

# **EZ - Ride Suspension**

### Part # 52008 2004 - 2008 Nissan Titan 1.5" front leveling kit

<u>Description</u>	<u>Qty.</u>
Front strut spacers	2
Hardware bag	1
Instruction manual	1
Rear view mirror hanger	1
Warning decal	1
	Front strut spacers Hardware bag Instruction manual Rear view mirror hanger

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.

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.

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.

# **Installation manual**

1.5" front leveling kit 2004 - 2008 Nissan Titan Part # 52008

sj071408rev.01

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.

#### 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 of 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 285/70 tire package. If larger than a 285/70 tire package is installed on your vehicle in conjunction with part # 52008; Tuff Country assumes no liability and the warranty will be VOID.

Tuff Country EZ-Ride Suspension packages some post installation procedure literature and it is the installers responsibility to make sure that the customer receives a copy of the installation manual along with the literature.

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

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.

Hardware bag D2P-NB includes:

<u>Description</u>	<u>Quantity</u>

38NLN (3/8" nylon lock nut) 516WA (5/16 USS flat washer) 6

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:

the hub, to the bottom of the fender well, and record will help break the stock taper. Take special care not to measurements below.

Pre-installation measurements:

Driver side front:	
Passenger side front:	

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:			

#### 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. Working on the driver side, remove the stock cotter pin from the stock upper control arm ball joint nut. Save the stock cotter pin. Repeat procedure on the passenger side.



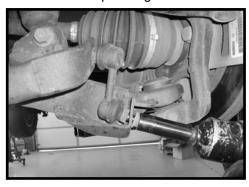
stock nut connecting the stock upper ball joint to the stock knuckle. Repeat procedure on the passenger side.



4. Working the driver side, carefully break the stock taper on the stock upper control arm and the stock knuckle. Special Before installation begins, measure from the center of note: Carefully hitting the stock knuckle with a hammer damage the stock upper ball joint boot. Do not remove the stock nut at this point. Repeat the procedure on the passenger side.



5. Working on the driver side, remove the stock lower sway bar end link hardware. Set the stock hardware aside. Remove the stock end link from the stock lower control arm. Repeat procedure on the passenger side.



- 6. Working on the driver side, make a reference marking the driver side strut. Repeat procedure on the passenger side. Special note: This is done because once the new spacers are installed on top of the stock struts, the driver side strut is going to be installed on the passenger side and the passenger side strut is going to be installed on the driver side.
- 7. Working on the driver side, remove the (3) stock nuts holding the stock strut into the stock upper location. Save the 3. Working on the driver side, loosen but do not remove the stock hardware. Repeat procedure on the passenger side.



8. Working on the driver side, remove the stock lower mounting hardware that connects the stock strut to the stock lower control arm. Save the stock hardware. Repeat procedure on the passenger side.





- 9. Working on the driver side, move back to the stock nut hardware. **Do not tighten at this point.** Repeat holding the stock upper control arm to the stock knuckle and remove. Save the stock hardware. Repeat procedure on the passenger side.
- 10. Working on the driver side, remove the stock strut from the stock location and set aside. If you did not do so, make sure to place a reference mark on the driver side strut so you know that the driver side strut will be installed on the passenger side of the vehicle once the new spacers have been installed. Repeat procedure on the passenger side.



11. Locate the new strut spacers and the stock hardware. Working on the driver side strut, install the new spacer on top of the stock strut and secure using the stock hardware. Make sure to use thread locker or loctite and torque to **48 ft lbs**. Repeat procedure on the passenger side strut.





12. Locate (6) 3/8" nylon lock nuts and (6) 5/16" USS flat washers from hardware bag D2P-NB. Working on the driver side, install the modified passenger side strut into the stock upper driver side location and secure using the new 3/8" hardware. **Do not tighten at this point.** Repeat procedure holding the stock upper control arm to the stock knuckle and on the passenger side with the driver side strut.



13. Locate the stock lower strut mounting hardware. Working on the driver side, secure the stock strut to the stock lower location and secure using the stock hardware. Make sure to use thread locker or loctite and torque to **95 ft lbs.** Repeat procedure on the passenger side.



14. Locate the stock lower sway bar end link hardware. Congratulations, installation complete! Working on the driver side, install the stock end link into the stock location and secure using the stock hardware. Make Special note: After the completion of the installation, sure to use thread locker or loctite and torque to 42 ft lbs. Repeat procedure on the passenger side.



Locate the stock upper control arm mounting hardware. Working on the driver side, attach the stock upper control upper control arm down so that it can be attached to the stock knuckle. Repeat procedure on the passenger side.



- 16. Working on the driver side, torque the stock upper control arm nut to 95 ft lbs. Repeat procedure on the passenger side.
- 17. Locate the stock upper control arm cotter pins. Working on the driver side, install the stock cotter pins into the stock location. Special note: If the stock cotter pins can not be installed, tighten the stock upper control arm nut some more until the stock cotter pin can be installed. Repeat procedure on the passenger side.
- 18. Move back to the new hardware attaching the stock strut into the stock upper location and add some thread locker or loctite and torque the (3) nuts to 38 ft lbs. Repeat procedure on the passenger side.
- 19. Check and double check to make sure that all steps were performed properly and check again.
- 20. Install the tires and wheels and carefully lower the vehicle to the ground.

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.

arm to the stock knuckle and secure using the stock nut. Tuff Country EZ-Ride Suspension packages some post Special note: A cheater bar may be needed to pull the installation procedure literature and it is the installers responsibility to make sure that the customer receives a copy of the installation manual along with the literature.

> If you have any questions or concerns, please feel free to contact Tuff Country or your local Tuff Country deal-