

EZ - Ride Suspension

Part # 16990 2000 — 2006 Chevy or GMC 3500 6" Suspension system

Parts contained in Box 1 of 3

Part #	Description	Qty.
16985-04	One piece lower sub frame	1
16985-12	Lateral compression arms	2
16985NB	Hardware box	1

Parts contained in Box 2 of 3

Part #	Description	Qty.
HDDIFF-01	DS differential relocation bracket	1
16985-07	PS differential relocation bracket	1
TBD99-01	Torsion bar cross member	
	relocation brackets	2
16985-10	Rear carrier bearing relocation bracket	1
16985-11	Lateral compression arm mounts	2
22SW	2" x 2" square washers	8
BL402	Rear lifted blocks	2
5U-9297S	5/8" x 2 3/4" x 16 1/2" square u-bolt	4
58NW	Hardware bag	1
16985PL	Hardware bag	1
16985SL	Hardware bag	1
9802	CV axle spacers	2
S10120	DS spacer sleeve	1
SHOCKTIE	Shock ties	10
DECAL	Window sticker	1
16990INST	Instruction sheet (customer copy)	1
16990INST	instruction sheet (installer copy)	1
MIRRORHANGER	Rear view mirror hanger	1
WARNIGNDECAL	Warning decal	1

Parts contained in Box 3 of 3

Part #	Description	Qty.
16985-01M	Driver side knuckle	1
16985-02M	Passenger side knuckle	1

Congratulations on your selection to purchase a Tuff Country EZ-Ride Suspension System. We at 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.

For a list of all parts, please refer to the Parts Description Page, at the end of the Installation Manual.

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.

Installation manual

6" Suspension system 2000 — 2006 Chevy or GMC 3500 PART # 16990

Important customer information

Tuff Country EZ-Ride Suspension highly recommends that a qualified or a certified mechanic performs this installation.

If you desire to return your vehicle to stock, it is the customers responsibility to save all stock hardware.

It is the responsibility of the customer or the mechanic to wear safety glasses at all times when performing this installation.

It is the customers/installers responsibility to read and understand all steps before installation begins. OEM manual should be used as a reference guide.

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 installers to make sure that the rear view mirror hanger is hung from the rear view mirror. The rear view mirror hanger has instructions on proper post installation procedure.

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

LIMITED LIFETIME WARRANTY	Important information that needs to be read before installation begins;
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	This suspension system WILL NOT work on vehicles equipped with dual real wheels.
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 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 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 ecludes	This suspension system WILL NOT work on vehicles
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.	

Hardware bag 16985SL includes:		Bag # 4	
Description	Quantity	Description	Quantity
		9/16" x 1 3/4" bolts	2
S10007(.500" x .380" x 1.700")	2	9/16" unitorque nuts	2
S10058 (.875" x .500" x 2.080")	4	1/2" USS flat washers	4
S10067 (.500" x .375" x 2.610")	2		•
S10073 (.690" x .560" x 1.320")	2	Bag # 5	
S10074 (.700" x .563" x 1.500")	4	Dag # 5	
	4	Description	Overstitue
S10082(.875" x .563" x 2.080")	1	Description	Quantity
		5/8" x 4 1/2" bolts	2
Hardware bag 16985PL includes:		5/8" x 5 1/2" bolts	2
		5/8" unitorque nuts	4
Description	Quantity	9/16" USS flat washers	8
PBBS1 (Poly bump stops)	4	Hardware Bag 58NW Includes:	
PBBS2 (Poly bump stops)	2	-	
PB2408 (Poly bushings)	10	Description	Quantity
PB4902 (Poly bushings)	4	<u></u>	
PB8016 (Poly bushings)	8	5/8" U-bolt high nuts	8
		5/8" U-bolt harden washers	o 8
S10049 (Washers)	8	JO U-DOIT NARGEN WASNERS	õ
PB8297 (poly bushings)	4		
S10107 (oversize washer)	4	Special note: Before installat	
LUBE (poly lube packs)	2	customers/installers responsil that all parts are on hand.	pility to make sure
Hardware bag 16985NB includes:			
Bag # 1		Special post installation procee Ride Suspension highly r a minimum of 1 pint, but	ecommends adding
Description	Quantity		
Description	Quantity		erential fluid into
3/8" x 1 1/2" self threading bolts	2		chieve this, you may
3/8" x 3 1/2" bolts	2	have to fill the differential wi	
3/8" x 7" bolts	2	you may have to insert th	
3/8" unitorque nuts	10	vend tube opening. On occa	
5/16" USS flat washers	10	may find burping of fluid	coming out of
10 mm x 35 mm bolt	12	the front vent tube.	
10 mm x 60 mm bolt	4		
10 mm lock washers	16		
1/4" x 1" self threading bolt	1		
Bag # 2			
Description	Quantity		
7/16" x 1 1/2" bolts	10		
7/16" x 3" bolts	1		
7/16" unitorque nuts	11		
3/8" USS flat washers	22		
Bag # 3			
Description	Quantity		
1/2" x 2" bolts	4		
1/2" x 3 1/2" bolts	4		
1/2" unitorque nuts	8		
7/16" USS flat washers	16		
	10		

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:	 6. Working on the driver side, attach the torsion bar removing tool to the stock torsion bar cross member, making sure that the unloading bolt in the center of the torsion bar removing tool is in the small divot of the stock torsion bar key. Adjust the torsion bar key up high enough so that the stock small metal adjusting block and bolt can be removed. Set the stock torsion bar block and hardware a side for later re-installation. Repeat procedure on passenger side. 7. Mark both torsion bars before removal so that they can be re-installed back into the same location. Example: driver vs. passenger and front vs. rear. Tap the stock
At the end of the installation, take the same measurements and compare to the pre-installation measurements. Post-installation measurements:	torsion bars forward until the stock torsion bar cross member can be removed. Once you tap the stock torsion bar out of the stock torsion bar cross member, the stock torsion bar key will fall out. Set the stock torsion bar key a side for later re-installation. Repeat procedure on the passenger side.
Driver side front: Passenger side front: Driver side rear: Passenger side 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. Next, remove the tires and wheels from both sides. Passender shock front upper and lower skid plates. The stock hower skid plate and stock hardware may be discarded. Save the stock front driveline from the stock location. Save the stock driveline and hardware	bar end link from the stock location and discard the stock end link and all the stock hardware. Repeat procedure on
5. Measure the exposed threads on the torsion bar adjustment bolt and record measurement here for a later reference. Record driver side measurement here: Record passenger side measurement here: Photo # 1	 upper control arm. Save the stock hardware for later re- installation. Also, remove any other brake line mounting points on the stock steering knuckle and stock upper control arm. 13. Working on the driver side, locate the ABS line quick disconnect located above the stock upper control arm.

22. Working on the driver side, move back to the stock nuts holding the stock upper control arm ball joint and the stock lower control arm ball joint to the stock steering
23. Working on the driver side stock hub assembly, remove the (4) stock bolts that connect the stock hub assembly to the stock steering knuckle. Save the stock
hardware and stock hub assembly for later re-installation. Also, carefully remove the stock rubber "O" ring located
in the stock steering knuckle and save for later re- installation. A new steering knuckle is used, the stock steering knuckle can be discarded.
24. Locate the new driver side steering knuckle. Using the stock rubber "O" ring that was removed in step # 23, carefully re-install the stock rubber "O" ring into the new driver side knuckle. Using the stock hardware that was removed from step # 23, secure the new driver side steering knuckle to the stock hub assembly. Special
note: Make sure that the ABS line fits in the grove of the new steering knuckle once the hub assembly has been torqued down. Torque to 133 ft lbs. Make sure to use thread locker or lock tite. Photo # 3
25. Set the new driver side steering knuckle and hub assembly a side for later re-installation.
26. Working on the driver side, remove the stock front and rear hardware that connects the stock lower control arm to the stock location. Set the stock hardware and the stock lower control arm a side for later re-installation.
27. Repeat step's 11 - 26 on the passenger side.
29. Working on the passenger side, remove the (2) stock bolts that connect the stock rear cross member to the stock passenger side rear lower control arm mounting point. The (2) stock bolts may be discarded. Photo # 5
30. Working on the driver side, measure 2" towards the inside of the vehicle from the stock rear lower control arm mounting point, scribe a mark on the stock rear cross member. Using a hacksaw or suitable cutting tool, carefully cut off the stock rear cross member along the line that was scribed earlier in this step. The stock rear cross member may be discarded. Special note: When making this cut, make sure that you cut all the way through the stock rear lower control arm mounting

point. If this cut is not performed properly, the stock front differential will not seat properly when the front differential is lowered into the new one piece lower sub frame. Also, Tuff Country EZ-Ride highly recommends not using a cutting torch when performing step # 30. Clean and dress up any exposed metal. Photo # 6	bracket. Locate (2) PB2408 poly bushings from hardware bag 16985PL and (1) S10082 crush sleeve from hardware bag 16985SL. Install the new poly bushings and crush sleeve into the new driver side differential relocation bracket. Special note: Make sure to use a lithium or moly base grease prior to inserting the new bushings into the new driver side differential relocation bracket. This will increase the life of the bushing as well as prevent squeaking.
 31. Working on the driver side, carefully cut flush, the remainder of the stock rear cross member that is located on the rear portion of the stock rear lower control arm mounting bracket. Special note: Take special care not to cut into the stock rear lower control arm mounting bracket. Tuff Country recommends not using a cutting torch when performing step # 31. Clean and dress up any exposed metal. 32. Locate the wiring harness that connects the 4WD control panel to the front differential. Disconnect the 4WD 	40. Locate (1) 7/16" X 3" bolt, (1) 7/16" unitorque nut, (2) 3/8" USS flat washers, (4) 10 mm x 60 mm bolts and (4) 10 mm lock washers from hardware bag 14985NB. Also, locate the S10120 that is packaged with the installer copy of the installation manual. Remove the (4) stock differential mounting bolts that connect to two halves of the front differential together. The stock hardware may be discarded. Secure the new driver side differential relocation bracket to the stock front differential using the new 10 mm x 60 mm bolts and hardware. Special note:
 wiring harness from the front differential. Tie the 4WD wiring harness up and out of the way. Special note: Take special care not to kink any wiring. Photo # 7 33. Place a pair of hydraulic floor jacks under the front 	Get all (4) new 10 mm x 60 mm bolts started but do not tighten at this point and make sure to use thread locker or lock tite. Secure the lower portion of the new driver side differential relocation bracket to the stock front differential using the new 7/16" x 3" bolt and hardware. Special note: Make sure to install the new S10120
differential, and carefully raise up on both hydraulic floor jacks at the same time, until they come into contact with the front differential.	sleeve between the new driver side differential relocation bracket and the front differential. Also, you will notice that there are (2) holes in the new driver side differential relocation bracket where the new
34. Disconnect any other vent hoses and/or wiring that is connected to the front differential.	S10120 sleeve will go, we need to match the hole that is on the front differential. Torque to 34 ft. lbs. Go back to the (4) new 10 mm x 60 mm bolts that hold the new
35. Working on the driver side, remove the stock hardware that connects the upper driver side tab of the stock front differential to the stock location. Save the stock hardware for later re-installation.	driver side differential relocation bracket to the stock front differential and torque to 34 ft Ibs. Special note: Do not use an air gun when installing the new hardware. Make sure not to over tighten the stock and new hardware associated with the front differential. If
36. Working on the passenger side, remove the (2) stock nuts that connect the passenger side of the stock front differential to the stock location and save the stock hardware for later re-installation.	could crack. Also, Tuff Country EZ-Ride Suspension
37. Carefully lower down on both hydraulic floor jacks at the same allowing enough room to remove the front	fluid into the front differential. To achieve this, you may have to fill the differential with it on its side or you may have to insert the fluid through the vend
differential completely from the vehicle. With the help from a buddy, carefully remove the front differential completely from underneath the vehicle and set the stock front differential on the ground or on a work bench.	 tube opening. On occasion, the customer may find burping of fluid coming out of the front vent tube. 41. Locate the new passenger side differential drop bracket and the stock hardware that was removed from
38. Working on the driver side of the stock front differential upper tab, measure 2" from the stock mounting point and scribe a mark on the stock front differential. Using a sawzall, carefully cut the upper tab off of the stock front differential and discard. Photo # 8 / side view Photo # 9 / pre cut view	step # 36. Working on the passenger side, install the new
Photo # 10 / nose cut off of the front differential 39. Locate the new driver side differential relocation	are standing on the passenger side wheel well looking at the new passenger side differential relocation bracket, you should not be able to see the

 mounting hardware. This will help you make sure that the bracket is installed properly. Photo # 11 42. With the help from a buddy, carefully lift the modified front differential back onto a pair of hydraulic floor jacks and move the hydraulic floor jacks back underneath the vehicle so that the newly modified front differential can be re-installed. 43. Locate (2) 9/16" x 1 3/4" bolts, (4) 1/2" USS flat 	49. Place a hydraulic floor jack under the front portion of the new one piece lower sub frame. Carefully raise up on the hydraulic floor jack until the front portion of the sub frame seats flush with the stock front cross member. Using the holes in the front portion of the new one piece lower sub frame as a guide, carefully drill (2) 7/16" holes into the bottom of the stock front cross member. Special note: On some vehicles, you may not have to drill the (2) 7/16" holes, they will already be in the stock front cross member.
washers and (2) 9/16" unitorque nuts from hardware bag 16985NB4. Carefully install the passenger side of the stock front differential to the previously installed passenger side differential drop bracket. Secure using the new 9/16" x 1 3/4" bolts and hardware. Do not tighten at this point and make sure to use thread locker or lock tite.	50. Locate (2) 7/16" x 1 1/2" bolts, (4) 3/8" USS flat washers and (2) 7/16" unitorque nuts from hardware 16985NB2. Secure the front portion of the new one piece sub frame to the stock front cross member using the new 7/16" x 1 1/2" bolt and hardware. Torque to 42 ft lbs. Make sure to use thread locker or lock tite. Carefully remove the hydraulic floor jack from under the front portion of the newly installed one piece lower sub frame.
44. Working on the driver side, using a tie down strap or bungee cord, carefully tie the driver side of the stock front differential up and out of the way so that the new one piece lower sub frame can be installed. Once the driver side of the front differential is tied up and out of the way, remove the hydraulic floor jacks from under the front differential. Photo # 12	51. Working in this order, torque the following stock and new hardware to proper torque specifications. First, on the driver side of the vehicle, torque the stock hardware that connects the rear portion of the stock front differential into the rear pocket of the new one piece lower sub frame to 75 ft Ibs . Next, working on the driver side, torque the stock hardware that connects the new driver side differential relocation bracket to the front tabs
45. Locate the new one piece lower sub frame and the stock lower control arm mounting hardware that was removed from step # 26. On the driver side, install the front and rear part of the new one piece lower sub frame into the stock front and rear lower control arm mounting points using the stock hardware. Do not tighten at this point and make sure to use thread locker or lock tite. Repeat procedure on passenger side.	located on the front portion of the new one piece lower sub frame to 75 ft lbs . Next, working on the passenger side, torque the stock hardware that connects the new passenger side differential drop bracket to the stock location to 75 ft lbs . Next, working on the passenger side, torque the new hardware that connects the stock front differential to the new passenger side differential drop bracket to 85 ft lbs . Next, working on the driver side, torque the stock hardware that connects the new
46. Carefully remove the tie down strap or the bungee cord that is holding the driver side of the stock front differential up and out of the way. Let the stock front differential rest on the newly installed one piece lower sub frame.	one piece lower sub frame to the stock front and rear
 47. Locate the stock hardware that was removed from step # 28. Install the rear portion of the front differential into the tab on the rear portion of the new one piece lower sub frame. Secure using the stock hardware. Do not tighten at this point and make sure to use thread locker or lock tite. Photo # 13 48. Locate the stock hardware that was removed from step # 35. Secure the newly installed front differential relocation bracket to the front portion of the new one piece lower sub frame. Secure using the stock hardware. Do not tighten at this point and make sure to use thread locker or lock the front portion of the new one piece lower sub frame. Secure using the stock hardware. Do not tighten at this point and make sure to use 	 52. Reconnect the 4WD wiring to the front differential. Also, reconnect any other vent hoses and/or wiring that was connected to the stock front differential. 53. Locate (2) 6199 poly bump stops from hardware bag 16985PL. Special note: There are (6) poly bump stops located in the poly bag, (4) are the same size and (2) are taller, locate (2) of the shorter poly bump stops. Also, locate (2) 3/8" unitorque nuts and (2) 5/16" USS flat washers from hardware bag 16985NB1. Working on the driver side rear portion of the newly installed one piece lower sub frame, secure the new poly bump stop using the new 3/8" hardware. Torque to 28 ft lbs. Repeat
thread locker or lock tite. Photo # 14	procedure on the passenger side. Make sure to use thread locker or lock tite.

 54. Locate (2) 5/8" x 4 1/2" bolts, (2) 5/8" x 5 1/2" bolts, (8) 9/16" USS flat washers and (4) 5/8" unitorupe nuts own the maxemple side. 60. Locate the stock rators that were removed in step # 24. Working on the driver side, install the stock lower control into the newly installed one piece lower sub frame's ide. 61. Locate the stock brake caliper hardware that was thread locker or lock tite. Repeat procedure on the passenger side. 62. Locate the newl friver side steering knuckle and stock hardware. For lock tite. Repeat procedure on the passenger side. 63. Locate the stock lower control arm ball point and the lower control arm ball point stock hardware. Secure back hardware to 74 ft thes. and the stock lower ball point special note: When installing the stock lower ball point special note: When installing the stock lower ball point special note: When installed on the stock lower ball point special note: When installing the stock lower ball point special note: When installing the stock lower ball point special note: When installing the stock lower ball point special note: When installing the stock lower ball point special note: When we driver side, carefully install the stock outer tie rod to the new steering knuckle and the stock CV axles that were removed in step 4 19. Working on the driver side. carefully install the stock outer tie rod to make sure to use thread locker or lock tite. Special note: When were removed in step 4 10. Working on the driver side. Carefully install the stock outer tie rod to make sure to use thread locker or lock that second tower side install the stock lower side install the stock outer tie rod to make sure to use thread locker or lock that second lower side. 63. Locate the stock Carefully install the stock lower side interverside. Special note: The new torsion bar cross member relocation brackets. The syleal note: The		
 lower control arms int were removed from step # 26. 60. Locate the stock rotors that were removed in step # 12. Working on the driver side, install the stock lower control the stock location. Repeat procedure on the passenger from location and secure using the new X67 × 14 12° bolt is ideal. 61. Locate the stock brake caliper hardware that was control into the newty installed one piece lower sub fremar's real location and secure using the new X67 × 51 install the stock brake caliper to the new driver side steering knuckle and stock that be assemption in the driver side steering knuckle and stock that be assemption in the passenger side. 55. Locate the new driver side steering knuckle and stock that be assembly the stock hardware for the upper control arm ball joint and the lower control arm ball joint at was removed in step # 12. Also, locate (10) shock the line stock brake line basenger side. 52. Locate the stock brake upper control arm ball joint at was insold the stock brake line to the new tree side steering knuckle and stock that he stock apper control arm ball joint at west stock apper control arm ball joint at west ins point. Torque the stock upper ball joint at west is located to the new steering knuckle and stock that he stock brake lines and ABS lines to the vericle. Make sure to use thread locker or lock tite. Repeat procedure on the passenger side. 53. Locate the stock CV axies that were removed from step # 11. Working on the driver side, steering knuckle. 54. Locate he stock CV axies that were removed from step # 11. Working on the driver side. 55. Locate the stock CV axies that were removed from step # 11. Working on the driver side. 56. Locate the stock Noring on the driver side, steering knuckle. 56. Locate the stock from differential and the stock location on the stock hadware store to the mew steering knuckle. 56. Locate the stock noring kn	(8) 9/16" USS flat washers and (4) 5/8" unitorque nuts	
to use thread locker or lock tite. Install the stock lower fame's rear location and secure using the new 5/8" x 5 install the stock brake caliper to the new driver side spindle and secure using the stock hardware. To reque to Make sure to use thread locker or lock tite. Repeat procedure on the passenger side. 55. Locate the new driver side steering knuckle and stock hob assembly the stock hardware for the upper control arm ball joint and the lower control arm ball joint that was souch lower control arm ball joint that was houckle at this point. Torque the stock uper ball joint stock lower control arm ball joint and the stock uper ball joint stock lower control arm ball joint and the stock brake line the stock abs? Line and the stock brake line the newly installed spindle. Also, locate (10 the new steering knuckle at this point. Torque the stock uper ball joint hardware to 74 ft lbs. and the stock lower ball joint stock to the stock uper ball joint stock the stock outer tie rod to the new steering knuckle at this point. Torque the stock uper ball joint hardware to 174 ft lbs. Special note: When installing the new driver side, carefully install the stock CV axle back into the passenger side. 56. Locate the stock CV axles thet were removed from stop ft. lbs. Make sure to use thread locker or lock tite. 57. Locate (12) 10 mm x 35 mm bolts and hardware. 57. Locate (12) 10 mm x 35 mm bolts and hardware the stock route filterontial and the stock V axle. 58. Locate the stock locate the stock core and the stock load shims. Working on the driver side, install (1) new CV axle shims between the stock for axle to stock hardware that concers the stock for axle to the how assembly. Repeat procedure on the stock hold assembly that and the stock for axle to the stock hold assembly caps that was removed from step #12. Norking on the driver side, not the stock hord ware that concers the stock for all fifterential. Refer to the scole braine with was removed from step #18. Repeat on the passenger side. 58. Locate the stock hardware	lower control arms that were removed from step # 26. Working on the driver side, install the stock lower control arm into the newly installed one piece lower sub frame's front location and secure using the new $5/8" \times 4 1/2"$ bolt	15. Working on the driver side, install the stock rotor into the stock location. Repeat procedure on the passenger
hub assembly, the stock hardware for the upper control arm ball joint and the lower control arm ball joint that was removed in step # 12. Also, locate (10) shock ties. Working on the driver side, secure the stock upper control arm using the stock hardware. Next, shock tie the stock ABS line and the stock lower control arm ball joint. Special note: Do not install the stock outer tie rod to the new steering knuckle at this point. Torque the stock upper ball joint hardware to 74 ft lbs. and the stock lower ball joint hardware to 74 ft lbs. and the stock lower ball joint hardware to 11 ft lbs. Special note: When installed the new driver side spindle, make sure that the stock brake line is located towards the inside of the passenger side steering knuckle. So Locate the stock CV axles that were removed from stock hardware. Also, locate (2) 900 CV axle shims. Working on the driver side, install (1) new CV axle shim between the stock cort differential and the stock CV axle shims. Working on the driver side, install (1) new CV axle shim between the stock cort differential. Refer to the scribe mark was made in step # 18. Repeat on the passenger side. So Locate the stock hardware that connects the scock and ardware. Torque to 45 ft. I.bs. Make sure to use thread locker vari- tock tite. Special note: Make sure to use thread locker vari- stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker so cork tie stock hardware that connects the stock hub assembly tab. Kake sure to use thread locker vari- tock tite. Special note: Make sure to use thread locker vari- stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker so cork tie and torque to 54 ft. Ibs. Make sure to use stresed locker so cork tie stock hub assembly using the stock frame rail. Special note: Using the new torsion bar stock frame rail. Special note: Wick missembly tab. Secure the stock hub assembly using the stock frame rail. Special note: Wick missembly tab. Secure the stock hub assembly using the stock frame rail. Special note: Wick m	to use thread locker or lock tite. Install the stock lower control into the newly installed one piece lower sub frame's rear location and secure using the new 5/8" x 5 1/2" bolt and hardware. Do not tighten at this point. Make sure to use thread locker or lock tite. Repeat	removed in step # 12. Working on the driver side, re- install the stock brake caliper to the new driver side spindle and secure using the stock hardware. Torque to 96 ft. lbs. Make sure to use thread locker or lock tite.
 passenger side steering knuckle. 56. Locate the stock CV axles that were removed from step # 11. Working on the driver side, install the stock outer tie rod to the new steering knuckle install the stock hardware. Make sure to use thread locker or lock tite. 57. Locate (12) 10 mm x 35 mm bolt and (12) 10 mm lock washers. Also, locate (2) 9802 CV axle shims. Working on the driver side, install (1) new CV axle shims. Working on the driver side, install (1) new CV axle shims between the stock front differential and the stock CV axle. Secure using the new 10 mm x 35 mm bolts and hardware. Torque to 45 ft. Ibs. Make sure to use thread locker or lock tite. Special note: Make sure to use thread locker or lock tite. Special note: Make sure to use thread locker or lock tite. Re-install the stock hub assembly caps that were removed in step # 18. Repeat on the passenger side. 58. Locate the stock hardware that connects the stock front differential. Refer to the scribe mark that were removed in step # 16. Working on the driver side, secure the stock hub assembly using the stock front axle to the stock hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to the stock hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to the stock hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to the stock rivets on the obtion of the stock hardware. Torque to 154 ft. Ibs. Make sure to the stock rivets on the bottom of the stock rivets on the bottom of the stock river side, reconnect the stock ABS 60. Working on the driver side, reconnect the stock ABS 	hub assembly, the stock hardware for the upper control arm ball joint and the lower control arm ball joint that was removed in step # 22. Using the stock hardware, secure the new driver side steering knuckle and stock hub assembly to the stock upper control arm ball joint and the stock lower control arm ball joint. Special note: Do not install the stock outer tie rod to the new steering knuckle at this point. Torque the stock upper ball joint hardware to 74 ft Ibs. and the stock lower ball joint hardware to 101 ft Ibs. Special note: When installing the new driver side spindle, make sure that the stock brake line is located towards the inside of the	removed in step # 12. Also, locate (10) shock ties. Working on the driver side, secure the stock brake line bracket to the stock upper control arm using the stock hardware. Next, shock tie the stock ABS line and the stock brake line to the newly installed spindle. Also, shock tie the stock ABS line and the stock brake lines together. Repeat procedure on the passenger side. Special note: In this step make sure that once you shock tie the stock brake lines and ABS lines to the spindle, there will be no contact on the new wheels and tires. If contact occurs, the stock brake lines or
 stock CV axle back into the stock hub assembly. Repeat procedure on the passenger side. 57. Locate (12) 10 mm x 35 mm bolt and (12) 10 mm lock washers. Also, locate (2) 9802 CV axle shims. Working on the driver side, install (1) new CV axle shim between the stock front differential and the stock CV axle. Secure the stock front differential. Refer to the stock and back into the stock location on the stock front differential. Refer to the scribe mark that was made in step # 18. Repeat on the passenger side. 58. Locate the stock hardware that connects the stock front differential. Refer to the scribe mark that was made in step # 18. Repeat on the passenger side. 58. Locate the stock hardware that connects the stock front axle to the stock hub assembly that was removed in step # 16. Working on the driver side, secure the stock front axle to the hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock location. Repeat procedure on the passenger side. 59. Working on the driver side, reconnect the stock ARS 	passenger side steering knuckle.56. Locate the stock CV axles that were removed from	was removed from step # 11. Working on the driver side, install the stock outer tie rod to the new steering knuckle using the stock hardware. Make sure to use thread locker
 washers. Also, locate (2) 9802 CV axle shims. Working on the driver side, install (1) new CV axle shim between the stock front differential and the stock CV axle. Secure using the new 10 mm x 35 mm bolts and hardware. Torque to 45 ft. Ibs. Make sure to use thread locker or lock tite. Special note: Make sure that the stock axle is re-installed back into the stock location on the stock front differential. Refer to the scribe mark that was made in step # 18. Repeat on the passenger side. 58. Locate the stock hardware that connects the stock front axle to the stock hub assembly that was removed in step # 16. Working on the driver side, secure the stock front axle to the hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. lbs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. lbs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. lbs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. lbs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. lbs. Make sure to use the torsion bar cross member relocation bracket to the new location on the stock location. Repeat procedure on the passenger side. 59. Working on the driver side, reconnect the stock ABS 	stock CV axle back into the stock hub assembly. Repeat procedure on the passenger side.	new steering knuckle has a reverse taper on it where the stock outer tie rod mounts to it, make sure to install the outer tie rod the proper way. The stock
 using the new 10 mm x 35 mm bolts and hardware. Torque to 45 ft. Ibs. Make sure to use thread locker or lock tite. Special note: Make sure that the stock axle is re-installed back into the stock location on the stock front differential. Refer to the scribe mark that was made in step # 18. Repeat on the passenger side. 58. Locate the stock hardware that connects the stock front axle to the stock hub assembly that was removed in step # 17. Also, locate the stock hub assembly that was removed in step # 16. Working on the driver side, secure the stock front axle to the hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock location. Repeat procedure on the passenger side. 59. Working on the driver side, reconnect the stock ABS 	washers. Also, locate (2) 9802 CV axle shims. Working	
 58. Locate the stock hardware that connects the stock front axle to the stock hub assembly that was removed in step # 17. Also, locate the stock hub assembly caps that were removed in step # 16. Working on the driver side, secure the stock front axle to the hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly cap back into the stock location. Repeat procedure on the passenger side. 59. Working on the driver side, reconnect the stock ABS 	using the new 10 mm x 35 mm bolts and hardware. Torque to 45 ft. lbs. Make sure to use thread locker or lock tite. Special note: Make sure that the stock axle is re-installed back into the stock location on the stock front differential. Refer to the scribe mark that	brackets. Locate (4) PB4902 poly bushings from hardware bag 16985PL. Also, locate (2) S10074 sleeves from hardware bag 16985SL. Install the new poly bushings and sleeves into the new torsion bar cross member relocation brackets. Special note: Make sure to use a lithium or moly base grease prior to inserting
 stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly cap back into the stock location. Repeat procedure on the passenger side. 59. Working on the driver side, reconnect the stock ABS 	front axle to the stock hub assembly that was removed in step # 17. Also, locate the stock hub assembly caps that	bar cross member relocation brackets. This will increase the life of the bushing as well as prevent
	secure the stock front axle to the hub assembly using the stock hardware. Torque to 154 ft. Ibs. Make sure to use thread locker or lock tite. Re-install the stock hub assembly cap back into the stock location. Repeat procedure on the passenger side.	cross member relocation bracket to the new location on the stock frame rail. Special note: Using the larger cut out holes in the torsion bar cross member relocation bracket over the stock rivets on the bottom of the stock frame rail with help center the new torsion bar

of vice grips and secure the new torsion bar drop bracket to the stock frame rail. Using the new torsion bar cross member relocation bracket as a guide, carefully drill (4) 7/16" holes into the stock frame. (2) on the side of the frame rail and (2) on the bottom. **Take special care not to drill into any stock hoses and/or lines running down the inside of the stock frame rail.** Remove the pair of vice grips that is holding the new torsion bar cross member relocation bracket to the frame rail. Repeat procedure on the passenger side of the vehicle.

66. Locate (8) 7/16" x 1 1/2" bolts, (16) 3/8" USS flat washers and (8) 7/16" unitorque nuts from hardware bag 16985NB2. Working on the driver side, secure the new driver side torsion bar cross member relocation bracket to the stock frame rail using the new 7/16" x 1 1/2" bolt and hardware. **Make sure to use thread locker or lock tite.** Torque to **76 ft lbs.** Repeat procedure on the passenger side.

Photo # 15

67. Locate the stock torsion bars that were removed from step # 9. Refer to the marks that were made in step # 7. This will allow you to re-install the stock torsion bars back into the stock location. **Example: Driver vs. Passenger and Front vs. Rear.** Working on the driver side, slide the stock torsion bar back into the stock rear lower control arm. Slide the stock torsion bar far enough forward so that the stock torsion bar cross member can be reinstalled. Repeat procedure on the passenger side.

68. Locate the stock torsion bar cross member and stock hardware that was removed from step # 8. Install the stock torsion bar cross member to the newly installed torsion bar cross member relocation brackets and secure using the stock hardware. **Make sure to use thread locker or lock tite.** Torque to **90 ft lbs.**

69. Locate the stock torsion bar keys that were removed from step # 7. Working on the driver side, install the stock torsion bar key back into the stock location in the stock torsion bar cross member. Slide the stock torsion bar back into the previously installed torsion bar key. Repeat procedure on the passenger side.

70. Locate the torsion bar adjusting blocks and hardware that was removed from step # 6. Working on the driver side, attach the torsion bar removing tool to the stock torsion bar cross member, making sure that the unloading bolt in the center of the torsion bar removing tool is in the small divot of the stock torsion bar key. Adjust the torsion bar key up high enough so that the stock small metal adjusting block and bolt can be reinstalled back into the stock location. Refer back to the measurements that were made in step # 5, and set to the torsion bar adjusting bolt to the stock setting. Repeat procedure on the passenger side. Carefully remove the torsion bar removing tool from the stock torsion bar cross member.

71. Locate the new front shocks. Special note: New longer front shocks are needed, 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 23" fully extended nitrogen gas shock. Locate (2) S10073 from hardware bag 16985SL. Also, locate (4) PB8297 upper shock bushings and (4) S10107 upper shock washers from hardware bag 16985PL. Working on the new shocks, install the new lower shock bushing into the lower eyelet and install the new S10073 shock sleeves into the previously installed bushings. 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 shock into the stock location using the stock hardware on the bottom mount that was removed in step # 4 and the new hardware on the top mount. Repeat procedure on the passenger side. Special note: Make sure to use the new upper bushings and upper shock washers. Torque the lower shock mount to 65 ft lbs. and the upper hardware to 22 ft lbs. Repeat on passenger side. Special note: Tuff Country EZ-Ride Suspension highly recommends that the shocks are installed with shock boots. If shock boots are not installed, damaged my occur to the piston of the new shock.

72. Locate the stock front drive line and hardware that was removed from step # 3. Re-install the stock drive line back into the stock location and secure using the stock hardware.

73. Locate the stock skid plate that was removed in step # 3. Referring to photo # 18, measure 2 5/8" from the leading edge of the stock skid plate and scribe a mark. Carefully cut along the scribed mark.

Photo # 16 / 2 5/8" measurement Photo # 17 / post cut view

74. Locate the (3) stock upper skid plate mounting hardware that we removed in step # 3. Install the newly modified skid upper skid plate to the stock upper location using the stock hardware. **Special note: Make sure to use thread locker or lock tite and torque to 28 ft lbs.**

75. Holding the stock skid plate to the front cross member, carefully drill a 3/16" hole through the stock skid plate and the stock front cross member.

Photo #18

76. Locate (1) 1/4" x 1" self threading bolt from hardware bag 14985NB. Secure the stock skid plate to the stock cross member using the new 1/4" x 1" self threading bolt. Photo # 19

77. Locate (2) front lateral compression arms. Locate (8) PB2408 poly bushings from hardware bag 16985PL. Also, locate (4) S10058 crush sleeves from hardware bag

 16985SL. Install the new poly bushings into each end of the new front lateral compression arms. Next, install the new crush sleeve into the newly installed poly bushings. Special note: Make sure to use a lithium or moly base grease prior to inserting the new bushings and sleeves into the new front lateral compression arms. This will increase the life of the bushing as well as prevent squeaking. 78. Locate (2) 1/2" x 3 1/2" bolts, (4) 7/16" USS flat washers and (2) 1/2" unitorque nuts from hardware bag 16985NB3. Working on the driver side, secure (1) new lateral compression arm to the new front lateral compression arm mount on the newly installed one piece 	step # 82. Working on the driver side, secure the new rear lateral compression arm mount to the previously drilled hole in the stock transfer case cross member. Use the new 3/8" x 1 1/2" self threading bolt. Torque to 28 ft lbs. Make sure to use thread locker or lock tite. Repeat procedure on the passenger side. Special note: Make sure that the longer leg of the new lateral compression arm is towards the rear of the vehicle. Refer to Photo # 20 for proper placement. Photo # 20 84. Working on the driver side, secure the new lateral compression arm to the previously installed rear lateral compression arm mount. Secure using the new 1/2" x 3
lower sub frame using the new 1/2" x 3 1/2" bolt and hardware. Do not tighten at this point and make sure to use thread locker or lock tite. Repeat procedure on the passenger side.	1/2" bolt and hardware. Torque the front and rear mount to 85 ft lbs. Repeat procedure on the passenger side Photo # 21 / Front Location Photo # 22 / Rear Location
79. Working on the driver side, measure from the new lateral compression arm mount located on the previously	85. Re-install the tires and wheels and carefully lower the vehicle to the ground.
installed one piece lower sub frame back to the center of the stock transfer case cross member. Special note: Chevy has a variation on the placement of the stock transfer case cross member. Your measurement should either be 31" or 32" long. Remember the measurement, this measurement is needed in step # 80.	86. There is still a couple of steps that need to be completed on the front end but these steps will not be completed until the rear end installation is completed and the weight of the vehicle is on the ground. These steps include; the installation of the front sway bar end links and the tightening of the new hardware that connects the lower control arms to the newly installed sub frame.
80. Locate (2) 1/2" x 3 1/2" bolts, (4) 7/16" USS flat washers and (2) 1/2" unitorque nuts from hardware bag 16985NB3. Also, locate (2) rear lateral compression	Rear end installation:
mounts. Working on the driver side, if the measurement that you had in step # 79 was 31", secure the new lateral compression arm to the new rear lateral compression arm mount rear hole using the new 1/2" x 3 1/2" bolt and hardware. Do not tighten at this point. If the measurement that you had in step # 75 was 32", secure the new lateral compression arm to the new rear lateral	87. 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.
compression arm mount front hole using the new 1/2" x 3 1/2" bolt and hardware. Do not tighten at this point. Hold the new lateral compression arm and mount up to the stock transfer case cross member and scribe a mark on the transfer case cross member where the new mount will go. Repeat procedure on the passenger side.	88. Working on the driver side, remove the stock shock from the stock upper and lower mounting points and save the stock hardware for later re-installation. The stock shocks may be discarded. Special note: New longer rear shocks are needed, if you have not already ordered shocks, please contact Tuff Country or your
81. Working on the driver side, carefully drill a 5/16" hole in the bottom of the stock transfer case cross member. Refer to the mark that was scribe in step # 80. Repeat procedure on the passenger side.	local Tuff Country dealer and order the proper shocks. Tuff Country recommends using a 30" fully extended nitrogen gas shock. Repeat procedure on the passenger side.
82. Working on the driver side lateral compression arm, remove the new lateral compression arm mount from the new lateral compression arm and save the new hardware for later re-installation. Repeat procedure on the passenger side.	89. Place a pair of hydraulic floor jacks under the rear differential and carefully raise up on both hydraulic floor jacks at the same time until they come into contact with the rear differential.
 83. Locate (2) 3/8" x 1 1/2" self threading bolts from hardware bag 16985NB1. Also, locate the new rear lateral compression arm mounts that were removed from 	90. Working on the driver side, remove the stock u-bolts from the stock location and discard the stock u-bolts and hardware. Set the stock upper and lower u-bolt plates a side for later re-installation. Repeat procedure on passenger side.

 91. Carefully lower down both hydraulic floor jacks at the same time approximately 5". Special note: Take special care not to over extend any brake lines and/or hoses. 92. Locate (2) new rear 4" lifted blocks. Working on the driver side, install the new 4" lifted block into the stock location. Repeat procedure on the passenger side. 93. Carefully raise up on both hydraulic floor jacks at the same time until the stock spring assembly sits flush with the newly installed 4" lifted block. 	teflon inserts located on the stock over load in the stock spring assembly. Discard the stock teflon inserts. Install (1) 6052 (taller poly bump stop) in front location on the stock spring assembly. Secure using the new 3/8" hardware. Torque to 28 ft lbs. Install (1) 6199 (shorter poly bump stop) in the rear location on the stock spring assembly. Secure using the new 3/8" hardware. Torque to 28 ft lbs. Repeat procedure on the passenger side. Illustration # 24 / front location Illustration # 25 / rear location
 94. Locate (4) 5/8" x 2 3/4" x 16 1/2" square u-bolts. Locate (8) 5/8" u-bolt high nuts and (8) u-bolt washers from hardware bag 58NW. Also, locate the stock upper and lower u-bolt plates that were removed from step # 90. Working on the driver side, install the new u-bolts into the stock location and secure using the new 5/8" high nuts and washers. Special note: Make sure to re-install the stock upper and lower u-bolt plates. Torque to 135 ft lbs. Repeat procedure on passenger side. 95. Working on the driver side. Special note: New longer rear shocks are needed, 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 (2) S10074 from hardware bag 16985SL. Working on the upper and lower eyelets of the new shocks. Next, install the new shock sleeves into the proviously installed shock bushings. Special note: Use the new S10074 shock sleeves and the proper shock sleeves that are located in the new sleeve bag that was provide with your new shock into the stock location and secure using the stock hardware that was removed in step # 88. Special note: Make sure to use a lithium or moly base grease prior to inserting the new lower shock tite and torque to 75 ft lbs. Repeat procedure on the passenger side. Special note: Tuff Country EZ-Ride Suspension highly recommends that the shocks are installed with shock boots. If shock boots are not installed, damaged my occur to the piston of the new shocks. 	If the vehicle that you are working on has a 2 piece rear drive shaft, please follow step 98 — 99 If the vehicle that you are working on does not have a 2 piece rear drive shaft, please skip to step # 100 98. Carefully place a hydraulic floor jack under the rear driveline near the stock carrier bearing mounting location. Raise up on the hydraulic floor jack until it comes into contact with the rear driveline. Remove the stock hardware that connects the stock carrier bearing to the stock location and discard the stock hardware. Carefully lower down on the hydraulic floor jack allowing enough room for the new rear carrier bearing drop. Locate (2) \$10007 crush sleeves from hardware bag 16985SL. Also, locate (2) 3/8" x 3 1/2" bolts, (4) 5/16" USS flat washers and (2) 3/8" unitorque nuts from hardware bag 16985NB1. Install the new carrier bearing drop bracket between the stock carrier bearing and the stock mounting point. Secure using the new 3/8" x 3 1/2" bolts, crush sleeves and hardware. Torque to 28 ft lbs. Carefully remove the hydraulic floor jack from under the rear drive line. Special note: The stock carrier bearing mount has slotted holes, make sure that when you torque the new 3/8" hardware that the new carrier bearing is pushed as far forward as possible. Illustration # 26 100. Install the tires and wheels and carefully lower the vehicle to the ground. Step # 101 and # 102 needs to be performed with the weight of the vehicle on the ground. 101. Working on the driver side, move back to the new 5/8" hardware attaching the stock lower control arms to the newly installed one piece lower sub frame and torque
 96. Carefully remove the (2) hydraulic floor jacks from under the rear differential. 97. Locate (2) 6199 poly bump stops and (2) 6052 poly bump stops from hardware bag 16985PL. Also, locate (4) 3/8" unitorque nuts and (4) 5/16" USS flat washers from hardware bag 16985NB1. Working on the driver side of the stock rear spring assembly. Remove the (2) stock 	to 125 ft lbs. Repeat procedure on the passenger side. 102. Locate (2) 3/8" x 7" bolts and (2) 3/8" unitorque nuts from hardware bag 16985NB1. Locate (2) S10067 sway bar end link sleeves from hardware bag 16985SL. Also, locate (8) sway bar end link poly bushings and (8) sway bar end link washers from hardware bag 16985PL. Special note: If you did not Invert the stock sway bar in step # 10, invert the stock sway bar now. Working

hardware into the stock location and torque to 32 ft lbs. Repeat procedure on passenger side. 103. Check and double check to make sure that all steps were performed properly and then check again. Check 7/16" 30 - 35 ft lbs. 3/8" 28 - 32 ft lbs. 3/8" 30 - 35 ft lbs. 1/2" 65 - 85 ft lbs. 1/2" 85 - 120 ft lbs. 5/6" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130 ft lbs. 5/8" 95 - 130 ft lbs. 3/4" 100 - 140 ft lbs. 5/8" 95 - 130



Photo # 1

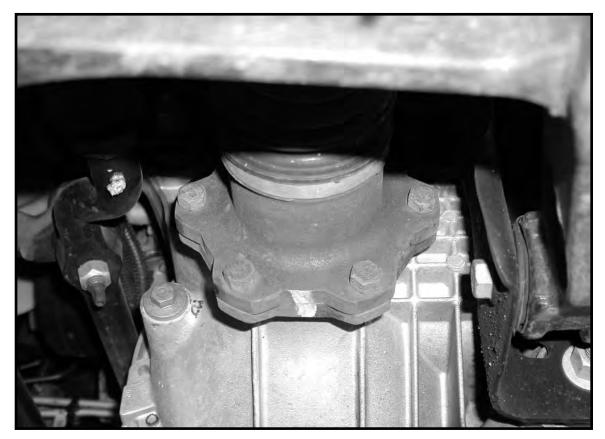


Photo # 2



Photo # 3

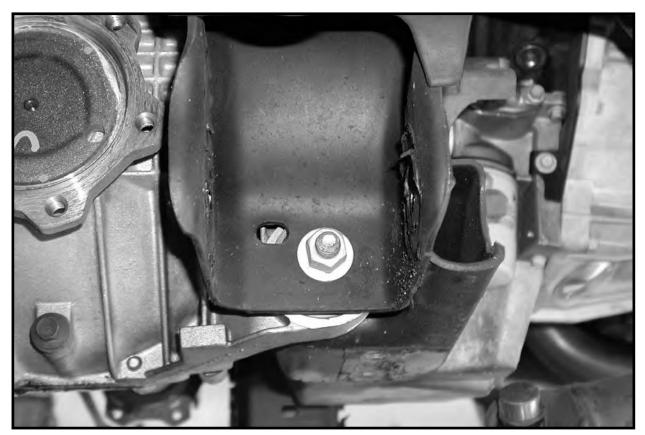


Photo # 4



Photo # 5

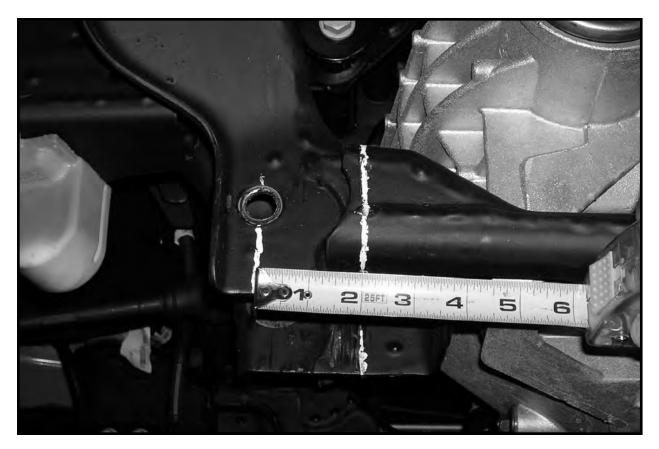


Photo # 6



Photo # 7

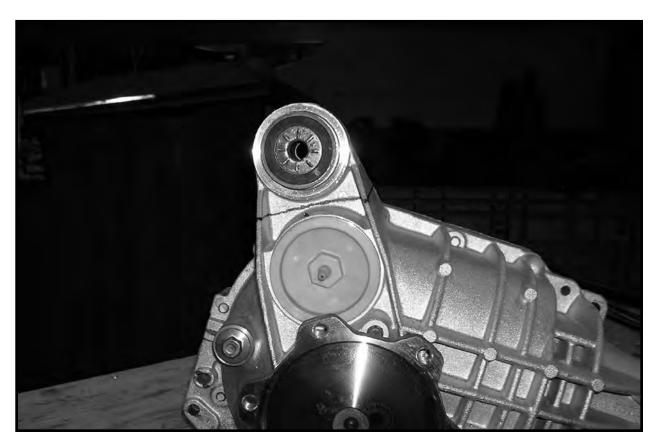


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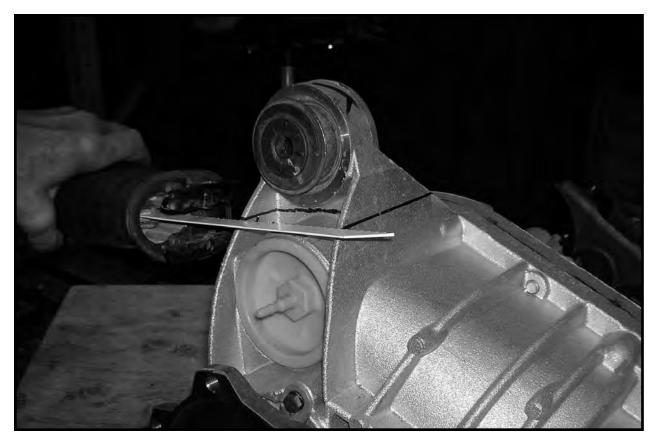


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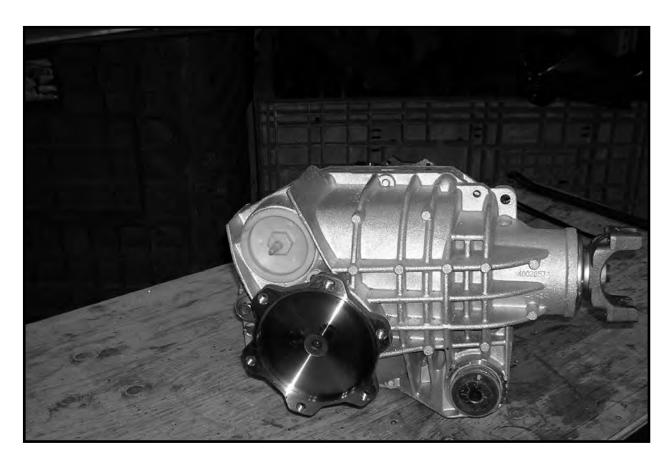


Photo # 10

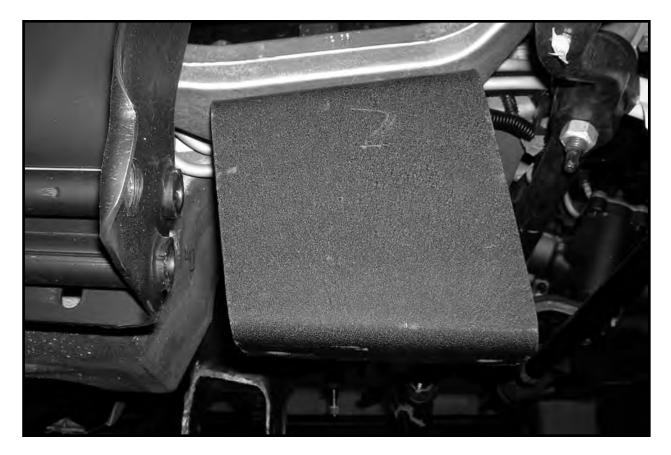


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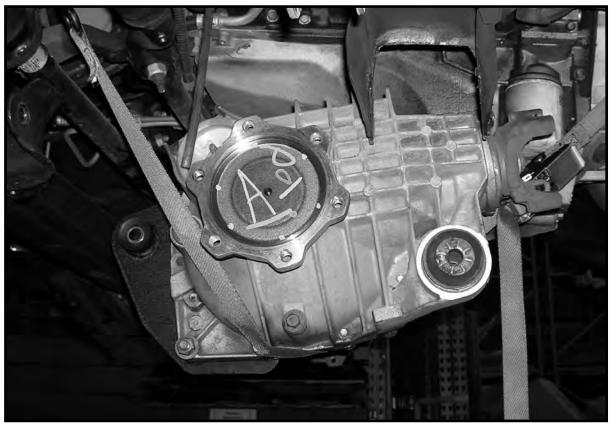


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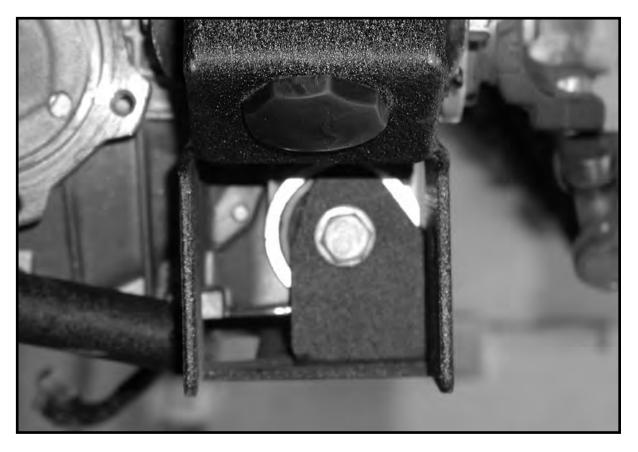


Photo # 13



Photo # 14



Photo # 15



Photo # 16



Photo # 17



Photo # 18



Photo # 19



Photo # 20

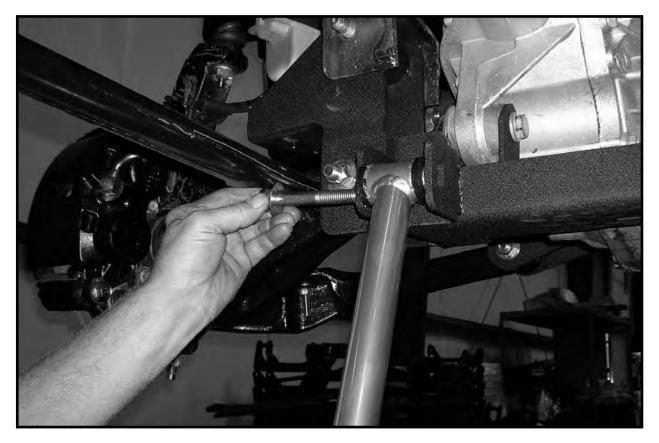


Photo # 21



Photo # 22



Photo # 23

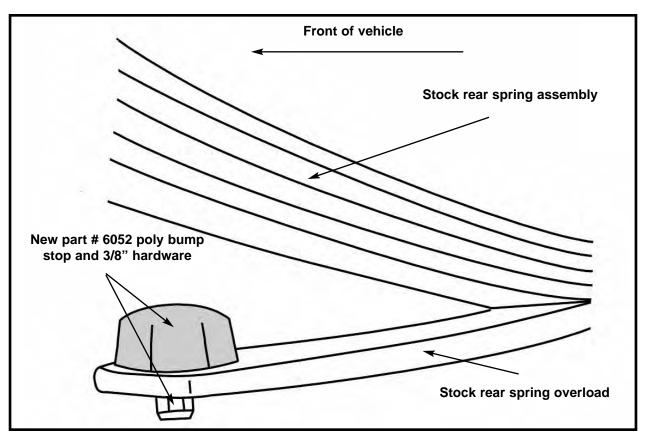


Illustration # 24

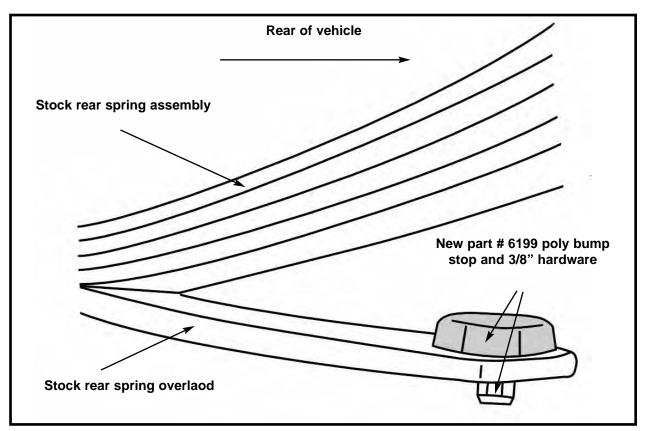


Illustration # 25

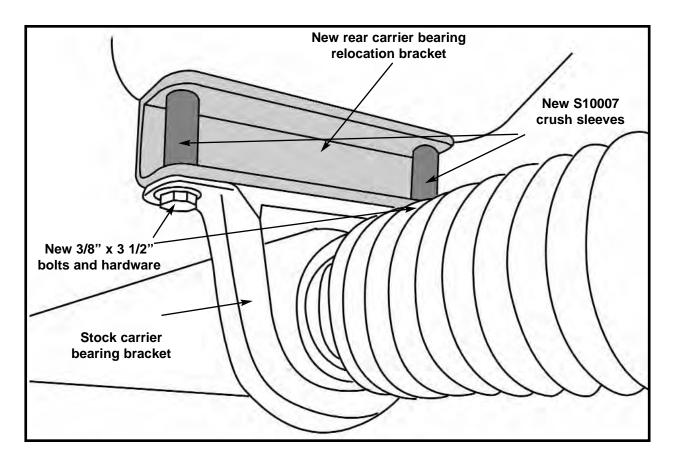


Illustration # 26



16985-01M / qty. 1



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16985-02M / qty. 1
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16985-04 / qty. 1



16985-12 / qty. 2



HDDIFF-01 / qty. 1



16985-07 / qty. 1



TBD99-01 / qty. 2



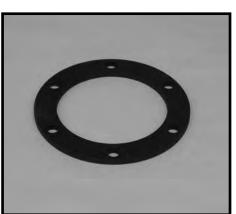
16985-10 / qty. 1



16985-11 / qty. 2



BL402 / qty. 2



9802 / qty. 2



5U-9297S / qty. 4