



INSTALLATION INSTRUCTIONS



2009-12 DODGE 1500 4WD

6" PERFORMANCE SYSTEM

FTS23027/FTS23028/FTS23009BK/FTS23036/FTS23037

**2009-11 DODGE 1500 4WD
- PARTS LIST -**

FTS23027		COMPONENT BOX 1
2	FT44163BK	REAR UPPER LINK
2	FT44164BK	REAR LOWER LINK
1	FTS44115D	Steering knuckle (DRIVER)
1	FTS44115P	Steering knuckle (PASSENGER)
1	FT44020	DIFF MOUNT FRONT PASS
1	FT44021	DIFF MOUNT DRIVER OUTER
1	FT44022	DIFF MOUNT DRIVER REAR
1	FT44026	DIFF MOUNT REAR PASS
1	FT44027	DIFF MOUNT DRIVER INNER
2	FT44066	TIE ROD END
2	FT44073	LOWER SWAY BAR MOUNT
2	FT44075	SWAY BAR END LINK
1	FT44077	HARDWARE KIT
2	FT44133	SWAY BAR SPACER
1	FT44195	HARDWARE SUBASSEMBLY

FTS23028		COMPONENT BOX 2
2	FT44294BK	COIL SPRING
1	FT44166BK	TRACK BAR SUPPORT TUBE
1	FT44187BK	TRACK BAR DROP BRACKET
1	FT44188BK	REAR BUMP STOP SPACER DRIV
1	FT44189BK	REAR BUMP STOP SPACER PASS
2	FT1599-2-4	5" SWAY BAR LINK CLEAR ZINC
1	FT44357BK	SKID PLATE RAM 4X4 BLACK
1	FT44029	SPACER DRIVE SHAFT
2	FT44068BK	IMPACT TUBE MOUNT
2	FT44074BK	IMPACT TUBE
1	FT44191	HARDWARE KIT
8	FT84	ZERK FITTING
1	FTLOCK	THREAD LOCKING
1	FT44358BK	FRONT CROSSMEMBER
1	FT44089BK	REAR CROSSMEMBER
1	FT44192	HARDWARE SUBASSEMBLY

FTS23009BK		COMPONENT BOX 3
1	FT44065BK	SHOCK SPACER (DRIVER)
1	FT44067BK	SHOCK SPACER (PASSENGER)

FT44191 - HARDWARE KIT		LOCATION
4	M10-1.5 X 60MM HEX HD C/S CL 8.8	SWAY BAR
4	M12 FLAT WASHER	
4	M12-1.75 X 70MM HEX C/S CL.10.9	LINK ARMS
8	M12 FLAT WASHER	
4	M12-1.75 C - LOCK	
1	M14-2.0 X 100MM HEX HD C/S CL 10.9	TRACK BAR
2	14MM FLAT WASHER	
1	M14-2.0 GR C CROWNLOCK NUTS	
1	5/16-18 X 1" HEX	E-BRAKE BRACKET
2	5/16" SAE FLAT WASHER	
1	5/16-18 C - LOCK NUTS	
6	7/16-14 X 1 1/2 HEX HD C/S GRADE 8	BUMPSTOPS
10	7/16" SAE FLAT WASHER	
5	7/16-14 C -LOCK	
2	1/2-13 X 1" HEX HEAD	TRACK BAR BRACKET
2	1/2" SAE FLAT WASHER	
1	3/4-10 X 3 HEX HEAD	TRCK BAR SUPPORT TUBE
2	3/4" SAE FLAT WASHER	
1	3/4-10 C - LOCK	
8	1/4-28 TAPERED THRD STRAIGHT GREASE FITTING	LINK ARMS
1	LOCTITE #14500 2ML TUBE RED	
6	8" CABLE TIE BLACK	

FT44195		HARDWARE SUBASSEMBLY
2	FT90111	BUSHING KIT
1	FT1044	IMPACT STRUT BUSHING KIT
2	FT23027i	INSTRUCTIONS
1	FT44071	BRAKELINE MOUNT DRVR
1	FT44072	BRAKELINE MOUNT PASS
1	FT90084	SWAY BAR BUSHING KIT
1	FTAS12	STICKER
1	FTAS16	DRIVER WARNING DECAL
2	FTLOCK	THREAD LOCK
1	FTREGCARD	REGISTRATION CARD
4	FTS43	MISALIGNMENT 3/4"
2	FTS98003	3/4" ROD END L.D.

FT44192		HARDWARE SUBASSEMBLY
1	FT189	SLEEVE 1.000 X .625 X 1.7
8	FT1004	SWAY BAR LINK BUSHING HALF
4	FT404739	SLEEVE OD 0.62 ID 12MM L.1.48
1	FT44045	TRACK BAR NUT TAB
2	FT50136	NUT TAB LOWER MOUNT
1	FT44069	DRVR IMPACT MOUNT NUT TAB
1	FT44070	PASS IMPACT MOUNT NUT TAB

2012 DODGE 1500 4WD - PARTS LIST -

FTS23036		COMPONENT BOX 1
1	FT44020	DIFF MOUNT FRONT PASSENGER
1	FT44021	DIFF MOUNT DRIVER OUTER
1	FT44026	DIFF MOUNT REAR PASSENGER
1	FT44207	PASS MOUNT INNER
1	FT44204	DIFF MOUNT REAR
2	FT44066	TIE ROD END
2	FT44073	LOWER SWAY BAR MOUNT
2	FT44075	SWAY BAR END LINK
1	FT44077	HARDWARE KIT
1	FT44078	HARDWARE KIT
1	FT44210	HARDWARE KIT
2	FT44133	SWAY BAR SPACER
2	FT44163BK	REAR UPPER LINK BLACK
2	FT44164BK	REAR LOWER LINK BLACK
1	FT44208	HARDWARE SUBASSEMBLY
1	FTS44115D	Steering knuckle DODGE 4WD DRVR MACH
1	FTS44115P	Steering knuckle DODGE 4WD PASS MACH

FTS23037		COMPONENT BOX 2
2	FT1599-2-4	5" SWAY BAR LINK CLEAR ZINC
1	FT44019BK	SKID PLATE RAM 4X4 BLACK
1	FT44203	SPACER DRIVE SHAFT
2	FT44068BK	IMPACT TUBE MOUNT
2	FT44074BK	IMPACT STRUT 30.00"
1	FT44088BK	FRONT XMEMBER 06 DODGE 2WD/4WD
1	FT44089BK	REAR XMEMBER 06 DODGE 2WD/4WD
1	FT44166BK	TRACK BAR SUPPORT TUBE
1	FT44187BK	TRACK BAR DROP BRACKET BLACK
1	FT44188BK	REAR BUMP STOP SPACER DRIV
1	FT44189BK	REAR BUMP STOP SPACER PASS
1	FT44191	HARDWARE KIT
1	FT44192	HARDWARE SUBASSEMBLY
2	FT44294BK	COIL DODGE RAM 09 1500 REAR

FTS23038		COMPONENT BOX 3
2	FT44209BK	SHOCK SPACER

FT44192		HARDWARE SUBASSEMBLY
8	FT1004	SWAY BAR LINK BUSHING HALF
1	FT189	SLEEVE 1.000 X .625 X 1.7
4	FT404739	SLEEVE OD 0.62 ID 12MM L.1.48
1	FT44045	TRACK BAR NUT TAB CLEAR ZINC
1	FT44069	DRVR IMPACT MOUNT NUT TAB
1	FT44070	PASS IMPACT MOUNT NUT TAB
2	FT50136	NUT TAB LOWER MOUNT

FT44210 - HARDWARE KIT		LOCATION
3	M12-1.75 X 35MM HEXT BOLT	REAR DIFF MOUNT
3	M12-1.75 GR C CROWNLOCK NUT	
3	1/2-13 X 1-3/4 HEX BOLT G8	REAR DIFF MOUNT
3	12 1/2 SAE WASHER G8	
3	1/2-13 C- LOCK NUT	
4	M12-1.75 X 55MM HEX BOLT G10.9	DRIVESHAFT SPACER
4	M12 LOCK WASHER	
4	M12 FLAT WASHER	
6	12 1/2 SAE WASHER	FRONT DIFF MOUNT

FT44077 - HARDWARE KIT		LOCATION
4	M12-1.75 X 45MM HEX HEAD 10.9	DRIVE SHAFT SPACER
4	M12 FLAT WASHER	
6	7/16-14 GRADE C - LOCK	SHOCK SPACER
6	7/16" SAE FLAT WASHER	
4	1/2-13 X 2 3/4" HEX HEAD	PASSENGER DIFF MOUNT
8	1/2" SAE FLAT WASHER GRADE 8	
4	1/2-13 GRADE C LOCK NUT	
4	1/2-13 X 2 1/2" HEX HEAD	FRONT DIFF MOUNT
8	1/2" SAE FLAT WASHER GRADE 8	
4	1/2-13 GRADE C OVAL LOCK NUT	
3	9/16-12 X 2 1/4 HEX HEAD	REAR PASS DIFF MOUNT
3	9/16" SAE FLAT WASHER	
3	9/16-12 C LOCK NUTS	
4	5/8-11 X 5 1/2 HEX	CONTROL ARM PIVOT BOLT
8	5/8" SAE FLAT WASHER	
4	5/8-11 GRADE C LOCK NUT	
4	7/16 -14 x 3 1/2 HEX HEAD	IMPACT TUBES
4	7/16-14 GRADE C - LOCK	
8	7/16" SAE FLAT WASHER	

FT44208		HARDWARE SUBASSEMBLY
1	FT1044	IMPACT STRUT BUSHING KIT
2	FT23027I	INSTRUCTIONS
2	FT44205	SLEEVE 1.000 X .563 X .665
1	FT44071	BRAKELINE MOUNT DRVR
1	FT44072	BRAKELINE MOUNT PASS
1	FT90084	SWAY BAR BUSHING KIT
2	FT90111	BUSHING KIT
1	FTAS12	STICKER FT BLUE 10X4 DIE CUT
1	FTAS16	DRIVER WARNING DECAL
2	FTLOCK	THREAD LOCKING COMPOUND 1 MIL
1	FTREGCARD	REGISTRATION CARD
4	FTS43	MISALIGNMENT 3/4" CLEAR ZINC
2	FTS98003	3/4" ROD END L.D.

- TOOL LIST -

Required Tools (Not Included)

Floor Jack, Jack Stands, Torque Wrench, Drill/Drill Bits, Arbor Press or vise, Sawzall, Assorted Metric and S.A.E sockets, and Allen wrenches, Die Grinder w/ Cutoff Wheel and Grinding Wheel, Large Dead Blow Hammer

- PRE-INSTALLATION NOTES -

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.

This suspension must be installed with Fabtech shock absorbers.

Use the provided thread locking compound on all hardware.

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

Vehicles that receive oversized tires should check ball joints, uniballs, tie rods ends, pitman arm and idler arm every 2500-5000 miles for wear and replace as needed.

Verify differential fluid is at manufactures 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.

FOOTNOTES -

- Rear springs may reduce load carrying capacity.
- Will not fit all wheel drive models.
- Cannot use OEM wheel and tire.
- Larger tires cannot be installed on the OEM wheels.
- Will not fit 1500 Mega Cab models.

Recommend Tires and Wheels -

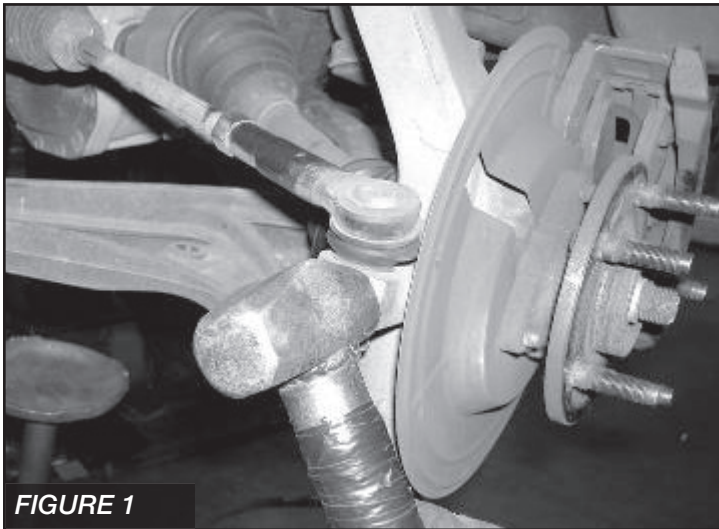
Use 325/65R18 tire w/ 18x9 wheels w/ 4 1/2" BS w/ minor trimming

Use 35/12.50R20 tire w/ 20x9 wheels w/ 4 1/2" BS w/ minor trimming

- INSTRUCTIONS -

FRONT SUSPENSION

1. Disconnect the negative terminal on the battery.
2. 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.
3. Remove the factory transfer case skid plate and discard.
4. Disconnect the front drive shaft from the differential and discard the hardware. (Do not allow to hang freely)
5. Locate the sway bar end links and disconnect them from the lower control arms and the sway bar. Discard the end links and hardware. Leave the factory sway bar on the truck attached to the frame mounts.
6. Working from the driver side of the vehicle, disconnect the tie rod end from the steering knuckle by striking the knuckle to dislodge the tie rod end. Do not remove the factory Jam Nut from the inner tie rod. Discard the outer tie rod as a new Fabtech tie rod end will be installed later. **SEE FIGURE 1**

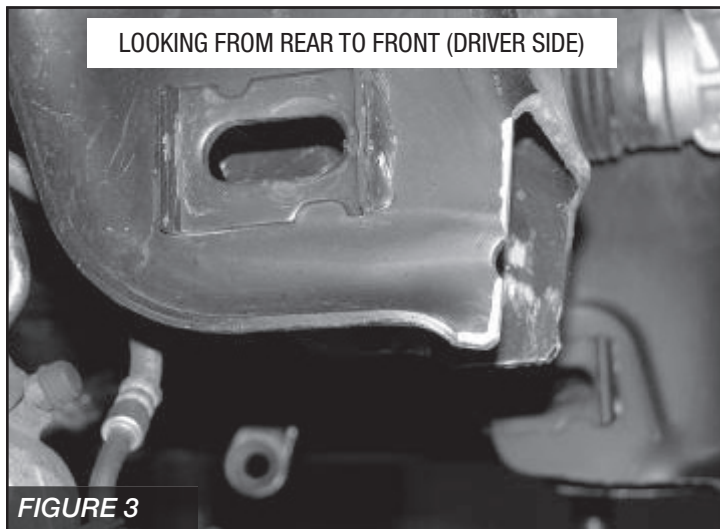
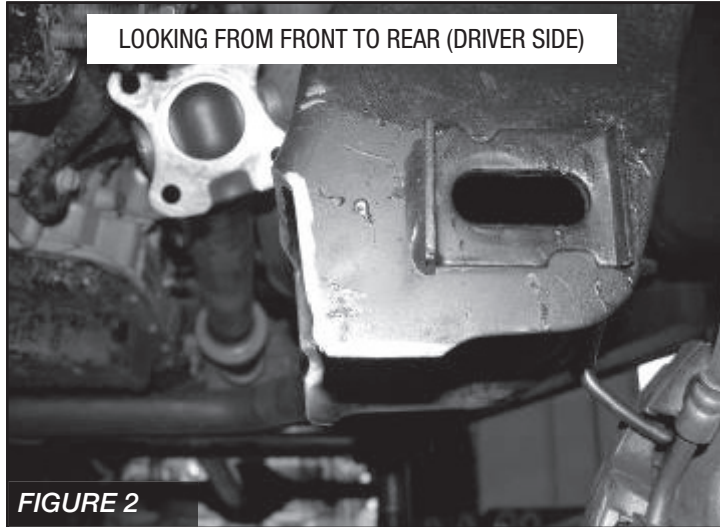


- FIGURE 1**
7. Remove the brake caliper and place it next to the frame. Do not overstretch the brake hose when doing so. **DO NOT LET THE BRAKE CALIPER HANG FROM THE BRAKE HOSE.** Retain the hardware for reinstallation. Remove the brake rotor and save. Unplug the ABS wire at the plug behind the inner fender well and remove the ABS line clamp where it is attached to the steering knuckle.
 8. Remove the axle nut from the center of the hub and save.
 9. Remove the upper and lower ball joint nuts and save. Using a large hammer, strike the steering knuckle to dislodge the ball joints from the steering knuckle. **USE CARE NOT TO DAMAGE THE THREADS ON THE BALL JOINTS.** Remove the steering knuckle from the truck.

10. Remove the bolts attaching the hub bearing to the steering knuckle and save. Remove hub assembly along with the ABS sensor wire and dust shield from the steering knuckle as one and save. **NOTE:** Do not disconnect the ABS sensor from the hub at anytime. Note position of the hub in the steering knuckle for later re-installation. Discard the steering knuckle.
11. Remove the three upper shock assembly bolts from the truck and save. Remove the lower shock bolt and save. Remove the shock assembly from the truck and save. The factory shock assembly will be reused if you are installing the 6" Basic System. If you are installing the 6" Performance System, you can discard the factory shock assembly and hardware.
12. Remove the factory lower control arm bolts / alignment cams and save. Remove the lower control arm and save.
13. Remove the C.V. half shaft from the differential. This can be done by using a rubber mallet and striking the backside of the inner C.V. joint housing. Save the half shaft. **NOTE:** The differential may leak some gear oil.
14. Repeat steps 6-13 on the passenger side of the truck.
15. Remove the factory rear crossmember from the truck and discard the crossmember and hardware.
16. Support the differential with a floor jack or transmission jack, disconnect solenoid and remove the differential from the truck. Save the hardware from the driver rear differential mount and discard the rest.

17. Locate the driver side rear lower control arm mount where the factory rear crossmember was previously removed. As shown in the picture below, using a die grinder cut a 1" section from the side of the frame and 1/2" from the bottom of the frame. **SEE FIGURES 2-3**

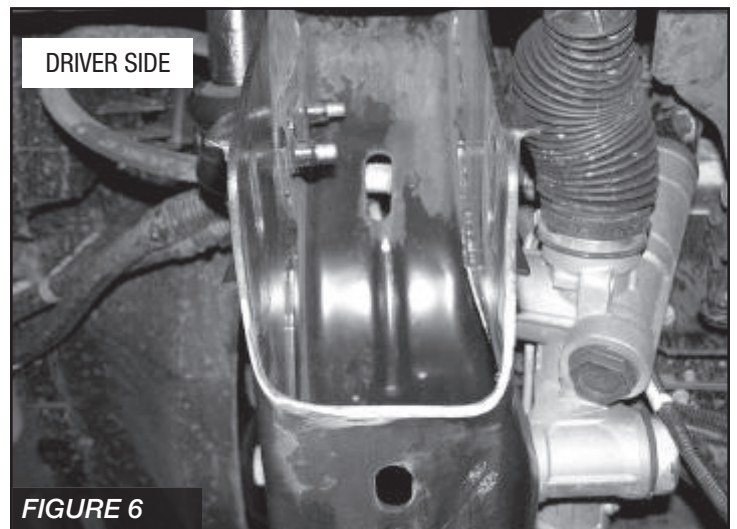
DUE TO VARIANCES IN EACH TRUCK, ADDITIONAL CUTTING / GRINDING MAY BE REQUIRED FOR PROPER FITMENT OF THE CROSSMEMBERS AND DIFFERENTIAL. USE THESE MEASUREMENTS AS A STARTING POINT AND CLEARANCE THE FRAME POCKETS AS NEEDED FOR PROPER FITMENT OF THE CROSSMEMBERS & DIFFERENTIAL.



18. Locate the Passenger side rear lower control arm mount where the factory rear crossmember was previously removed. As shown in the picture below cut a 1" section from the side of the frame and 1/2" from the bottom of the frame. **SEE FIGURES 4-5**



19. Locate the factory front lower control arm pockets. Grind 1/4" section from both pockets as shown in the photo. **SEE FIGURES 6-7**



PASSENGER SIDE

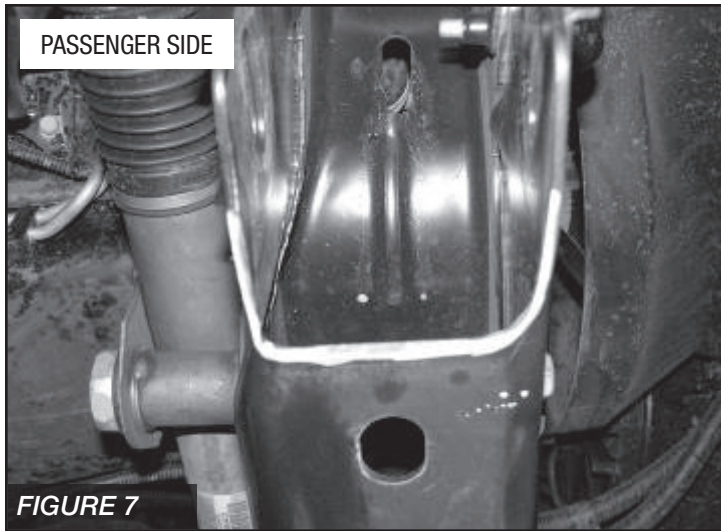


FIGURE 7

FOR 2009-11 MODELS PERFORM STEPS 20-23

20. Locate FT44020 and FT44026 passenger side diff mounts. Using the supplied $\frac{1}{2}$ " X $2\frac{3}{4}$ " hardware, attach the brackets to the differential as shown in the diagram. Leave loose at this time.

SEE FIGURES 8 & 10



FIGURE 8

21. Locate FT44021 and FT44027 Driver front diff mounts. Using the supplied $\frac{1}{2}$ " X $2\frac{1}{2}$ " hardware attach, the brackets to the differential as shown in the diagram. Leave loose at this time.

SEE FIGURE 9 & 10

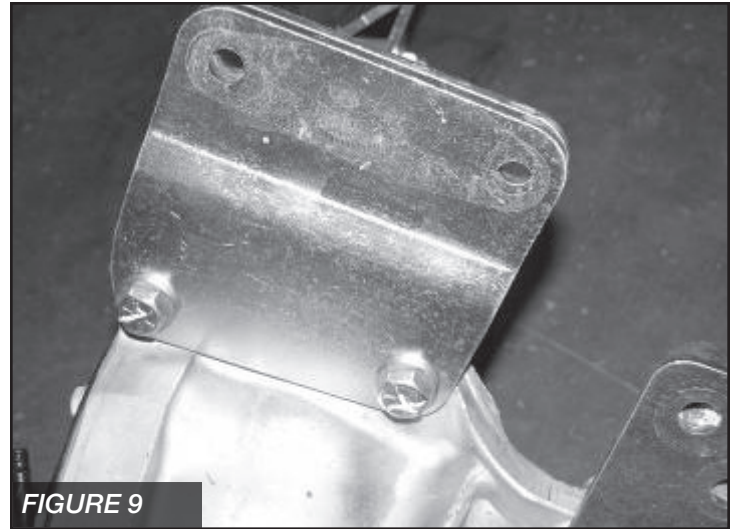
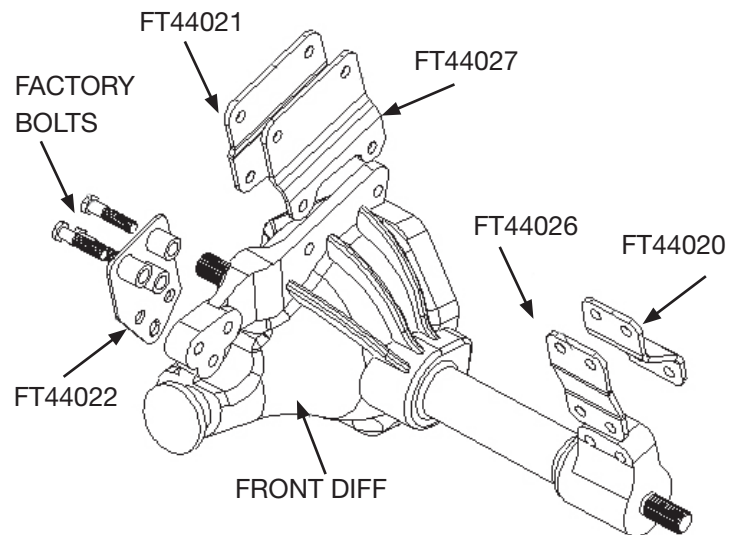


FIGURE 9

22. Locate FT44022 Driver rear diff mount. Using the original hardware attach the bracket to the original frame mount. Leave loose at this time. **SEE FIGURE 10**

2009-11 MODELS

FIGURE 10



23. Install the differential back into the truck attaching the new Fabtech drop brackets to the factory frame mounts. Use the supplied $\frac{1}{2}$ " x $2\frac{3}{4}$ " bolts, nuts, and washer on the passenger side bracket and use the supplied $\frac{9}{16}$ " X $2\frac{1}{4}$ " bolt, nuts, and washer on the driver rear brackets. Do not mount the Driver front diff mount at this time. **LEAVE ALL HARDWARE LOOSE AT THIS TIME.**

FOR 2012 MODELS PERFORM STEPS 24-27

24. Locate FT44020 and FT44026 passenger side diff mounts. Using the supplied $\frac{1}{2}$ " x $2\frac{3}{4}$ " hardware attach the brackets to the differential with the FT44205 spacers. The spacers should space the FT44020 bracket to front of the diff. Leave loose at this time.

SEE FIGURES 11-12 & 17

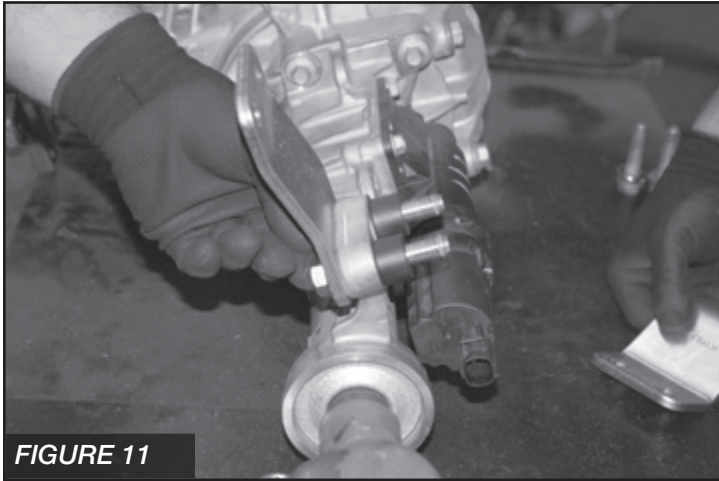


FIGURE 11



FIGURE 12

25. Locate FT44021, FT44207 Driver front diff mounts and 6 $\frac{1}{2}$ " SAE Washers. Using the supplied $\frac{1}{2}$ " x $2\frac{1}{2}$ " hardware attach the brackets to the differential as shown in the diagram. Leave loose at this time.

SEE FIGURES 13-15 & 17

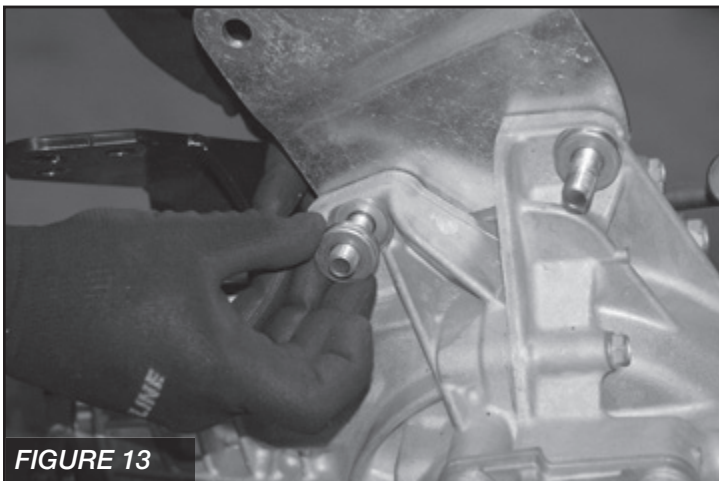


FIGURE 13

26. Locate FT44204 Driver rear diff mount. Using the

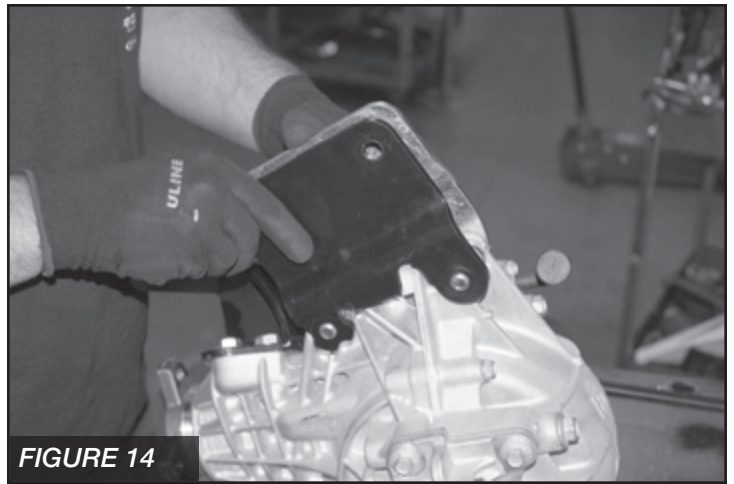


FIGURE 14



FIGURE 15

M12x35mm bolts, lock washers and flat washers attach the bracket to the original diff mount mount. Leave loose at this time. **SEE FIGURES 16 & 17**

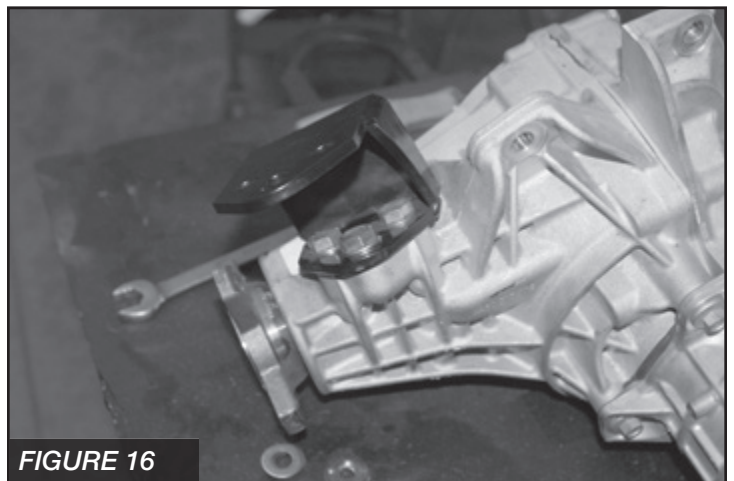
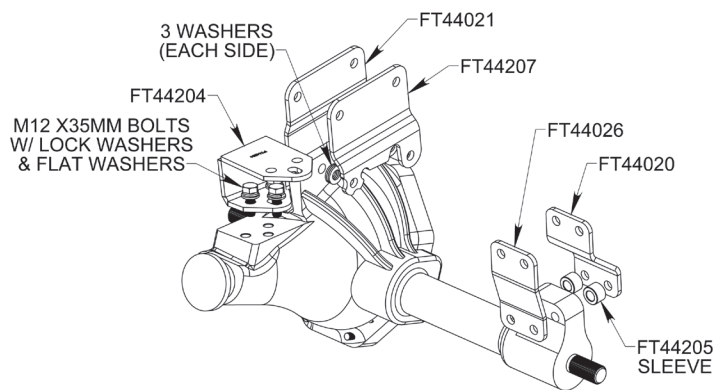


FIGURE 16

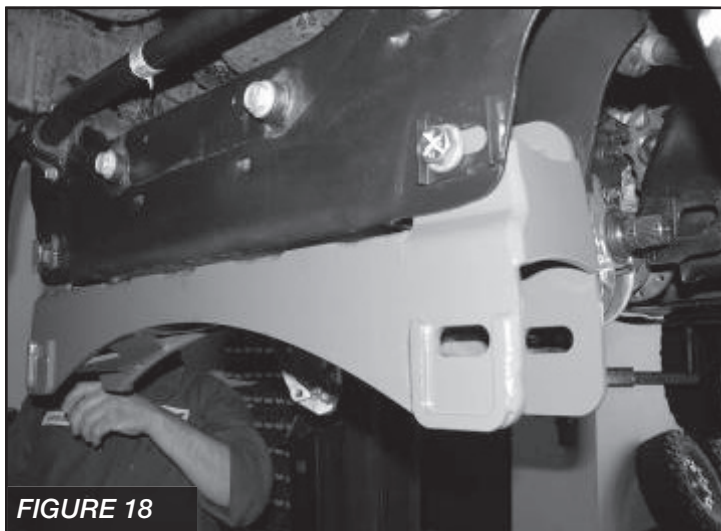
2012 MODELS

FIGURE 17

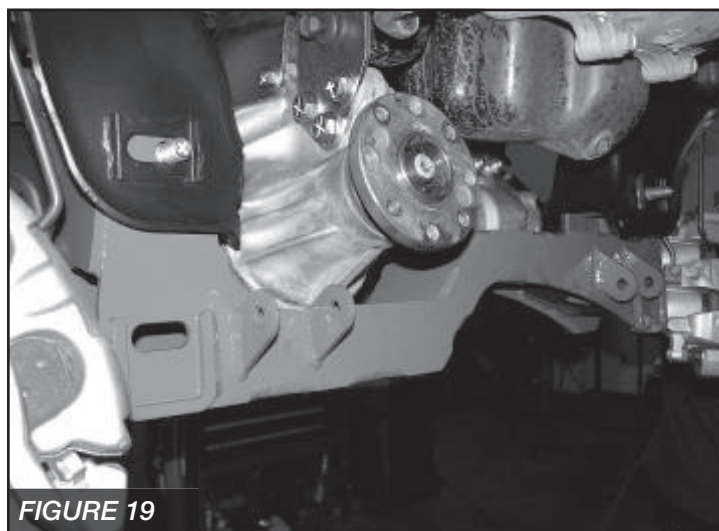


27. Install the differential back into the truck attaching the new Fabtech drop brackets to the factory frame mounts. Use the supplied $\frac{1}{2}$ " x $2\frac{3}{4}$ " bolts, nuts, and washer on the passenger side bracket and use the supplied $\frac{1}{2}$ -13 x $1\frac{3}{4}$ " bolt, nuts, and washer on the driver rear brackets. **DO NOT** mount the Driver front diff mount at this time. **LEAVE ALL HARDWARE LOOSE AT THIS TIME.**

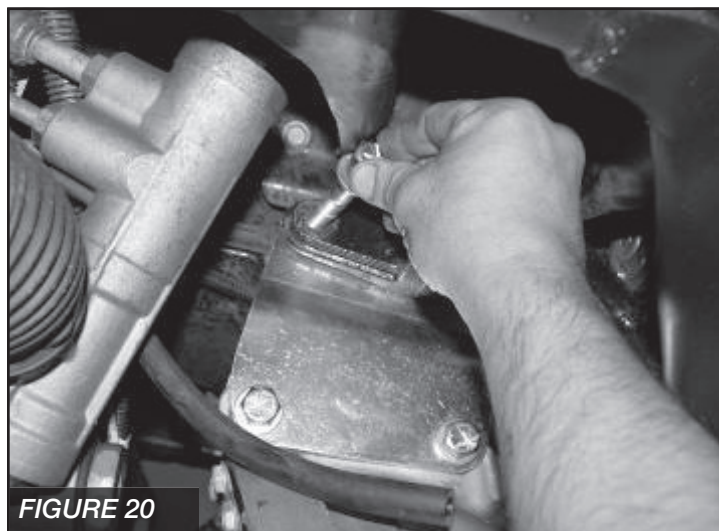
28. Locate FT44358BK front crossmember and install it into the front lower control arm pockets using the supplied $\frac{5}{8}$ " x $5\frac{1}{2}$ " bolts, nuts, and washers. Leave loose at this time. **SEE FIGURE 18**



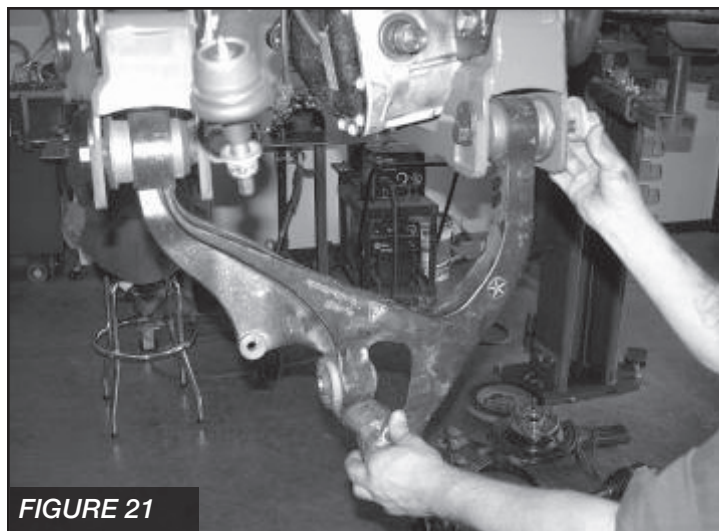
29. Locate FT44089BK rear crossmember and install it into the frame pockets using the $\frac{5}{8}$ " x $5\frac{1}{2}$ " bolts, nuts, and washers. Leave loose at this time. **SEE FIGURE 19**



30. Install the supplied $\frac{1}{2}$ " x $2\frac{1}{2}$ " bolts, nuts, and washers on the driver side front diff bracket. Torque all differential hardware to 100 ft lbs. **SEE FIGURE 20**



31. Working from the driver side of the truck, install the factory lower control arm to the Fabtech crossmembers using the original alignment cam bolts. Leave loose at this time. **SEE FIGURE 21**



32. Install the C.V. half shaft back onto the differential by pushing the half shaft onto the splines until the snap ring locks. **SEE FIGURE 22**

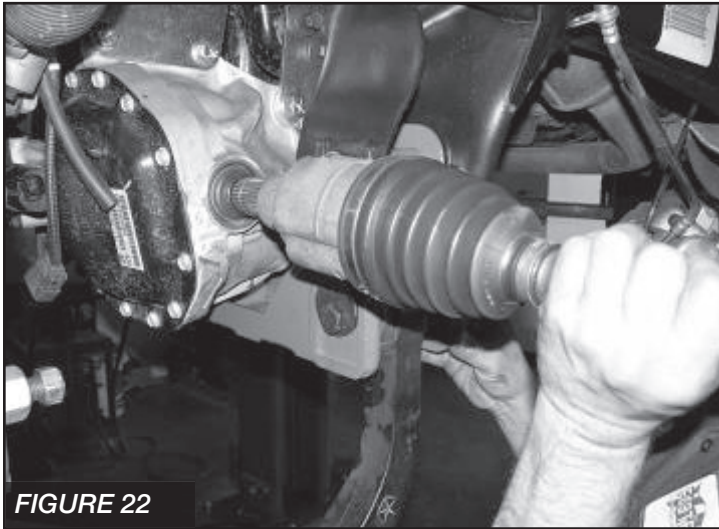


FIGURE 22

FOLLOW STEPS 33-34 FOR BASIC KIT ONLY.

IF INSTALLING THE PERFORMANCE SYSTEM WITH DIRT LOGIC 2.5 COILOVERS, INSTALL THE COILOVER SO IT IS OFFSET AWAY FROM THE AXLE.

33. Locate the previously removed shock assembly, for 2009-11 models attach FT44065BK (driver side) and FT44067BK (passenger side) spacer to the top of the shock assembly using the stock hardware. For 2012 models attach FT44209BK (driver & passenger side spacer to the top of the shock assembly using the stock hardware. Use a small amount of the supplied thread locking compound on the supplied shock to spacer hardware. Torque to 35 ft-lbs. You will need to mount the spacer so that it aligns properly with the coilover. **SEE FIGURES 23-24**

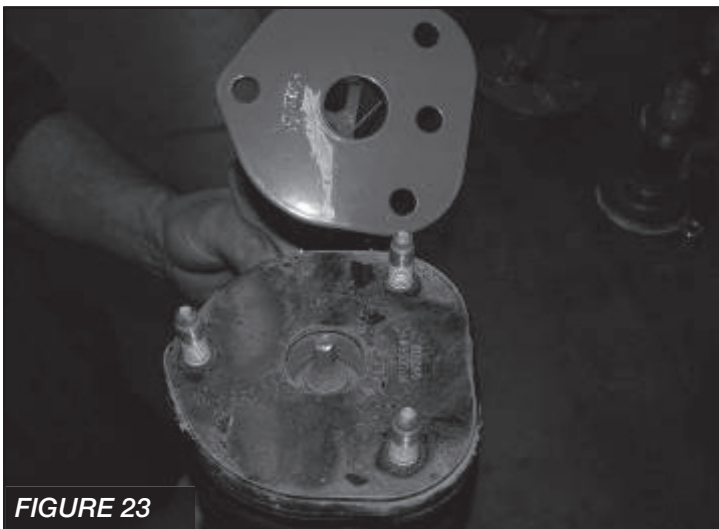


FIGURE 23

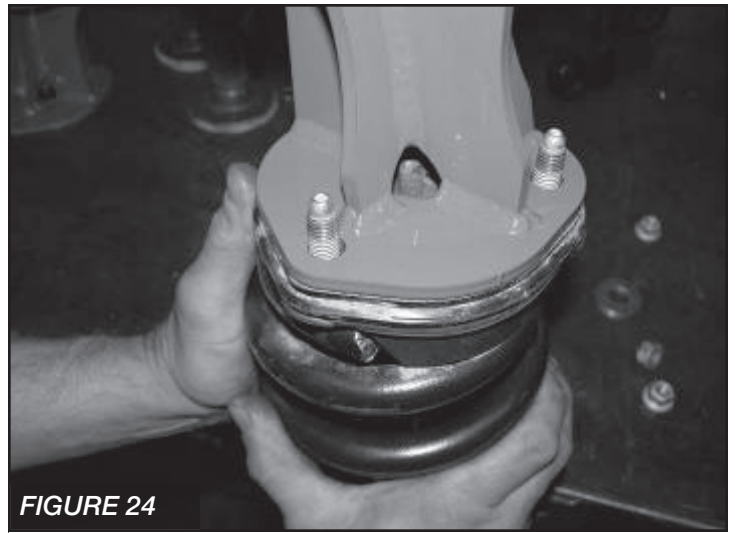


FIGURE 24

34. Install the complete shock assembly into the truck attaching the three upper bolts first using the supplied 3/8" C-lock and flat washers, leave loose. Torque upper hardware to 52 ft. lbs. **SEE FIGURE 25**

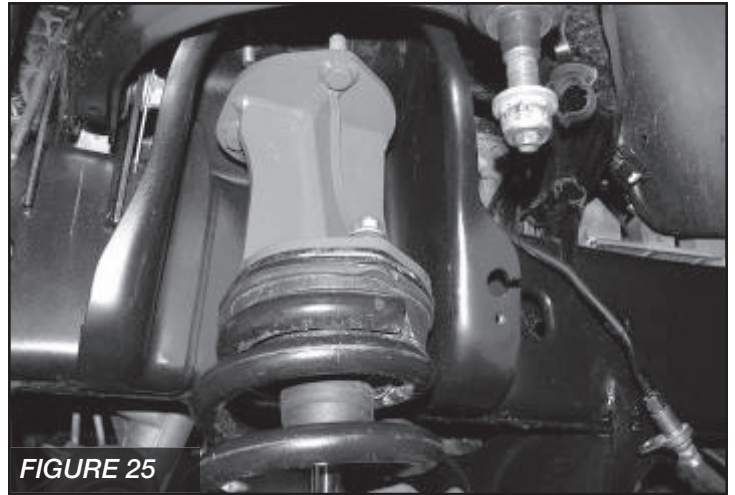


FIGURE 25

35. Locate FT44115D (driver) Steering Knuckle. Attach the previously removed hub bearing and dust shield to the knuckle in the same position as when removed using the original hardware and a small amount of the supplied thread locking compound on each bolt. Torque to 95 ft. lbs. Use the supplied adel clamp, and 1/4" x 3/4" hardware and a small amount of thread locking compound and attach the A.B.S. line to the front of the knuckle. Torque to 10 ft.-lbs. **SEE FIGURES 26-27**

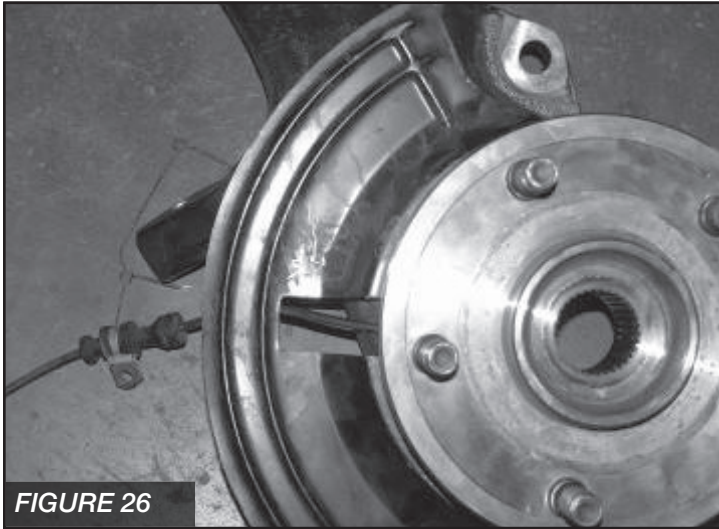


FIGURE 26

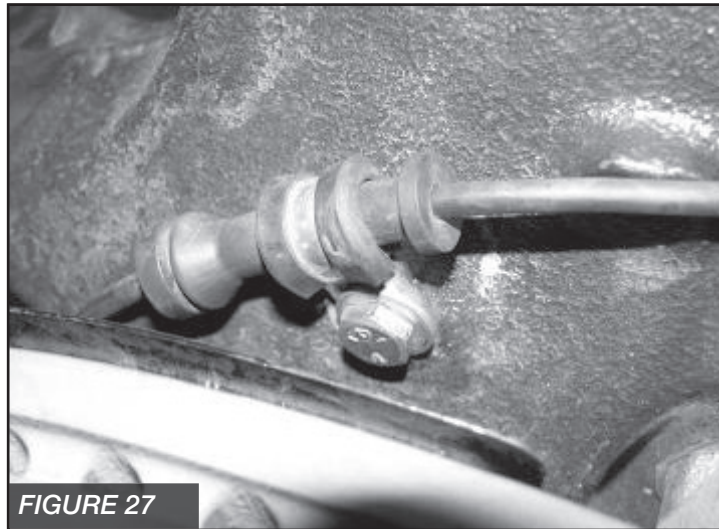


FIGURE 27

36. Attach the steering knuckle to the lower ball joint first, and then slide the C.V. shaft end through the hub bearing, followed by the upper ball joint to the steering knuckle. Torque the lower ball joint nut to 82 ft.-lbs and the upper ball joint nut to 50 ft lbs. Using the original C.V. axle nut, attach the C.V. axle to the hub assembly. Torque to 100 ft lbs. Then attach the lower shock mount to the original mount on the lower control arm using the original hardware and torque to 90 ft.-lbs. **SEE FIGURES 28-29**

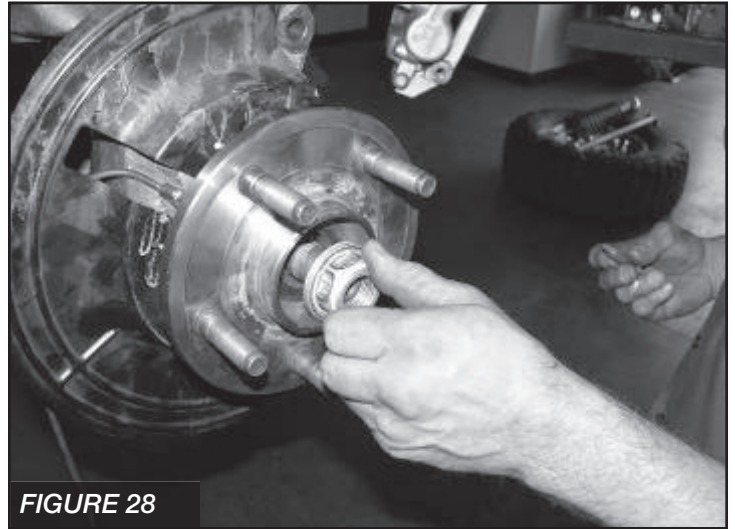


FIGURE 28

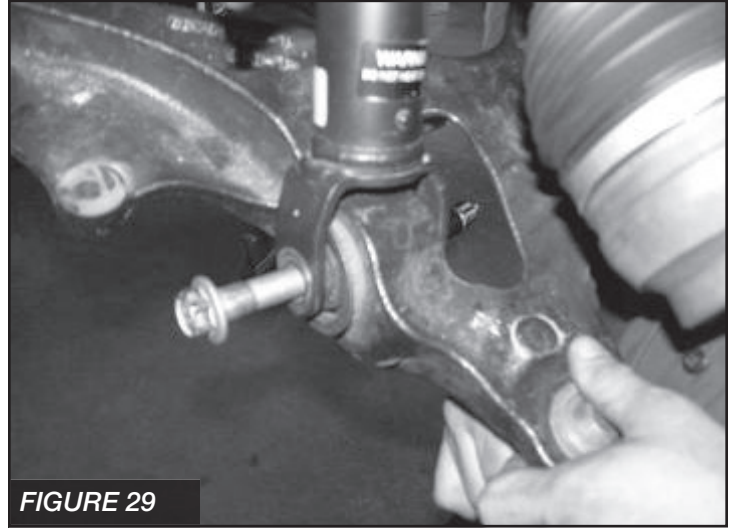


FIGURE 29

37. Repeat steps 31-36 on Passenger side of truck.

38. Locate FT44357BK skid plate and attach to the front crossmember using the supplied $\frac{1}{2}$ " X $2 \frac{3}{4}$ " bolt, nut, and washer, and to the rear crossmember using the supplied $\frac{1}{2}$ " x $1 \frac{1}{4}$ " bolt and flat and split washer. Torque to 90 ft-lbs. **SEE FIGURE 30**



FIGURE 30

39. Torque the Fabtech crossmember bolts to 100 ft lbs and control arm pivot bolts / Alignment Cams to 110 ft. lbs. Set the cams in the middle of their adjustment.
40. Locate the factory brake line in the coilover tower. Carefully cut the tower to remove the brake line. Remove the bracket from the frame saving the hardware. Carefully pull the brake line down from the frame approximately 4" (use care to not damage the hard line). Locate FT44071 Driver Brake Line Drop Mount Bracket and attach in original brake line mounting position. Locate the supplied $\frac{1}{4}$ "x $\frac{3}{4}$ " hardware and attach the factory brake line bracket to the new drop bracket. Torque to 10 ft-lbs. **SEE FIGURE 31**

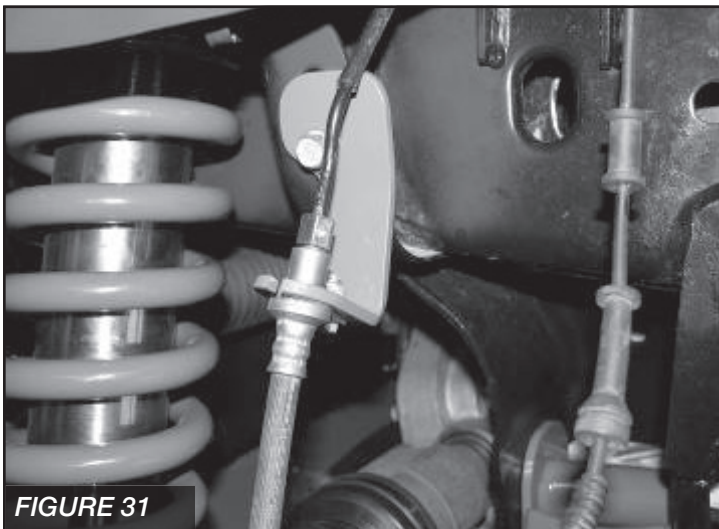


FIGURE 31

41. Working from the drivers side, install the factory brake rotor and caliper. Use a small amount of the supplied thread lock compound on the caliper bolts and torque to 145 ft. lbs.
42. Locate the ABS plug on the inside of the fender well liner and remove the plastic clip holding it to the liner (use care not to damage connector). Route the ABS wire up from the knuckle parallel with brake lines and attach to the brake lines with the supplied zip ties. **SEE FIGURES 32-33**

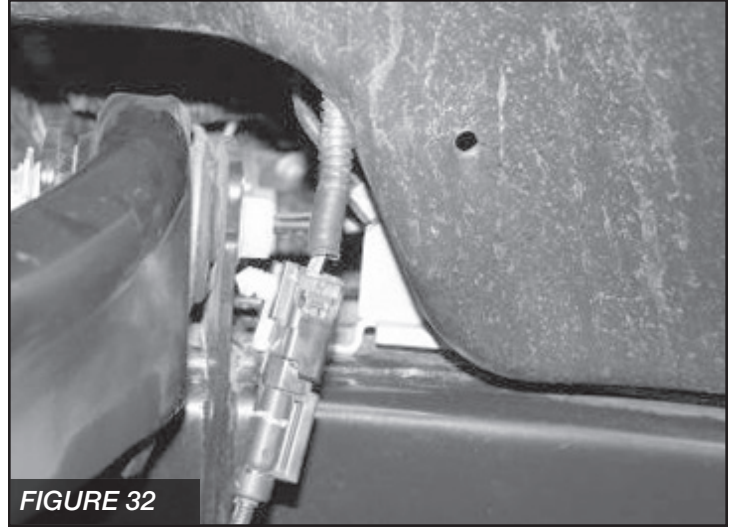


FIGURE 32

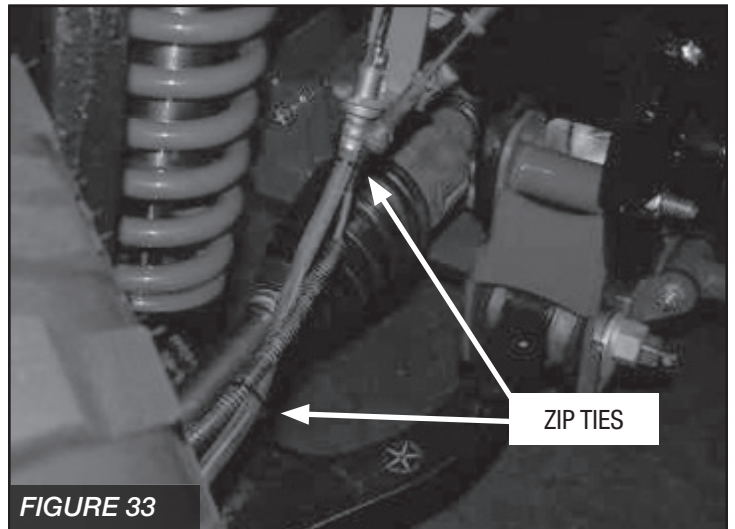
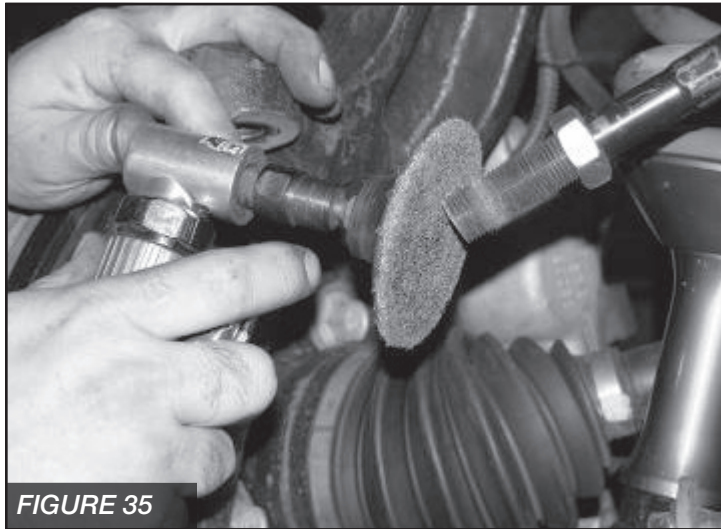
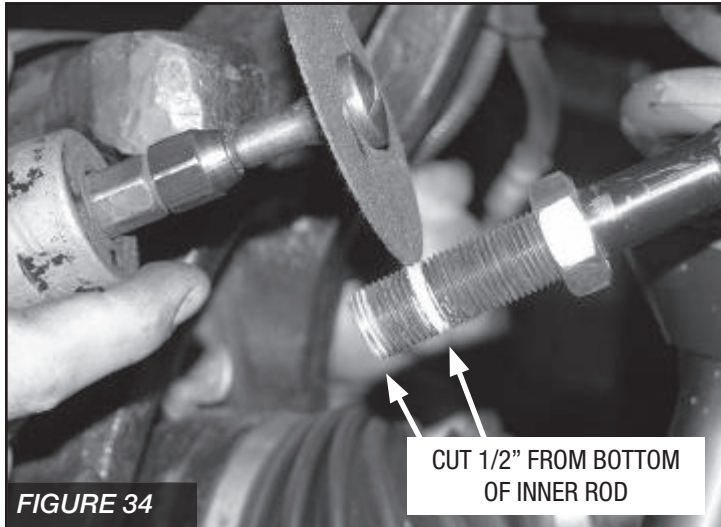


FIGURE 33

43. Locate the inner tie rod ends. Mark a 1/2" in from the end of the tie rod. Using a die grinder with a cutoff wheel, cut a 1/2" off of the end of the inner tie rod. Next using a die grinder with a sanding disc, clean up the threads on the inner tie rod so that the new Fabtech outer tie rod threads on without any binding of the threads.

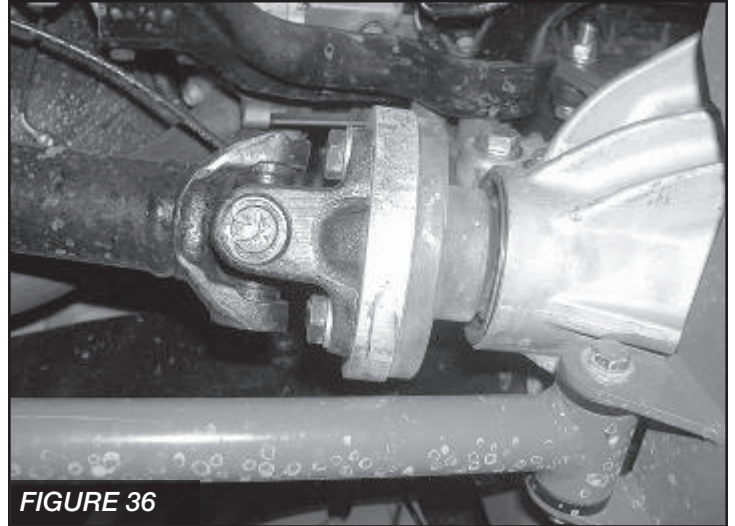
SEE FIGURES 34-35



44. Locate FT44066 tie rod end and thread it onto the factory inner tie rod end. Note: This is just a starting point, the toe adjustment will need to be set during the final alignment. Tighten the jam nut up to the tie rod end. Attach the tie rod end to the steering knuckle using the supplied 14mm nut. Torque to 85 ft lbs.

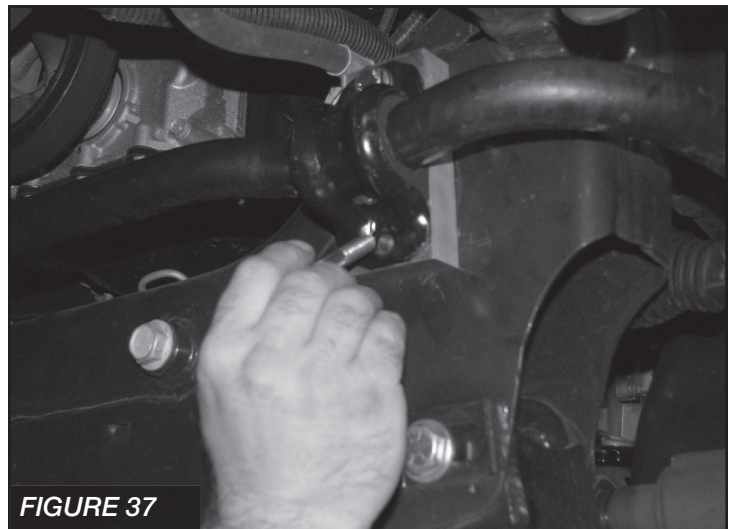
45. Repeat steps 40-44 on the passenger side of the truck.

46. Locate FT44029 (09-11) or FT44203 (2012) front drive shaft spacer. Using the supplied thread-locking compound, 12mm bolts, and washer, attach the spacer and drive shaft to the front differential. Torque to 135 ft. lbs. **SEE FIGURE 36**

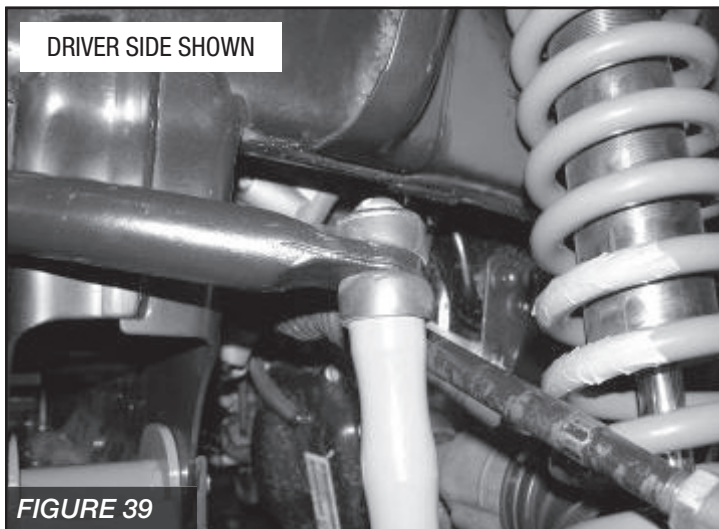
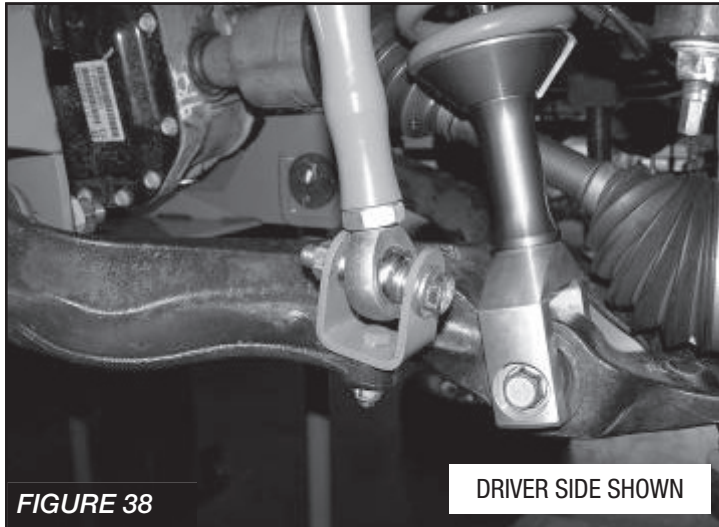


47. Locate FT44073 Lower Sway Bar Mounts and supplied 3/8" C-lock nuts and flat washers. Attach the mounts to the lower A-Arm in the factory sway bar location. Leave loose at this time.

48. Loosen the four bolts holding the Sway Bar to the factory crossmember, Remove the two bolts from the driver side and discard. Locate and insert the FT44133 Sway Bar Spacer with the supplied 10mm bolts and 10mm flat and lock washers, and leave loose. Repeat on the passenger side leaving hardware loose. **SEE FIGURE 37**



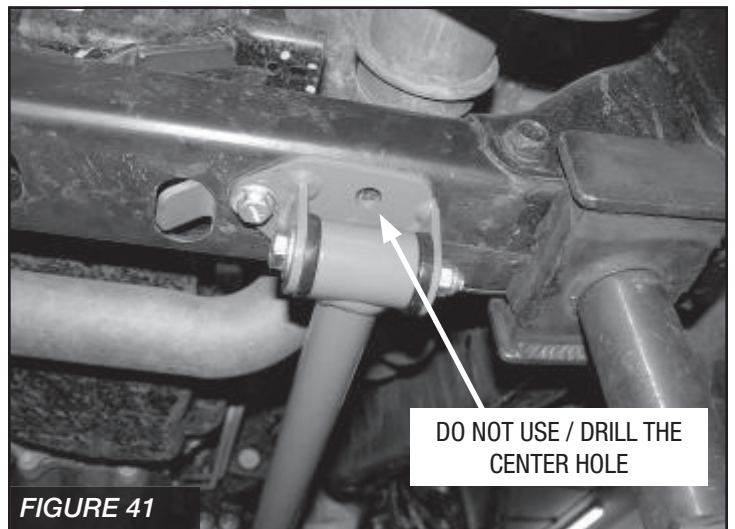
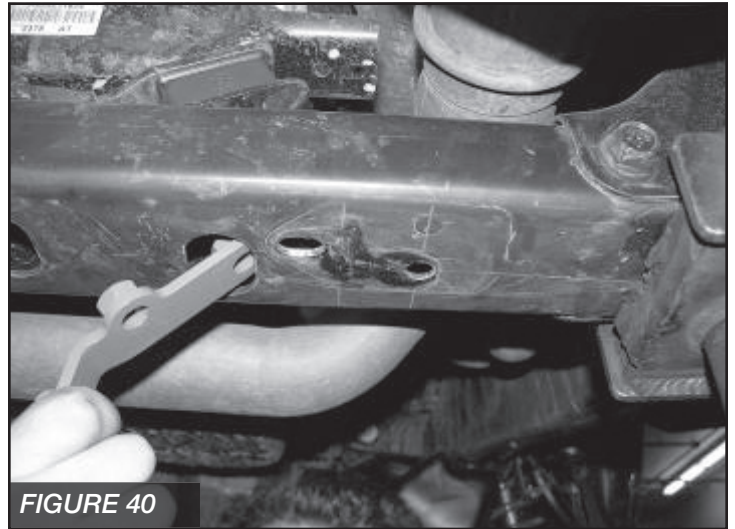
49. Locate both FT44075 Billet Sway Bar End Links and both of the supplied FTS98003 heim joints along with the supplied jam nuts. Thread the jam nuts all the way onto the heim joints, then thread the heim joints into the large end of the end links. Leave the jam nuts loose at this time. Locate the supplied $\frac{1}{2}$ " button head bolts and the FT90084 sway bar bushings along with the cup washers. Attach the bushing end of the sway bar end links to the factory sway bar, leave loose at this time. Attach the other end of the link using the supplied FT43 mis-alignments and supplied $\frac{1}{2}$ " x $2\frac{3}{4}$ " hardware to the new mount on the lower arm. Torque upper and lower hardware to 60 ft. lbs. At times this may be easier to attach when the truck is completed and on the ground. **SEE FIGURES 38-39**



50. Locate the FT44074BK Impact Strut Tubes and install two bushings from the supplied FT1044 bushing kit into each end of the tubes.
51. Using the supplied $\frac{7}{16}$ " x $3\frac{1}{2}$ " bolts, nuts and washers attach the impact tubes to the rear crossmember tabs. Leave bolts loose at this time.
52. Attach FT44068BK impact tube mounts (the flat side of the mount faces outward for alignment with the nut tabs) to the free end of the impact tubes using the supplied $\frac{7}{16}$ " x $3\frac{1}{2}$ " bolts, nuts, and hardware. Leave loose at this time.

53. Swing the strut tube, with the rear mounting bracket attached, up to meet the transmission crossmember. With a center punch, mark the holes and drill out to $\frac{7}{16}$ " (only use the inner and front holes in the mount, the center hole will not be used). Using the supplied $\frac{7}{16}$ " x $1\frac{1}{4}$ " bolts and washers along with the supplied FT44069 (driver side) and FT44070 (pass side) nut tabs attach the bracket to the frame. Torque the rear mount bracket to 83 ft lbs. and the $\frac{7}{16}$ " impact tube bolts to 45 ft lbs.

SEE FIGURES 40-41



54. Install front tires and wheels. Torque lug nuts to wheel manufacturer's specifications

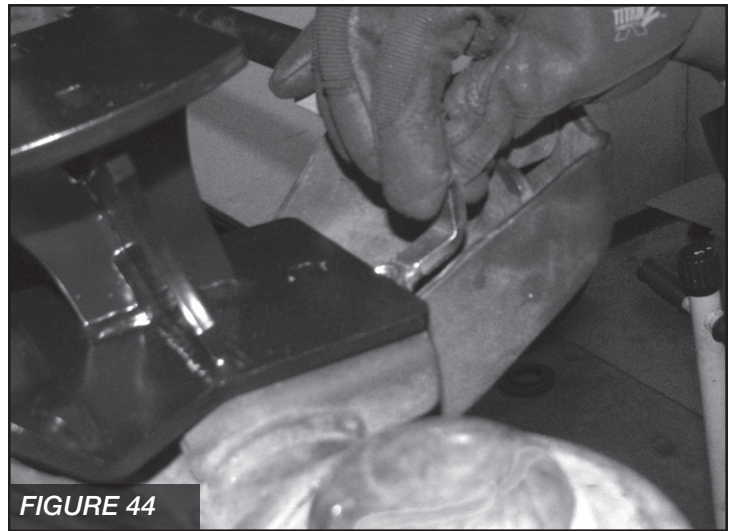
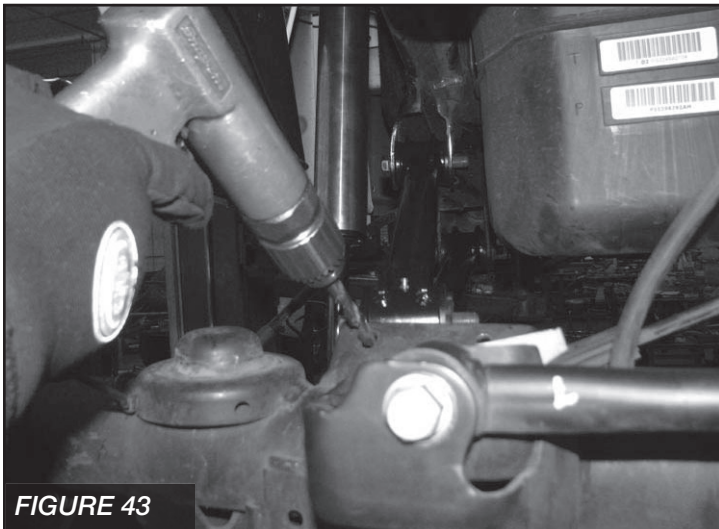
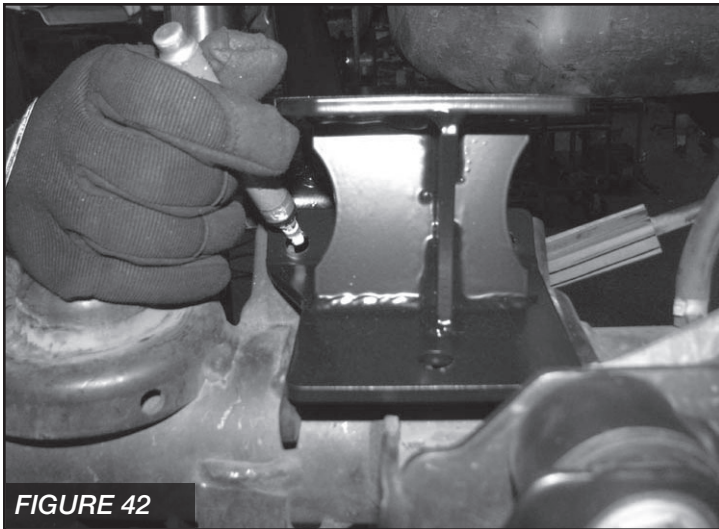
Double Check That All Nuts And Bolts Are Now Tight Before Proceeding To The Rear.

REAR SUSPENSION

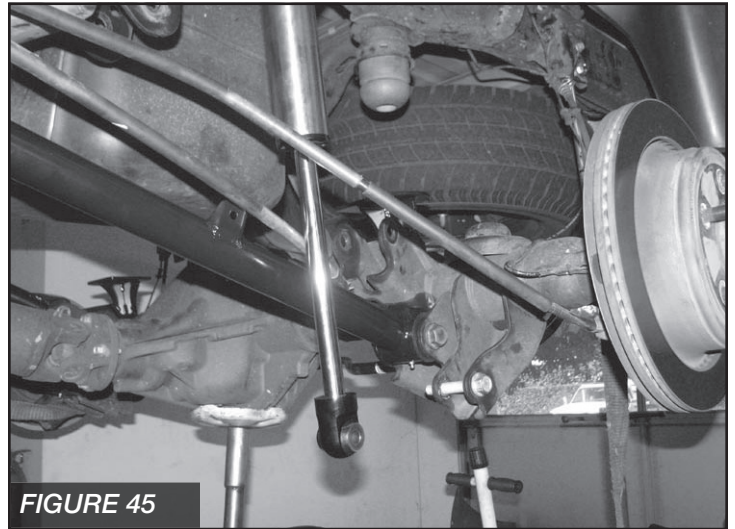
55. Disconnect the sway bar end links from the frame and sway bar; discard the end links, save the hardware.
56. Remove the upper pivot bolt that attaches the track bar to the axle bracket and save.
57. Using a floor jack, raise the differential just enough to slightly compress the rear shocks. Remove the bolts

securing the top of the shocks to the frame.

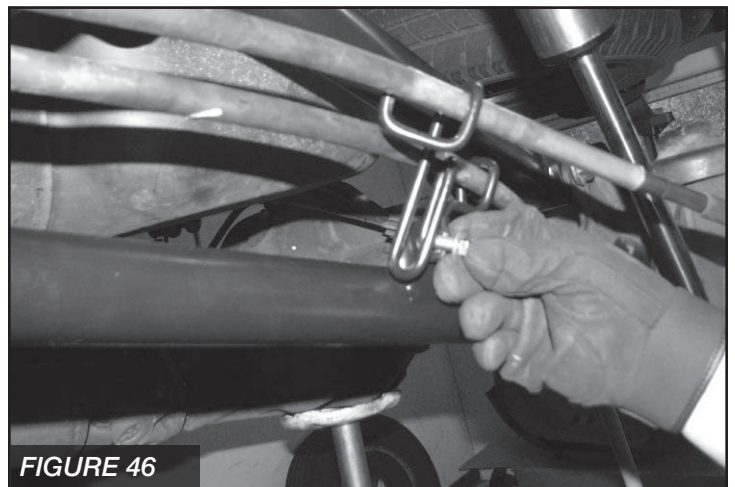
58. Lower the floor jack to release the coil springs. Remove the coil springs from the vehicle and save the rubber coil insulators.
59. Remove the lower shock bolts and discard the shocks.
60. Remove the factory lower links arms. Discard the links and save the hardware.
61. Locate FT44188BK (driv) & FT44189BK (pass) Rear Bumpstop Brackets and the supplied 7/16"x1 1/2" hardware. Place the bump stop extension mounts onto the existing pads on the top of the differential. Mark and drill the front and rear 7/16" hole in the bumpstop and attach using the 7/16" hardware. Using the 7/16" bolts, washers and C-lock nuts and FT44045 nut tab, secure the mount to the differential. There should be a flat washer on each side of the bolt. **SEE FIGURES 42-44**



62. Locate 44163BK Rear Upper Link, FT44164BK Rear Lower Links, FT1038 Bushing and FT77 Sleeves. Using an arbor press, press the bushings and sleeves (use supplied bushing lube) into each end of the links and install the supplied zerks fittings.
63. Install the new Lower Link Arms into the factory rear axle mounts with the factory hardware. Then attach the arm to the frame mounts also with the factory hardware. Leave loose at this time. **SEE FIGURE 45**



64. Attach the E brake cable to the tab on the link arm using 5/16" hardware. **SEE FIGURE 46**



65. Remove the factory upper links arms and discard the links. Save the hardware. Install the new Upper Link Arms into the factory rear axle mounts with the factory hardware. Then attach the arm to the frame mounts also with the factory hardware. Torque to 160 ft.-lbs. **SEE FIGURE 47**

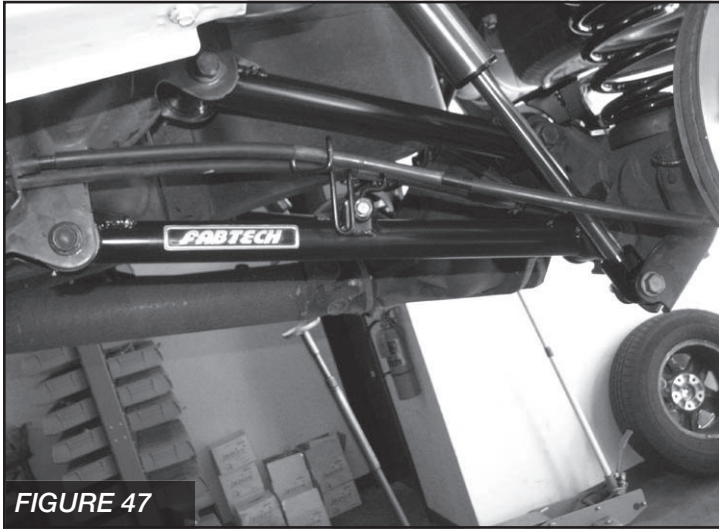


FIGURE 47

66. Locate FT44187BK Track Bar Bracket, FT44166BK Track Bar Bracket Support, Track bar sleeve FT189 and the $\frac{3}{4}$ ", $\frac{1}{2}$ " and 14mm hardware. Insert the sleeve into the factory track bar bracket. Position the track bar bracket onto the factory mount on the frame and install the 14mm bolt and hardware. **SEE FIGURES 48-49**

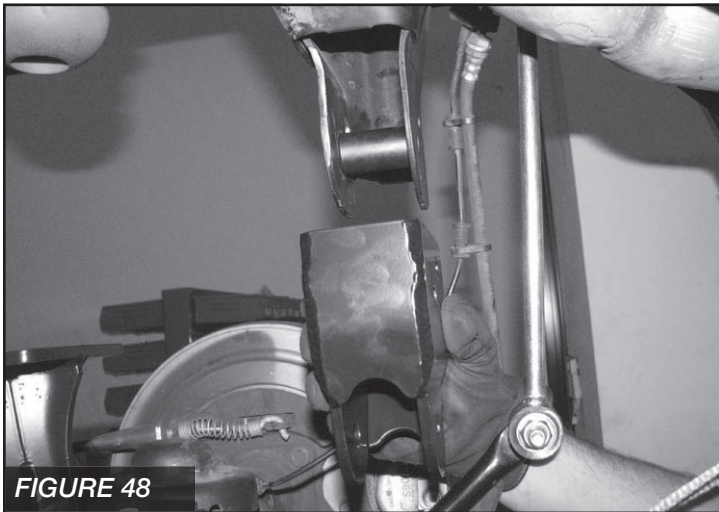


FIGURE 48

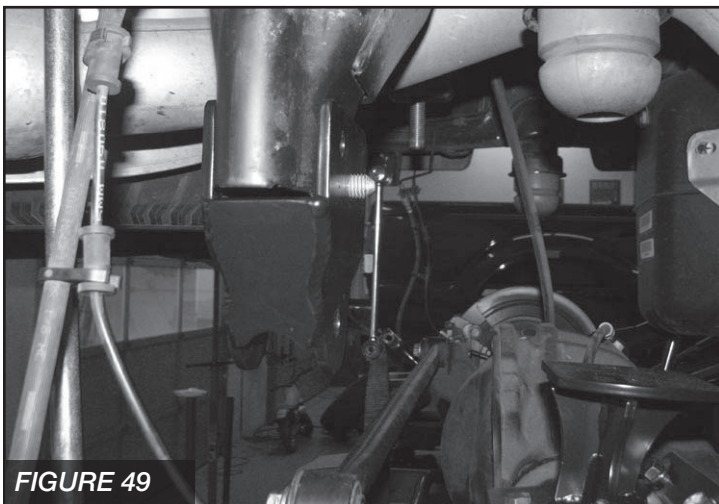


FIGURE 49

67. Mount the track bar support tube to the rear crossmember using the supplied $\frac{3}{4}$ " x 3" bolt, nut, and washers. Leave loose at this time. **SEE FIGURES 50-51**

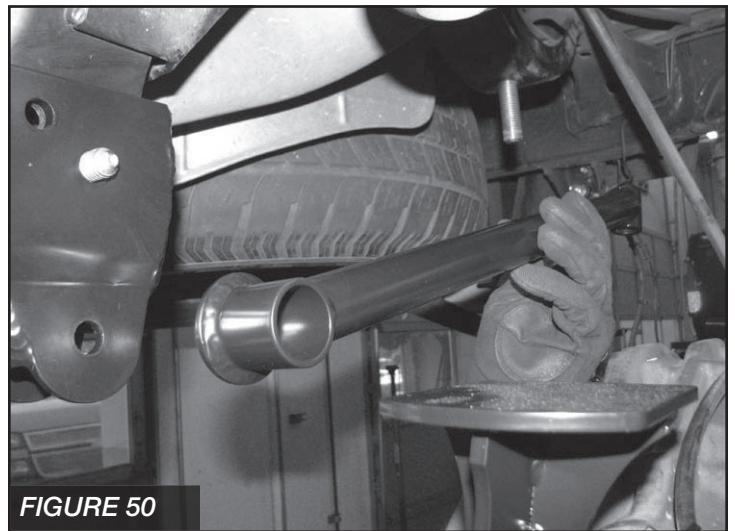


FIGURE 50

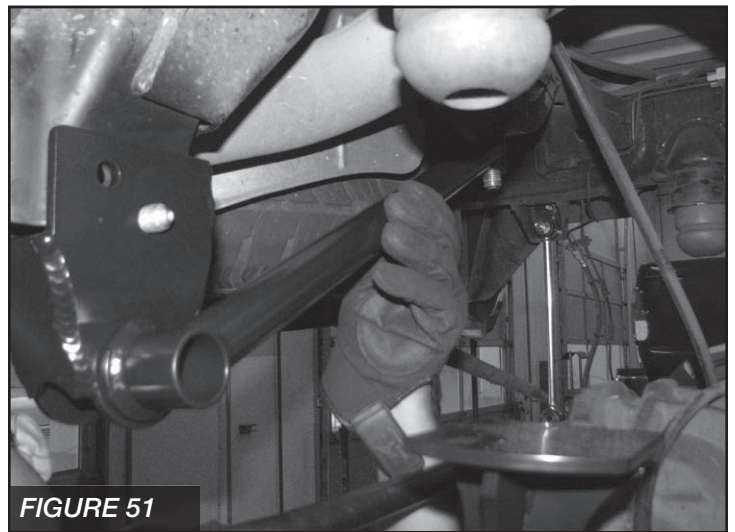


FIGURE 51

68. Use the open $\frac{1}{2}$ " holes in the Fabtech bracket as guide to drill out the two holes for the locking bolts in the factory bracket. Insert the two $\frac{1}{2}$ " x 1" bolts into the new holes with nuts tabs FT5036. Torque to 90 ft.-lbs. Torque the 14mm bolt in the stock pivot hole to a 160 ft.-lbs. Torque the frame side of the trac bar support tube to 317 ft.-lbs. **SEE FIGURE 52**

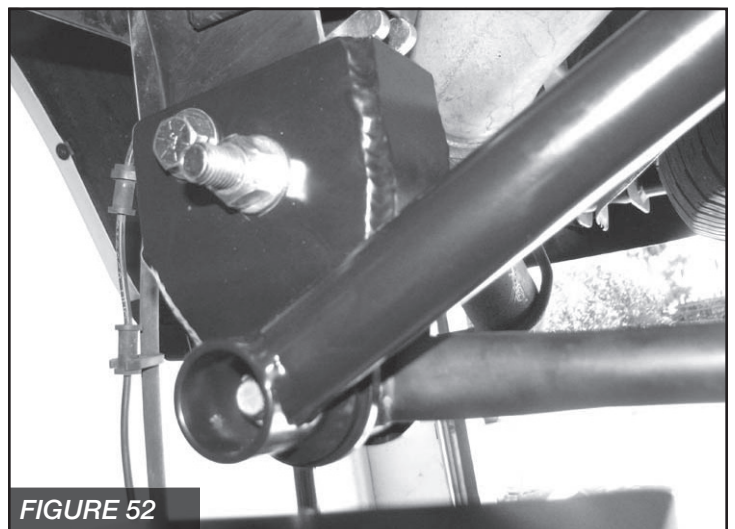


FIGURE 52

69. Insert the track bar into the Fabtech track bar bracket and install the factory hardware. Torque the factory bolt 160 ft-lbs. **SEE FIGURE 53**

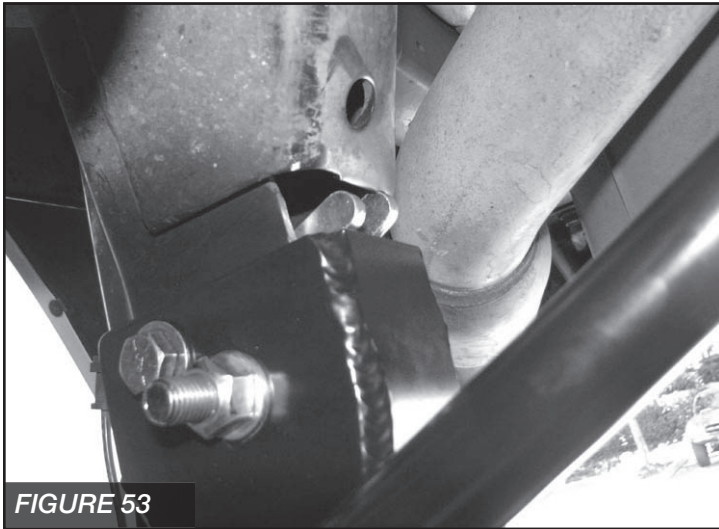


FIGURE 53

70. Install the Fabtech coil springs FT44294BK using the factory coil isolator. **SEE FIGURE 54**

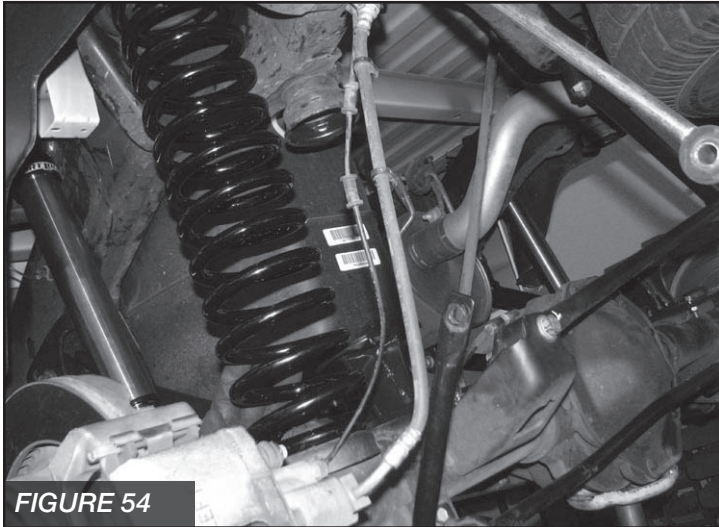


FIGURE 54

71. Locate the new sway bar links FT1599-2-4 and insert 2 bushing halves and a sleeve into each end (use the supplied lube). Install one end of the link into the frame mount and insert the M12 x 70mm bolt through the sleeve. Attach the sway bar to other end of the link with M12 x 70mm bolt, nut and washer. Torque to 65 ft-lbs. **SEE FIGURE 55**

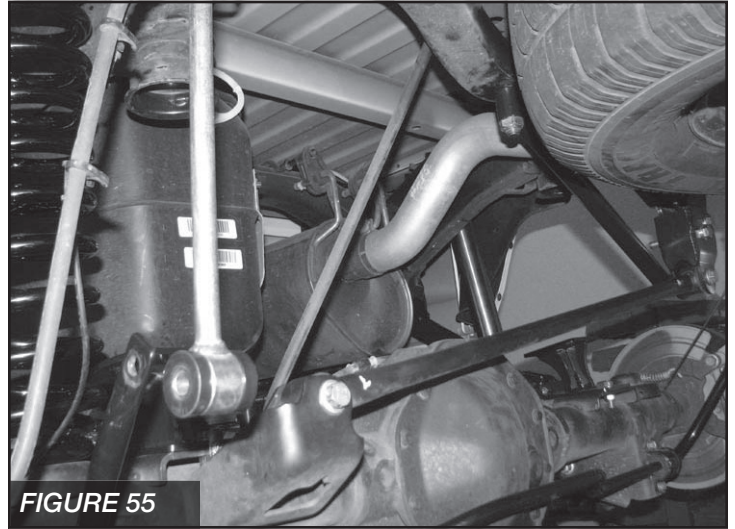


FIGURE 55

72. Install the rear shocks FTS7333 using the stock hardware.
73. 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.**
74. Check front end alignment and set to factory specifications. Readjust headlights.
75. Recheck all bolts for proper torque.
76. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
77. 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.**
78. 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.