



INSTALLATION INSTRUCTIONS



2014 FORD F150 4WD SUPERCREW MODEL ONLY

FTS22168 - 6" BASIC SYSTEM

FTS22170 - 6" PERFORMANCE SYSTEM

Fabtech Motorsports | 4331 Eucalyptus Ave. Chino, CA 91710

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- PARTS LIST -

	FTS22168	COMPONENT BOX 1 - BASIC SYSTEM
1	FT30377BK	SKID PLATE
2	FT30378	DIFF DROP BRACKET UPPER
1	FT30381	DIFF DROP BRACKET CENTER
1	FT30560	HARDWARE SUBASSEMBLY
1	FT30422	DIFF DROP BRACKET REAR
1	FTS30374D	SPINDLE (DRIVER)
1	FTS30374P	SPINDLE (PASSENGER)
1	FT30558BK	SHOCK SPACER (DRIVER)
1	FT30559BK	SHOCK SPACER (PASSENGER)

	FT30560	HARDWARE SUB-ASSEMBLY
4	FT1020	BUSHING
4	FT107	SLEEVE .630 X .501 X 1.480
2	FT181	SLEEVE .625 X .500 X 2.375
2	FT20277	OUTER TIE ROD
1	FT22168I	INSTRUCTIONS
1	FT295	ALIGNMENT CAM KIT 09 F150
2	FT70032	REAR BRAKE LINE AXLE TAB
2	FT99	SLEEVE 1.250 X .813 X 2.350

	FTS22170	COMPONENT BOX 1 - PERFORMANCE SYSTEM
1	FT30377BK	SKID PLATE
2	FT30378	DIFF DROP BRACKET UPPER
1	FT30381	DIFF DROP BRACKET CENTER
1	FT30560	HARDWARE SUBASSEMBLY
1	FT30422	DIFF DROP BRACKET REAR
1	FTS30374D	SPINDLE (DRIVER)
1	FTS30374P	SPINDLE (PASSENGER)

	FT30562 - HARDWARE KIT	LOCATION
4	5/16 SAE WASHER G5 ZINC	
2	NUT 5/16-18 STOVER G5 Z1	
2	5/16-18 X 1 HEX BOLT G8 ZINC	BRAKE LINE
8	7/16 SAE WASHER G5 ZINC	
4	7/16-14 C-LOCK NUT ZINC	
4	7/16-14 X 1-1/4 HEX BOLT G8 ZNC	SWAY BAR EXT
22	1/2 SAE WASHER G5 ZINC	
11	1/2-13 C-LOCK NUT ZINC	
4	1/2-13 X 1-1/4 HEX BOLT G8 ZNC	SKID PLATE
3	1/2-13 X 3-1/2 HEX BOLT G8 ZNC	DIFF MOUNT
4	1/2-13 X 4 HEX BOLT G8 ZINC	DIFF MOUNT
6	7/16-14 C-LOCK NUT ZINC	SHOCK EXT
6	7/16 SAE WASHER G5 ZINC	
2	THREAD LOCKING COMPOUND 1 MIL	

	FTS22169	COMPONENT BOX 2
2	FT13	POP RIVET ALUMINUM
1	FT30062BK	SWAY BAR DROP PASS
1	FT30063BK	SWAY BAR DROP DRVR
1	FT30375BK	FRONT CROSSMEMBER 4WD
1	FT30557BK	REAR CROSSMEMBER 4WD
1	FT30561	HARDWARE SUBASSEMBLY
1	FT30562	HARDWARE KIT
4	FT737U	UBOLT SQ 9/16-18X12.50X3.10
1	FT90023	LOGO PLATE .020 ALUM 5 1/2 X 1
2	FTBK52	LIFT BLOCK W/BUMPSTOP

- TOOL LIST -

Required Tools (Not Included)

- Floor Jack
- Jack Stands
- Assorted Metric and S.A.E sockets, and Allen wrenches
- Die Grinder w/Cut-off Wheel
- Torque Wrench
- 1-1/2" Barrel Sand Wheel
- 1/2" Barrel Sand Wheel



- PRE-INSTALLATION NOTES -

For technical assistance call: 909-597-7800 or e-mail: info@fabtechmotorsports.com

Read this before you begin installation-

Check all parts to the parts list above before beginning installation. If any parts are missing contact Fabtech at 909-597-7800 and a replacement part will be sent to you immediately.

Read all instructions thoroughly from start to finish before beginning the installation. If these instructions are not properly followed severe frame, driveline and / or suspension damage may occur.

Check your local city and state laws prior to the installation of this system for legality. Do not install if not legal in your area.

Prior to the installation of this suspension system perform a front end alignment and record. Do not install this system if the vehicle alignment is not within factory specifications. Check for frame and suspension damage prior to installation.

The installation of this suspension system should be performed by two professional mechanics.

Use the provided thread locking compound on all hardware.

Do not combine this suspension system with any other lift device or parts.

This suspension must be installed with Fabtech shock absorbers.

WARNING- Installation of this system will alter the center of gravity of the vehicle and may increase roll over as compared to stock.

On EcoBoost 3.5L models, discard all air shields.

OEM Wheels and tires cannot be used after the installation of this kit. Larger tires cannot be installed on the OEM wheels.

Verify differential fluid is at manufacture's recommended level prior to kit installation. Installation of the kit will reposition the differential and the fill plug hole may be in a different position. (For example, if the manufacture recommends 3 quarts of fluid, make sure the diff has 3 quarts of fluid). Check your specific manual for correct amount of fluid.

Recommend Tires and Wheels:

Use 325/65R18 tire w/ 18x9 wheels w/ 5" BS w/ minor trimming

Use 35/13.50R18 tire w/ 18x9 wheels w/ 5" BS w/ minor trimming

Use 35/13.50R20 tire w/ 20x9 wheels w/ 5" BS w/ minor trimming

Use 285/55R22 tire w/ 22x11 wheels w/ 5" BS w/ minor trimming

- INSTRUCTIONS -

FRONT SUSPENSION

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Remove and discard the factory splash guard under the differential.
3. Locate the sway bar end links and disconnect from the factory lower control arms, save the hardware. Locate the sway bar frame mounts and disconnect them from the frame, remove the sway bar from the truck. Save the hardware and sway bar.
4. Working from the driver side of the vehicle, disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end. **SEE FIGURE 1**

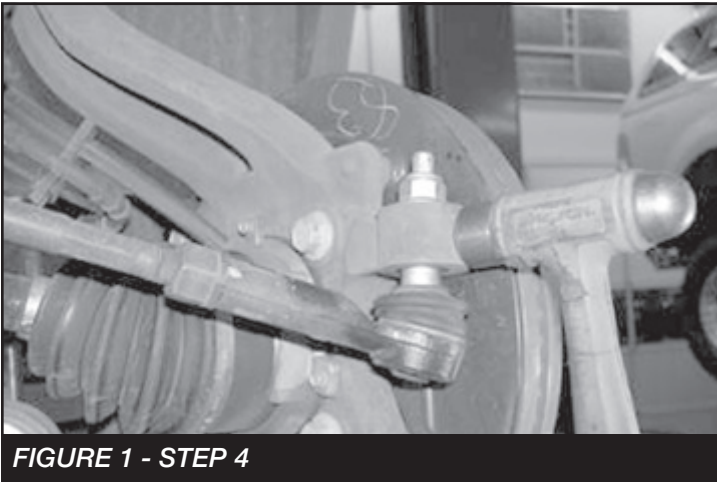


FIGURE 1 - STEP 4

5. Remove factory Tie Rod end and discard. **SEE FIGURE 2**



FIGURE 2 - STEP 5

6. Remove the brake caliper and place it next to the frame. Do not overstretch the brake hose when doing so. Retain the hardware for reinstallation. Remove the brake rotor and save. Disconnect the vacuum lines attached to the rear of the hub assembly. Allow the vacuum lines to hang freely. Remove the electronic stability control (ESC) sensor from the top of the hub. Cover the sensor to keep it free from dirt and debris. **SEE FIGURE 3**

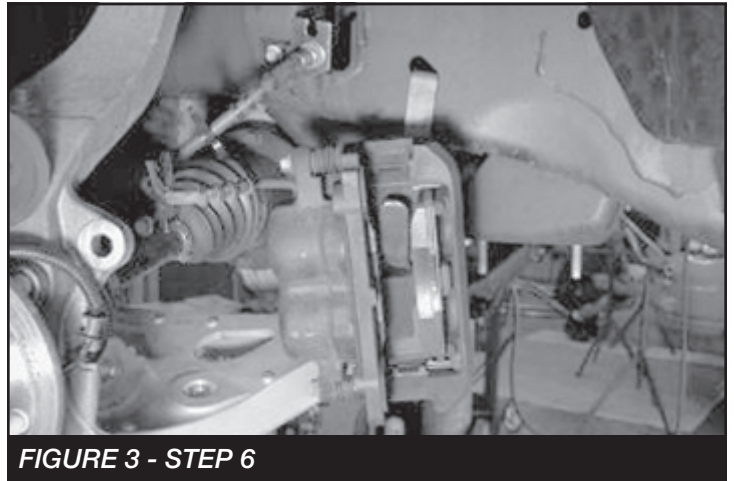


FIGURE 3 - STEP 6

7. Carefully remove the dust cap covering the hub assembly nut. Remove the C.V. bearing nut and save the nut and dust cap. **SEE FIGURE 4**

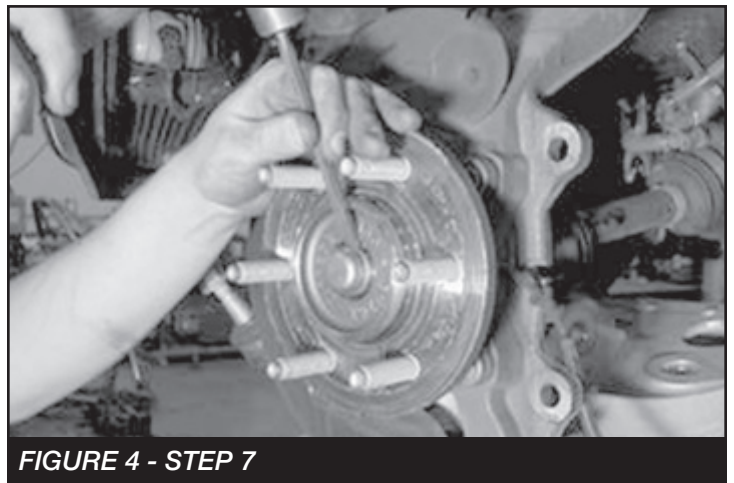


FIGURE 4 - STEP 7

8. 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. Retain hardware and remove the knuckle with the dust shield and the hub. Use extra care not to over extend the C.V. axle shaft when removing the knuckle. **SEE FIGURE 5**

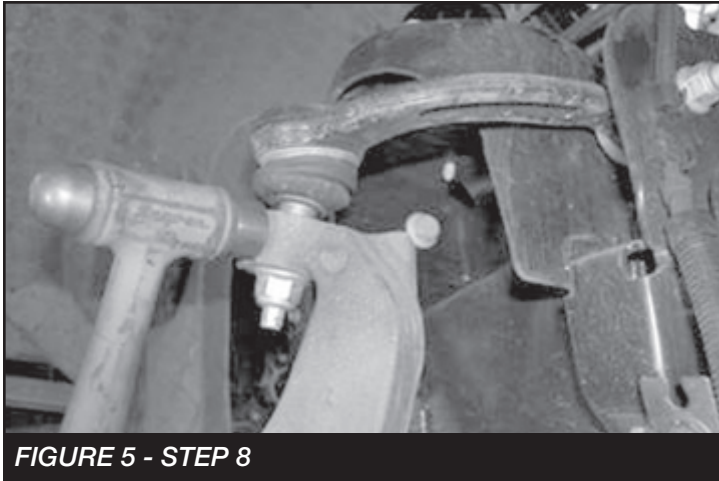


FIGURE 5 - STEP 8

9. Remove the four large bolts and three small bolts on the back side of the knuckle. Remove the hub and the actuator from the knuckle. Save hardware for install in the Fabtech knuckle.
10. Remove the bolts on the front side holding the dust shield. Remove the dust shield and discard the factory knuckle.
11. Locate the lower shock mount bolt and remove. Save the hardware. Locate the three upper nuts and remove. Save the hardware. Remove the shock assembly from the vehicle and mark "Driver" for assembly to install later with Fabtech shock extensions. **SEE FIGURE 6**

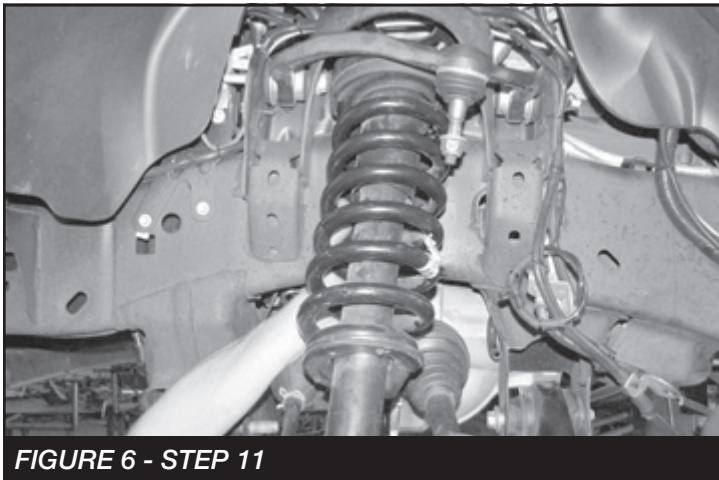


FIGURE 6 - STEP 11

12. Remove the lower control arm bolts from the frame pivots, disconnect upper sway bar nut and remove the lower control arm from the truck. Save hardware and lower control arm. **SEE FIGURE 7**

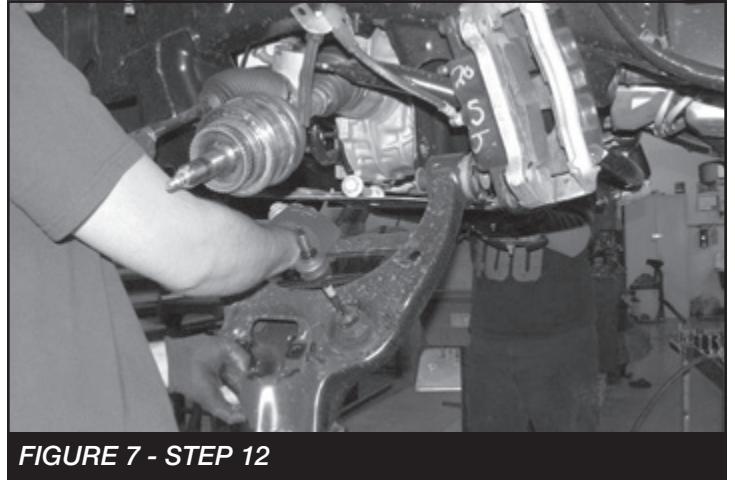


FIGURE 7 - STEP 12

13. Repeat steps 4 through 12 on the passenger side of the truck.
14. Remove the factory rear crossmember from the vehicle and discard the crossmember and hardware. **SEE FIGURE 8**

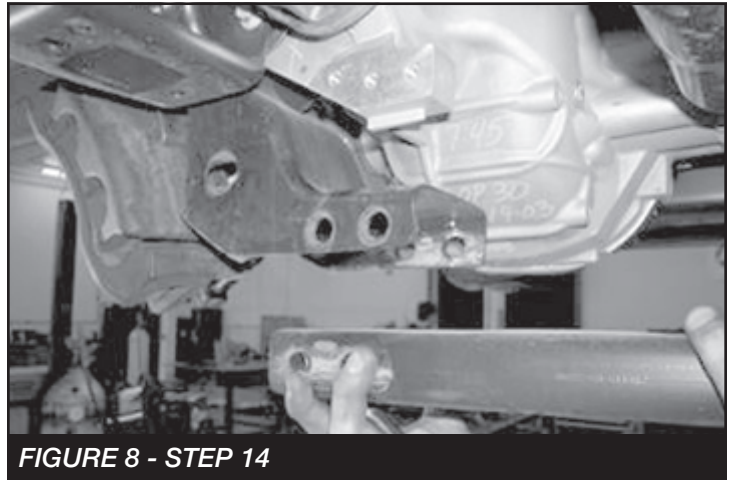


FIGURE 8 - STEP 14

15. Remove the front drive shaft bolts where they attach to the front differential. Support the end of the driveshaft before removing the front differential.

16. Remove the driver side rear differential mount hardware and discard. While supporting the differential, remove the two upper differential mount bolts and remove the differential and axles from the vehicle. **SEE FIGURE 9**

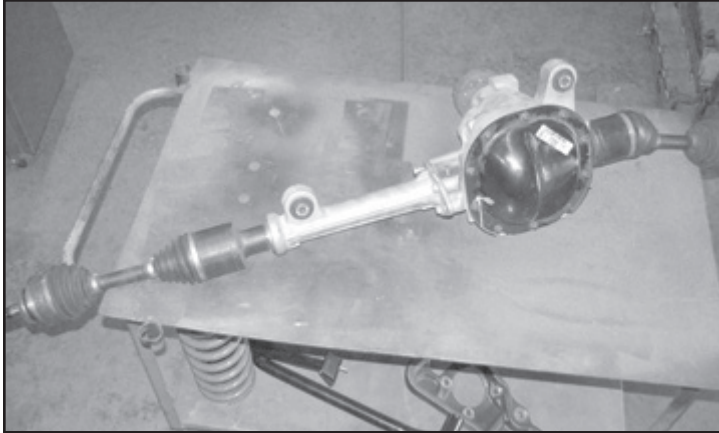


FIGURE 9 - STEP 16

17. Locate rear differential mount closest to the pinion shaft. Mark the mount behind the bushing. Using a die grinder, remove the mount and discard. **SEE FIGURES 10-11**

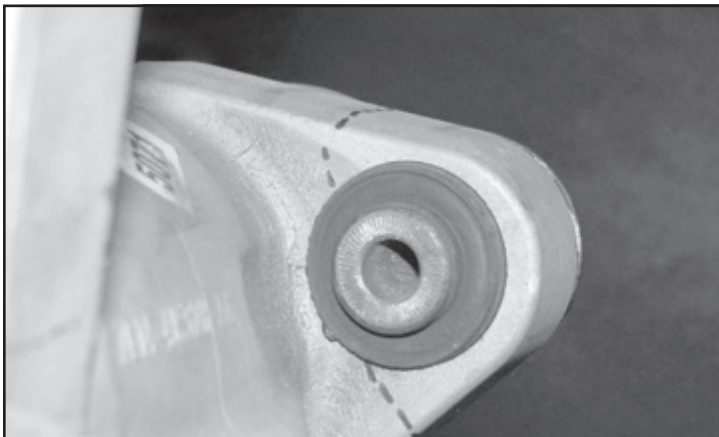


FIGURE 10 - STEP 17



FIGURE 11 - STEP 17

18. Use a sander and remove all sharp edges and burs after the cut. **SEE FIGURE 12**

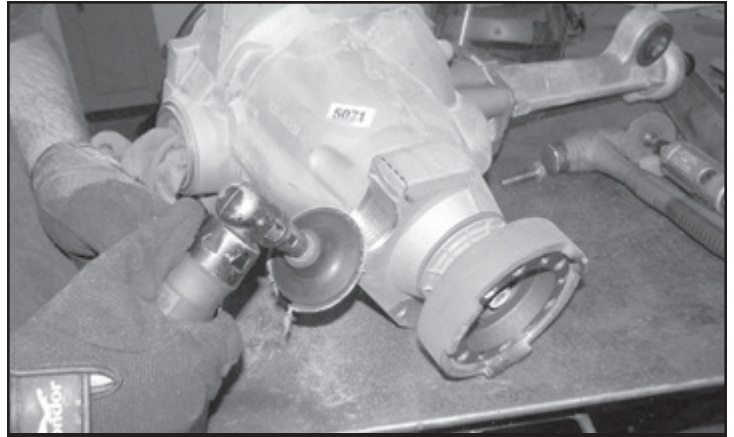


FIGURE 12 - STEP 18

19. Locate the driver side rear lower control arm pocket. Mark the frame 1-3/8" from the control arm pivot hole and 90 degrees to the bottom of the pocket where the cross member was mounted. Using a die grinder, cut all the way around the pocket. Discard removed portion of the pocket. **SEE FIGURES 13-15**

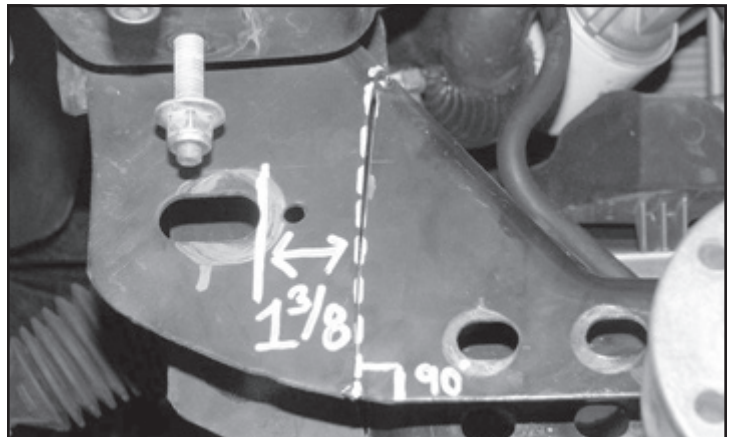


FIGURE 13 - STEP 19

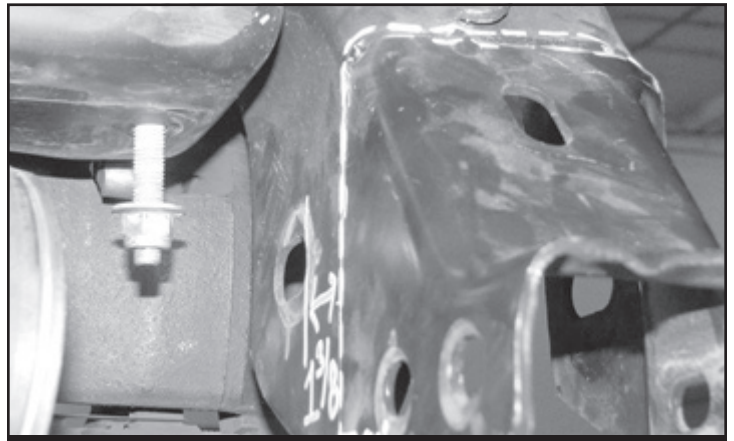


FIGURE 14 - STEP 19

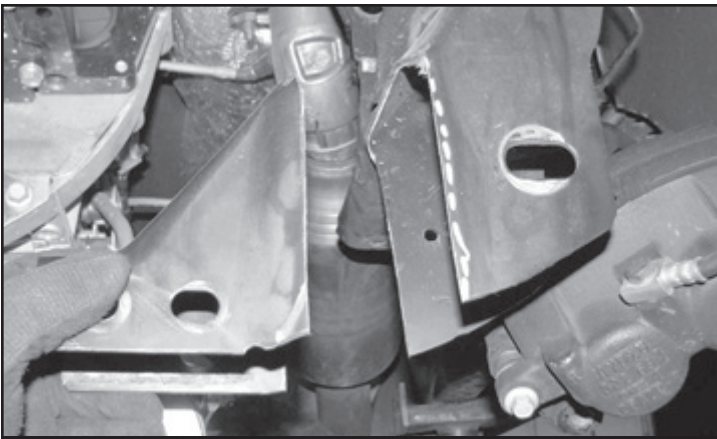


FIGURE 15 - STEP 19

20. Still working on the driver side rear lower control arm pocket, locate the tab on the pocket closest to the front of the vehicle. You will need to sand a radius in the front side of the pocket in order to clear the differential housing. **SEE FIGURE 16**

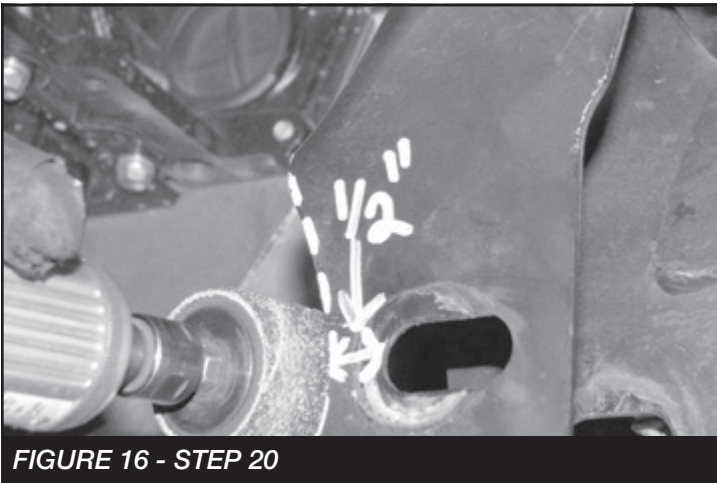


FIGURE 16 - STEP 20

21. Locate the two Fabtech upper differential mounts (FT30378). These upper differential mounts will be placed into the factory upper differential mounts using the factory upper differential mount hardware. Leave the hardware loose in preparation for the differential installation. **SEE FIGURES 17-18**

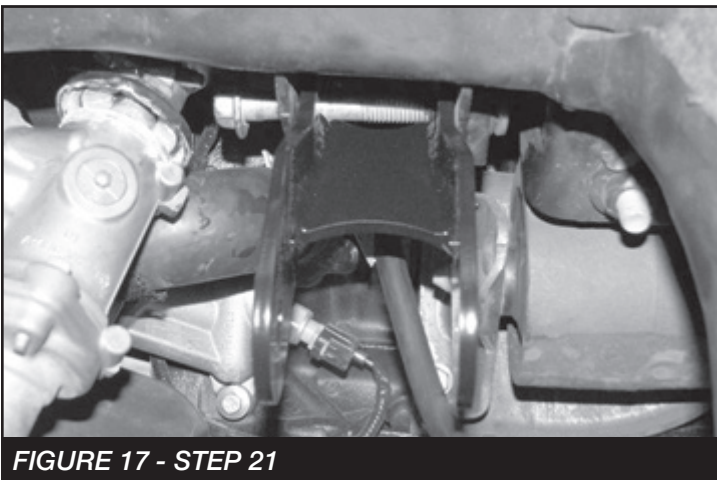


FIGURE 17 - STEP 21

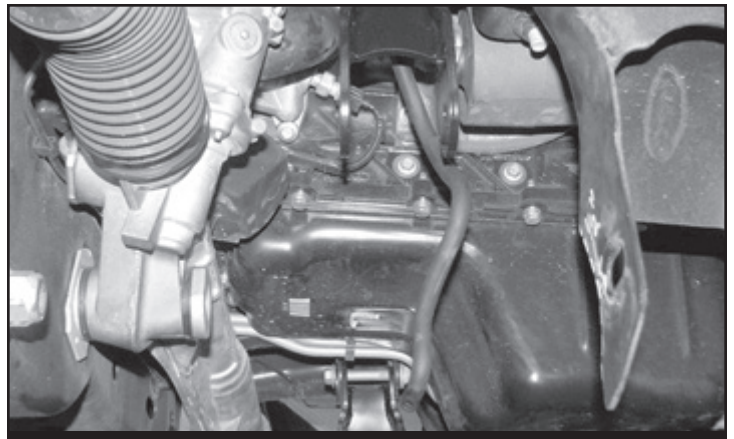


FIGURE 18 - STEP 21

22. Locate the factory front differential and install into the Fabtech upper differential mounts using two 1/2"-13 x 4" hex cap bolts, washers and lock nuts. Leave all hardware loose in preparation of the installation of the remaining differential mounts. **SEE FIGURE 19**

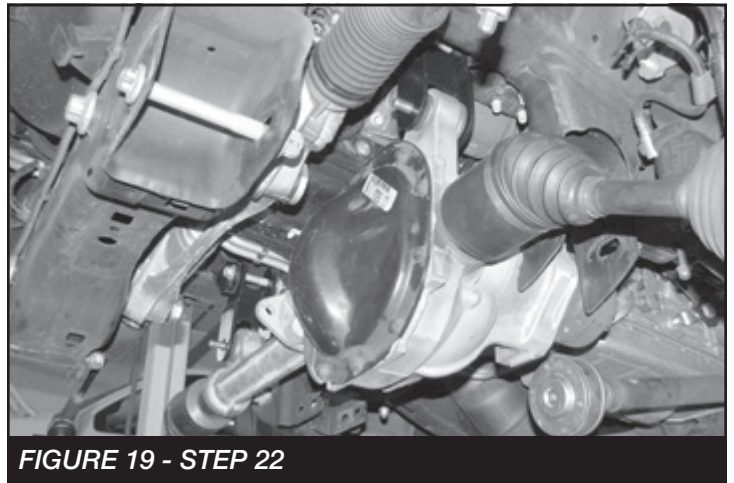


FIGURE 19 - STEP 22

23. Locate the Fabtech rear crossmember (FT30376BK). Install the rear crossmember in the factory rear lower control arm pockets. Mount the crossmember using the factory control arm pivot hardware. Leave all hardware loose. All the tabs on the face of the crossmember should be pointed to the rear of the vehicle. **SEE FIGURE 20**

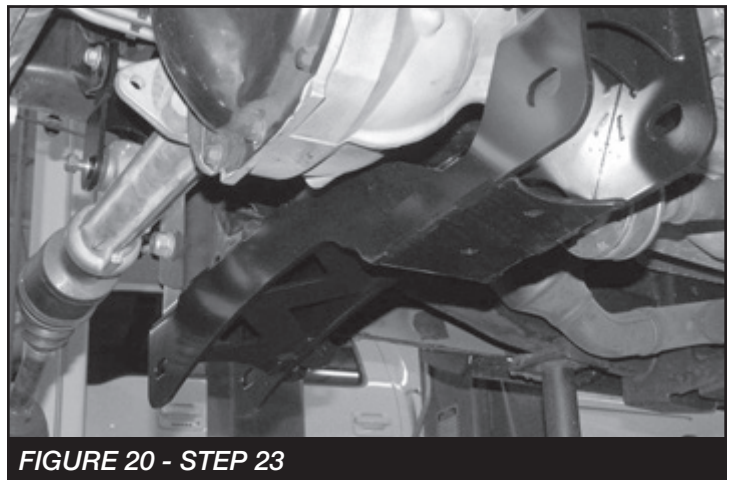


FIGURE 20 - STEP 23

24. Remove the center differential housing bolts on the back side of the differential. **SEE FIGURE 21**

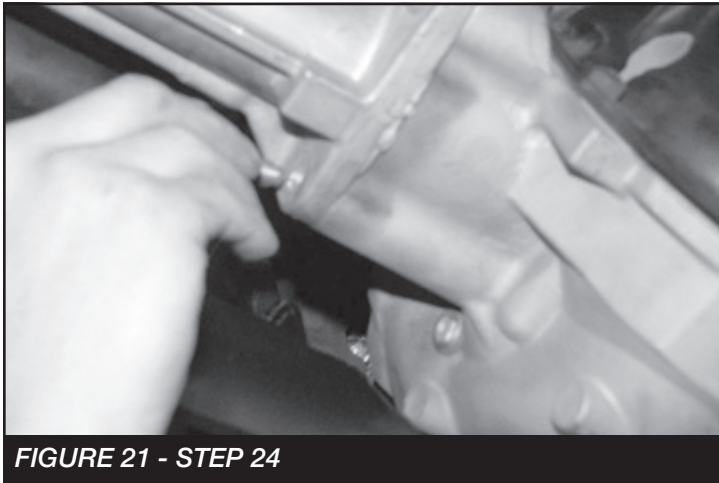


FIGURE 21 - STEP 24

25. Locate the center differential bracket (FT30381). Install two of the Fabtech (FT1020) bushings and one sleeve (FT181) into the barrel on the differential bracket. Mount the differential bracket to the center of the differential and reinstall the factory bolts. Torque the factory hardware to 35 ft-lbs. The barrel and the bushing section of the bracket will install in to the two tabs on the top of the crossmember with a 1/2"-13 x 3-1/2" bolt, washers and c-lock nut. Leave loose. **SEE FIGURE 22**

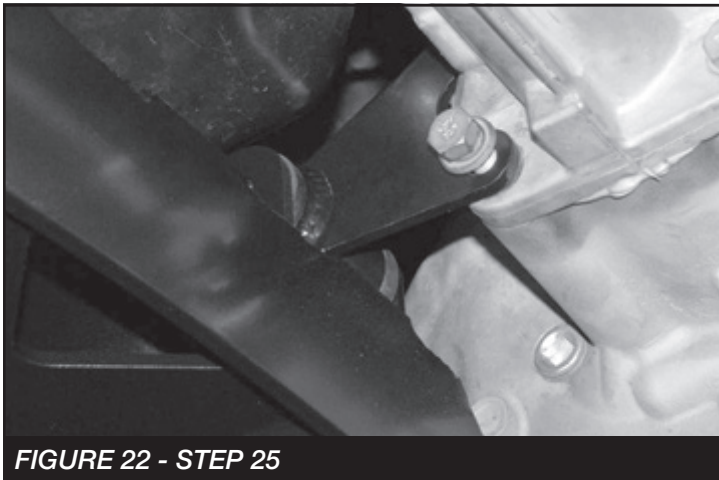


FIGURE 22 - STEP 25

26. Reinstall the front drive shaft with the factory hardware and torque to 35 ft-lbs. **SEE FIGURE 23**

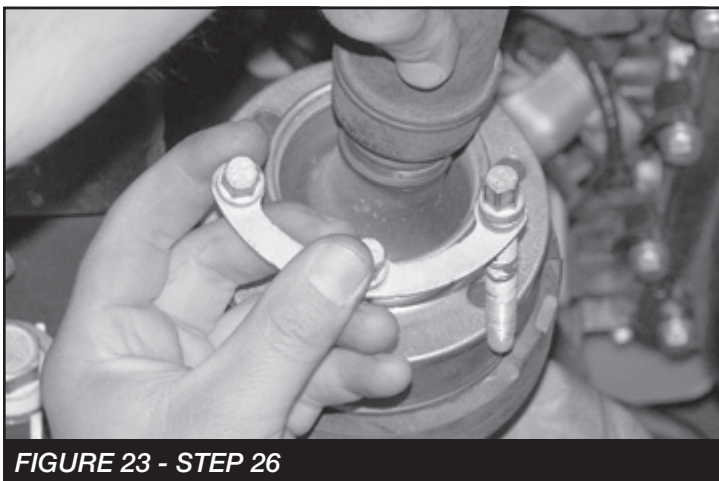


FIGURE 23 - STEP 26

27. Locate the rear diff mount (FT30422). Install two of the Fabtech (FT1020) bushings and one sleeve (FT181) into the barrel on the differential bracket. Install the diff mount into the rear crossmember tabs behind the diff using a 1/2"-13x31/2" bolt, nut and washers. Leave all hardware loose. **SEE FIGURE 24**

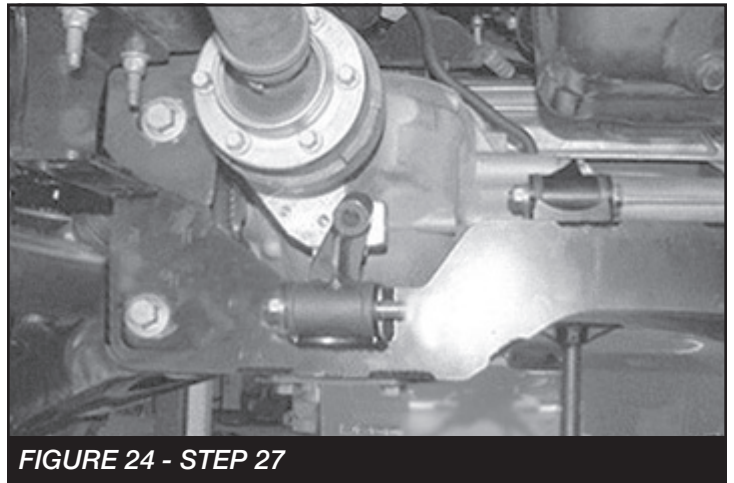


FIGURE 24 - STEP 27

28. Rotate the rear diff mount up against the housing. Using the diff mount as a drill guide drill the housing to 1/2". **NOTE – DEPENDING ON THE BUILD TIME OF THE VEHICLE, THE HOUSING MAY HAVE A MACHINED SURFACE AND A THREADED HOLE ON THE SECTION OF THE HOUSING YOU ARE WORKING WITH. THE (FT30422) REAR DIFF MOUNT WILL WORK WITH EITHER VERSION. SEE FIGURE 25**

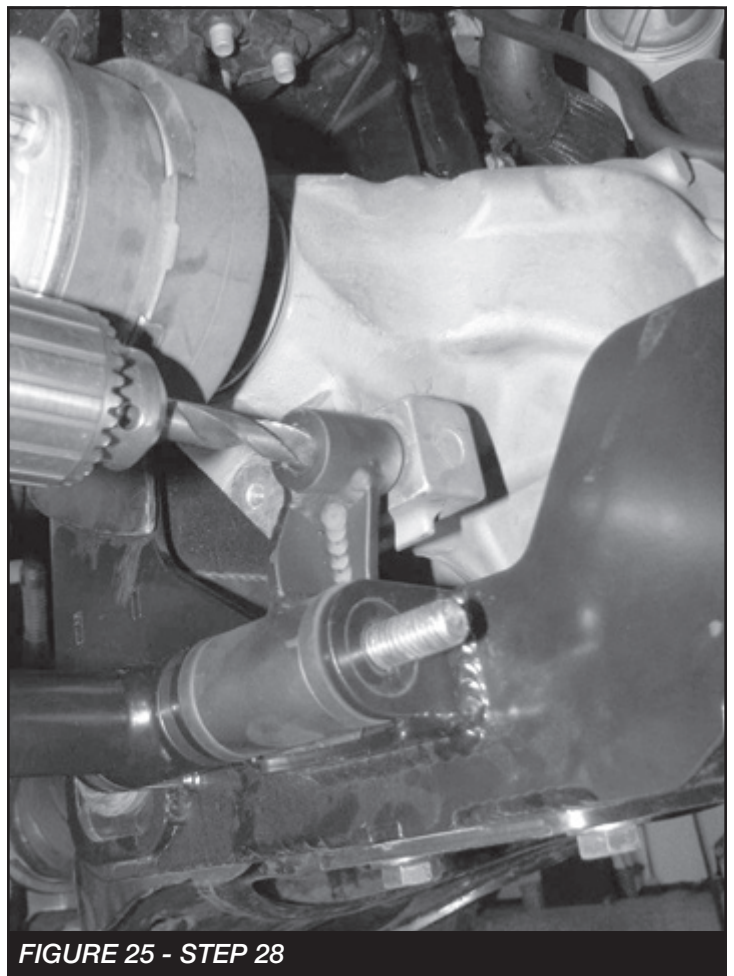


FIGURE 25 - STEP 28

29. Locate the supplied 1/2" - 13 x 3-1/2" bolt and install into the Rear Diff Mount passing all the way through the diff housing. Torque to 83 ft-lbs. **SEE FIGURE 26**

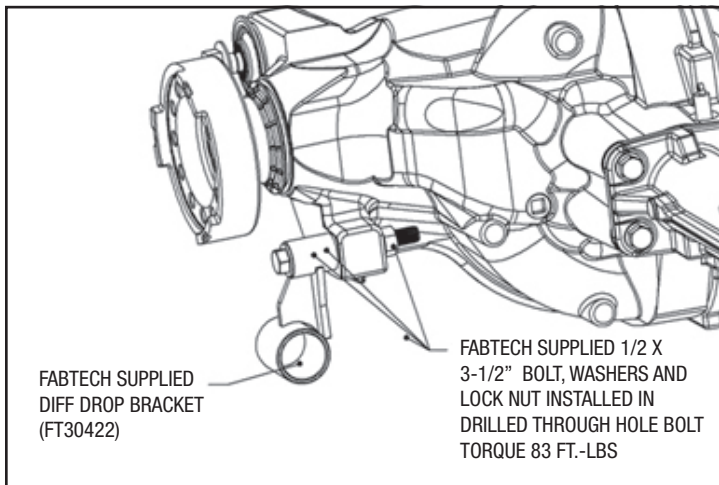


FIGURE 26 - STEP 29

30. At this time locate all the differential brackets and torque to the specifications below.

- Upper diff bracket pass and driver - factory upper bolts 90 ft-lbs and lower 1/2" bolts 127 ft-lbs.
- Center diff mount - 1/2" bolt 127 ft-lbs.
- Rear diff mount and the impact tube - 1/2" bolt 127 ft-lbs.

31. Reinstall the factory vent hose back on to the differential.

32. Locate the Fabtech front crossmember (FT30375BK). Install the front crossmember into the factory front control arm pockets using the factory hardware. Make sure the skid plate tab on the crossmember is facing the Fabtech rear crossmember. Leave the hardware loose at this time. **SEE FIGURE 27**



FIGURE 27 - STEP 32

33. Locate the Alignment cam kit (FT295). Locate the factory control arms. Install the lower control arms into the Fabtech crossmembers using the hardware in the cam kit (FT295). Torque the cam bolts at 200 ft-lbs after alignment. **SEE FIGURE 28**

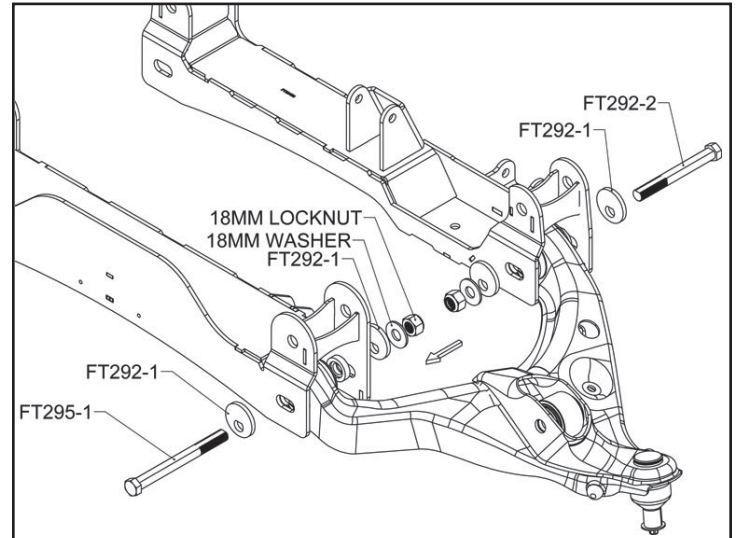


FIGURE 28 - STEP 33

34. Locate the Fabtech skid plate (FT30377BK) the skid plate will span the distance between the front and rear crossmembers directly under the front differential. Attach the end of the skid plate with the single hole to the tab on the back side of the front crossmember using one 1/2" - 13 x 1-1/4 bolt, washers and a C-lock nut. Lift up the back side of the skid plate and install it to the rear crossmember using two 1/2" - 13 x 1-1/4 bolts, washers and a C-lock nut. Torque all hardware to 127 ft-lbs. Torque crossmember bolts to 240 ft-lbs. **SEE FIGURE 29**



FIGURE 29 - STEP 34

If installing Dirt Logic coilovers (FTS221341) do so at this time, using the instructions provided in the shock box. Once finished, you may skip to STEP 44.

If using the factory coilover continue to STEP 35.

35. Locate the FT30558BK DRVR and FT30559BK PASS shock spacers.
36. Locate the factory coilovers.

37. Install the Driver side spacer on the driver side coilover using the factory hardware and torque to 35 ft-lbs. Repeat on the passenger side. **SEE FIGURE 30**

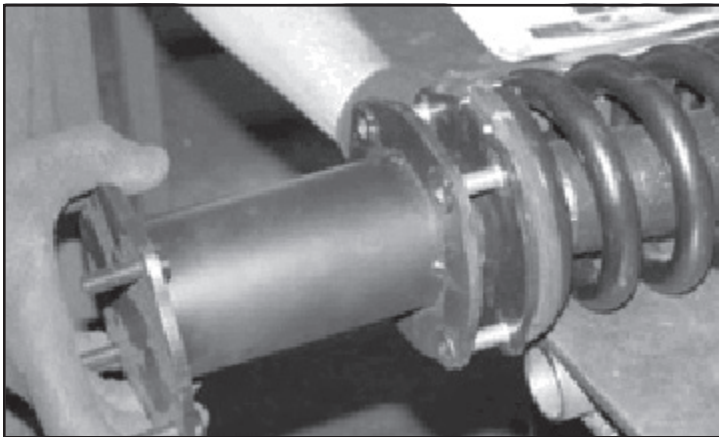


FIGURE 30 - STEP 37

38. Install the coil over into the frame bucket. Rotate lower mount inline with the control arm tabs, and the pivot at the control arm using the factory hardware. Torque the upper nuts to 35 ft-lbs and the lower pivot to 100 ft-lbs. Refer to the drawing below for shock orientation in the vehicle. **SEE FIGURE 31**

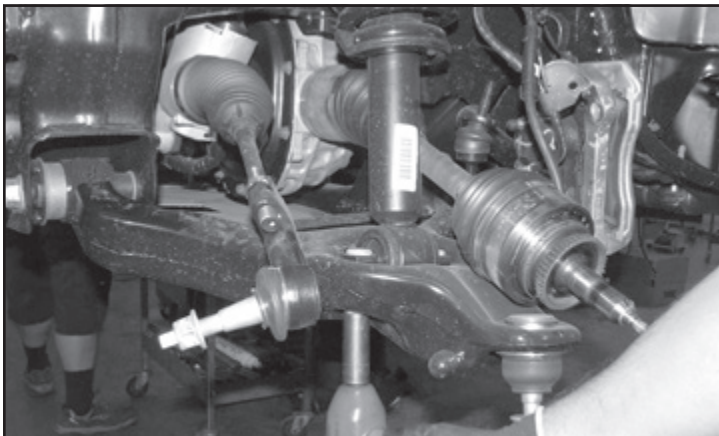


FIGURE 31 - STEP 38

39. Locate the Fabtech driver side spindle (FTS30374D) and install the factory hub. Torque the four 14mm bolts to 160 ft- lbs. **SEE FIGURES 32-33**

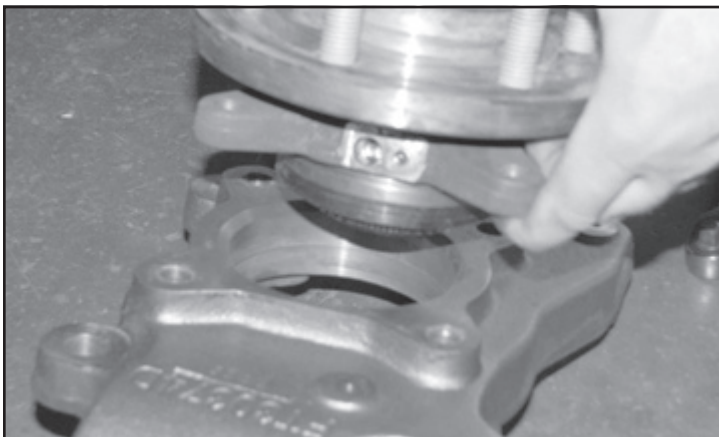


FIGURE 32 - STEP 39

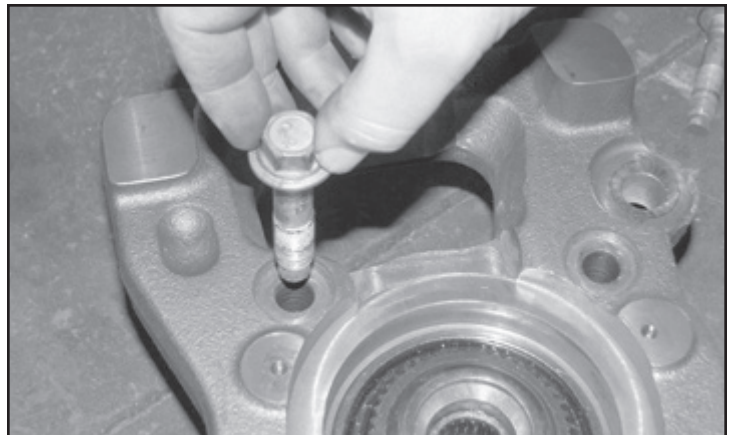


FIGURE 33 - STEP 39

40. Locate the factory 4WD actuator and install into the Fabtech spindle. Torque the factory 8mm bolts to 17 ft-lbs. **SEE FIGURE 34**

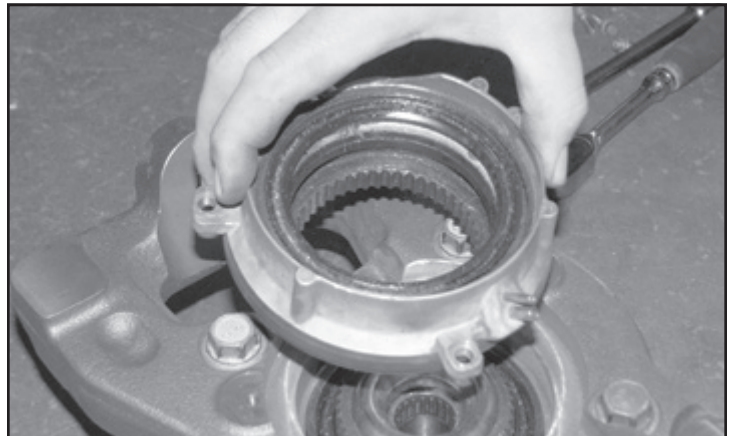


FIGURE 34 - STEP 40

41. Install the Fabtech knuckle onto the upper and lower control arms. Torque the upper ball joint to 85 ft-lbs and the lower ball joint to 110 ft-lbs. **SEE FIGURE 35**

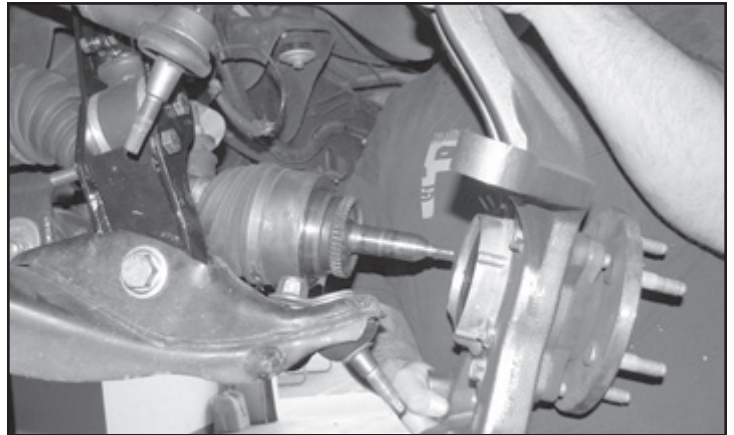


FIGURE 35 - STEP 41

42. Install the dust shield and torque to 14 ft-lbs. Install CV shaft nut and torque to 35 ft-lbs. Install the factory dust cover. **SEE FIGURE 36**

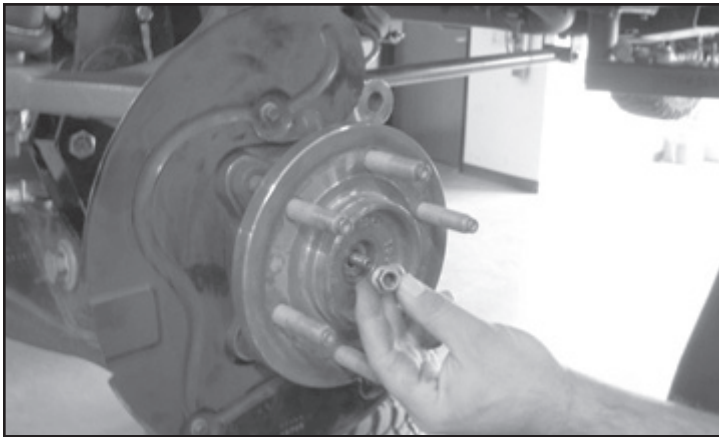


FIGURE 36 - STEP 42

43. Install the ABS wheel speed sensor. Make sure the end of the sensor is clean. **SEE FIGURE 37**



FIGURE 37 - STEP 43

44. Carefully pull some slack from the frame side and reconnect the vacuum line to the hub assembly. Install the Fabtech frame brake line bracket (FT70032). Using the factory hardware, mount factory brake line bracket to the side of the Fabtech knuckle. After installing the factory brake line bracket, check to insure full movement by steering the knuckle back and forth, and make sure none of the ABS lines, brake lines, or vacuum lines are inhibited during full test movement of the knuckle.

SEE FIGURES 38-39

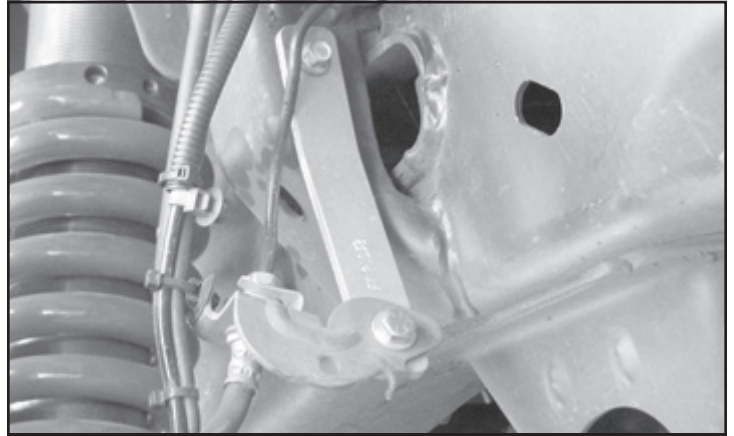


FIGURE 38 - STEP 44

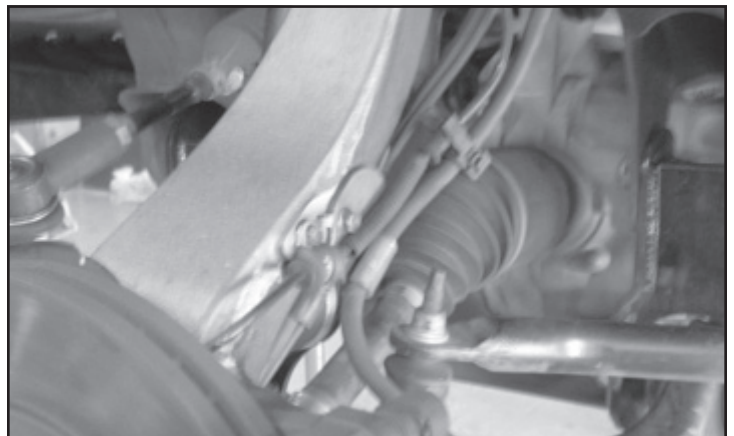


FIGURE 39 - STEP 44

45. Reinstall the original brake rotor, followed by the brake caliper. Use a small amount of the supplied thread lock compound on the caliper bolts and torque to 145 ft-lbs. **SEE FIGURE 40**

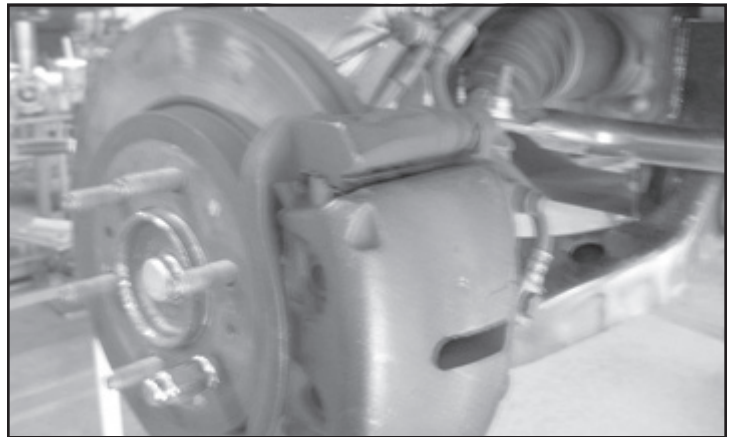
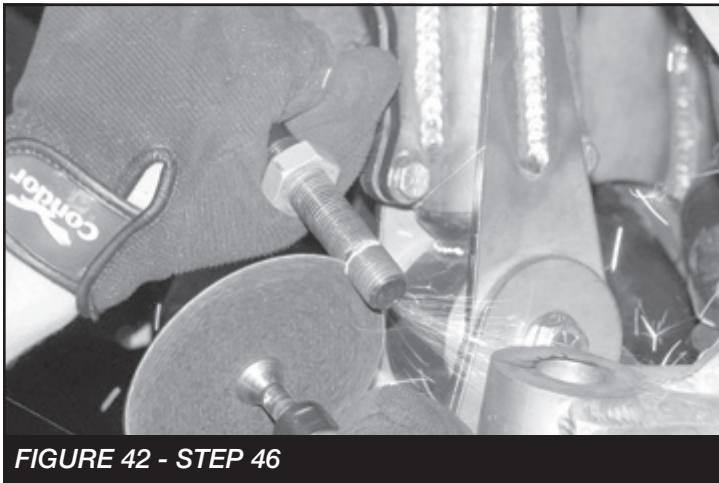
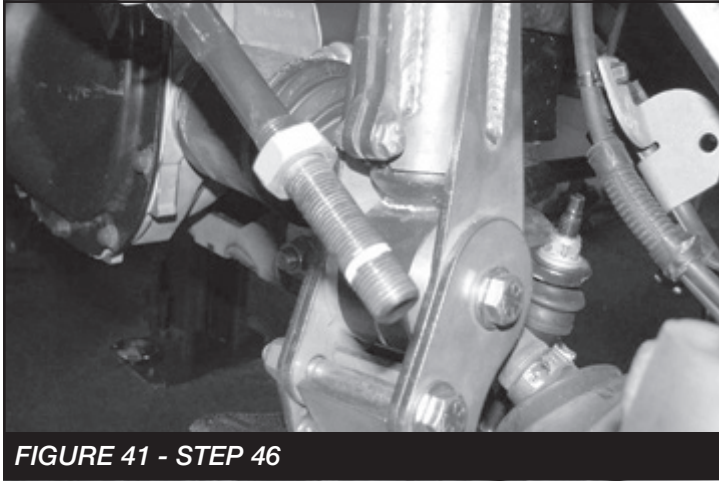


FIGURE 40 - STEP 45

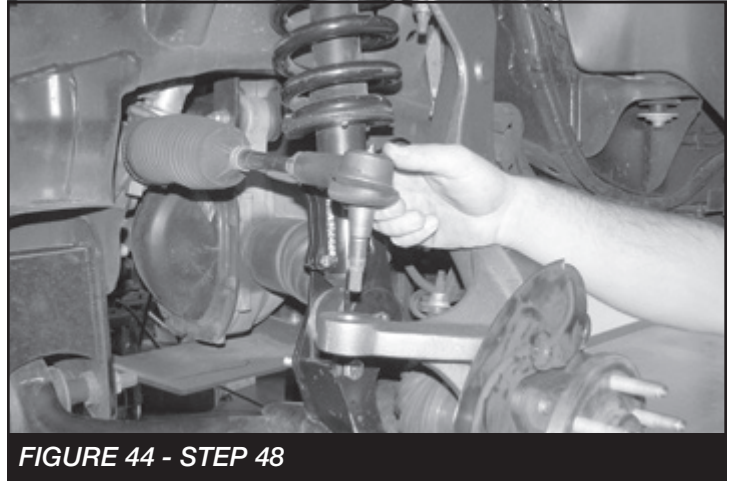
46. Locate the factory tie rod. Trim 1" off the end.
SEE FIGURES 41-42



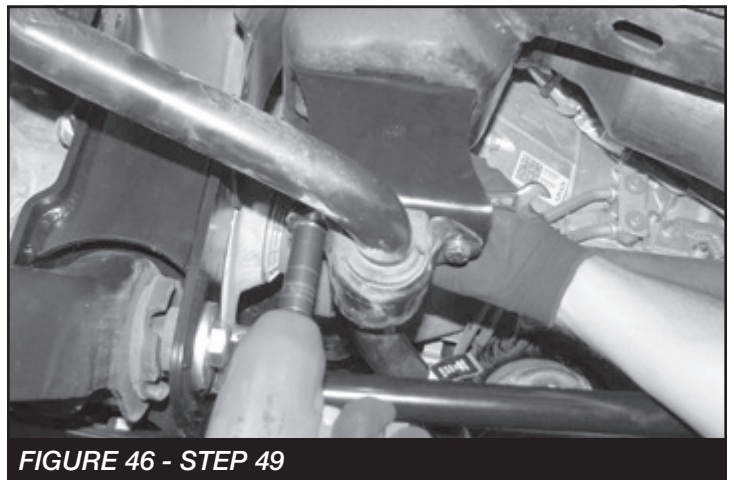
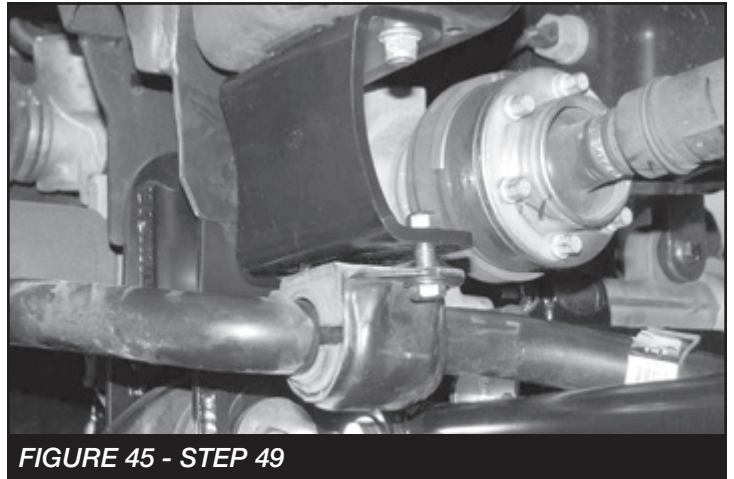
47. Locate the Fabtech tie rod end (FT20277). Install the tie rod end on the tie rod. Torque to 60 ft-lbs.
SEE FIGURE 43



48. Reconnect the tie rod end to the steering knuckle and torque to 60 ft-lbs. **SEE FIGURE 44**



49. Install the factory sway bar to the frame using the FT30063BK driver side bracket and the FT30062BK passenger side bracket. **SEE FIGURES 45-46**



50. Install the sway bar end to the factory lower control arm using the factory end links. **SEE FIGURE 47**

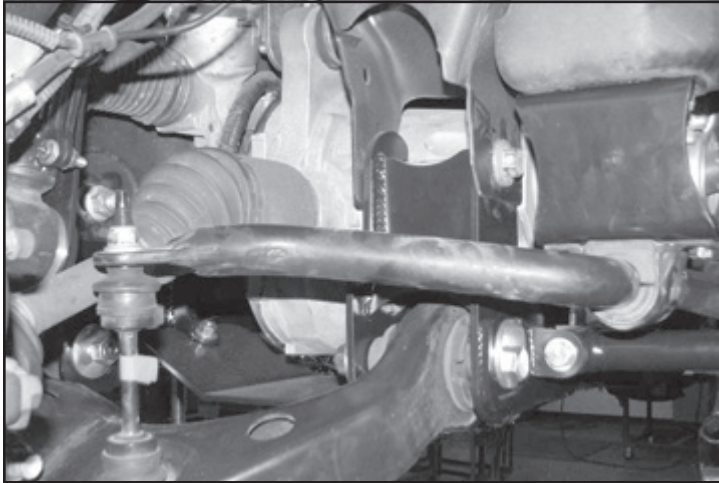


FIGURE 47 - STEP 50

REAR SUSPENSION

51. Jack up the rear end of the vehicle and support the frame rails with jack stands. Release the parking brake at this time. Supporting the rear differential, remove the rear shocks, u-bolts, blocks and lower axle down. Use care not to over extend the brake hose.
52. Locate the factory brake line mount on the driver side of the frame. Locate the supplied brake line bracket (FT70033) and attach the bracket between the factory frame mount and the factory brake line. **SEE FIGURE 57**



FIGURE 48 - STEP 49

53. Locate and install the rear lift blocks FTBK52. The extended bump stop perch will be facing inboard of the truck. Using the provided u-bolts, nuts and washers, align the axle, lift blocks, and springs and torque u-bolts to 90 ft-lbs. **SEE FIGURE 58**



FIGURE 49 - STEP 49

54. Locate FTS7266 rear shocks (not included with kit). Install the supplied shock sleeves from bag 143002 into each end of the shocks. Install the shocks using the factory hardware and torque upper and lower bolts to 45 ft-lbs.
55. Locate E-brake bracket (FT30387) and mount to the factory E-brake cable mount and reinstall the E-brake cable into the Fabtech bracket. **SEE FIGURES 50-52**

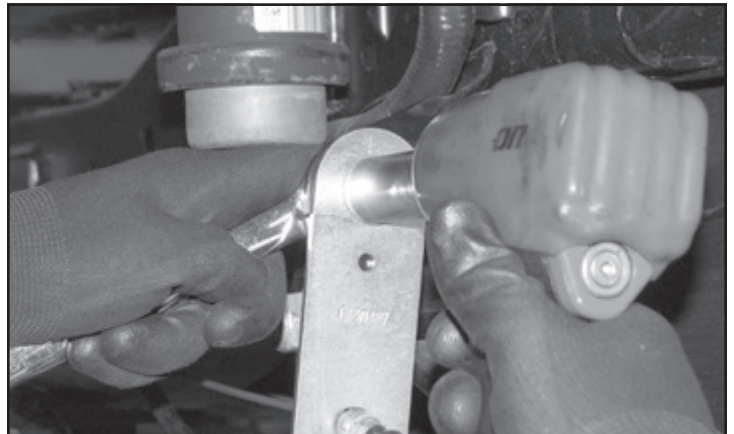


FIGURE 50 - STEP 55

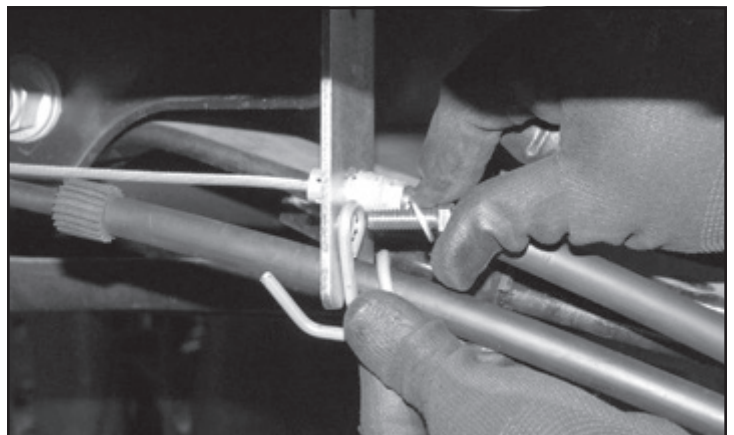


FIGURE 51 - STEP 55

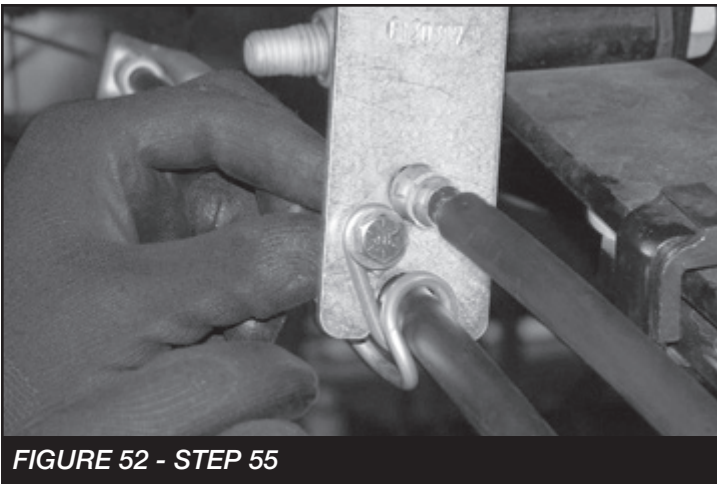


FIGURE 52 - STEP 55

56. 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 oversized tires may require trimming of the front bumper & valance.**
57. Check front end alignment and set to factory specifications. Readjust headlights.
58. Recheck all bolts for proper torque.
59. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
60. Check the fluid in the front and rear differential and fill if needed with factory specification differential oil. **Note - some differentials may expel fluid after filling and driving. This can be normal in resetting the fluid level with the new position of the differential/s.**
61. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.

Vehicles that will receive oversized tires should check ball joints and all steering components every 2500-5000 miles for wear and replace as required.

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.