

## Installation manual 2" Suspension System 1999 - 2006 Chevy or GMC 1500 Part # 12926

sj2202012rev.01

Important customer information: Tuff Country EZ-Ride Suspension highly recommends that a qualified and/or certified mechanic performs this installation. If you desire to return your vehicle to stock, it is the
that a qualified and/or certified mechanic performs this installation. 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. 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. It is the responsibility of the customer or the mechanic to wear safety glasses at all times when performing this installation.

Limited lifetime warranty	lm
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Notice to all Tuff Country EZ-Ride Suspension	_
customers: It is your responsibility to keep your	Tu
original sales receipt! If failure should occur on any	er
Tuff Country EZ-Ride Suspension component, your	thi
original sales receipt must accompany the warranted	yo
unit to receive warranty. Warranty will be void if the	
customer can not provide the original sales receipt. Do	Tu
not install a body lift in conjunction with a suspension	Ba
system. If a body lift is used in conjunction with any	su
Tuff Country EZ-Ride Suspension product, your Tuff	ins
Country EZ-Ride Suspension WARRANTY WILL BE	sy
VOID. Tuff Country Inc. ("Tuff Country") suspension	-,
products are warranted to be free from defects in	Du
material and workmanship for life if purchased,	ca
installed and maintained on a non-commercial vehicle;	ca
otherwise, for a period of twelve (12) months, from the	Be
date of purchase and installation on a commercial	Su
vehicle, or twelve thousand (12,000) miles (which ever	pe
occurs first). Tuff Country does not warrant or make	dri
any representations concerning Tuff Country Products	or
when not installed and used strictly in accordance	on
with the manufacturer's instructions for such	be
installation and operation and accordance with good	ins
installation and maintenance practices of the	re
automotive industry. This warranty does not apply to	ins
the cosmetic finish of Tuff Country products nor to	the
Tuff Country products which have been altered,	
improperly installed, maintained, used or repaired, or	То
damaged by accident, negligence, misuse or racing.	
("Racing is used in its broadest sense, and, for	5/1
example, without regards to formalities in relation to	3/8
prizes, competition, etc.) This warranty is void if the	7/1
product is removed from the original vehicle and	1/2
re-installed on that or any other vehicle. This warranty	9/1
is exclusive and is in lieu of any implied warranty of	5/8
merchantability, fitness for a particular purpose or	3/4
other warranty of quality, whether express or implied,	
except the warranty of title. All implied warranties are	Re
limited to the duration of this warranty. The remedies	
set forth in this warranty are exclusive. This warranty	То
excludes all labor charges or other incidental of	Sta
consequential damages. Any part or product returned	Sta
for warranty claim must be returned through the	Me
	Me
dealer of the distributor from whom it was purchased.	
Tuff Country reserves the right to examine all parts	Та
returned to it for warranty claim to determine whether	Hy
or not any such part has failed because of defect in	То
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 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.

Tuff Country recommends NOT installing the Torsion Bar Keys in conjunction with another aftermarket lifted suspension system. If the Torsion Bar Keys are installed with another aftermarket lifted suspension system your Warranty will be void.

Due to variations in your vehicles stock shock application, longer shocks may be required.

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.

Torque settings:

5/16"	15—18 ft lbs.
3/8"	28—32 ft lbs.
7/16"	30—35 ft lbs.
1/2"	65—85 ft lbs.
9/16"	85—120 ft lbs.
5/8"	95—130 ft lbs.
3/4"	100—140 ft lbs.

Recommended tools selection:

Torque wrench Standard socket set Standard wrench set Metric socket set Metric wrench set Tape measure Hydraulic floor jacks Torsion bar unloading tool

Please follow instructions carefully: Before installation begins, measure from the center of	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 pur-
the hub, to the bottom of the fender well, and record	chase one from them.
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:	X
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 pas- senger side.	5. Working on the driver side, tap the torsion bar forward until the torsion bar key can be removed. Remove and dis- card the torsion bar key.
2. Working on the driver side, remove the shock from the OE location. Save the hardware. The shock may be dis-	6. Locate the new torsion bar key. Working on the driver side, install the new key into the OE location. Tap the tor-
carded. Special note: New longer front shocks are rec-	sion bar back into the torsion bar cross member until it
ommended, if you have not already ordered shocks,	seats properly into the new torsion bar key. Special note:
please contact Tuff Country or your local Tuff Country	Make sure that the marks that were scribed earlier on
dealer and order the proper shocks. Tuff Country rec-	the lower control arm and the torsion bar line up with
ommends installing part # 69187 once the torsion bar	each other.
keys have been installed.	
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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.	
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7. Using the torsion bar unloading tool, adjust the new torsion bar key up high enough so that the torsion bar block and bolt can be re-installed.

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 bar block. After the completion of the installation, if more height is needed, adjust the bolt to achieve the proper height. **Special note: For each 1/4" of adjustment on the stock bolt equals 1" of height.** 

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** 

	18. Locate (2) new 3" lifted blocks. Working on the driver side, install the new 3" lifted block into the OE location. Special note: The new 3" lifted block has a slight taper to it, the small end of the block needs to be installed
stop to the stock lower control arm. This measurement should not exceed 1/2". If you have more than a 1/2", the	towards the front of the vehicle. Repeat procedure on the passenger side.
urement is less than a 1/2". 10. Locate the new front shocks. <b>Special note: New longer</b>	19. Carefully raise up on both hydraulic floor jacks at the same time until the stock spring assembly sits flush with the newly installed 3" lifted block.
front shocks are recommended, if you have not already ordered shocks, please contact Tuff Country or your	20. 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
Tuff Country recommends installing part # 69187 once the torsion bar keys have been installed. Working on the	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. <b>Special note: Make sure to re-install the</b>
the new shock for the upper. Make sure to use loctite and torque the lower hardware to <b>85 ft lbs</b> and the upper to <b>18 ft</b>	
lbs.	21. Locate the new rear shocks. Special note: New longer rear shocks are recommended, if you have not already
Repeat step # 2 - 10 on the passenger side. 11. Carefully lower the vehicle to the ground.	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
	<b>nitrogen gas shock.</b> Locate and install the new upper and lower poly bushings and proper shock sleeves that are pack-
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	aged 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
OE location and save the hardware for later re-installation.	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
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	secure using the OE hardware. Make sure to use loctite and torque to <b>80 ft lbs.</b> Repeat procedure on passenger side. <b>Tuff Country EZ-Ride Suspension highly recommends</b> <b>that the shocks are installed with shock boots. If shock</b>
shocks. Tuff Country recommends using a 30" fully extended nitrogen gas shock. Repeat procedure on the passenger side.	boots are not installed, damaged may occur to the pis- ton of the new shock.
14. Working on the driver side rear shock bracket, remove the brake line bracket from the driver side rear shock brack- et. Set the stock hardware aside for later re-installation.	
15. 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.	
	22. 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 brack- et line bracket to the rear shock bracket using the OE hard-
17. 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.	ware and the 1/4" USS washers as spacers. This will ensure
	23. Carefully remove the (2) hydraulic floor jacks from under the rear differential.

24. 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.

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

26. 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.