

# Installation Instructions



# 2007 - 09 GM 1500 Truck 6" Basic System FTS21040BK / FTS21046BK / FTS21042BK 2007 - 09 GM 4WD K1500 P/U ONLY

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DO NOT ALTER THE FINISH OF THESE COMPONENTS, EXAMPLE- CHROMING, ZINC PLATING OR PAINTING. CHANGING THE FINISH CAN CAUSE STRUCTURAL FATIGUE OF COMPONENTS.

SUSPENSION SYSTEM MUST BE INSTALLED WITH FABTECH SHOCK ASBORBERS

VEHICLES THAT WILL RECEIVE OVERSIZED TIRES SHOULD CHECK BALL JOINTS, TIE RODS ENDS AND IDLER ARM EVERY 2500-5000 MILES FOR WEAR AND REPLACE AS NEEDED

CHECK ALL PARTS INCLUDED IN THIS KIT TO THE PARTS LIST ABOVE BEFORE BEGINNING INSTALLATION OF THE KIT. IF ANY PIECES ARE MISSING, CONTACT FABTECH AT 909-597-7800

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED, SEVERE FRAME, DRIVELINE AND / OR SUSPENSION DAMAGE MAY RESULT.

NOTE- PRIOR TO THE INSTALLATION OF THIS SUSPENSION SYSTEM A FRONT END ALIGNMENT MUST BE PERFORMED AND RECORDED. DO NOT INSTALL THIS SYSTEM IF THE VEHICLE ALIGNMENT IS NOT WITHIN FACTORY SPECIFICATIONS. CHECK FOR FRAME AND SUSPENSION DAMAGE PRIOR TO INSTALLATION. THIS SUSPENSION SYSTEM DOES NOT REQUIRE WELDING FOR INSTALLATION. DO NOT WELD ANY OF THESE COMPONENTS.

THE INSTALLATION OF THIS SUSPENSION SYSTEM SHOULD BE PERFORMED BY TWO PROFESSIONAL MECHANICS.

FABTECH RECOMMEND'S A 17X8 WHEEL WITH A 5" BACK SPACING WITH A 35x12.50r17 TIRE

FT20300 WHEEL SPACER IS TO BE USED WITH THE SPARE TIRE ONLY. IT IS FOR TEMPORARY USE ONLY. THE WHEEL SPACER IS TO BE GIVEN TO THE END CONSUMER AND PLACE WITH THE FACTORY SPARE WHEEL AND TIRE. WHEEL SPACERS ARE FOR LOW SPEED OPERATION ONLY, 50 MPH AND SLOWER.

BE SURE TO USE THREAD LOCKING COMPOUND ON ALL HARDWARE.



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### PARTS LIST

FTS21040B K		Chevy 2007 Box 1	
Qu			
а	Part #	Description	
1	FT20282BK	Frt Crossmember	
1	FT20283BK	Rear Crossmember	
1	FT20347	Driver Diff Bracket	
1	FT20348	Pass. Diff Bracket	
1	FT20304BK	Diff Skid Plate	
2	FT20284BK	Crossmember Support Tube	
2	FT20287BK	Impact Tube	
2	FT20288	Impact Tube Bracket	
1	FT20399	Hdwr Sub-Assembly Kit	
1	FT20308	Hardware Kit	

	FTS21042B K	Box 3 Coil Spacer
Qu a	Part #	Description
1	FT20295	Hardware Kit
2	FT20323BK	Shock Extension
4	FT20324BK	Shock Brackets
2	FT20339BK	Shock Mount To Arm
1	FT20397	Hdwr Sub-Assembly Kit

	FT20397	Hdwr Sub-Assembly Kit	
Qu a	Part #	Description	
4	FT1036	Bushing Lower Mount	
2	FT148	Sleeve	
4	FT20342	Alum. Shock Mount Bushing Half	
		"non- auto ride bushing halves"	
4	FT20352	Lower Mount Shim	
		(forged steel a-arms only)	

### TOOL LIST: (NOT INCLUDED)

- FLOOR JACK & JACK STANDS
- ASSORTED METRIC AND S.A.E SOCKETS, & WRENCHES

FTS21046B K Chevy Truck 4wd 200		Chevy Truck 4wd 2007 Box 2
Qu a Part #		Description
1	FTS20276D	Drv. Spindle
1	FTS20276P	Pass. Spindle
2	FT20289	C.V. Spacer
1	FT20312	Sway Bar Frame Bracket Drv.
1	FT20318	Sway Bar Frame Bracket Pass
1	FT20380	Hdwr Sub-Assembly Kit
2	FTBK5	Lift Block
4	FT1500U-3	U-Bolts
2	FT20024	Add-a-Leaf
2	FT20025	Bump Stop Spacer

	FT20380	Hdwr Sub-Assembly Kit
2	FT20305	Sway Bar Link Bracket D/P.
1	FT916H	U-Bolt Hardware
2	BTM-10X130	Center Pin Bolt
2	NUT-HM-10	Center Pin Nut
1	FT20353	Hardware
1	FT20349	Brake Line Bracket
2	FT21046i	Instruction Sheet Front ONLY
4	8" zip ties	

	FT20399	Hdwr Sub-Assembly Kit
Qu a	Part #	Description
1	FT1044	Bushing Kit
2	FT20277	Drv./Pass Outer Tie Rod End
1	FT20300	1/4" Wheel Spacer
1	FT20313	Drv. Frt. Brake Line Bracket
1	FT20314	Pass. Frt. Brake Line Bracket

- LARGE C CLAMP OR C CLAMP VISE GRIPS
- DIE GRINDER WITH CUTOFF WHEEL OR SAWZALL
- TORQUE WRENCH



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	Hardware Kit FT20308				
Qty.	Description	Location	Qty.	Description	Location
2	5/8"-11 x 5" Hex Cap Bolt	Front Crossmember	2	1/2"-13 x 1 3/4" Hex Cap Bolt	Diff Drop Bracket Dr.
2	5/8"-11 x 5 3/4" Hex Cap Bolt	Rear Crossmember	2	1/2"-13 C-Locks	
8	5/8" SAE Flat Washer		4	1/2" SAE Flat Washer	
4	5/8"-11 C-Locks		2	9/16"-12 x 1 3/4" Hex Cap Bolt	Diff Drop Brkt Pass.
2	18mm- 2.50 x 50mm Bolt	Front Sway bar	2	9/16"-12 C-Lock Nut	
2	18mm- 2.50 C-Locks		4	9/16" SAE Flat Washer	
4	18mm Flat Washer		2	7/16"-14 x 1 1/4" Hex Cap Bolt	Skid Plate
4	7/16"-14 x 3 1/2" Bolt	Impact Struts	1	1/2"-12 x 1 1/4" Hex Cap Bolt	
4	7/16"-14 C-Locks		2	7/16"-14 C-Lock Nut	
8	7/16" SAE Flat Washer		1	1/2"-13 C-Lock Nut	
4	1/4"-20 x 3/4" Hex Cap Bolt	Front Brake Drop Brkt	4	7/16" SAE Flat Washer	
4	1/4"-20 C-Locks		2	1/2" SAE Flat Washer	
8	1/4" SAE Flat Washer		12	10mm 1.50 x 50mm	Axle Bolts
4	7/16"-14 x 2 1/4" Bolt	Sway Bar Drop Bracket	12	10mm Flat Washer	
4	7/16"-14 C-Locks		2	1/4"-20 x 3/4" Hex Cap Bolt	ABS Cable@Spindle
8	7/16" SAE Washer		2	1/4" Split Washer	
4	10mm x 1.5 x 30mm Bolt		2	1/4" SAE Flat Washer	
4	10mm x 1.5 C-Lock Nut		2	1/4" Adel / Line Clamp	
8	10mm Flat Washer		6	6" Cable Ties	
			1	Thread Locking Compound	

	Hardware Kit FT20295	
Qty.	Description	Location
4	7/16"-14 x 2 1/2" Hex Cap Bolt	Strut Mnt Brkt @ L.C.A.
4	7/16"-14 C-Locks	
8	7/16" SAE Flat Washer	
4	1/2"-13 x 4" Hex Cap Bolt	Strut. Ext. to Brackets
2	1/2"-13 x 3 3/4" Hex Cap Bolt	Front Lower Strut
6	1/2"-13 C-Locks	
12	1/2" SAE Flat Washer	
8	5/16"-18 x 1 1/2" Hex Cap Bolt	Strut Mount Brackets
8	5/16"-18 C-Locks	
16	5/16" SAE Flat Washer	

	Hardware Kit FT20353	
Qty.	Description	
1	5/16"-16 x 1" Hex Cap Bolt	Rear B- Line
1	5/16"-16 C-Lock	
2	5/16" SAE Flat Washer	
2	10mm-1.5 x 20mm Bolt	Bump Stop
2	10mm-1.5 x 25mm Bolt	
2	10mm Flat Washer	

#### FRONT SUSPENSION INSTRUCTIONS:

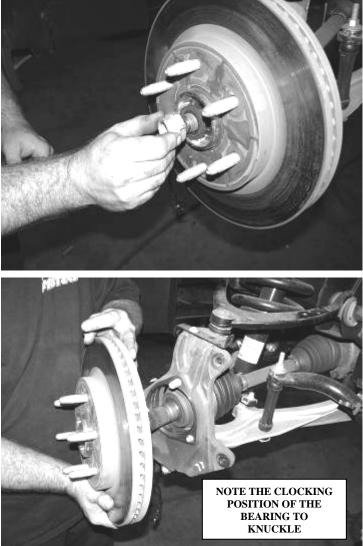
- Disconnect the negative terminal on the battery. With the vehicle on level ground and the emergency brake set, block the rear tires. Jack up the front end of the truck and support the frame rails with jack stands. <u>NEVER</u> <u>WORK UNDER AN UNSUPPORTED VEHICLE!</u> Remove the front tires.
- 2. Disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end. Use care not to damage the tie rod end when removing. SEE PHOTO BELOW



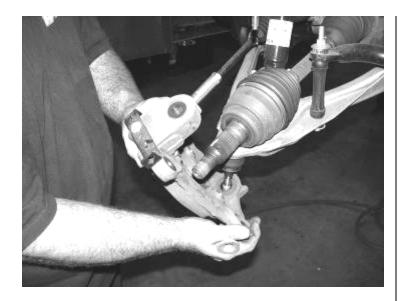
3. Unplug the ABS brake connection from the frame and control arm. Remove the brake hose bracket from the steering knuckle. Remove the brake hose bracket from the coil bucket and save hardware. Remove the caliper from the rotor and secure the brake caliper to the frame out of the way. DO NOT ALLOW THE BRAKE CALIPER TO HANG FROM THE BRAKE LINE HOSE. SEE PHOTO BELOW



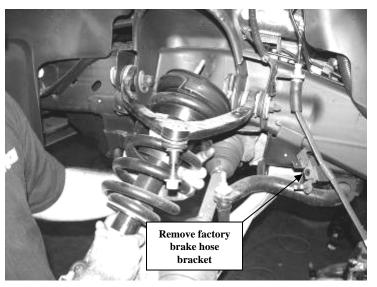
4. Remove the wheel stud clips and discard. Remove bearing cover, axle nut, washer, and rotor with hub bearing. (DO NOT REMOVE THE HUB FROM THE ROTOR). Retain parts and hardware for reinstallation. SEE PHOTOS IN NEXT COLUMN.



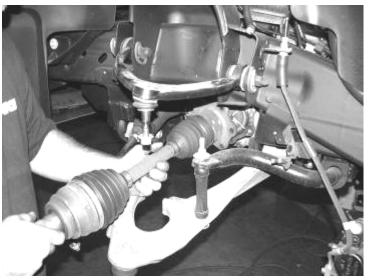
5. Remove the upper and lower ball joint nuts. Disconnect the upper and lower ball joints from the steering knuckle by striking the knuckle with a large hammer next to each ball joint on the knuckle to dislodge the ball joints. Use care not to hit the ball joints when removing. Save nuts and discard knuckle. SEE PHOTO BELOW



6. Remove the shock assembly and save with the hardware. Remove and discard the factory brake line bracket from the brake hose that attached the hose to the upper control arm. SEE PHOTO BELOW



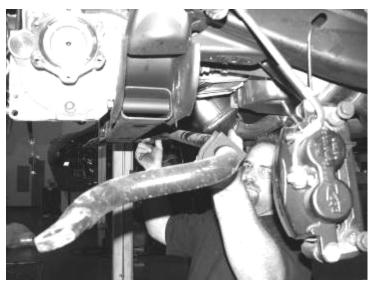
7. Disconnect and remove CV axles from differential housing and the sway bar endlinks and save. Discarding ONLY the CV axle hardware. SEE PHOTO BELOW.



8. Remove the lower control arms from the frame and retain with the hardware for reinstallation. SEE PHOTO IN NEXT COULMN

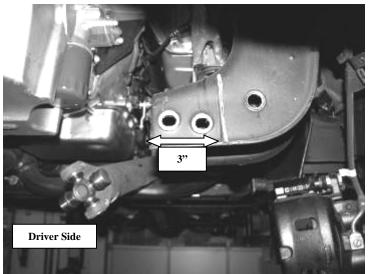


9. Locate, remove, and save the sway bar, discard hardware. SEE PHOTO BELOW



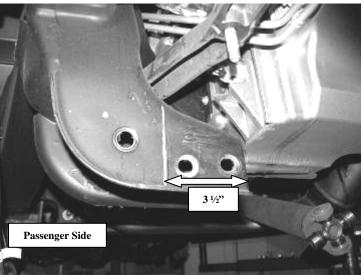
10. Remove front factory differential skid plate and splash shield and discard.

- 11. Disconnect front driveshaft from differential housing and retain bolts and u joint clamps for reinstallation. Locate, remove, and discard the factory rear crossmember with hardware.
- 12. Disconnect the electrical connection including the two retaining clamps and the vacuum line from differential housing. Remove differential housing assembly from vehicle. Retain hardware for reinstallation.
- 13. Locate the rear driver lower control arm mount on the frame. Measure 3" from the inside edge of the mount toward the frame and mark with a paint pen. Use a sawzall and cut the mount from the frame. SEE PHOTOS ON NEXT PAGE.



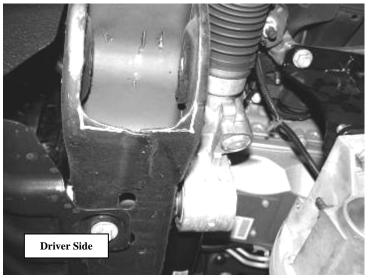
View from front of vehicle

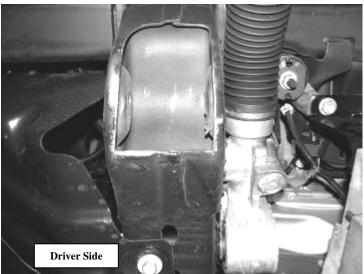
14. Locate the rear passenger lower control arm mount on the frame. Measure 3 <sup>1</sup>/<sub>2</sub>" from the inside edge of the mount toward the frame and mark with a paint pen. Use a sawzall and cut the mount from the frame. SEE PHOTO BELOW



View from front of vehicle

Locate the factory front lower control arm pockets. Grind ¼" section from both Corners of the pockets as shown in the photo. SEE PHOTOS IN NEXT COLUMN

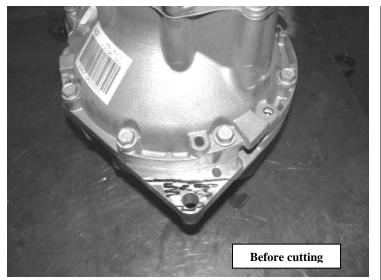


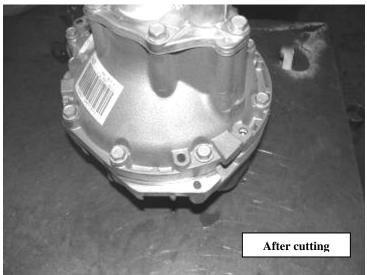


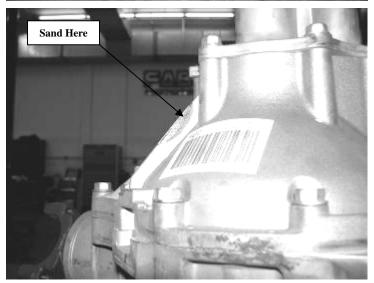
This step must be done on the Driver and Passenger Side

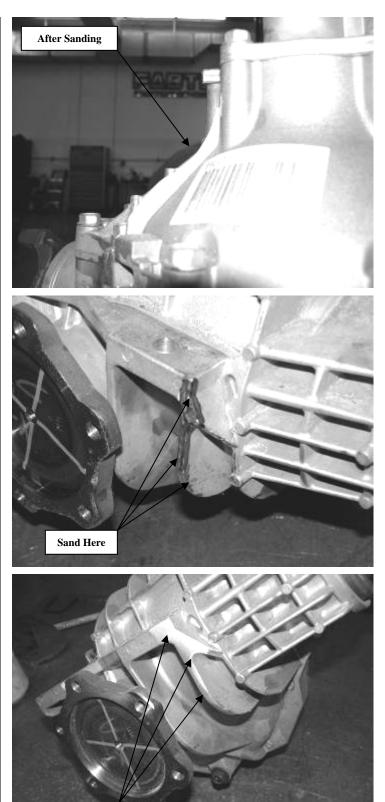
#### DUE TO VARIANCES IN EACH TRUCK, ADDITIONAL GRINDING MAY BE REQUIRED FOR PROPER FITMENT OF THE CROSSMEMBERS. USE THESE MEASUREMENTS AS A STARTING POINT AND CLEARANCE THE FRAME POCKETS AS NEEDED FOR PROPER FITMENT OF THE CROSSMEMBERS

16. Locate the front differential. The diff will need to be trimmed / cut in three places. The first is the 90 degree tab on the bottom front of the diff. Measure in 1 ¼" from the outer edge and cut with a sawzall as shown in photos. The second cut is the bottom rear gusset on the passenger side of the diff. Measure down ¼" from the pinion side of the gusset and mark 1 ½" long and ½" deep. Using a barrel sander, sand down the gusset as shown in photos below. The third cut is second gusset from the rear on the driver side of the diff. Mark the gusset 2 ¼" from the top and a ¼" in. Using a barrel sander, sand down the gusset as shown in photos below.





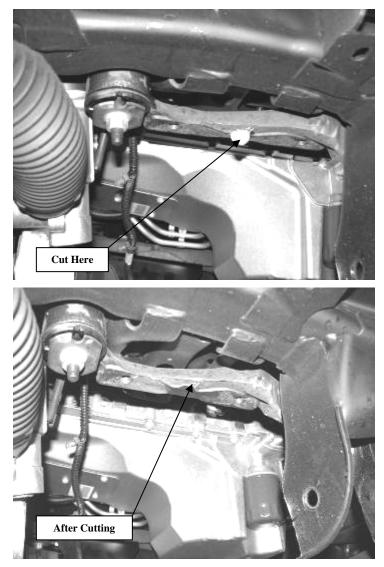




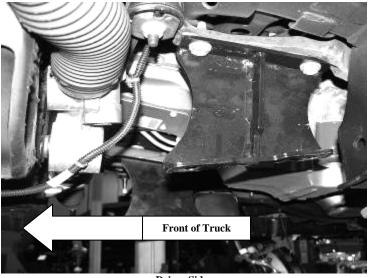
After Sanding

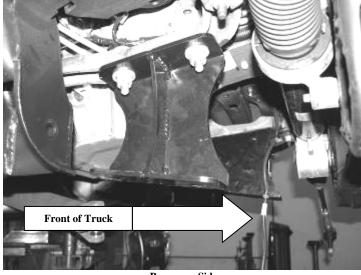
#### USE THESE MEASUREMENTS AS A STARTING POINT AND CLEARANCE THESE AREAS AS NEEDED FOR PROPER FITMENT OF THE DIFFERENTIAL

17. Locate the driver upper differential mount. The locating pin on this mount needs to be cut off. Using a die grinder with a cutoff wheel, cut the pin flush with the bracket. SEE PHOTOS BELOW AND ON NEXT PAGE



18. Locate FT20347 (driver) & FT20348 (pass) Diff. brackets and the factory diff hardware. Install the brackets to the factory mounts with the taller part of the bracket to the front of the truck with the factory hardware. Torque to 75 ft lbs. SEE PHOTOS BELOW





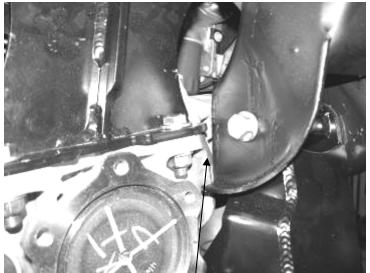
Passenger Side

 Locate the supplied <sup>1</sup>/<sub>2</sub>" x 1 <sup>3</sup>/<sub>4</sub>" and 9/16" x 1 <sup>3</sup>/<sub>4</sub>" hardware and the front diff. Install the diff onto the new drop brackets using the <sup>1</sup>/<sub>2</sub>" hardware on the driver's side and the 9/16" on the passenger side. Torque the <sup>1</sup>/<sub>2</sub>" hardware to 75ft lbs and the 9/16" to 95 ft lbs. Re-connect the electrical and vacuum connections back onto the diff. (CHECK THE CLEARANCE OF THE DIFF TO THE FRAME IN SANDED AND CUT SPOTS ON THE DIFF. FOR ADAQUATE CLEARANCE TO THE FRAME AND CROSSMEMBER) .SEE PHOTO BELOW



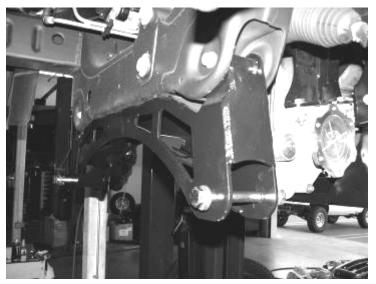
20. Locate and install FT20283 rear crossmember into the factory lower control arm pockets using the stock hardware and leave loose at this time. (CHECK THE CLEARANCE OF THE DIFF TO CROSSMEMBER WHERE IT WAS SANDED DOWN IN STEP #18 FOR ADAQUATE CLEARANCE TO THE FRAME AND CROSSMEMBER ) SEE PHOTOS ON NEXT PAGE

**Driver Side** 

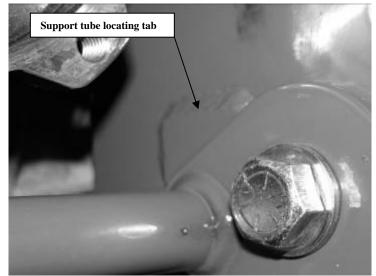


Check for clearance of the diff to the frame and crossmember

21. Locate and install FT20282 front crossmember into the factory lower control arm pockets using the stock hardware. Leave loose. SEE PHOTO BELOW

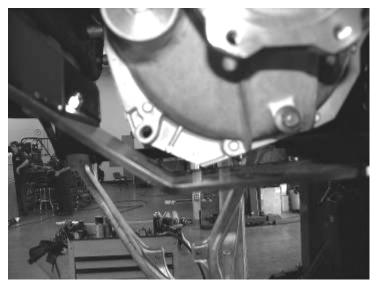


22. Locate FT20284 Crossmember Support Tubes. Install the lower control arms into the new crossmembers using the 5/8" x 5" hardware in the front pocket. Position the control arms into the crossmember and insert only the front 5/8" bolt just so that it is through the arm. Position the Support tube between the crossmembers and rotate them up to the locating tabs on the crossmember. Install 5/8" x 5 ¾" hardware in the rear pocket and the front bolt with hardware. Leave loose. SEE PHOTO IN NEXT COLUMN.



Driver side shown

23. Locate FT20304 Skid Plate and the supplied <sup>1</sup>/<sub>2</sub>" x 1-1/4" hardware and attach the rear of the skid plate to the bottom of the rear crossmember. Use the supplied 7/16" x 1 <sup>1</sup>/<sub>4</sub>" hardware and attach the front of the skid plate to the front crossmember (make sure that the diff is clearanced enough to clear the skid plate). SEE PHOTO IN NEXT COLUMN.



- 24. Torque the crossmember frame pocket bolts to 125lbs, the lower control arm bolts to 110 ft lbs. the <sup>1</sup>/<sub>2</sub>" skid plate hardware to 75ft lbs, and the 7/16" to 50 ft lbs.
- 25. Locate the factory coilovers. Remove the nut clips from the cross-shaft and discard. Using a press, press out the cross-shaft and the bushing from the bottom of the coilover and discard. SEE PHOTOS ON NEXT PAGE







26. Locate Box 3 FTS21042BK which has FT20339 Shock Mount to Arm, FT20323 Shock Extensions, FT20324 Shock Brackets, FT20342 (non auto-ride) or FT20351 (auto-ride) Aluminum Bushings , Hardware Kit FT20295, FT1036 Bushings, and FT148 Sleeves. Using a press, press the bushings and sleeves (with the provided lube) into the shock extension. Insert the Aluminum Bushings into the bottom of the factory shock. SEE PHOTOS IN NEXT COLUMN







Photo shows installation of FT20342 non-auto ride aluminum bushings

27. Place the Shock Brackets around the bottom of the shock and align with the aluminum sleeves. Position the shock extension over the brackets and also align with the aluminum sleeves. Locate the supplied ½" x 4" bolts and hardware and install through the aluminum bushing and the shock mount. Leave loose. Locate the 5/16" x 1 ½" bolts and hardware and install into the shock brackets. Tighten the 5/16" hardware so the brackets are evenly spaced on the shock. Torque to 20 ft lbs. Torque the ½" hardware to 75 ft lbs. SEE PHOTOS BELOW







28. Locate the factory upper shock hardware. Install the shock into the factory shock bucket and leave loose. SEE PHOTO BELOW AND ON NEXT PAGE.



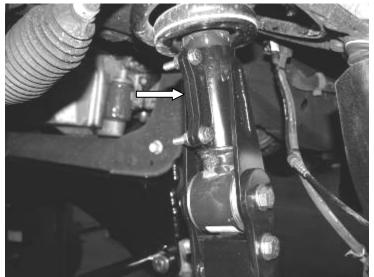
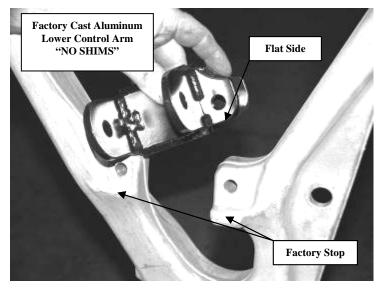
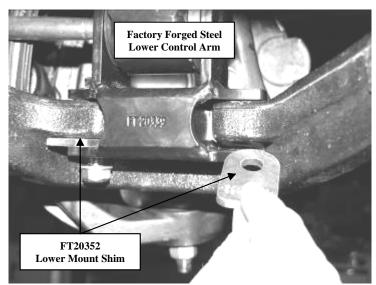
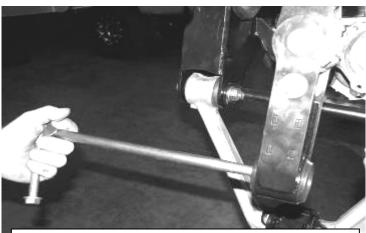


Photo shows new style shock brackets

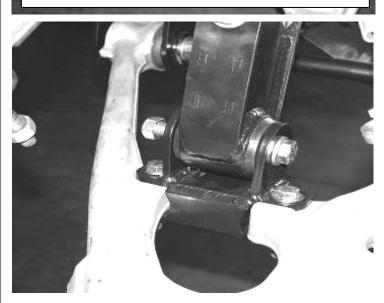
29. Locate FT20339 Lower Shock Mount, FT20352 Lower Mount Shim, and the supplied 7/16" x 2 ½" hardware. Position the mount onto the lower control arm so the flat side of the bracket will be flush with the stop on the arm. Position the shim (ONLY USE THE SHIMS ON THE FORGED STEEL CONTROL ARMS) in between the new mount and the control arm. Attach with the 7/16" hardware and torque to 50 ft lbs. Rotate the lower control arm up and attach the strut to the new mount with the provided ½" x 3 ¾" hardware and torque to 75 ft lbs. (it may be necessary to rotate the shock and extension to attach). Torque the top shock bolts to 40 ft lbs. SEE PHOTOS ON NEXT PAGE





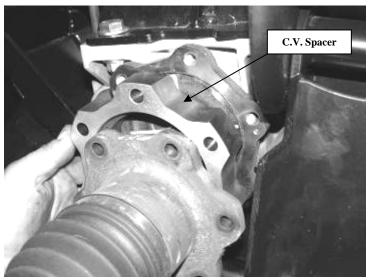


Looking towards ground, turn only in counter clockwise direction and rotate as necessary.



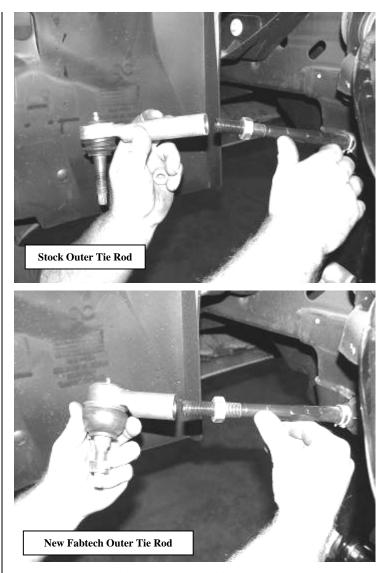
30. Locate the steering knuckle FT20276D and FT20276P. Attach the lower control arm to the knuckle using the stock hardware and torque to 70 ft lbs. Attach the upper control arm to the new knuckle using the factory hardware and torque to 35 ft lbs.

- 31. Reinstall axle shaft through new knuckle and torque axle nut to 150 ft lbs. and install bearing cover.
- 32. Locate and install the FT20289 CV spacers between the CV axle and the differential housing using 10mm x 50mm bolt and washer with the provided thread lock compound and torque to 55 ft lbs. in a cross pattern. SEE PHOTOS BELOW.

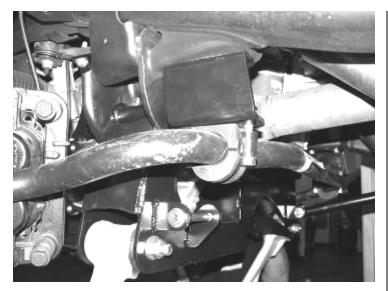




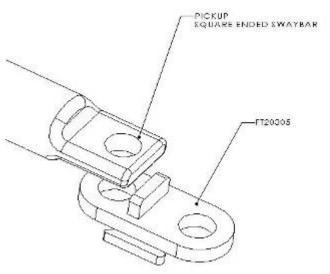
- Reinstall the rotor and hub bearing assembly using the stock hardware and torque flange bolts to 125 ft lbs. Reinstall brake rotor and caliper. Torque caliper bolts to 30 ft lbs.
- 34. Locate FT20277 outer tie rods. Loosen the jam nut and remove the factory outer tie rods and discard, leaving the factory jam nut on the inner tie rod. Install the new outer tie rod onto the inner tie rod until it makes contact with the jam nut. Attach new tie rod end to the knuckle with the supplied nut and torque to 40 lbs. (This is just a starting point; a final alignment must be performed upon completion of suspension system). SEE PHOTOS IN NEXT COLUMN



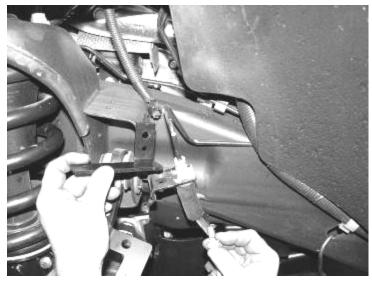
35. Locate FT20312 (Drv), FT20318 (Pass) Sway Bar Frame Bracket, and the supplied 7/16"x2 ¼" and 10mm x 30mm hardware. Position the frame bracket on the frame so that sway bar will be farther back from the suspension and attach with the 10mm hardware. Locate the factory sway bar with the factory mounts and attach to the new brackets with the 7/16" hardware and torque to 50 ft lbs. and the 10mm hardware to 25ft lbs. SEE PHOTO ON NEXT PAGE

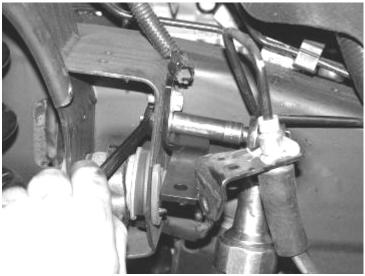


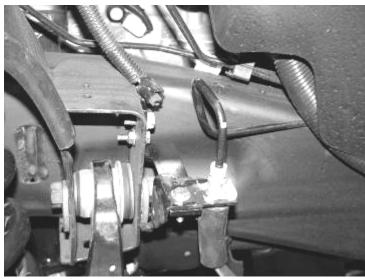
36. Locate FT20305 Sway Bar Mounts and the supplied 18mm x 50mm hardware. Position the Sway Bar Mount so that it is on the bottom of the sway bar with the SHORTER side of the mount against the stop plate end of the mount. Attach with the 18mm hardware and torque to 110 ft lbs. Locate the factory sway bar end links and attach to the new mount and the lower control arm. SEE DIAGRAM BELOW.



37. Locate FT20313 (drv.) FT20314 (pass) Brake Line Bracket and ¼" x ¾" hardware. Position the new bracket into the factory brake line bracket location and attach with the factory hardware and the ¼" hardware. Attach the factory brake line bracket to the new Fabtech bracket. Carefully bend the hard brake line and attach with the supplied ¼" hardware. Torque to 10 ft lbs. SEE PHOTOS IN NEXT COLUMN



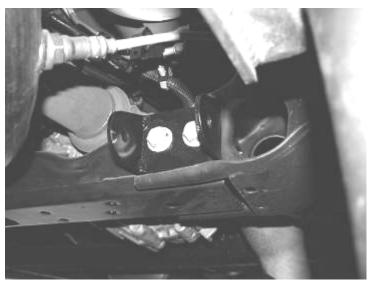




38. Re-route the brake hose and the ABS Line to the steering knuckle using the adel clamp to the back of the steering knuckle and attach with ¼" x 3/4" bolt and washer. Torque to 10 ft lbs. Route the ABS line next to the brake hose. Re-connect the ABS line to the harness in the wheel well. Using provided plastic tyraps secure line to the hose and away from the tire and wheel. SEE PHOTO BELOW

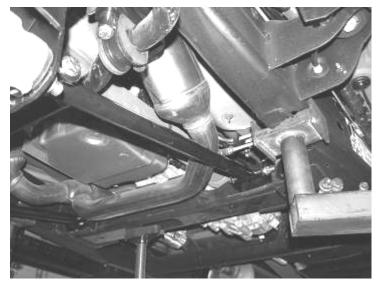


- 39. Reattach the driveshaft to the differential yoke using the stock hardware and torque to 19 ft lbs.
- 40. Locate the FT20288 Impact Strut Tube Mounts. Working from the drivers side, support the transmission crossmember and remove the two bolts that secure the crossmember to the frame. Position the new mount onto the front of the crossmember and insert the factory bolts into the new mount and then into the crossmember having the factory nut on the back of the crossmember. Torque to 75 ft lbs. SEE PHOTO BELOW.



41. Locate and install the bushings into the Impact Strut bars. Attach the Impact Struts into the tabs on the back side of the lower control arm crossmember and rearward to the Impact Strut mounts using 7/16" x 3-1/2" bolts, nuts and washers from Hardware.\*\* NOTE\*\* MAY NEED TO MODIFY EXHAUST TUBE FOR CLEARANCE ON

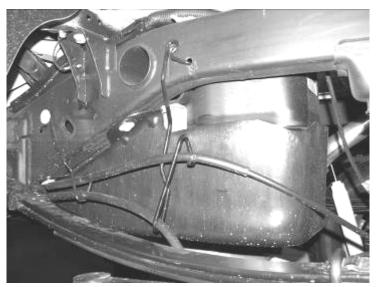
# **SOME MODELS.** Torque to 45 ft lbs. SEE PHOTO IN NEXT COULMN



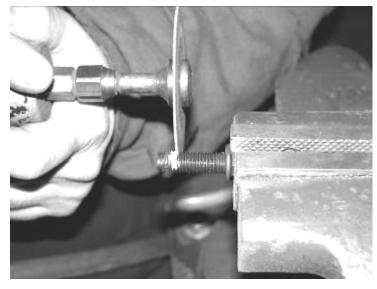
42. Install front tires and wheels. Torque lug nuts to wheel manufacturer's specifications. Check the brake and ABS lines for proper clearance from all moving items.

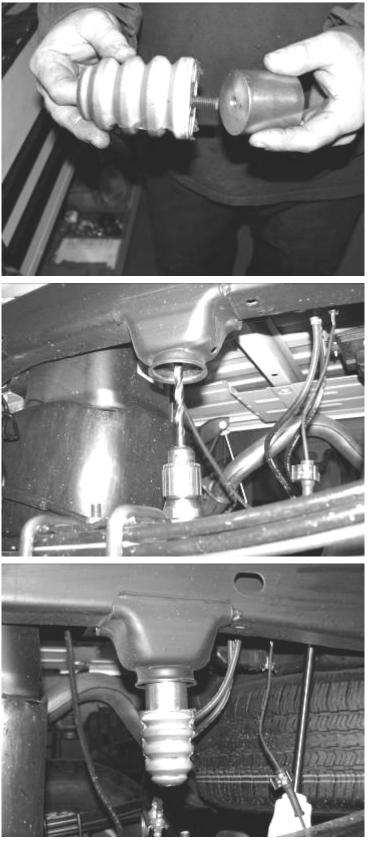
### REAR P/U SUSPENSION INSTRUCTIONS:

43. Jack up the rear end of the vehicle and support the frame rails with jack stands. Supporting the rear differential, remove and discard the rear shocks, u bolts and blocks. Disconnect the brake line bracket at the differential and save the hardware. Remove the ABS line clip from the top of the frame and at the axle. Remove the e-brake cable bracket on the driver's side of the frame and save the hardware. Lower axle down slowly. Use care not to over extend the brake hose. SEE PHOTO BELOW.



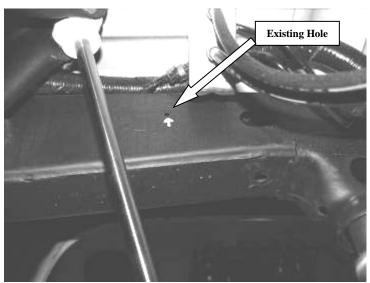
- 44. Clamp the leaf spring in the middle of the spring and remove the center bolt. Separate the springs and install the provided add a leaf with the new center bolt in a pyramid pattern smallest on the bottom graduating to the longest on top. The factory flat overload leaf should remain on the bottom of the pack. Clamp the spring and tighten the center bolt as not to leave a gap between the springs. Cut the thread of the bolt smooth with the nut. The nut should be on the top of the leaf spring pack.
- 45. Locate and install the rear lift blocks with the provided short center pin on the bottom of the block, to the axle. The short end of the block should face to the front of the vehicle. Using the provided U bolts, nuts and washers, align the axle, lift blocks, and springs. Torque the U-Bolts to 90 ft lbs.
- 46. Remove the rear bump stops from the frame. Take the factory bolts and use a die grinder with a cut off wheel and cut a <sup>1</sup>/<sub>2</sub>" from the bottom. Locate FT20025 bump stop spacers and install to the factory bumpstops using the trimmed factory bolt. Use a drill with a 7/16 bit and drill out the weld nut in the frame that originally held the bumpstops in place. Install the 10mm x 25mm bolt in from the inside of the frame and attach the new bumpstop spacer. Torque the bolts to 30 ft lbs. SEE PHOTOS BELOW AND IN NEXT COLUMN



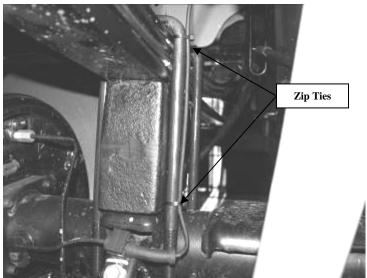


- 47. Locate FT20349 Brake Line Bracket and the supplied 5/16" hardware. Attach the new bracket to the differential and attach the brake line to the new bracket. Torque to 20 ft lbs.
- 48. Install new Fabtech shocks (not included with this kit) with the factory hardware and torque 65 ft lbs.

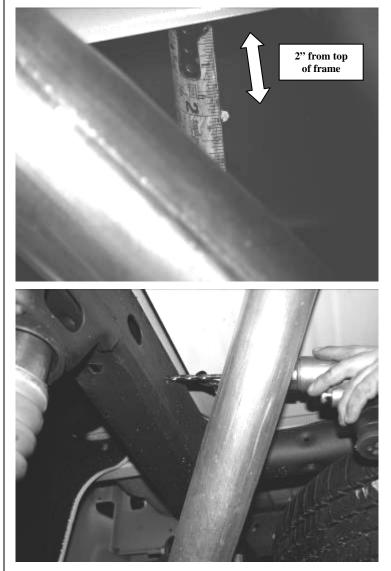
49. Working from the driver's side, insert the previously removed upper ABS line clamp into the existing hole on the inside of the frame. Re-insert the lower ABS line clamp back into the stock location. Use two of the supplied zip ties and attach the ABS line to the U-Bolt. Keep the line taught at the block and ensure that there is enough slack in the line for full travel of the rear axle. SEE PHOTOS ON NEXT PAGE.

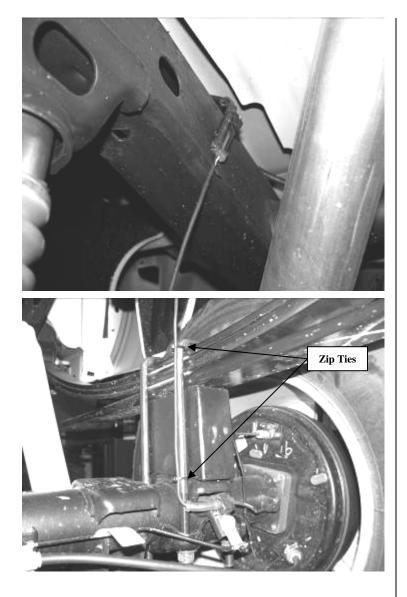




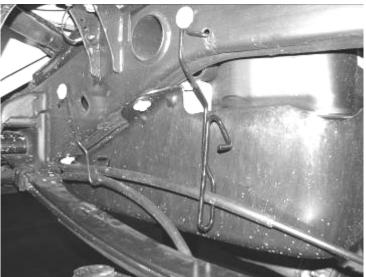


50. Working from the passenger side, locate the original line clamp hole in the top of the frame and measure 2" down the inside of the frame and drill a ¼". Insert the previously removed upper ABS line clamp into the new hole on the inside of the frame. Re-insert the lower ABS line clamp back into the stock location. Use two of the supplied zip ties and attach the ABS line to the U-Bolt. Keep the line taught at the block and ensure that there is enough slack in the line for full travel of the rear axle. SEE PHOTOS BELOW AND ON NEXT PAGE





51. Remove the driver's side E-brake cable from the previously removed bracket. Position the passenger side cable into the bottom position of the bracket where the driver's side was originally. Re-install the bracket back into the factory location with the factory hardware. SEE PHOTO BELOW.



- 52. Recheck all bolts for proper torque. Recheck brake hoses and lines for proper clearances.
- 53. Check the fluid in the front differential and fill if need with factory specification differential oil.
- 54. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance. Note- Some tires may require trimming of the front plastic bumper valance.
- 55. Check front end alignment and set to factory specifications. Re-adjust headlights.

IN ORDER TO UTILIZE THE FACTORY WHEELS AFTER INSTALLATION OF THIS SUSPENSION YOU MUST USE PROVIDED FT20300 WHEEL SPACERS. WHEEL SPACERS ARE FOR LOW SPEED OPERATION ONLY, 50 MPH AND SLOWER. WHEEL SPACERS MUST BE GIVEN TO THE END CONSUMER FOR USE WITH FACTORY SPARE TIRE

#### RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.

For technical assistance call: 909-597-7800

#### **Product Warranty and Warnings-**

Fabtech provides a Limited Lifetime Warranty to the original retail purchaser who owns the vehicle, on which the product was originally installed, for defects in workmanship and materials.

The Limited Lifetime Warranty excludes the following Fabtech items; bushings, bump stops, ball joints, tie rod ends, limiting straps, cross shafts, heim joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days from the date of purchase for defects in workmanship.

Take apart shocks are considered a serviceable shock with a one year warranty on leakage only. Service seal kits are available separately for future maintenance. All other shocks are covered under our Limited Lifetime Warranty.

Fabtech does not warrant any product for finish, alterations, modifications and/or installation contrary to Fabtech's instructions. Alterations to the finish of the parts including but not limited to painting, powdercoating, plating and/or welding will void all warranties. Some finish damage may occur to parts during shipping which is considered normal and is not covered under warranty.

Fabtech products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities. (A "RACE" is defined as any contest between two or more vehicles, or any contest of one or more vehicle against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America.

Installation of most suspension products will raise the center of gravity of the vehicle and will cause the vehicle to handle differently than stock. It may increase the vehicle's susceptibility to a rollover, on road and off road, at all speeds. Extreme care should be taken to operate the vehicle safely at all times to prevent rollover or loss of control resulting in serious injury or death. Fabtech front end Desert Guards may impair the deployment or operation of vehicles equipped with supplemental restraining systems/air bag systems and should not be installed if the vehicle is equipped as so.

Fabtech makes every effort to ensure suspension product compatibility with all vehicles listed in the catalog, but due to unknown auto manufacturers production changes and/or inconstancies by the auto manufacturer, Fabtech cannot be responsible for 100% compatibility, including the fitment of tire and wheel sizes listed. The Tire and Wheel sizes listed in Fabtech's catalog are only a guideline for street driving with noted fender trimming. Fabtech is not responsible for damages to the vehicle's body or tires.

Fabtech's obligation under this warranty is limited to the repair or replacement, at Fabtech option, of the defective product only. All costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty. Fabtech is not responsible for damages and/or warranty of other vehicle parts related or non related to the installed Fabtech product. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by Fabtech.

Fabtech suspension components must be installed as a complete system including shocks as shown in our current catalog. All warranties will become void if Fabtech parts are combined and/or substituted with other aftermarket suspension products. Combination and/or substitution of other aftermarket suspension parts may cause premature wear and/or product failure resulting in an accident causing injury or death. Fabtech does not warrant products not manufactured by Fabtech.

Installation of Fabtech product may void the vehicles factory warranty; it is the consumer's responsibility to check with their local vehicle's dealer for warranty disposition before the installation of the product.

It is the responsibility of the distributor and/or the retailer to review all warranties and warnings of Fabtech products with the consumer prior to purchase.

Fabtech reserves the right to supercede, discontinue, change the design, finish, part number and, or application of parts when deemed necessary without written notice. Fabtech is not responsible for misprints or typographical errors within the catalog or price sheet.

Instruction Sheet Part #- FT21046i

4/14/10 SE