using OE hardware. Re install lower control arms to the bottom of the steering knuckle. **Torque to 140 ft lbs.** Repeat on passenger side.



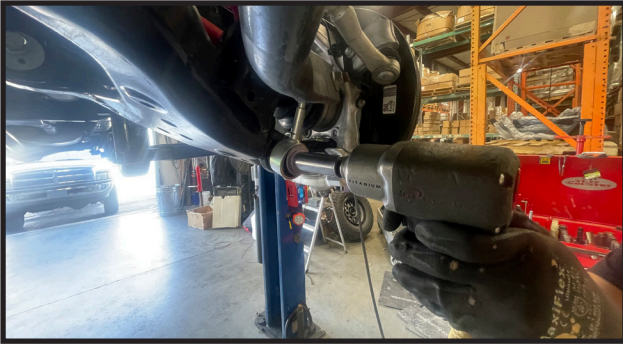
19. Tighten the upper control arm bolts. **Torque bolts to 130 ft lbs.** Repeat on the passenger side.



20. Tighten the upper strut mounting hardware. **Torque to 50 ft lbs.** Repeat on passenger side.



21. Re install Sway bar end links to lower control arm. **Torque to 70 ft lbs.**



22. Tighten sway bar frame mount. **Torque to 70 ft lbs.**



23. Tighten the lower control arm cam bolt hardware on the driver and passenger side. **Torque to 150 ft lbs**



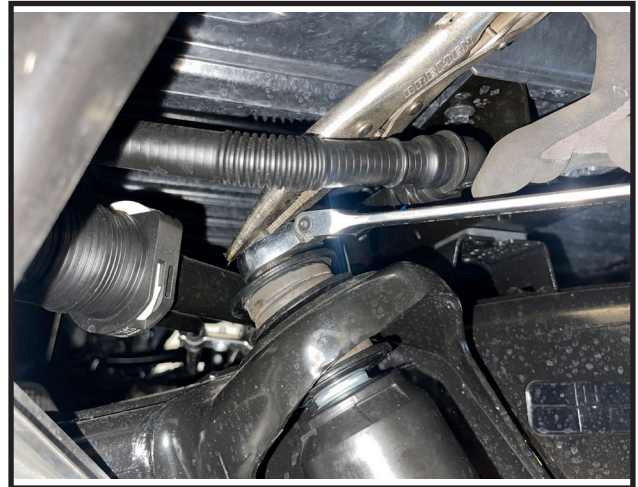
24. Re install the tires and wheels and torque the lug nuts according to the wheel manufacture's specs. Carefully lower the vehicle back down to the ground.

Front End Complete.

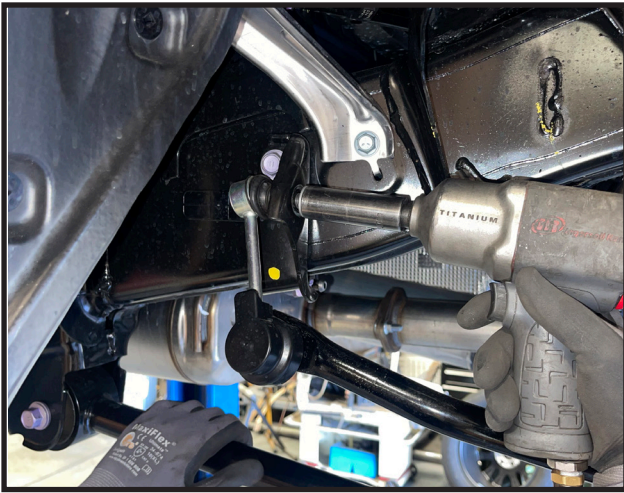
Rear Installation

25. 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 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 rear wheels and tires from both sides.

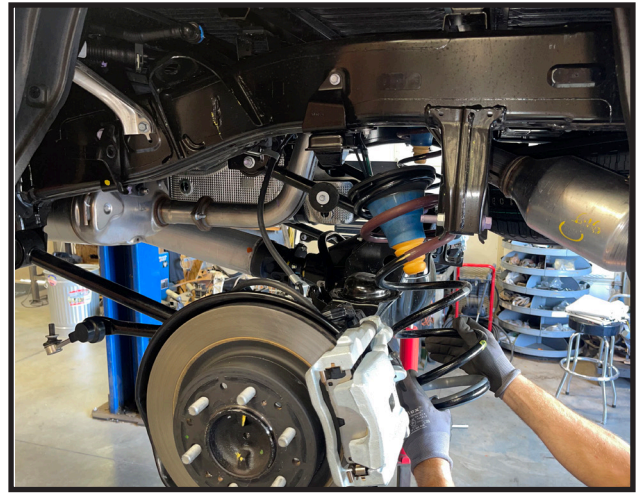
26. Remove both of the rear shock absorbers from the vehicle.



27. Remove the rear sway bar endlink mounting hardware from the frame location on both sides of the vehicle.



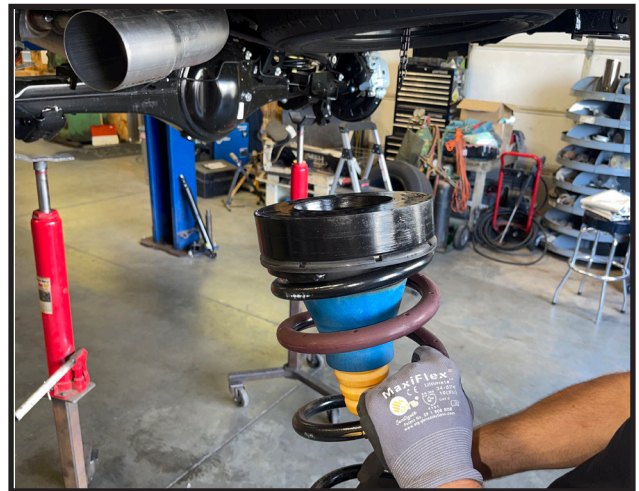
28. Working on the track bar axle mount on the passenger side, remove the OE bolt and hardware. Save the hardware



31. Locate the new rear coil spacers and install on the top of the OE rear coils and bump jouncers.



29. On the driver side of the axle housing, locate the ABS sensor wire and remove the mounting hardware from the axle bracket. Save hardware.



32. Re-install the coil springs back into the vehicle.



30. Carefully lower the rear axle down enough that the OE rear coil springs can be removed.

33. At this time, Locate the new rear shock absorbers. **SPECIAL NOTE: If you have not purchased new shocks for the rear, the OE shocks will be too short to work properly. Tuff Country Suspension recommends a shock that is made for a 1" -2" suspension lift.**

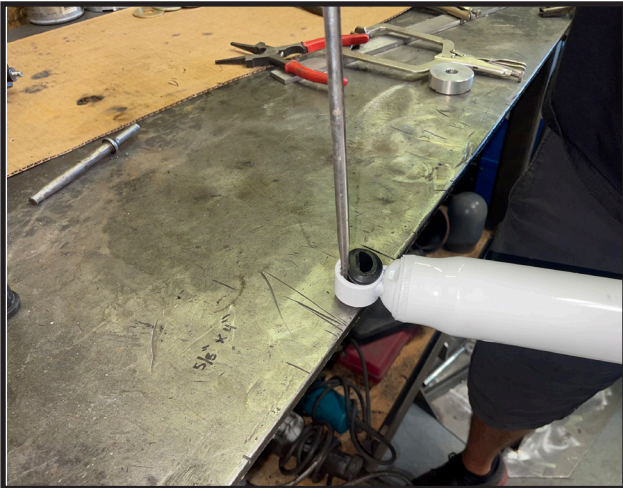
34. Install the new shock spacer sleeve over the OE lower shock mount. It will be a tight fit and may need to be slightly hammered on to get into place.



36. Install the new shock absorbers using the OE bolt on the lower mount and new hardware from your new shock on the top mounting location.



35. If you are using Tuff Country shock absorbers, You will need to remove the Lower barrel style bushings and replace them with the included hour glass style bushings. The easiest way to do this, is use a flat head screwdriver to wedge in between the bushing and the eyelet and pry the bushing out.



New bushing going in:



37. Re-install the ABS wire mount on the driver side axle mount.



38. Re-install the swaybar endlinks into the frame mounts using the OE hardware.



39. Re-install the rear track bar hardware at the axle mount on the passenger side of the axle housing. **Special Note:** Some may find it easier to perform this step with the vehicle sitting back on the ground with the tires and wheels. Otherwise, you will need to pry the rear axle slightly over to perform this step.

40. Re-install the tires and wheels and torque the lug nuts according to the wheel manufacture's specs. Carefully lower the vehicle back down to the ground.

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. erious damage to the suspension system and to the vehicle.