TUFF OUNTRY EZ - Ride Suspension	Installation manual 4" <u>suspension system</u> 1981 - 1996 Ford F150 or Bronco Part # 24810
Part # 24810 1981 - 1996 Ford F150 or Bronco 4" suspension system Part # Description Qty. F401 Front axle pivot relocation bracket (large) 1 F402 Rear axle pivot relocation bracket (small) 1 F403 DS radius arm relocation bracket (small) 1 F404 PS radius arm relocation bracket 1 1 F405 Front axle pivot relocation brackets 2 2 F406 Font axle pivot relocation support bracket 1 1 TCI-R22 Rear add-a-leaf 2 SU-283R 9/16" x 3 1/2" x 10 1/2" round u-bolts 4 FANB Hardware bag 1 CB38 Hardware bag 1 CB38 Hardware bag 1 CAM1NB Hardware bag 1 CAMINB Hardware bag 1 Z4810INST Instruction manual 2 VarNINGDECAL Warning decal 1 Congratulations on your selection to purchase a Tuff Country EZ-Ride Suspension Tor purchase a Tuff Country EZ-Ride Suspension system. We at Tuff Country EZ-Ride Suspension product safety	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. 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:

The stock wheels will work in conjunction with this suspension system. But if new wheels are going to be purchased, Tuff Country recommends a medium offset wheel be used. Tuff Country recommends a 33x12.50 tire package. If larger than a 33x12.50 tire is installed on your vehicle in conjunction with part # 24810; Tuff Country assumes no liability and the warranty will be VOID.

Part # 24810 does not include the front coil springs. Part # 24811 is the part # for the front coil springs and needs to be ordered as a septate part #. If you have not already ordered the new front coil springs, please contact Tuff Country or your local Tuff Country dealer and order the new front coil springs.

Tuff Country highly recommends installing an aftermarket pitman arm once part # 24810 has been installed. If you have not already ordered your new pitman arm, please contact Tuff Country or your local Tuff Country dealer and order part # 70200.

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.

New longer front and rear shocks are needed after this suspension system has been installed and the front and rear shocks need to be ordered as a separate part #. If you have not already ordered your front and rear shocks, please feel free to contact Tuff Country or your local Tuff Country dealer and order your front and rear shocks. Tuff Country recommends installing a 20" fully extended nitrogen gas shock in the front, 23" fully extended cellular shock in the front for the auxiliary shock and a 26" fully extended nitrogen gas shock in the rear.

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

		Recommended tools selection:
		Cut off wheel
		Torque wrench
		Standard socket set
		Standard wrench set
Hardware bag F4NB includes:		Metric socket set Metric wrench set
<u>Description</u>	Quantity	Tape measure
		Hydraulic floor jacks
716112B (7/16" x 1 1/2" bolt)	4	Air chisel
716UN (7/16" unitorque nut) 38WA (3/8" USS flat washer)	4 8	
12112B (1/2" x 1 1/2" bolt)	o 22	
12UN (1/2" unitorque nut)	22	
716WA (7/16" USS flat washer)	44	
Hardware bag CB38 includes:		
	•	
Description	<u>Quantity</u>	
CB381 (3/8" x 6" centering bolt)	2	
38FN (3/8" fine nut)	2	
Hardware bag 916NW includes:		
<u>Description</u>	Quantity	
	quantity	
916HN (9/16" u-bolt high nut)	8	
SUW-916 (9/16" harden u-bolt washer)	8	
Hardware bag FBLNB2 includes:		
Description	<u>Quantity</u>	
	•	
BLR013 (front brake line bracket) BLR014 (rear brake line bracket)	2 1	
5161B (5/16" x 1" bolt)	3	
516UN (5/16" unitorque nut)	3	
14WA (1/4" USS flat washer)	6	
ECLIP (e-clip)	3	
Hardware bag CAM1NB includes:		
Description	Quantity	
Description	<u>Quantity</u>	
CAM-01 (9/16" x 3 1/2" cam bolt)	2	
CAM-02 (cam washer)	4	
916UN (9/16" unitorque nut)	2	

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:
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:
Driver side rear

Passenger side rear:

Front end installation:

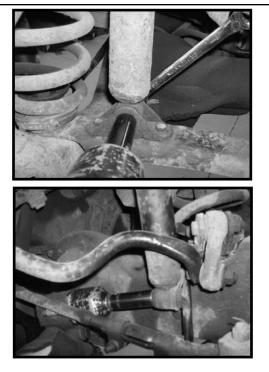
1. To begin installation, block the rear tires of the vehicle so that the vehicle is stable and can't roll backwards. Safely lift the front of the vehicle and support the vehicle with a pair of jack stands. Place a jack stand on both the driver and the passenger side. Special note: Place the jack stands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

Working on the driver side, remove the stock shock from the stock upper and lower mounting location. Save the stock lower mounting hardware. The upper mounting hardware and shock may be discarded. Special note: Some vehicles

procedure on the passenger side. Special note: New end link from the stock axle location. Save the hardware. longer front shocks are needed after this suspension Repeat procedure on the passenger side. Set the sway bar system has been installed and the front shocks need to aside.

be ordered as a separate part #. If you have not already ordered your front shocks, please feel free to contact Tuff Country or your local Tuff Country dealer and order your front shocks. Tuff Country recommends installing a 20" fully extended nitrogen gas in the front and a 23" fully extended cellular shock in the front for the auxiliary shock.





3. Working on the driver side, remove the stock sway bar from the frame mounting location. Save the hardware. Repeat procedure on the passenger side.



come stock with multiple shocks in the front end. Repeat 4. Working on the driver side, remove the stock sway bar



Place a pair of hydraulic floor jacks under the front driver and passenger side twin eye beam axles. Carefully raise up on the hydraulic floor jacks until they come into contact with the front twin eye beam axles. Also, place a pair of hydraulic floor jacks under the driver and passenger side stock radius arms. Carefully raise up on the hydraulic floor jacks until they come into contact with the stock radius arms.

6. Working on the front driver side twin eye beam axle, 9. Working on the driver side stock radius arm bracket, remove the stock mounting hardware that connects the front remove the stock hardware or the stock rivets that connect twin eye beam axle to the stock bracket. The stock hardware the bracket to the frame rail. The stock hardware and rivets may be discarded.



7. Working on the front driver side twin eye beam axle bracket, remove the stock bracket from the stock location. Save the stock hardware but the the stock bracket may be discarded.



8. Working on the rear passenger side twin eye beam axle, remove the stock mounting hardware that connects the rear axle to the stock location. Save the stock hardware.



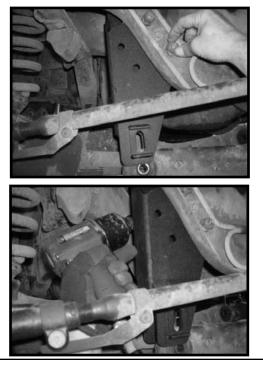
the bracket to the frame rail. The stock hardware and rivets may be discard. Repeat procedure on the passenger side. Special note: Using a die grinder and making a cross cut on the rivets then using a air chisel will help make the removal of the rivets easier.



 Make sure that the hydraulic floor jacks are supporting the front and rear twin eye beam axles and the stock radius arms.



11. Locate the new front twin eye beam relocation bracket and the stock hardware. Install the new front relocation bracket to the stock location and secure using the stock hardware. Make sure to use thread locker or loctite and torque to **85 ft lbs.**



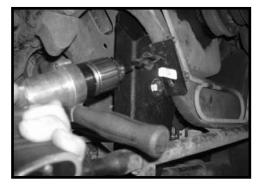




12. Locate the new front twin eye beam axle pivot support 15. Locate the new rear twin eye beam axle pivot relocation bracket. Also, locate (2) 1/2" x 1 1/2" bolts, (4) 7/16" USS flat bracket and the stock hardware. Install the new rear twin eye beam axle pivot relocation bracket into the stock location F4NB. Install the new support bracket to the newly installed front twin eye beam axle pivot bracket using the new 1/2" x 1 1/2" bolts and hardware. Make sure to use thread locker or loctite and torque to **75 ft lbs.**



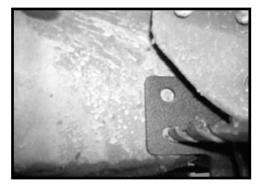
13. Using the new support bracket as a guide, carefully drill (2) 1/2" holes into the stock front cross member. **Special note: Take special care not to drill into the cooling lines that wrap around the front cross member.** Locate (2) 1/2" x 1 1/2" bolts, (4) 7/16" USS flat washers and (2) 1/2" unitorque nuts from hardware bag F4NB. Secure to newly installed front twin eye beam axle support bracket to the stock front cross member using the new 1/2" x 1 1/2" bolts and hardware. Make sure to use thread locker or loctite and torque to **75 ft lbs.**



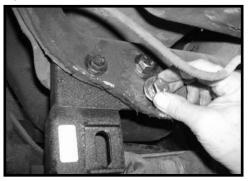
14. Locate (1) 9/16" x 3 1/2" cam bolt, (2) cam washers and (1) 9/16" unitorque nut from hardware bag CAM1NB. Carefully raise up on the hydraulic floor jack that is supporting the driver side front twin eye beam axle until it slides up into the newly installed bracket. Secure the axle to the new bracket using the new cam bolt and hardware. Make sure to use thread locker or loctite and torque to **85 ft lbs. Special note: For now, place the cam washer in the center position.**



16. Using the new rear twin eye beam bracket as a guide, carefully drill (2) 1/2" holes into the stock cross member. Special note: Drilling from the front of the vehicle to the back will make this step easier. Also, take special care not to drill into the cooling lines that wrap around the rear cross member.



17. Locate (2) 1/2" x 1 1/2" bolts, (4) 7/16" USS flat washers and (2) 1/2" unitorque nuts from hardware bag F4NB. Secure the new rear twin eye beam axle pivot relocation bracket to the cross member using the new 1/2" x 1 1/2' bolts and hardware. Make sure to use thread locker or loctite and torgue to 75 ft lbs.



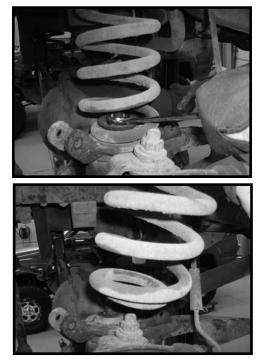
18. Locate (1) 9/16" x 3 1/2" cam bolt, (2) cam washers and (1) 9/16" unitorque nut from hardware bag CAM1NB Carefully raise up on the hydraulic floor jack that is supporting the passenger side rear twin eye beam axle until it slides up into the newly installed bracket. Secure the axle to the

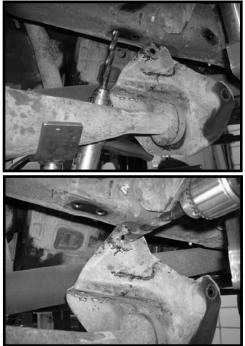
new bracket using the new cam bolt and hardware. Make 20. Using a 1/2" drill bit, carefully clean the stock frame rail sure to use thread locker or loctite and torque to 85 ft lbs. on the driver and passenger side and also clean each hole Special note: For now, place the cam washer in the cenon the stock driver and passenger side radius arm relocation ter position. bracket.



19. Working on the driver side, remove the stock coil clip from the stock location and save the stock hardware and coil clip. Now remove the stock hardware that connects the stock coil spring to the stock front twin eye beam axle. Save the stock nut and coil washer. Remove and discard the stock coil spring. Repeat procedure on the passenger side. Part # 24810 does not include the front coil springs. Part # 24811 is the part # for the front coil springs and they need to be ordered as a septate part #. If you have not already ordered your new front coil springs, please contact Tuff Country or your local Tuff Country dealer and



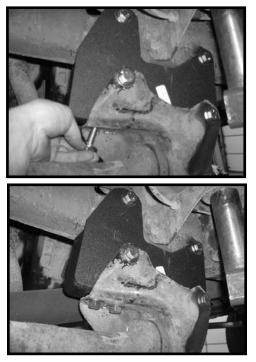




order the new 21. Locate the driver and passenger side radius arm relocafront coil springs. tion brackets. Locate (8) 1/2" x 1 1/2" bolts, (16) 7/16" USS flat washers and (8) 1/2" unitorgue nuts from hardware bag F4NB. Working on the driver side, install the new radius arm relocation bracket into the stock location and secure using the new 1/2" x 1 1/2" bolts and hardware. Do not tighten at this point. Repeat procedure on the passenger side.

> 22. Locate (8) 1/2" x 1 1/2" bolts, (16) 7/16" USS flat washers and (8) 1/2" unitorque nuts from hardware bag F4NB. Working on the driver side, install the stock driver side radius

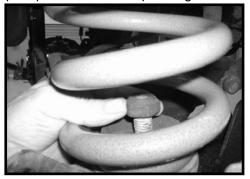
arm bracket to the newly installed radius arm relocation bracket. Secure using the new 1/2" x 1 1/2" bolts and hardware. Add some thread locker or loctite on the (8) 1/2" x 1 1/2" bolts holding the new bracket to the frame and the stock bracket to the new bracket and torque all (8) bolts to **75 ft Ibs.**

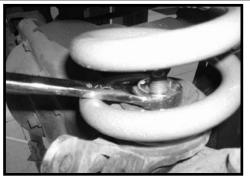


Part # 24810 does not include the front coil springs. Part

24811 is the part # for the front coil springs and they need to be ordered as a septate part #. If you have not already ordered your new front coil springs, please contact Tuff Country or your local Tuff Country dealer and order the new front coil springs.

23. Locate the new front coil springs. Also, locate the stock lower coil spring washer and hardware. Working on the driver side, install the new coil spring into the stock location and secure using the stock hardware. **Do not tighten at this point.** Repeat procedure on the passenger side.





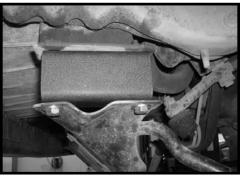
24. Locate the stock upper coil clip and hardware. Working on the driver side, secure the new coil spring into the stock location and secure using the stock coil clip and hardware. Make sure to use thread locker or loctite and torque to **14 Ibs.** Repeat procedure on the passenger side. Move back to the driver and passenger side stock hardware holding the new coil spring into the stock lower location and add some thread lock or loctite and torque to **145 ft lbs.**





26. Locate the new driver and passenger side sway bar relocation brackets. Also, locate the stock upper frame sway bar mounting hardware. Working on the driver side, secure the new sway bar relocation bracket to the stock location using the stock hardware. **Do not tighten at this point.**

27. Locate (4) 7/16" x 1 1/2" bolts, (8) 3/8" USS flat washers and (4) 7/16" unitorque nuts from hardware bag F4NB. Working on the driver side, swing the stock sway bar up and secure it to the newly installed sway bar relocation brackets. Secure using the new 7/16" x 1 1/2" bolts and hardware. **Do not tighten at this point.** Repeat procedure on the passenger side. Once the sway bar has been attached to the new sway bar relocation brackets, add some thread locker or loctite to the stock and new bolts and torque the stock and new bolts on the driver and passenger side to **38 ft lbs. Special** note: If you are not able to attach the stock sway bar to the newly installed sway bar relocation brackets, this step may need to be done once the completion of the installation is completed and the weight of the vehicle is on the ground.



28. Move back to the stock lower sway bar end link mounting hardware and add some thread locker or loctite on both the driver and passenger side and torque to **65 ft lbs.**

Tuff Country highly recommends installing an aftermarket pitman arm once part # 24810 has been installed. If you have not already ordered your new pitman arm, please contact Tuff Country or your local Tuff Country dealer and order part # 70200.

29. Working on the stock pitman arm, remove the stock cotter pin and castle nut. Save the stock hardware. Carefully remove the stock tie rod from the stock pitman arm. **Special note: Take special care not to damage the stock tie rod dust boot. If the stock tie rod dust boot looks damaged, it would be a good time to replace it.**

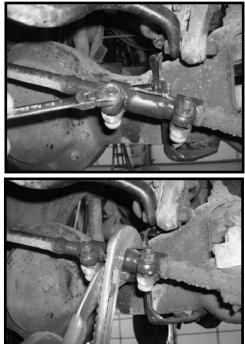
30. Remove the stock hardware that connects the stock pitman arm to the sector shaft on the stock steering box. Save the hardware. Using a pitman arm puller, carefully remove the pitman arm from the stock location. The pitman arm may be discarded.

31. Locate the new pitman arm. Locate the stock hardware are needed after this suspension system has been that connected the stock pitman arm to the sector shaft on the steering box. Install the new pitman arm into the stock separate part #. If you have not already ordered your location and secure using the stock hardware. Make sure to use thread locker or loctite and torque to 145 ft lbs.

32. Locate the stock cotter pin and castle nut that connected the stock tie rod to the stock pitman arm. Install the stock tie rod to the newly installed pitman arm and secure using the stock hardware. Torque the castle nut to **65 ft lbs.** Now install the stock cotter pin to the stock tie rod and castle nut. **Special note: If you are not able to install the stock cotter pin because the hole in the tie rod does not line up with the castle nut, DO NOT loosen, tighten the castle nut until the stock cotter pin can be installed**. **extended cellular shock in the front for the auxiliary shock.** Working on the new shocks, install the new bushings and proper sleeves that are packaged with the new shocks into the eyelet end of each new shocks. If the vehicle that you are working on has the auxiliary shock, no sleeve will be installed in the eyelet of the shock, it will just be the bushing only. **Special note: Make sure to use a lithium or moly base grease prior to installing the new bushings and**



33. Slight adjustments may need to be done to the outer tie rods so the vehicle can be driven to an alignment shop. If this is the case on the vehicle that you are working on, loosen the stock hardware on the adjusting sleeve and using a pair of pliers, adjust the toe close enough so that the vehicle can be driven.



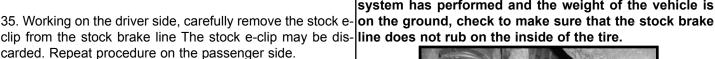
34. Locate the new front shocks. New longer front shocks are needed after this suspension system has been installed and the front shocks need to be ordered as a separate part #. If you have not already ordered your front shocks, please feel free to contact Tuff Country or your local Tuff Country dealer and order your front shocks. Tuff Country recommends installing a 20" fully extended nitrogen gas shock in the front and a 23" fully extended cellular shock in the front for the auxiliary shock. Working on the new shocks, install the new bushings and proper sleeves that are packaged with the new shocks into the eyelet end of each new shocks. If the vehicle that you are working on has the auxiliary shock, no sleeve will be installed in the eyelet of the shock, it will just be the bushing only. Special note: Make sure to use a lithium or moly base grease prior to installing the new bushings and sleeves into the eyelet of the new shocks. This will help with the life of the bushings as well as prevent squeaking. Locate the stock lower shock mounting hardware. Also, locate the new upper stem mount hardware that was packaged with the new shocks. Working on the driver side, install the new shocks into the stock location using the stock lower

hardware and the new upper hardware. Make sure to use 5/16" x 1" bolt and hardware. Make sure to use thread lockthread locker or loctite and torgue the bottom hardware to 65 er or loctite and torgue to 12 ft lbs. Repeat procedure on the ft lbs. and the upper hardware to 18 ft lbs. Repeat proce-passenger side.

dure on the passenger side. Special note: Tuff Country highly recommends installing shock boots onto the new shocks. If shocks boots are not installed, damage may occur to the piston of the new shock. If you have not already ordered your new shocks boots, please contact Tuff Country or your local Tuff Country dealer and order some new shock boots. Tuff Country offers, dark blue, light blue, gray, black, red or yellow shock boots.

Special note: This kit comes with a front and rear brake line relocation kit. Sometimes the brake line relocation

cation kit will need to be installed. If the brake line relo-line on the back side of the newly installed brake line reloca**cation kit does not need to be installed, please skip to** tion bracket. Repeat procedure on the passenger side. step # 40.





36. Working on the driver side, carefully pull the hard line out so that the new front brake line relocation bracket can be installed. Repeat procedure on the passenger side. Special note: Take special care not to damage the stock brake line when performing this step.

37. Locate the new front brake line relocation brackets from hardware bag FBLNB2. Working on the driver side, slide the open end of the new brake line over the stock brake line. Now measuring from the stock brake line hole up 2 1/2"

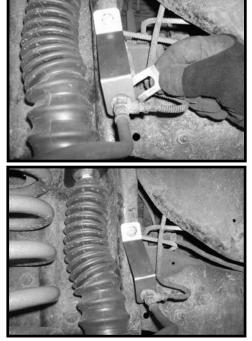
bucket. Repeat procedure on the passenger side.



38. Locate (2) 5/16" x 1" bolt, (4) 1/4" USS flat washers and (2) 5/16" unitorque nuts from hardware bag FBLNB2. Working on the driver side, secure the new front brake line relocation the to the previously drilled hole using the new



kit is not needed. Check the stock brake lines and if they 39. Locate (2) e-clips from hardware bag FBLNB2. Working are too tight, then the new front and rear brake line relo-lon the driver side, install the new e-clips to the stock brake Special note: Once the completion of the suspension system has performed and the weight of the vehicle is



carefully drill a 5/16" hole into the stock shock/coil spring 40. If you have not already done so, remove all the hydraulic floor jacks from under the vehicle. Check and double check to make sure that all steps have been performed properly and check again. Install the tires and wheels and carefully lower the vehicle to the ground.

> 41. If you were not able to install the stock sway bar to the newly installed sway bar relocation brackets, perform this step now that the weight of the vehicle is on the ground.

Front end installation completed!

Rear end installation:

42. To begin installation, carefully block the front tires and one towards the front of the stock centering bolt and one towards the rear. **Special note: Make sure not to clamp** rear of the vehicle and support the vehicle with a pair of jack stands. Place a jack stand on both the driver and the pas-

stands. Place a jack stand on both the driver and the pas-s senger side. Next, remove the rear wheels and tires from both sides.

43. Working on the driver side, remove the stock shock from the stock location. The stock shock may be discarded but save the stock upper and lower hardware. Repeat procedure on the passenger side. New longer rear shocks are needed after this suspension system has been installed and the rear shocks need to be ordered as a separate part #. If you have not already ordered your rear shocks, please feel free to contact Tuff Country or your local Tuff Country dealer and order your rear shocks. Tuff Country recommends installing a 26" fully extended nitrogen gas shock in the rear.

44. Working on the driver side, remove the stock sway bar end link from the stock sway bar. Save the stock hardware. Repeat procedure on the passenger side.



45. Place a pair of hydraulic floor jacks under the rear differential. Carefully raise up on the hydraulic floor jacks until they make contact with the rear differential.

46. Working on the driver side, remove the stock u-bolts from the stock location. The stock u-bolts and hardware may be discarded. Save the stock upper u-bolt plate. Repeat procedure on the passenger side.



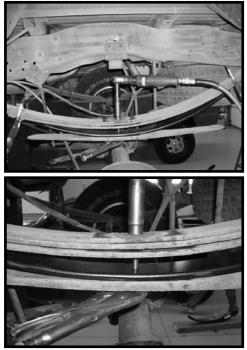
48. Working on the driver side and using a pair of "C" chan-

49. Carefully remove the stock centering bolt from the stock location and discard. Special note: Once the stock centering bolt has been removed, the stock over load will fall out. Save the stock over load. Repeat procedure on the passenger side.



50. Locate the new rear add-a-leafs. Also, locate the new 3/8" centering bolts and nuts from hardware bag CB38. Working on the driver side, install the new add-a-leaf between the stock spring and the stock overload. Secure using the new 3/8" centering bolt and nuts. Tighten the new centering bolt until all the springs come together and torque to 40 ft lbs. Special note: Tuff Country does not recommend using an air gun to tighten the nut all the way down. Once the springs are starting to come together, Tuff Country recommends using a hand wrench to finish

47. Carefully lower down on both hydraulic floor jacks at the **tightening the nut. If an air gun is used to tighten the** same time allowing enough room for the new rear add-aleafs to be installed. Working on the driver side, remove the **strip causing the springs to come apart.** Repeat procestock block from the stock location and set aside. Repeat dure on the passenger side.



51. Working on the driver side and using a die grinder, care-Repeat procedure on the passenger side.

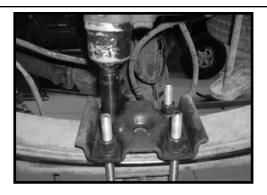


52. Locate the stock blocks. Working on the driver side, piston of the new shock. If you have not already ordered install the stock block into the stock location. Repeat proce-your new shocks boots, please contact Tuff Country or dure on the passenger side. Carefully raise up on both your local Tuff Country dealer and order some new hydraulic floor jacks that are holding the rear axle until the shock boots. Tuff Country offers, dark blue, light blue, stock blocks make contact with the stock springs. gray, black, red or yellow shock boots.



53. Locate (4) 9/16" x 3 1/2" x 10 1/2" round u-bolts. Locate (8) 9/16" u-bolt high nuts and (8) 9/16" u-bolt harden wash- 57. Working on the driver side, remove the stock e-clip that ers from hardware bag 916NW. Also, locate the stock upper is holding the stock brake line to the stock location. The u-bolt plate. Working on the driver side, secure the axle to stock e-clip may be discarded. the stock spring using the new u-bolts, u-bolt hardware and

stock u-bolts plates. Torque to 110 ft lbs. Repeat procedure 58. Carefully pull the stock brake line downward, pulling the on the passenger side. line through the stock hole.



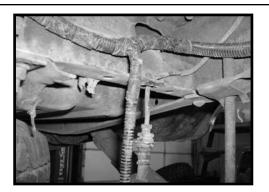
54. Locate the new rear shocks. New longer rear shocks are needed after this suspension system has been installed and the rear shocks need to be ordered as a separate part #. If you have not already ordered your rear shocks, please feel free to contact Tuff Country or your local Tuff Country dealer and order your rear shocks. Tuff Country recommends installing a 26" fully extended nitrogen gas shock in the rear. Working on the new shocks, install the new bushings and proper sleeves that are packaged with the new shocks into each eyelet of

the new shocks. Special note: Make sure to use a lithium fully cut off the excess thread from the new centering bolt. or moly base grease prior to installing the new bushings and sleeves into the eyelets of the new shocks. This will help with the life of the bushings as well as prevent squeaking.

> 55. Locate the stock upper and lower shock mounting hardware. Working on the driver side, install the new shocks into the stock location using the stock upper and lower hardware. Make sure to use thread locker or loctite and torque both the upper and lower hardware to 65 ft lbs. Repeat procedure on the passenger side. Special note: Tuff Country highly recommends installing shock boots onto the new shocks. If shocks boots are not installed, damage may occur to the

56. Remove both hydraulic floor jacks from under the vehicle.

Special note: This kit comes with a front and rear brake line relocation kit. Sometimes the brake line relocation kit is not needed. Check the stock brake lines and if they are too tight, then the new front and rear brake line relocation kit will need to be installed. If the brake line relocation kit does not need to be installed, please skip to step # 60.



59. Locate the new rear brake line relocation bracket, (1) the first 100 miles of installation. It is also the customers 5/16" x 1" bolt (2) 1/4" USS flat washers, (1) 5/16" unitorque **responsibility to do a complete re-torque after every** nut and (1) e-clip from hardware bag FBLNB2. Slide the **3000 miles or after every off road use. Neglect of follow** open end of the new brake line over the stock brake line. Ing these steps could cause brackets to come loose and Push the new bracket up on the cross member and careful- cause serious damage to the suspension system and to ly drill a 5/16" hole into the cross member. Secure the new the vehicle. brake line into the previously drilled hole and secure using

new e-clip into the stock location.



60. Locate the stock sway bar end link hardware. Working on the driver side, secure the stock sway bar end link to the stock sway bar using the stock hardware. Make sure to add some thread locker or loctite and torque to 32 ft lbs. Repeat procedure on the passenger side.

61. Check and double check to make sure that all steps were performed properly and check again.

62. 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-torgue is performed on all hardware associated with this suspension system after

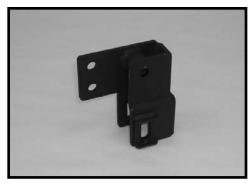
the new 5/16" x 1" bolt and hardware. Make sure to use Tuff Country EZ-Ride Suspension packages (2) sets of thread locker or loctite and torque to 12 ft lbs. Now install the instruction sheets with this box kit. (1) is for the installer

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.



F401 / Qty. 1 Front axle pivot relocation bracket / (large)



F402 / Qty. 1 Rear axle pivot relocation bracket / (small)



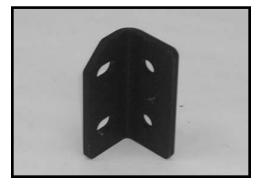
F403 / Qty. 1 Driver side radius arm relocation bracket



F404 / Qty. 1 Passenger side radius arm relocation bracket



F405 / Qty. 2 Front DS & PS sway bar relocation bracket



F406 / Qty. 1 Front axle pivot relocation support bracket