| EZ - Ride Suspension | Installation manual 2" front leveling kit 2005 - 2015 Nissan Xterra & Frontier 2WD & 4WD Part # 52009 |
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| Part # 52009 2005 - 2015 Nissan Xterra & Frontier 2WD & 4WD 2" front leveling kit Part # Description Qty. 52009-01 Front leveling spacer 2 D2P-NB Hardware bag 1 52009INST Instruction manual 2 MIRRORHANGER Rear view mirror hanger 1 VARNINGDECAL Warning decal 1 Congratulations on your selection to purchase a 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. Please see the end of the installation manual for a picture of the hard parts that are included in this suspension system. | 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 instal- lation. It is the customers/installers responsibility to read and understand all steps before installation begins. This vehicles reaction and handling characteristics may differ from standard cars and/or trucks. Modifications to improve and/or enhance off road per- formance 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 suspen- sion 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 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 32x11.50 or a 295/75 tire package once part # 52009 has been installed. If larger than a 32x11.50 or a 295/75 tire is installed on your vehicle in conjunction with part # 52009; Tuff Country assumes no liability and the warranty will be VOID.

Tuff Country EZ-Ride Suspension packages (2) sets of instruction sheets with this box kit. (1) is for the installer and (1) is for the customer. The (1) for the customer has 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.

Hardware bag D2P-NB includes:

DescriptionQuantity38NLN (3/8" nylon lock nut)6516WA (5/16 USS flat washer)6Recommended tools selection:6Torque wrench5Standard socket set5Standard wrench set4Metric socket set4Metric wrench set4Tape measure4Hydraulic floor jacks4

Please follow instructions carefully:

knuckle from each other. Repeat procedure on the passenger side. Special note: Take special care not to damage the stock upper control arm dust boot during removal.

Before installation begins, measure from the center of the stock upper control arm dust boot during removal. the hub, to the bottom of the fender well, and record 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.

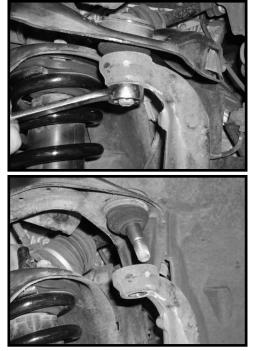
Post-installation measurements:

Driver side front:_____ Passenger side front:_____

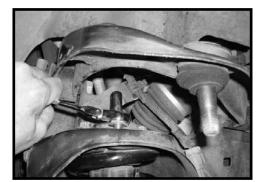
1. To begin installation, block the rear tires of the vehicle so that the vehicle is stable and can't roll backwards. Safely lift the front of the vehicle and support the vehicle with a pair of jack stands. Place a jack stand on both the driver and the passenger side. Next, remove the front wheels and tires from both sides.

2. Working on the driver side, remove the stock sway bar the stock hardware. Repeat procedure on the passenger end link from the stock location control arm. Save the stock side. hardware. Repeat procedure on the passenger side.





5. Working on the driver side, remove the (3) stock nuts that connect the stock strut into the stock upper location. Save the stock hardware. Repeat procedure on the passenger side



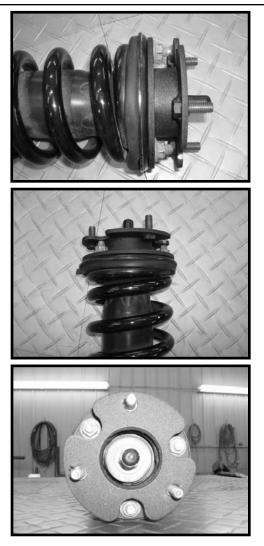
6. Working on the driver side, move the stock hardware that connects the stock strut to the stock lower control arm. Save

3. Working on the driver side, remove the stock cotter pin the stock hardware. Pull the stock strut out of the vehicle and from the stock upper control arm ball joint. Save the stock set aside. Repeat procedure on the passenger side. cotter pin. Repeat procedure on the passenger side.





4. Working on the driver side, loosen but do not remove the stock nut that connects the stock upper control arm to the stock knuckle. Carefully break the stock taper of the upper control arm ball joint then remove the stock nut completely and set aside. Separate the stock upper control arm and



8. Locate (6) 3/8" nylon lock nuts and (6) 5/16" USS flat **the vehicle.** washers from hardware bag D2P-NB. Working on the driver

side, install the modified stock strut into the stock upper location using the new hardware. Special note: The driver side strut will need to be rotated 180 degrees for proper fit. Make sure to use thread locker or loctite and torque to 35 ft lbs. Repeat procedure on the passenger side with the passenger side modified stock strut. Tuff Country EZ-Ride Suspension packages (2) sets of instruction sheets with this box kit. (1) is for the installer and (1) is for the customer. The (1) for the customer has 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.



9. Locate the stock lower strut hardware. Working on the driver side, install the modified stock strut into the stock lower control arm location using the stock hardware. Make sure to use thread locker or loctite and torque to **155 ft lbs.** Repeat procedure on the passenger side.

10. Locate the stock upper ball joint hardware. Working on the driver side, install the stock upper control arm into the

stock knuckle and secure using the stock hardware. Make sure to use thread locker or loctite and torque to **58 ft lbs.** Repeat procedure on the passenger side.

11. Locate the stock upper control arm cotter pins. Working on the driver side, install the stock cotter pins into the stock location. Repeat procedure on the passenger side.

12. Locate the stock lower sway bar mounting hardware. Working on the driver side, install the stock sway bar end link into the stock location and secure using the stock hardware. Make sure to use thread locker or loctite and torque to **62 ft. Ibs.** Repeat procedure on the passenger side.

13. 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.

If you have any questions or concerns, please feel free to contact Tuff Country or your local Tuff Country dealer.