



Installation Instructions

FTS23015BK 6" Dirt Logic 4.0 Coilover Conversion Kit 2003 - 2008 4WD DODGE RAM 2500/3500

	FTS23015BK	6" Dirt Logic 4.0 Hoop
Qty	Part Number	Description
1	FT44091BK	Drv. Upper Shock Mount
1	FT44092BK	Pass. Upper Shock Mount
1	FT44093BK	Drv. Frt. Support Tube
1	FT44094BK	Drv. Rear Support Tube
1	FT44095BK	Pass. Frt. Support Tube
1	FT44096BK	Pass. Rear Support Tube
1	FT44099BK	Drv. Bump Stop Mount
1	FT44100BK	Pass. Bump Stop Mount
1	FT44108	Hardware Kit
1	FT916H	Hardware Kit 9/16"
1	FT58H	Hardware Kit 5/8"
4	FT744U	5/8" U-Bolt
4	FT748U	9/16" U-Bolt
1	FT3400-112D	Sway Bar Mount Dr.
1	FT3400-112P	Sway Bar Mount Ps.
1	FT44146	Hdwr Sub-Assembly Kit

	FT44146	Hardware Sub-Assembly
Qty	Part Number	Description
4	43141001081	7/16"-14 x 1" Bolt
4	43140004181	7/16"-14 C-Lock Nut
8	43000005081	7/16" SAE Flat Washer
2	FTS88	Small Bumpstop
2	FT30192BK	14" Limit Strap
2	FT113	Frame Sleeve (Rr Support Tube)
2	FT44059	Frame Flag
1	FT170	Frame Sleeve (Ps Frt Spt Tube)
1	FT172	Sleeve (hoop alignment)
2	FT44135	Nut Tab (Bmp Stp Mounts)
1	FT44136	Cruise Control Relocation Brkt
2	FT44137	Brake Line Bracket
2	FT23015i	Instruction Sheet
1	FTLOCK	Thread Locking Compound
1	FTREGCARD	Reg. Card
1	FTAS16	Decal
1	FTAS12	Fabtech Sticker

	FTS23016	6" Dirt Logic 4.0 Drv.
1	FTS83505D	4.0 Dodge Driver

	FT44108 Hardware Kit	
Qu a	Description	Location
2	5/8"-11 x 4 1/2" Bolt	Top of 4.0 Shock
2	5/8"-11 C-Lock Nut	
4	5/8"-11 SAE Flat Washer	
2	1/2"-13 x 6" Bolt	Rr Btm Shk Hoop Leg
2	1/2"-13 C-Lock Nut	
4	1/2" SAE Flat Washer	
4	1/2"-13 x 1 1/4" Bolt	Main Bucket "center"
4	1/2"-13 C-Lock Nut	
8	1/2" SAE Flat Washer	
10	7/16"-14 x 1 1/2" Bolt	Main Bucket "outers"
10	7/16"-14 C-Lock Nut	
20	7/16 SAE Flat Washer	
1	1/2"-13 x 3 3/4" Bolt	Frt Btm Shk Hp Leg Pass
1	1/2"-13 C-Lock Nut	
2	1/2" SAE Flat Washer	
1	14MM-2.0 X 180MM Bolt	Frt Btm Shk Hp Leg Dr
1	14MM Flat Washer	
2	5/16"-18 X 3" Bolt	Bump Stop Mount
2	5/16"-18 C-Lock Nut	
4	5/16" Flat Washer	
2	1/2"-13 X 1 1/4" Bolt	Bump Stop Spt Tube
2	Flat Washer	
2	Split Lock Washer	
2	1/2"-13 x 1 1/4" Bolt	Limit Straps
2	1/2"-13 C-Lock Nut	
2	1/2" SAE Flat Washer	
4	9/16" SAE Flat Washer	
4	1/2"-13 X 1 1/4" Bolt	Brk Ln Relc. Brkt
4	1/2"-13 C-Lock Nut	
8	1/2" Flat Washer	
2	#10-24 X 3/4" Bolt	Cruise Cntrl Relc. Brkt
2	#10-24 Nut	5.7L Engine only
2	#10 Split Lock Washer	

	FTS23019	6" Dirt Logic 4.0 Pass.
1	FTS83505P	4.0 Dodge Passenger



**6" Dirt Logic 4.0 Coilover Conversion Kit
FTS23015BK
2003 - 2008 4WD DODGE RAM 2500/3500**

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

**READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION!
THIS SYSTEM MUST BE INSTALLED WITH THE FABTECH FTS23006BK SUSPENSION SYSTEM. THIS SYSTEM WILL NOT WORK WITH A STOCK HEIGHT TRUCK.**

SYSTEM IS DESIGNED FOR SINGLE REAR WHEEL (SRW) APPLICATIONS ONLY. WILL NOT WORK ON A DUAL REAR WHEEL (DRW) APPLICATIONS.

TOOL LIST: (NOT INCLUDED)

- FLOOR JACK
- JACK STANDS
- ASSORTED METRIC AND S.A.E SOCKETS
- DRILL WITH ASSORTED BITS & 1" HOLE SAW
- DIE GRINDER w/ CUT OFF WHEEL & SANDING DISCS

**** USE THE SUPPLIED THREAD-LOCKING COMPOUND ON ALL HARDWARE.**

S.A.E. Bolt Torque Specification Chart



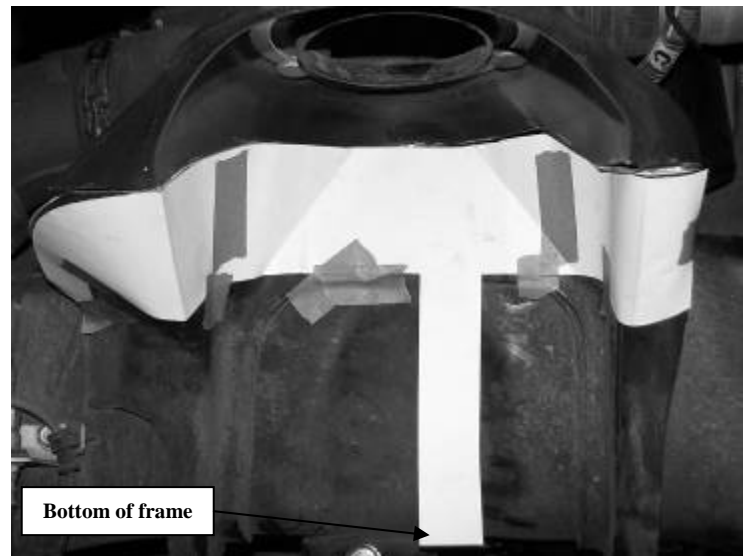
Standard			Metric		
	Grade 5	Grade 8		Grade 8.8	Grade 10.9
SIZE	ft. lbs.	ft. lbs.	SIZE	ft. lbs.	ft. lbs.
1/4"	10	14	M-6	7	12
5/16"	21	29	M-8	17	29
3/8"	37	52	M-10	35	58
7/16"	59	83	M-12	65	100
1/2"	90	127	M-14	100	160
9/16"	129	184	M-16	150	240
5/8"	179	254	M-18	200	300
3/4"	317	450	M-20	300	400

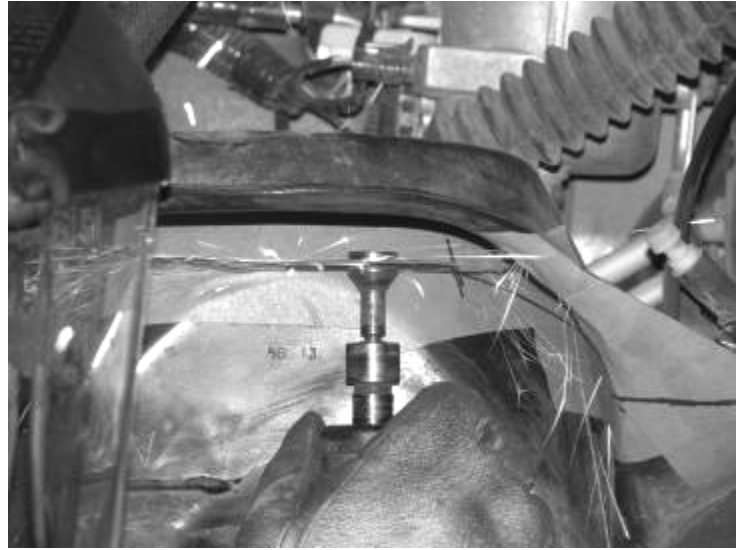
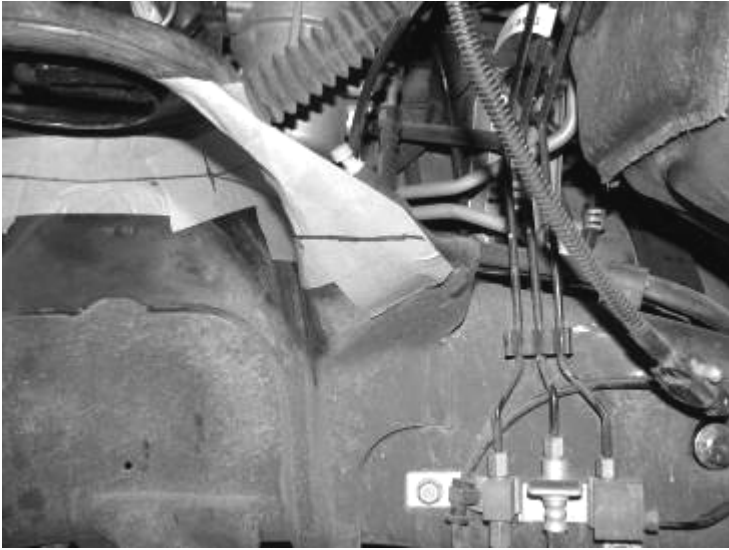
INSTRUCTIONS:

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the front frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Support the front axle with two floor jacks. Working from the Driver Side, remove the top nuts on the front shocks and the lower bolts securing the shock to the axle. Remove the three nuts securing the upper shock mount cage to the coil spring mount. Disconnect the trac bar from the trac bar Bracket, save the hardware. Remove the front shocks from the truck. Disconnect the front sway bar end links from the sway bar and save. Lower the jacks under the front axle and remove the coil springs. Discard the shocks, shock cage, front coils and hardware, save the lower shock hardware. SEE PHOTO BELOW.

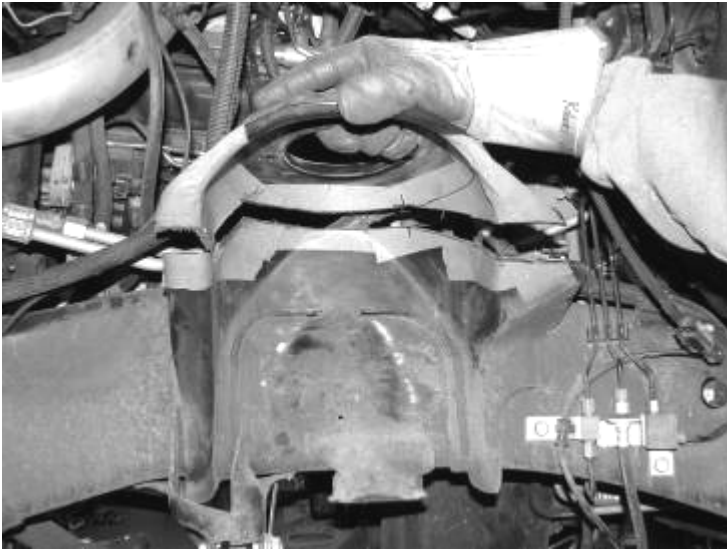


3. Locate the template sections that are included in the back pages of the instructions. Cut the sections out and match them up accordingly, and tape them together. Using masking tape, tape the inside of the coil bucket. Put the template into the bucket so that the bottom of the template is at the bottom of the frame. Use the tape to hold the template to the bucket. Trace the top of the pattern to the coil bucket. SEE PHOTOS IN NEXT COLUMN & PAGE.





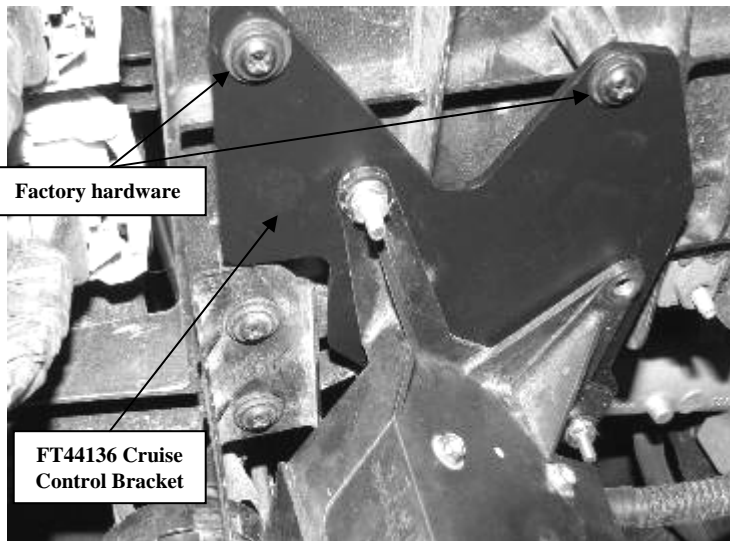
4. Use a die grinder with a cut-off wheel and remove the top of the bucket. Sand & paint all cut areas of the bucket. SEE PHOTOS IN NEXT COLUMN & PAGE.



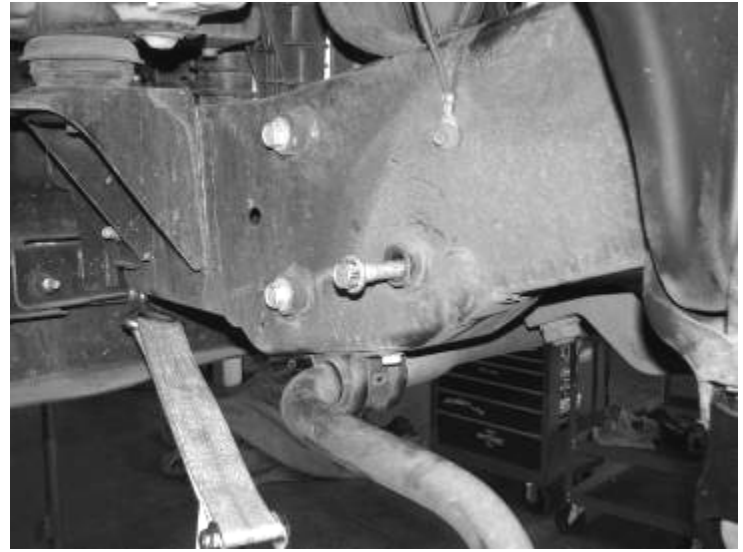
5. Repeat steps two through four on the passenger side.

FOLLOW STEP 6 FOR GASOLINE EQUIPPED TRUCKS WITH THE CRUISE CONTROL MODULE IN THE WHEEL WELL COMPARTMENT

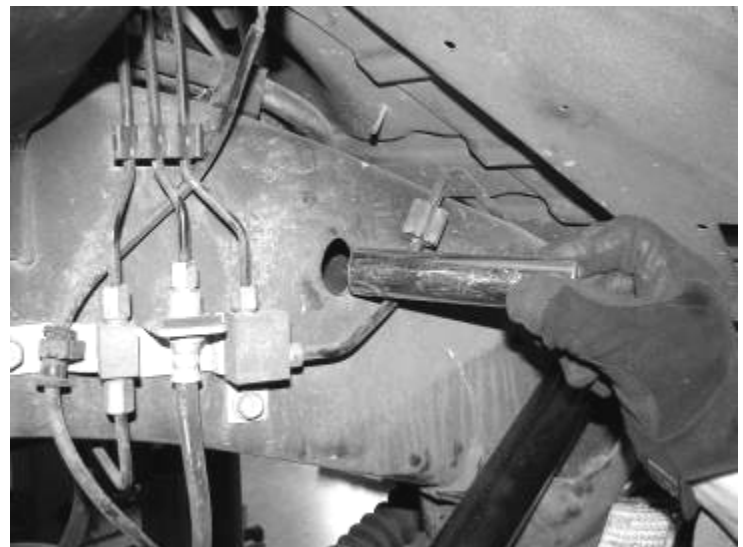
6. Locate FT44136 Cruise Control Bracket and the supplied 10-24 hardware. Remove the C/C module from the mount in the fenderwell and save the hardware. Use the supplied hardware to mount the module to the new bracket. Use the factory hardware to mount the new bracket to the factory mount. SEE PHOTOS BELOW

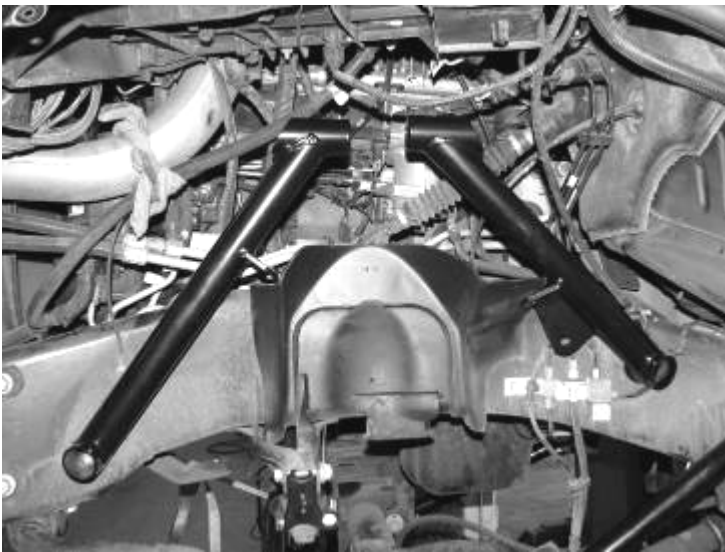
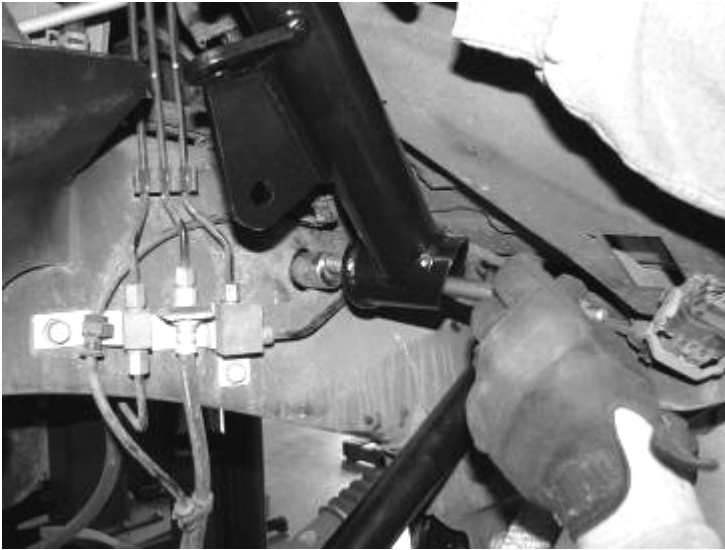


7. Working from the driver side, locate FT44093Bk Driver Front Support Tube & supplied 14mm x 170mm bolt w/ washer. Remove & discard the rear power steering box bolt. Attach the support tube to the frame with the new steering box bolt. Leave the bolt loose at this time. SEE PHOTOS IN NEXT COLUMN.

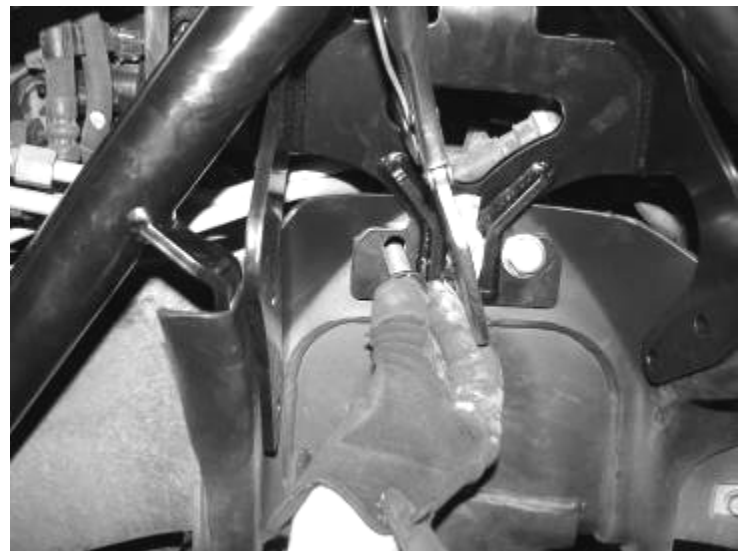
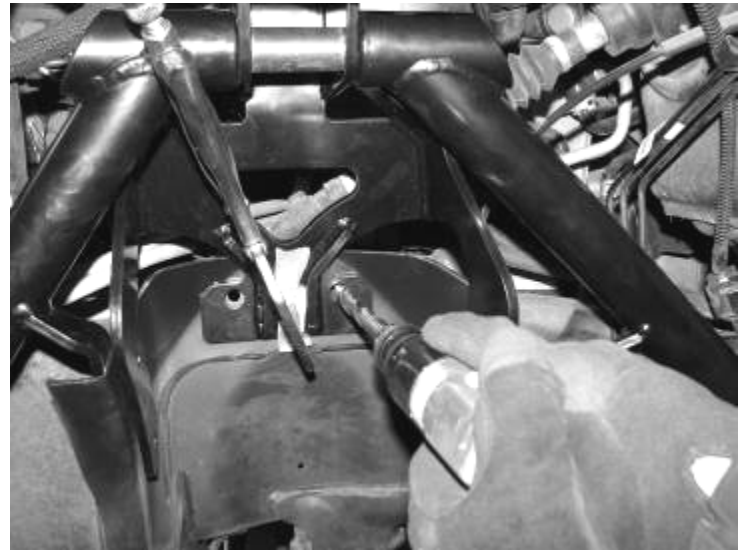
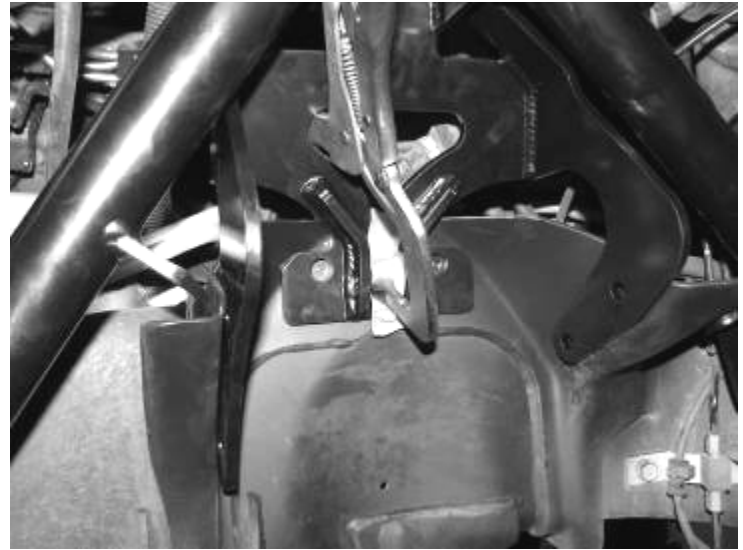


8. Locate FT44094BK Driver Rear Support Tube, FT113 Frame Sleeve, FT44059 Frame Flag, & the supplied 1/2" x 6" bolt w/ hardware. Insert the sleeve into the frame & follow with the support tube with the 6" bolt. Place the flag on the back of the frame followed with the nut and washer. Rotate the flag so it is flat on the frame and the bolt is straight. Leave loose. SEE PHOTOS BELOW & ON NEXT PAGE



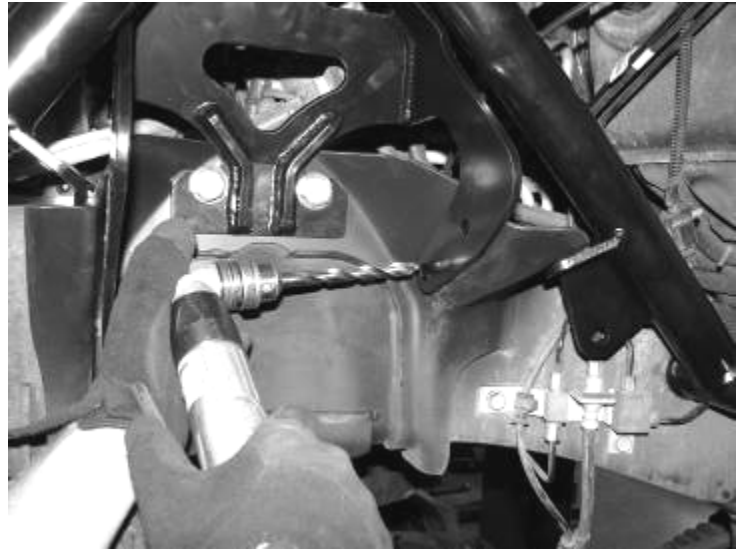


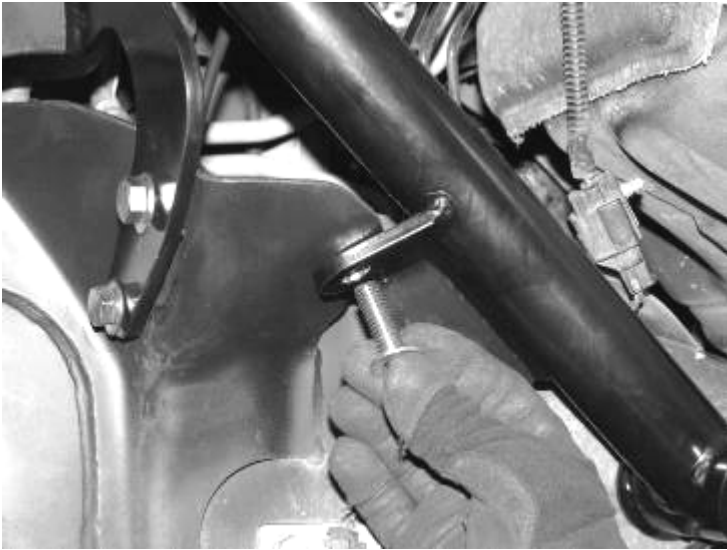
9. Locate FT44091BK Drv. Upper Shock Mount, FT172 Hoop Alignment Sleeve, and the supplied 5/8" hardware. Position the upper mount between the support tubes and attach with the 5/8" hardware with the sleeve in the mount (this sleeve is only used temporarily to align the support tubes and mount for proper mount location. It will be removed when the coilover shock is installed). Check to see that the mount sits flush on the frame and does not make contact with the trimmed coil bucket. Remove the mount and trim the bucket if necessary. Use a large C-Clamp or vise grip to hold the mount to the bucket. Mark the two center 1/2 holes and drill to 1/2". Attach the mount to the bucket using the supplied 1/2" x 1 1/2" bolts & hardware. ** Torque to 127 ft. lbs. Torque the steering box bolt to ** 215 ft. lbs. & the 9/16" rear hoop leg to ** 184 ft. lbs. SEE PHOTOS IN NEXT COLUMN & ON NEXT PAGE.



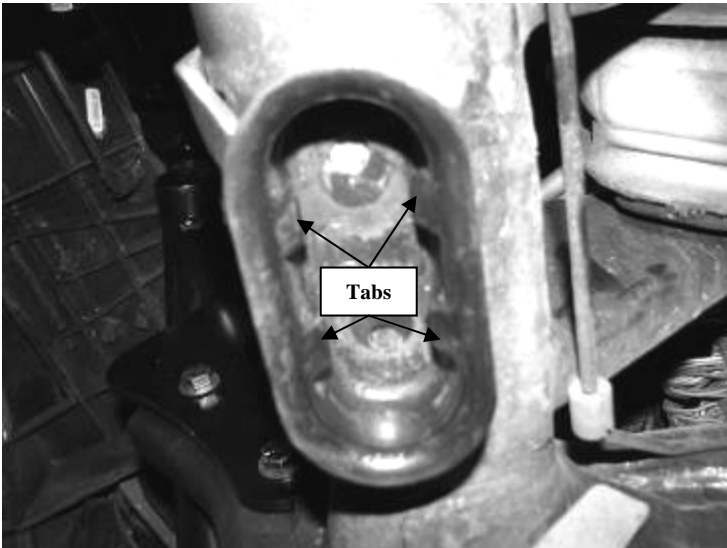


10. With the hoop and support tubes torqued, mark and drill the remaining five 7/16" mounting holes on the tubes to the bucket. Drill the holes to 7/16" and attach with the supplied 7/16" x 1 1/4" bolts & hardware. ** Torque to 83 ft. lbs. SEE PHOTOS BELOW & ON NEXT PAGE.



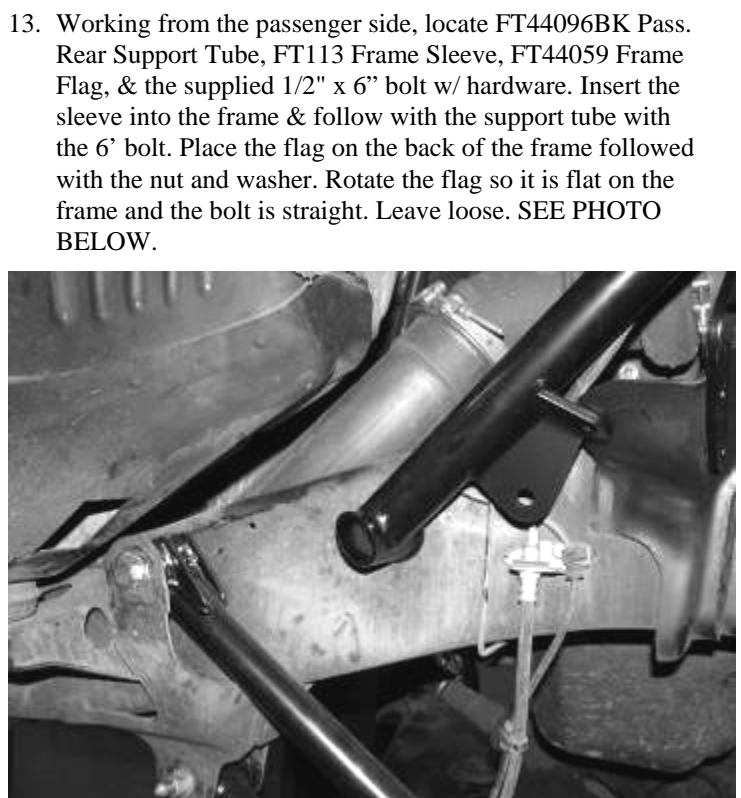
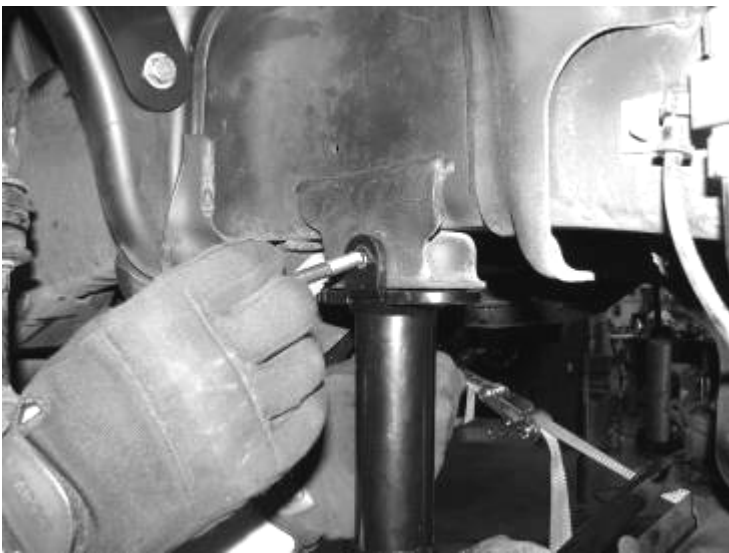


11. Locate the factory bumpstop mounting cup on the frame, use a die grinder and remove the retaining tabs on the inside of the mounting cup. SEE PHOTOS BELOW.



12. Locate FT44099BK Drv. Bump Stop Mount & the supplied 5/16" bolt & hardware and 1/2" x 1 1/4" bolt & hardware. Position the bump stop into the modified factory mounting cup and center the support tube flag centered onto the front crossmember. With the flag centered on the crossmember, mark the hole location in the flag to the crossmember & in the bump stop cup. With the bumpstop in the cup, drill the 5/16" hole all the way through the cup. Remove the bumpstop and drill the 1/2" hole into the crossmember. Locate FT44135 Nut Tab and attach the bumpstop to the crossmember & Bumpstop Cup. Torque the 1/2" bolt to **127 ft. lbs and the 5/16" to **29 ft. lbs. Locate FTS88 bumpstop and screw onto the new mount. SEE PHOTOS BELOW & ON NEXT PAGE.





13. Working from the passenger side, locate FT44096BK Pass. Rear Support Tube, FT113 Frame Sleeve, FT44059 Frame Flag, & the supplied 1/2" x 6" bolt w/ hardware. Insert the sleeve into the frame & follow with the support tube with the 6" bolt. Place the flag on the back of the frame followed with the nut and washer. Rotate the flag so it is flat on the frame and the bolt is straight. Leave loose. SEE PHOTO BELOW.

14. Locate FT44092BK Pass. Upper Shock Mount, FT44095BK Pass. Front Support Tube, and the supplied 5/8" hardware. Position the upper mount between the support tubes and attach with the 5/8" hardware (hand tighten only) with the sleeve in the mount (this sleeve is only used to align the support tubes and mount for proper mount location. It will be removed when the coilover shock is installed). Check to see that the mount sits flush on the frame and does not make contact with the trimmed coil bucket. Remove the mount and trim the bucket as necessary. Use a large C-Clamp or vise grip to hold the mount to the bucket. Mark the two center 1/2" holes and drill to 1/2". Attach the mount to the bucket using the supplied 1/2" x 1 1/2" bolts & hardware. ** Torque to 127 ft. lbs. SEE PHOTO BELOW.



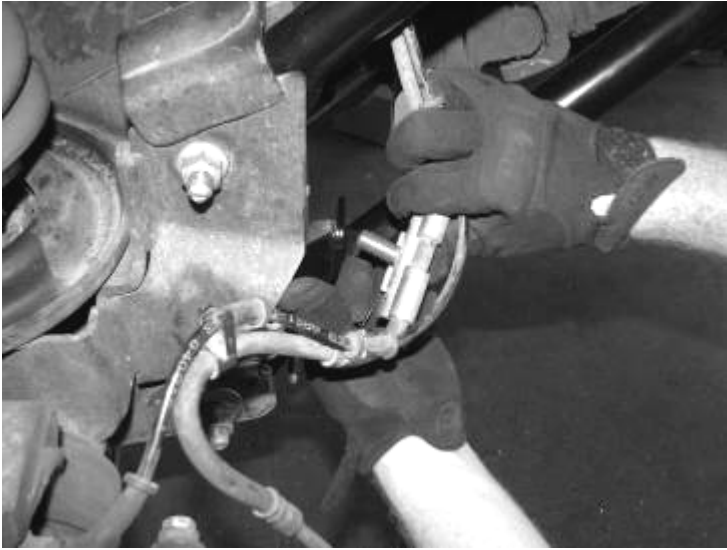
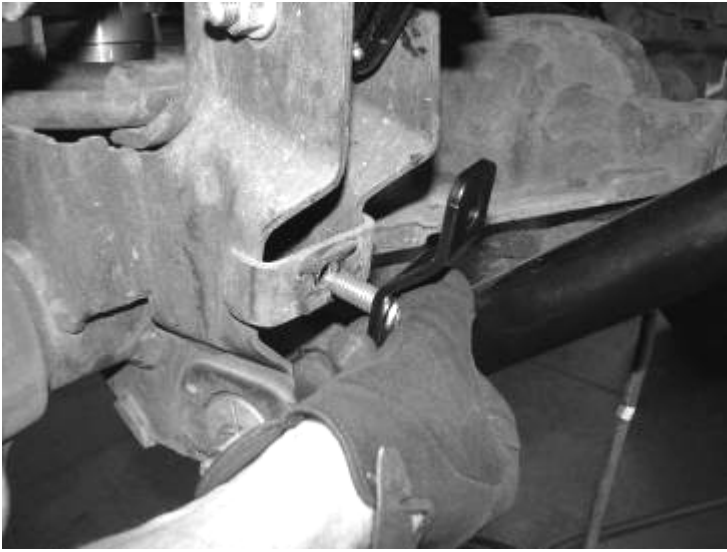
15. With the 5/8" upper shock bolt tight, mark the front support lower mounting point on the frame. Remove the front support tube and drill a 1/4" hole through both side of the frame. Next, use a hole saw & drill the face of the frame out to 1" (DO NOT DRILL THE BACK OF THE FRAME TO 1"). Next drill the hole in the back of the frame out to 1/2". Locate FT170 Frame Sleeve and supplied 1/2"x 3 3/4" bolt & hardware. Place the bolt with a washer through the bottom mount on the support tube, place the frame sleeve on the bolt and install into the 1" hole in the frame. Place another washer with the nut on the back of the frame. Leave loose. Re-connect the top of the support tube to the upper shock mount and rear support tube. Tighten all the bolts. SEE PHOTOS IN NEXT COLUMN & PAGE.





16. Working with both sides, locate FT44137 Brake Line Bracket & the supplied 1/2" x 1 1/4" hardware. Drill the factory mount on the axle and the brake line bracket to 1/2". Attach the Fabtech bracket to the factory mount on the axle with the 1/2" bolts. Attach the brake line bracket to the new Fabtech bracket. Torque to **127 ft. lbs. SEE PHOTOS BELOW & ON NEXT PAGE



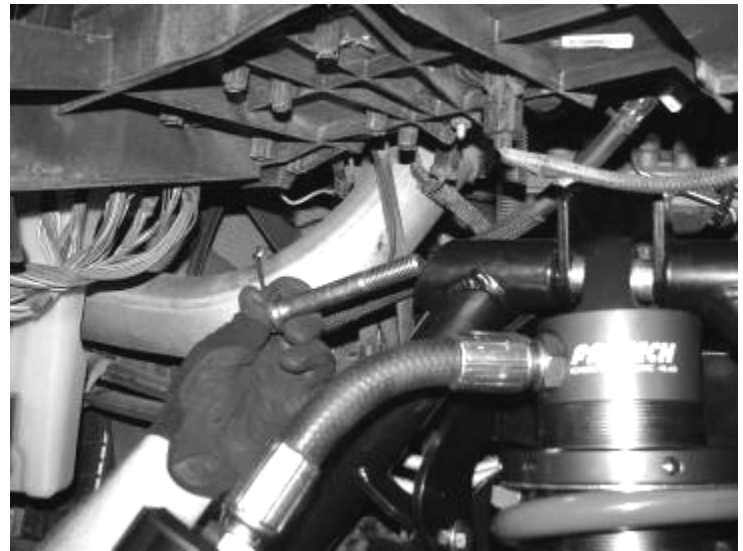
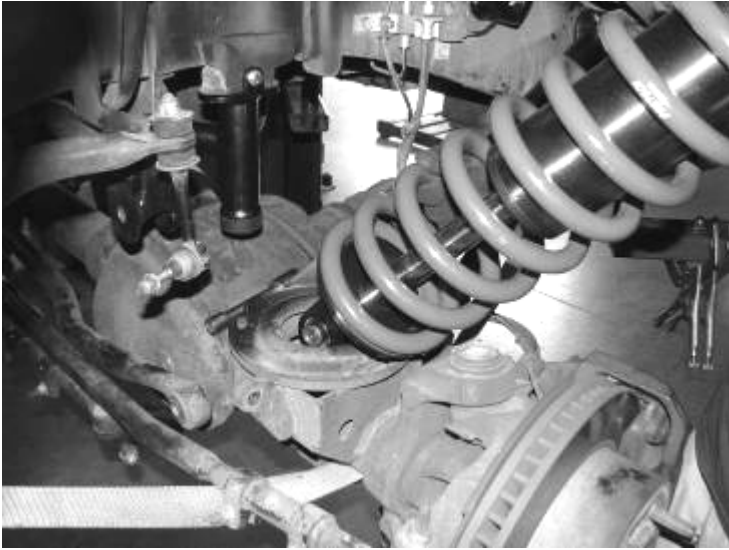
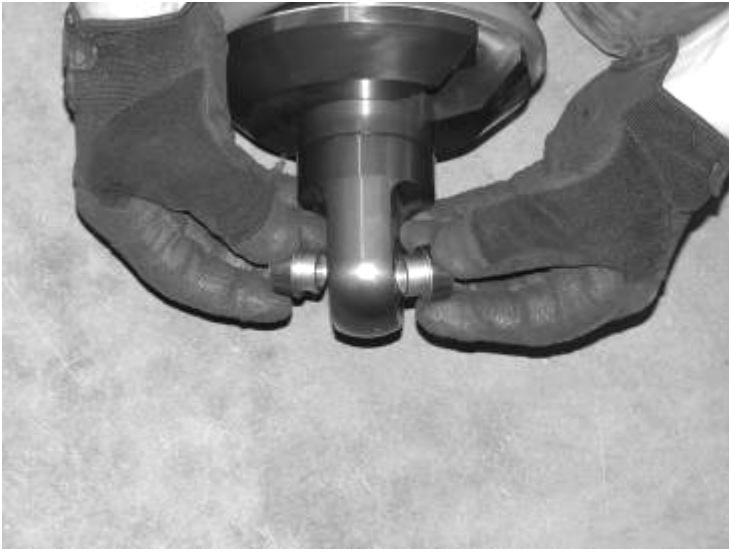


17. Locate FT30192BK Limit Straps and the supplied four 9/16" washers. Remove the factory upper link arm bolt (DO NOT REMOVE THE LINK ARM FROM THE MOUNT) from the link arm at the differential. Put the factory bolt through the limit strap, then 2 of the 9/16" washers, and back through the mount & link arm and install the factory nut. Leave loose at this time. SEE PHOTOS IN NEXT COLUMN.



18. Locate FTS23016 Driver Dirt Logic Coilover w/ Resi mount. Install the mis-alignments into the bottom of the coilover. Then install the coilover into the shock mount on the axle mount. Using the factory lower shock bolt, attach the bottom of the coilover to the axle mount. SEE PHOTOS





19. Install the supplied upper mis-alignments into the top of the coilover and install into upper shock mount. Use the supplied 5/8" x 4 1/2" hardware and install the bolt into the front support tube & through to the rear support tube. Torque the lower 14mm bolt to **215 ft. lbs & the upper 5/8" bolt to ** 254 ft. lbs. SEE PHOTOS IN NEXT COLUMN& PAGE.



20. Repeat steps 18 & 19 on the passenger side.

21. Locate the factory inner fender wells. Use the following photos as a reference to mark and cut the fender wells. Due to variances from the manufacture, you will need to trim the fender wells to fit your truck as needed. Re-install the fender wells back onto the truck with the factory hardware. SEE PHOTOS BELOW & IN NEXT COLUMN.

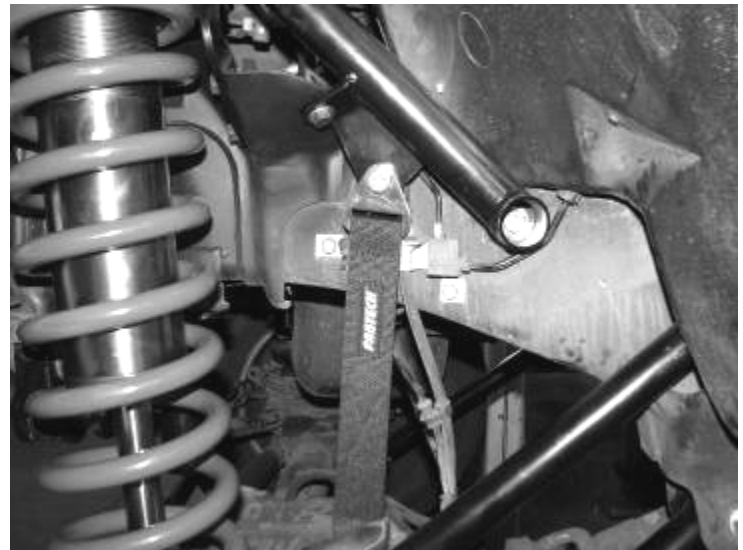


22. Locate the supplied Billet Resi clamp and attach the resi to the front support tube. Mount the resi so that it is as far up and forward as possible. SEE PHOTOS BELOW & ON NEXT PAGE.



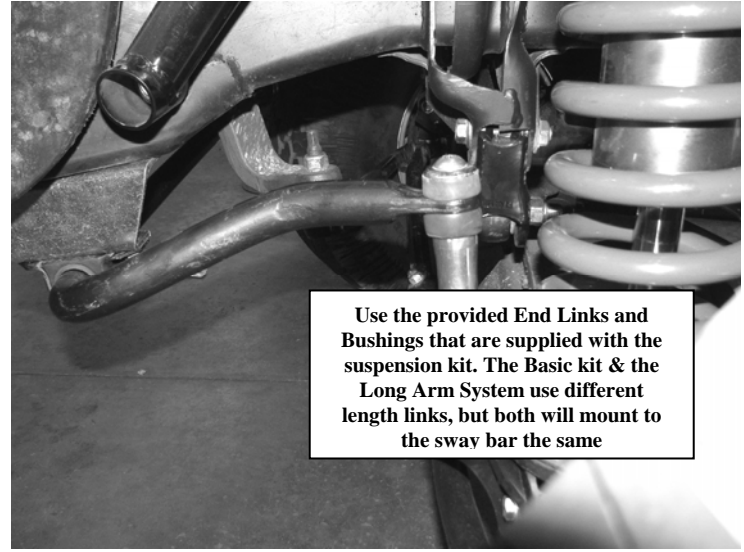
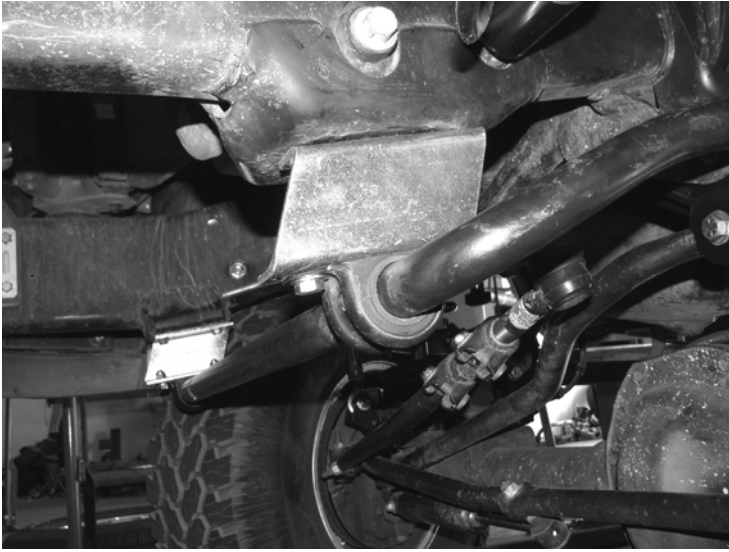


23. Reinstall the front tires and torque the lugs to factory specifications. The factory torque specifications can be found in your owner's manual. Set the truck back onto the ground. Use the supplied 1/2" hardware and attach the top of the limit strap to the mount on the rear hoop support tube. Torque to **127 ft. lbs. SEE PHOTO BELOW.

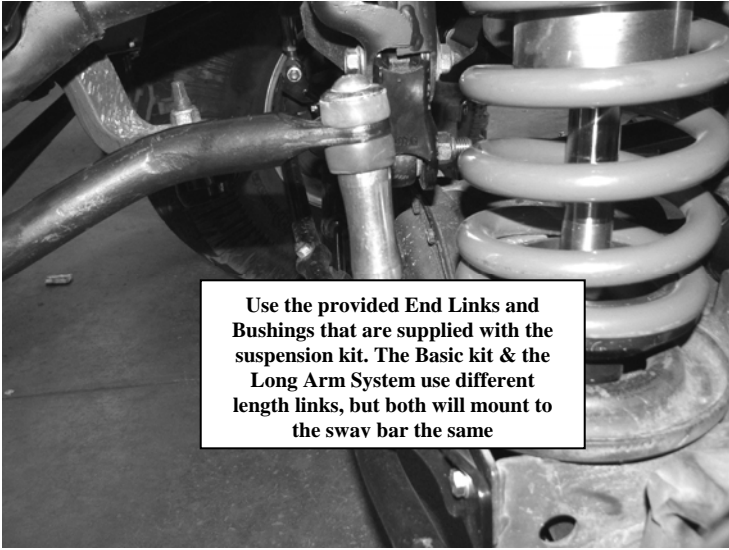


24. Locate FT3400-112D & FT3400-112P Sway Bar Drop Brackets and the factory sway bar hardware. Attach the new brackets in the factory location so the sway bar will be offset to the front of the truck with the factory hardware. Mount the Sway Bar to the new brackets using the supplied 7/16" hardware. **Torque to 83 ft. lbs. THE SWAY BAR SHOULD BE OFFSET TO THE FRONT OF THE TRUCK AND ADJUSTED SO THAT THE END LINKS CLEAR THE COIL SPRING.



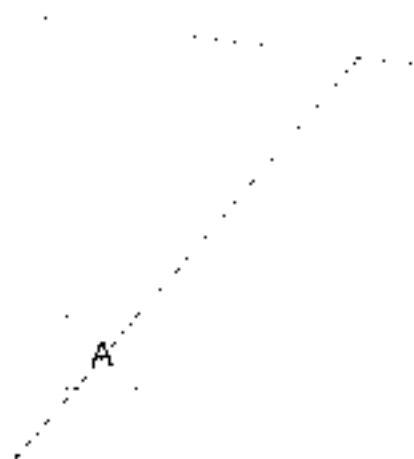


Use the provided End Links and Bushings that are supplied with the suspension kit. The Basic kit & the Long Arm System use different length links, but both will mount to the sway bar the same

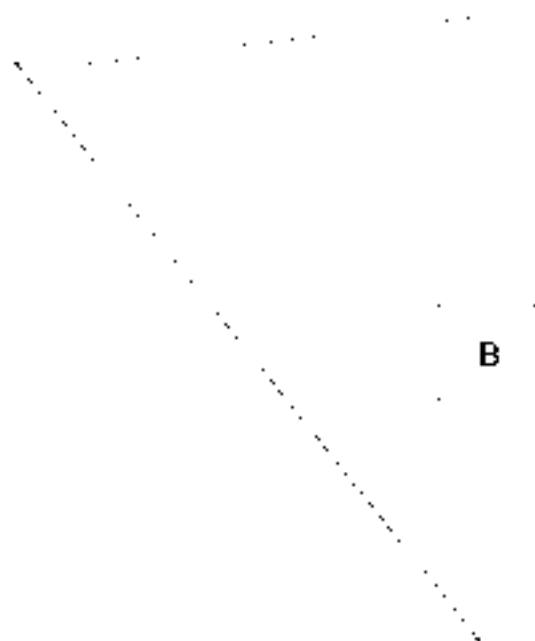


Use the provided End Links and Bushings that are supplied with the suspension kit. The Basic kit & the Long Arm System use different length links, but both will mount to the sway bar the same

25. Reconnect the sway bar endlinks & trac bar (torque trac bar bolt to **184 ft. lbs.). **WHILE TURNING THE STEERING WHEEL FULLY IN EACH DIRECTION, MAKE SURE THERE IS AMPLE CLEARANCE BETWEEN THE WHEELS, TIRES, LINK ARMS, BRAKE LINES AND ABS WIRES & SHOCK RESERVOIR.**



2



A

B

1

3

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 inconsistencies 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.