

Installation manual

2" Front leveling kit

2004 - 2008 F150

Part # 22904

sj061108rev.01

	4	
Part # 22904 2004 - 2008 Ford F150	Important customer information:	
2" Front leveling kit Part # <u>Description</u> <u>Qty.</u>	Tuff Country EZ-Ride Suspension highly recommends that a qualified and/or certified mechanic performs this installation.	
22904-01Front spacer2D2P-NBHardware bag1	If you desire to return your vehicle to stock, it is the customers responsibility to save all stock hardware.	
22904INSTInstruction sheet1MIRRORHANGERRear view mirror hanger1WARNINGDECALWarning decal1	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.	
Congratulations on your selection to purchase a Tuff 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.		
Make sure to use loctite on all new and stock hardware associated with this installation.	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.	
Tuff Country EZ-Ride Suspension packages (1) set of instruction sheets with this box kit. This instruction sheet is for the installer. We also package some post installation procedure literature and it is the installers responsibility to make sure that the customer receives a copy of the literature.	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 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.	

Limited lifetime warranty	ן י
Notice to all Tuff Country E7 Dide Sugmencies	Ľ
Notice to all Tuff Country EZ-Ride Suspension	Ι.
customers: It is your responsibility to keep your	
original sales receipt! If failure should occur on any	
Tuff Country EZ-Ride Suspension component, your	1
original sales receipt must accompany the warranted	
unit to receive warranty. Warranty will be void if the	ľ
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	li
Tuff Country EZ-Ride Suspension product, your Tuff	1
Country EZ-Ride Suspension WARRANTY WILL BE	li
VOID. Tuff Country Inc. ("Tuff Country") suspension	1
products are warranted to be free from defects in	lá
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	L
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	۱ ا
with the manufacturer's instructions for such	l i
installation and operation and accordance with good	
installation and maintenance practices of the	li
automotive industry. This warranty does not apply to	1
the cosmetic finish of Tuff Country products nor to	
Tuff Country products which have been altered,	l 1
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	ŀ
product is removed from the original vehicle and	ļ
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,	L
except the warranty of title. All implied warranties are	–
limited to the duration of this warranty. The remedies	1
set forth in this warranty are exclusive. This warranty	
excludes all labor charges or other incidental of	3
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.	
by the customer under this wallally.	
	Í

Important information that needs to be read before installation begins:

Tuff Country recommends a 32x11.50 or a 295/75 tire package once part # 22904 has been installed. If larger than a 32x11.50 or a 295/75 tire is installed on your in conjunction with part # 22904; Tuff Country assumes no liability and the warranty will be VOID.

Tuff Country EZ-Ride Suspension packages (1) set of instruction sheets with this box kit. This instruction sheet is for the installer. We also package some post installation procedure literature and it is the installers responsibility to make sure that the customer receives a copy of 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.

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.

Hardware bag D2P-NB includes:

<u>Description</u>	<u>Quantity</u>
38NLN (3/8" nylon lock nut)	6
516WA (5/16" USS flat washer)	6

	5. Locate the new strut spacers and the stock upper strut hardware. Working on the driver side strut, install the new spacer on top of the strut and secure using the stock hardware. Make sure to use thread locker or loctite and torque to 45 ft lbs.
Recommended tools selection: Torque wrench Standard wrench set Metric socket set Standard wrench set Metric socket set Metric wrench set Tape measure Hydraulic floor jacks Please follow instructions carefully: 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: Passenger side front: Post installation measurements: Driver side front: Passenger side front:	 torque to 45 ft lbs. 6. Locate (3) 3/8" nylock nuts and (3) 5/16" USS flat washers from hardware bag D2P-NB. Install the newly modified driver side strut into the stock upper location and secure using the new hardware. Do not tighten at this point. 7. Locate the stock lower strut hardware. Secure the lower portion of the stock strut into the stock location using the stock hardware. Torque to 65 ft lbs. Special Note: Make sure to use thread locker or loctite. Move back to the new hardware securing the modified strut into the upper location and add some thread locker or loctite and torque all 3 bolts to 42 ft lbs. 9. Locate the stock outer tie rod hardware. Install and secure the stock outer tie rod to the stock knuckle using the stock hardware. Torque to 38 ft lbs. Special note: Make sure to use thread locker or loctite. 10. Repeat steps 2 - 9 on the passenger side. 11. Re-install the tires and wheels and safely lower the vehicle to the ground. 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 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 after the first 100 miles of installation. It is also the customers responsibility to make sure that the customer receives a copy of the literature. If you have any questions or concerns, please feel free to contact Tuff Country or your local Tuff Country dealer.
lower bolt and set aside.	