

## Installation manual 2" Suspension System 1999 - 2006 Chevy or GMC 1500 Part # 12925

sj2202012rev.01

Part # 12925 1999 - 2006 Chevy/GMC 1500	Important customer information:
2" Suspension System   Part # Description Qty.	Tuff Country EZ-Ride Suspension highly recommends that a qualified and/or certified mechanic performs this installation.
12903-01Torsion bar keys25U-9262S9/16" x 2 3/4" x 12 5/8" square u-bolts4916NWHardware bag1BL301Rear blocks210970-01Front shock relocation bracket210970NBHardware bag114WA1/4" USS flat washer212925INSTInstruction manual2WARNINGDECALWarning decal1MIRRORHANGERRear view mirror hanger1	If you desire to return your vehicle to stock, it is the customers responsibility to save all stock hardware. 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.
Country EZ-Ride Suspension System. We at Tuff Country are proud to offer a high quality product at the industries most competitive pricing. Thank you for your confidence in us, and our product. 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. It is the customers/installers responsibility to read and understand all steps before installation begins. OEM manual should be used as a reference guide. Make sure to use loctite on all new and stock hardware associated with this installation. 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.	maneuvers, such as sudden sharp turns which could

Limited lifetime warranty	Important information t installation begins:	that needs to be read before
Notice to all Tuff Country EZ-Ride Suspension	installation begins:	
customers: It is your responsibility to keep your	Tuff Country EZ-Ride Suspension requires that a prop-	
original sales receipt! If failure should occur on any	er torsion bar unloading tool be used when performing	
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		aftermarket lifted suspension
Country EZ-Ride Suspension WARRANTY WILL BE	system your Warranty w	•
VOID. Tuff Country Inc. ("Tuff Country") suspension		
products are warranted to be free from defects in	Before installation be	gins, Tuff Country EZ-Ride
material and workmanship for life if purchased,		commends that the installer
installed and maintained on a non-commercial vehicle;	performs a test drive o	n the vehicle. During the test
otherwise, for a period of twelve (12) months, from the	drive, check to see if the	ere are any uncommon sounds
date of purchase and installation on a commercial	or vibrations. If uncomm	on sounds or vibrations occur
vehicle, or twelve thousand (12,000) miles (which ever		mon sounds or vibrations will
occurs first). Tuff Country does not warrant or make		suspension system has been
any representations concerning Tuff Country Products		EZ-Ride Suspension highly
when not installed and used strictly in accordance		g the customer prior to
with the manufacturer's instructions for such		e customer of these issues if
installation and operation and accordance with good	they exist.	
installation and maintenance practices of the		- de a c
automotive industry. This warranty does not apply to	Hardware bag 916NW inclu	Jaes:
the cosmetic finish of Tuff Country products nor to	<b>Description</b>	Quantity
Tuff Country products which have been altered, improperly installed, maintained, used or repaired, or	<u></u>	Quantity
damaged by accident, negligence, misuse or racing.	SUW-916 (9/16" u-bolt was	hers) 8
("Racing is used in its broadest sense, and, for	916HN (9/16" u-bolt high n	uts) 8
example, without regards to formalities in relation to		
prizes, competition, etc.) This warranty is void if the	Hardware bag 10970NB inc	ciudes:
product is removed from the original vehicle and	<b>Description</b>	Quantity
re-installed on that or any other vehicle. This warranty		Guuniy
is exclusive and is in lieu of any implied warranty of	916212B (9/16" x 2 1/2" bo	
merchantability, fitness for a particular purpose or	12WA (1/2" USS flat washe	
other warranty of quality, whether express or implied,	916UN (9/16" unitorque nu	ts) 2
except the warranty of title. All implied warranties are	Torque settings:	
limited to the duration of this warranty. The remedies	lorque settings.	
set forth in this warranty are exclusive. This warranty	5/16"    1	5—18 ft Ibs.
excludes all labor charges or other incidental of		8—32 ft lbs.
consequential damages. Any part or product returned		0—35 ft lbs.
for warranty claim must be returned through the		
	6 1/2"	5—85 ft lbs
dealer of the distributor from whom it was purchased.		5—85 ft lbs. 5—120 ft lbs.
dealer of the distributor from whom it was purchased. Tuff Country reserves the right to examine all parts	9/16"    8	5—120 ft lbs.
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	9/16"    8 5/8"    9	5—120 ft lbs. 5—130 ft lbs.
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	9/16"    8 5/8"    9	5—120 ft lbs.
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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	9/16" 8 5/8" 9 3/4" 1	5—120 ft lbs. 5—130 ft lbs. 00—140 ft lbs.
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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	١		
measurements and compare to the pre-installation measurements.	i		

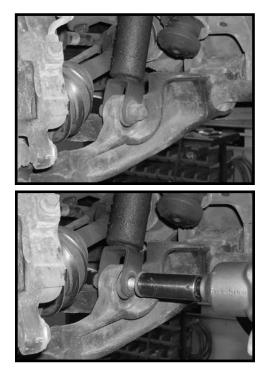
Post installation measurements:

Please follow instructions carefully:

Driver side front:	
Passenger side front:	
Driver side rear:	
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 frame with a pair of jack stands. Place a jack stand on both the driver and passenger side.

2. Working on the driver side, remove the shock from the OE lower location only. Save the hardware. Let the shock hang.





3. Working on the driver side, scribe a mark on the lower control arm and one directly across to the torsion bar. This will ensure that the torsion bar gets installed properly back into the OE location.



4. Working on the driver side and using a proper torsion bar removal tool. Carefully remove the torsion bar bolt and block. Set the torsion bar bolt and block aside. Remove the stock torsion bar unloading tool from the stock cross member. Special note: Tuff Country EZ-RIde Suspension requires that a proper torsion bar unloading tool be used when performing this installation. If you do not have one, please contact your local GM dealer to purchase one from them.



5. Working on the driver side, tap the torsion bar forward until the torsion bar key can be removed. Remove and discard the torsion bar key.

C Leasts the new tension has been Marking on the driver	Demast step # 0 . 44 en the needen nen side
<ol><li>Locate the new torsion bar key. Working on the driver side, install the new key into the OE location. Tap the torsion</li></ol>	
bar back into the torsion bar cross member until it seats	
properly into the new torsion bar key. Special note: Make	
sure that the marks that were scribed earlier on the	13. To begin installation, block the front tires of the vehicle so that the vehicle is stable and can't roll forward. Safely lift the rear of the vehicle and support the frame with a pair of jack
	stands. Place a jack stand on both the driver and passenger side. Next, remove the wheels and tires from both sides.
	14. Working on the driver side, remove the shock from the OE location and save the hardware for later re-installation. The stock shock may be discarded. Special note: New longer rear shocks are recommended, if you have not already ordered shocks, please contact Tuff Country or your local Tuff Country dealer and order the proper shocks. Tuff Country recommends using a 30" fully extended nitrogen gas shock. Repeat procedure on the
7. Using the torsion bar unloading tool, adjust the new tor-	
sion bar key up high enough so that the torsion bar block and bolt can be re-installed.	15 Working on the driver side rear shock brocket, remove
8. Locate the torsion bar bolt and block and install into the	
OE location. Adjust the bolt so that there is at least a 1/4" of thread past the torsion har block. After the completion of the	16. Place a pair of hydraulic floor jacks under the rear differ-
	ential and carefully raise up on both hydraulic floor jacks at
	the same time until they come into contact with the rear dif- ferential.
	17. Working on the driver side, remove the u-bolts from the OE location and discard the u-bolts and hardware. Set the upper and lower u-bolt plates aside for later re-installation.
	Repeat procedure on passenger side.
9. Working on the driver side, measure from the stock bump	
	18. Carefully lower down both hydraulic floor jacks at the
	same time approximately 4". Special note: Take special care not to over extend any brake lines and/or hoses.
urement is less than a 1/2".	Working on the driver side, remove and discard the stock rear block. Repeat procedure on the passenger side.
10. Locate the new shock relocation brackets. Working on	
	19. Locate (2) new 3" lifted blocks. Working on the driver side, install the new 3" lifted block into the OE location. <b>Special note: The new 3" lifted block has a slight taper</b>
	to it, the small end of the block needs to be installed
11. Locate the new 9/16" hardware from hardware bag 10970NB. Working on the driver side, install the OE shock into the newly installed shock relocation bracket and secure	
using the 9/16" hardware. Make sure to use loctite and	20. Carefully raise up on both hydraulic floor jacks at the
	same time until the stock spring assembly sits flush with the
some loctite and torque to 85 ft lbs.	newly installed 3" lifted block.
	21. Locate (4) 9/16" x 2 3/4" x 12 5/8" square u-bolts. Locate (8) 9/16" u-bolt high nuts and (8) u-bolt washers from hard-
	ware bag 916NW. Also, locate the upper and lower u-bolt plates. Working on the driver side, install the new u-bolts into the OE location and secure using the new 9/16" high nuts
	and washers. Special note: Make sure to re-install the upper and lower u-bolt plates into the OE location. Torque to 120 ft lbs. Repeat procedure on passenger side.
	22. Locate the new rear shocks. <b>Special note: New longer</b>

rear shocks are recommended, if you have not already ordered shocks, please contact Tuff Country or your local Tuff Country dealer and order the proper shocks. Tuff Country recommends using a 30" fully extended nitrogen gas shock. Locate and install the new upper and lower poly bushings and proper shock sleeves that are packaged with the new shocks into the upper and lower eyelet of the new shocks. Special note: Make sure to use a lithium or moly base grease prior to inserting the new lower shock bushings and sleeves into the new lower shock eyelet. This will increase the life of the bushing as well as prevent squeaking. Working on the driver side, install the new rear shock into the upper and lower location and secure using the OE hardware. Make sure to use loctite and torque to 80 ft Ibs. Repeat procedure on passenger side. Tuff Country EZ-Ride Suspension highly recommends that the shocks are installed with shock boots. If shock boots are not installed, damaged may occur to the piston of the new shock.



23. Locate the (2) 1/4" USS flat washers that are packaged with the installer copy of the installation manual. Working on the driver side rear shock bracket, re-install the stock bracket line bracket to the rear shock bracket using the OE hardware and the 1/4" USS washers as spacers. This will ensure that the shank of the bolt will not rub on the new shock.

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

25. Working on the driver side rear frame rail, if needed, carefully bend down on the stock rear brake cable extension bracket to allow for proper brake line clearance.

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

27. Check and double check to make sure that all steps were performed properly. And then check them again.

## 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.

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.

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