



# **INSTALLATION INSTRUCTIONS**

**2018 NISSAN TITAN 4WD  
6" BASIC & PERFORMANCE SYSTEMS**

**FT25026i**

<b>FTS25021 COMPONENT BOX 1</b>		
1	FTS60001D	Driver Side Knuckle
1	FTS60001P	Passenger Side Knuckle
2	FT60096	Strut Assembly Spacer

<b>FTS25026 COMPONENT BOX 2</b>		
4	FT1500U-3	U-Bolt
2	FT1599-2-4	5" Sway Bar End link
1	FT60002BK	Front Crossmember
1	FT60093	Rear Crossmember
1	FT60004BK	Driver Front Bump Stop
1	FT60005BK	Passenger Front Bump Stop
2	FT60006BK	Front Sway Bar End Link
1	FT60110	Skid Plate
1	FT60103	Hardware Subassembly
1	FT60104	Hardware Kit
2	FTBK4	Block

<b>FT60103 HARDWARE SUBASSEMBLY</b>		
8	FT1004	Sway Bar Half Bushing
1	FT25026i	Instruction Sheet
4	FT404739	Sleeves
1	FT50048	End Link Bushing Kit
1	FT50089	End Link Sleeve Kit
1	FT60007	Rear E-Brake Bracket
2	FT60014	Front Bump Stop Nut Tab
2	FT60019	Factory Skid Plate Bracket
2	FT60020	Brake Line Nut Tab
2	FT60026	Cam Bolts
1	FT60027	Driver Steering Stop
1	FT60028	Pass. Steering Stop
2	FT70014	Rear Brake Line Bracket
1	FT97150-6-106	Rear Diff Mount Spacer
1	FTAS12	Sticker FT Blue 10x4 Die Cut
1	FTAS16	Driver Warning Decal
1	FTREGCARD	Registration Card
4	FT60100	Crossmember Cam Spacer

<b>FT60104 - HARDWARE KIT</b>		<b>LOCATION</b>
	<b>BAG 1</b>	
2	9/16-12 x 5" Hex Bolt	Rear Crossmember
18	9/16" SAE Flat Washer	
9	9/16"-12 C-Lock Nut	
6	9/16"-12 x 4 1/2" Hex Bolt	Front/Rear crossmember
1	9/16"-12 x 4" Hex Bolt	
4	1/8" x 2 Cotter Pin	
2	3/16" x 2" Cotter Pin	
6	7/16"-14 C-Lock Nut	Shock
6	7/16" SAE Flat Washer	
1	1/2"-13 x 1 1/2" Hex Bolt	
1	1/2" Split Washer	
2	5/16-18 x 1" Hex Bolt	
4	5/16 SAE Washer	
2	5/16-18 C-Lock Nut	
1	Thread Locking Compound	
	<b>BAG 2</b>	
14	1/4" SAE Flat Washer	
6	1/4"-20 Nyloc Nut	
2	1/4-20 x 3/4" Hex Bolt	
2	1/4"-20 X 1" Hex Bolt	Brake line
4	1/4"-20 x 1 1/4" Hex Bolt	Brake line
18	3/8" SAE Flat Washer	
2	3/8" Split Washer	
8	3/8"-16 Nyloc Nut	
10	3/8"-16 X 1 1/4" Hex Bolt	Bump stop
8	1/2" SAE Flat Washer	
4	1/2"-13 Nyloc Nut	
4	1/2"-13 x 3" Button Head Bolt	Sway bar
2	Adel Clamp	Brake line
2	8mm-1.25 x 30mm Hex Bolt	Brake line
2	8mm Flat Washer	
2	8mm Split Washer	
4	Zip ties	
	<b>BAG 3</b>	
4	M12-1.75 x 70mm Hex Bolt	Rear Sway Bar
8	M12 Washer	
4	M12-1.75 C-Lock nut	
2	M14-2.0 X 80mm Hex Bolt	Rear Shock Mount
4	M14 Flat Washer	
2	M14-2.0 C-Lock Nut	
8	9/16-18 Nyloc Nut	
8	9/16 SAE Washers	

## - TOOL LIST -

### **Required Tools (Not Included)**

- Floor Jack & Jack Stands
- Assorted Metric and S.A.E sockets, and wrenches
- Torque Wrench
- Die Grinder w/cut off wheel & grinding wheel
- Heavy Duty Ratchet Strap

## - 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.

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.

For technical assistance call: 909-597-7800 or e-mail: [info@fabtechmotorsports.com](mailto:info@fabtechmotorsports.com)

Larger tires cannot be installed on the OEM wheels. If vehicle is equipped with Factory 18" wheels, you must use 18" wheels or larger.

Vehicles that receive oversized tires should check ball joints, 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.

### ***Recommend Tires and Wheels:***

Use 35/12.50R17 tire w/ 17x8 wheels w/ 5" BS w/ minor trimming

Use 35/12.50R18 tire w/ 18x8 wheels w/ 5" BS w/ minor trimming

Use 35/12.50R20 tire w/ 20x9 wheels w/ 5" BS w/ minor trimming

### ***Footnotes:***

- Will experience some loss of turning radius.
- Will not fit Titan XD models.
- Does not fit Pro-4X models

# - 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 the factory differential skid plate and discard. If the truck is equipped with the optional ALUMINUM bumper to cross member skid plate, remove it and save along with the hardware. If it is equipped with factory black STEEL skid plate, remove and discard, it will not go back onto the vehicle.
3. Disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end. USE CARE NOT TO DAMAGE THE THREADS ON THE TIE ROD END WHEN REMOVING. Save the hardware.
4. Locate the sway bar end links and remove from the factory lower control arms and the sway bar. Discard the end links and hardware.
5. Working from the driver side of the truck, remove the brake caliper and place it next to the frame. DO NOT HANG THE BRAKE CALIPER FROM THE BRAKE HOSE. Retain the hardware for reinstallation. Remove the brake rotor and save. Unplug the ABS wire at the plug next to the upper control arm and remove all the ABS line clips. Remove the ABS line bracket from the backside of the spindle and save along with the hardware. DO NOT DISCONNECT THE ABS SENSOR FROM THE BEARING ASSEMBLY.
6. Remove the cotter pin and nut from the C.V. Axle at the spindle and save the nut and discard the cotter pin.
7. Remove both upper and lower ball joint nuts and save. Using a large hammer strike the spindle to dislodge the ball joints from the spindle. Remove the spindle from the upper ball joint first than the C.V. axle from the hub bearing, than from the lower ball joint. USE CARE TO NOT DAMAGE THE THREADS ON THE BALL JOINTS WHEN REMOVING. SEE FIGURE

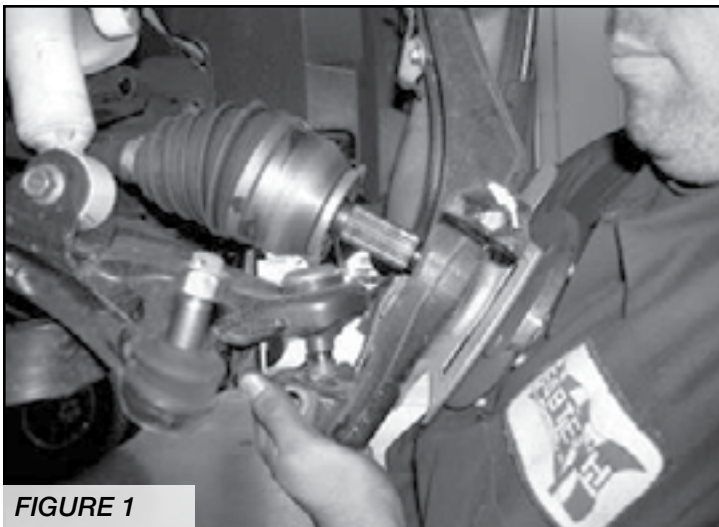


FIGURE 1

8. Remove the hub assembly from the stock spindle and save along with the hardware. Discard the spindle.
9. Remove the three upper strut assembly bolts from the truck and save. Remove the lower shock bolt and save. Remove the strut 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.
10. Remove the C.V. Shaft from the differential. Save the shaft and the hardware.
11. Remove the lower control arm from the factory pivots and discard the factory alignment cams.
12. Repeat steps five through eleven on the passenger side of the truck
13. Working on both sides of the truck, remove the factory rear cross member from the truck and discard the cross member and hardware. SEE FIGURE



FIGURE 2

14. Disconnect the front drive shaft from the front differential and save the hardware. Disconnect the vent hose from differential.
15. Remove the front differential from the truck and discard the factory hardware.
16. Locate the factory differential mount next to the driver side rear lower control arm pocket. Cut a 4 1/2" by 2" section of the frame mount from the truck. SEE FIGURE

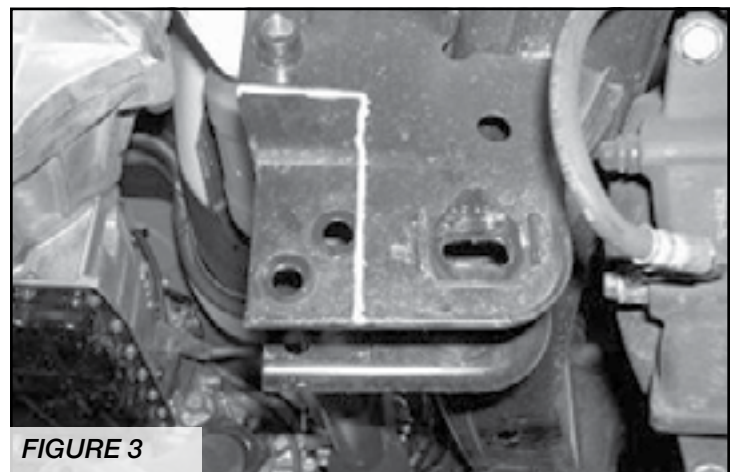


FIGURE 3



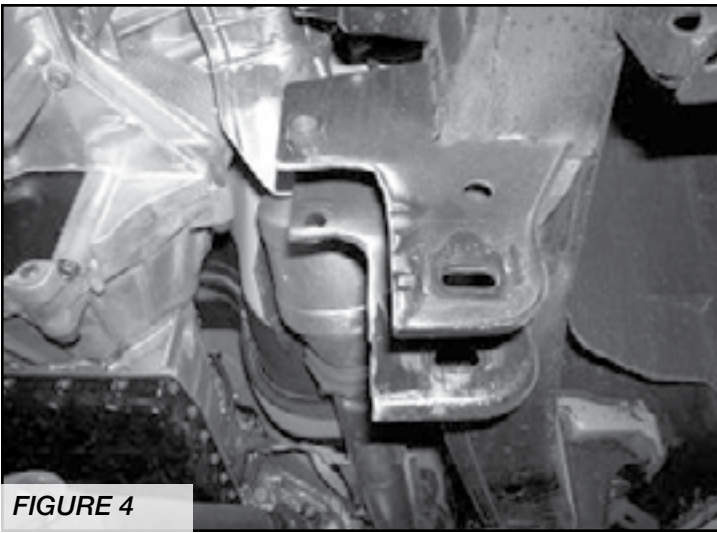


FIGURE 4

17. Locate the driver side front differential mount and cut 1" off the end of the mount on the frame. SEE FIGURE

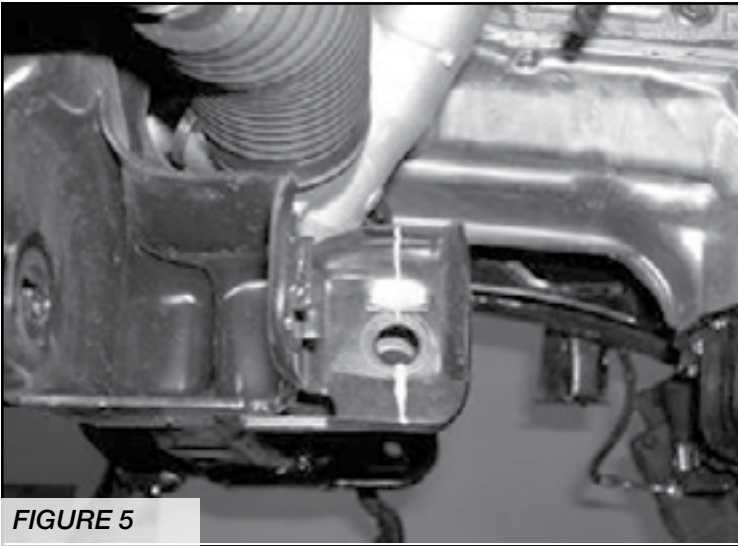


FIGURE 5

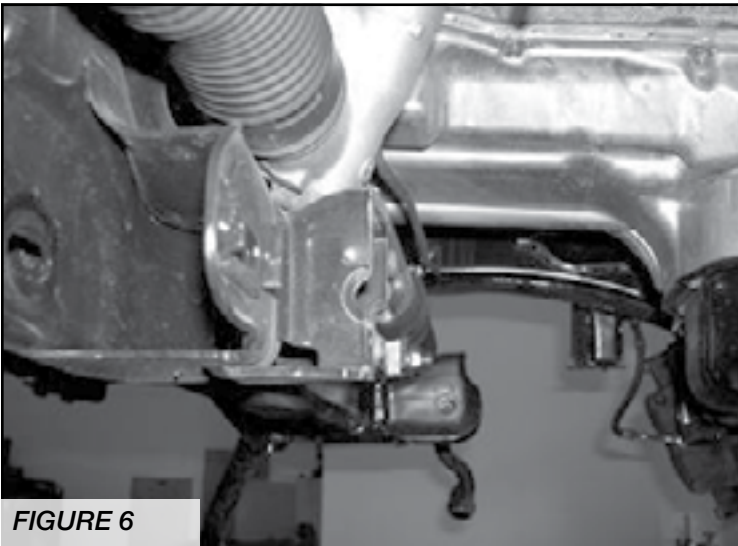


FIGURE 6

18. Locate FT60002BK Front Cross member. Using the supplied 9/16" x 4 1/2" bolts, nuts, and washer attach the cross member to the factory front lower control arm pockets. Leave loose at this time.

19. Reinstall the front differential back into the truck attaching the two front differential mounts on the differential to the new cross member using the supplied 9/16" x 4" bolts, nuts, and washers on the passenger side diff mount and the supplied 9/16" x 4 1/2" bolt, nut, and washer on the driver side. Leave loose at this time. Using a HEAVY DUTY ratchet strap to support the rear of the differential as high as possible into the truck at this time.

20. Install FT60093 (Rear Crossmember) to the factory lower control arm pockets using a FT60100 (Cam tab) on both driver & pass. front and rear side using the supplied 9/16-12 x 5" bolts, nuts and washers. Leave loose at this time.  
**NOTE: The offset will be towards the outside of the the vehicle. SEE FIGURES BELOW**

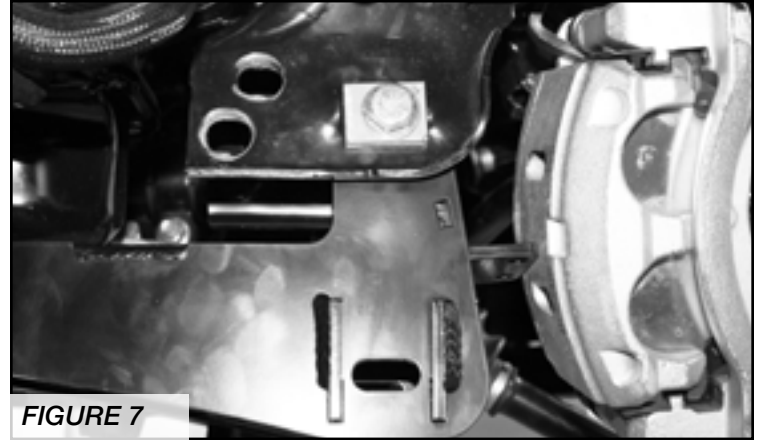


FIGURE 7



FIGURE 8

21. Lower the rear of the front differential down into the rear mount of the new rear cross member. Attach the rear differential to the cross member using the supplied 9/16" x 4 1/2" bolt, nut, and washers and FT97150-6-106 spacer. The spacer will be placed to the rear of the factory differential mount. Leave loose at this time. Remove the ratchet strap from the truck. SEE FIGURE

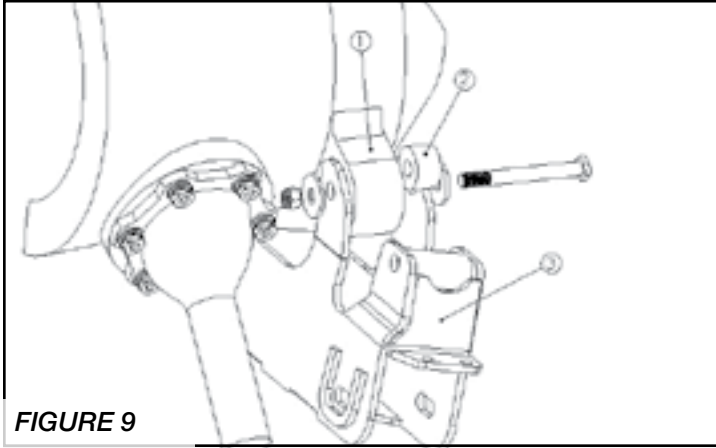


FIGURE 9

- 1. Front Differential 2. FT97150-6-106 Spacer  
3. FT60003 Cross member**

22. On the driver side of the diff near the mount. Grind a radius into the fin like shown. SEE FIGURE

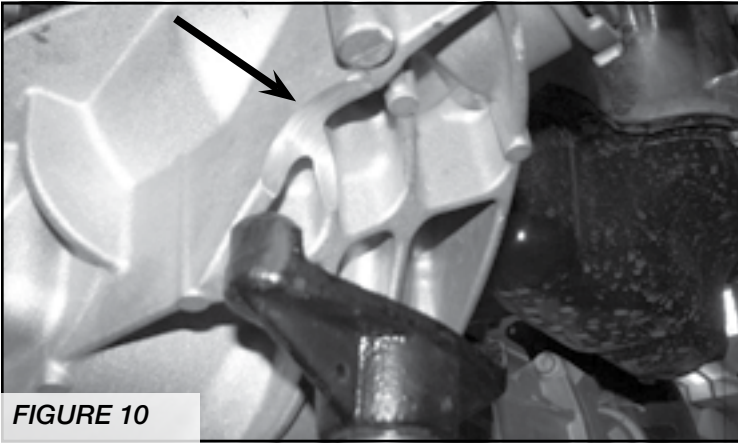


FIGURE 10

23. Remove the previously installed driver front differential bolt. Locate FT60110 skid plate and install over the driver front differential mount and reattach using the same 9/16" bolt. Attach the rear of the skid plate to the rear cross member using the supplied 1/2" x 1 1/2" bolt, split washer, and flat washer. SEE FIGURE

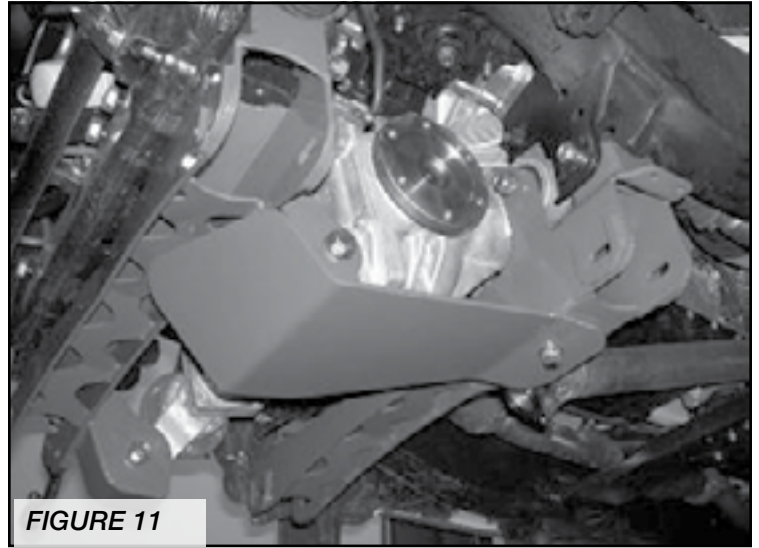


FIGURE 11

24. Locate the previously removed factory lower control arms. Attach them to the new cross members using the Supplied FT60026 alignment cams. When installing the alignment cams make sure they are in the middle of their adjustment. Once the cams are installed into the cross member and tighten and torque to 75 ft. lbs. SEE FIGURE

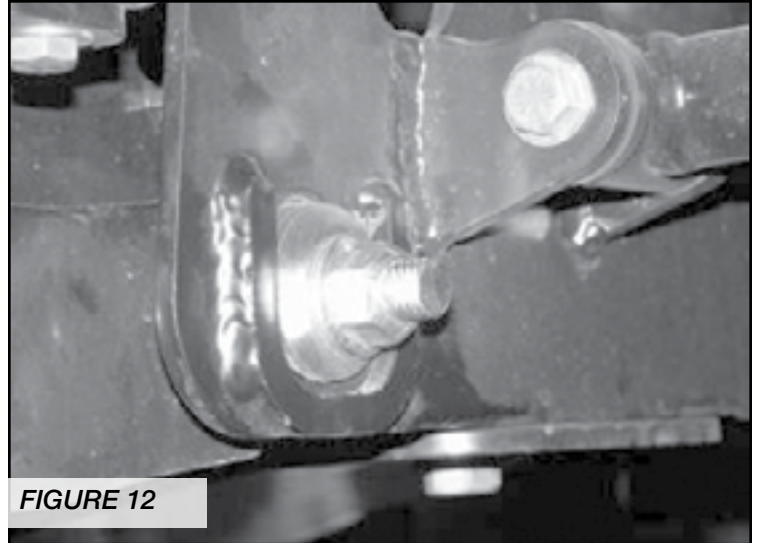


FIGURE 12



25. Torque the differential mount bolts to 90 ft. lbs. Torque the cross member to frame bolts to 90 ft. lbs. Torque the 1/2" bolt on the skid plate to 55 ft. lbs. Reattach the front drive shaft to the differential and torque the bolts to 65 ft. lbs. Use a small amount of the supplied thread locking compound on the drive shaft bolts.

26. Locate FT60004BK bump stop mount. Using the supplied 3/8" x 1 1/4" bolt, nuts, and washers attach the mount to the rear cross member. Once attach mark the upper hole where the bump stop bracket meets the frame and drill a 3/8" hole. Using the supplied FT60014 nut tab and 3/8"x 1 1/4" bolts, flat washer, and split washer, attach the bump stop to the frame. Torque bolts to 30 ft. lbs. SEE FIGURE

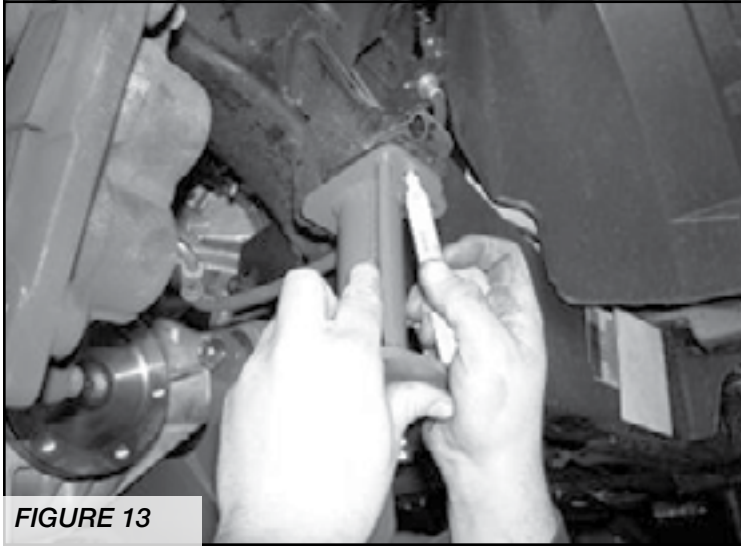


FIGURE 13

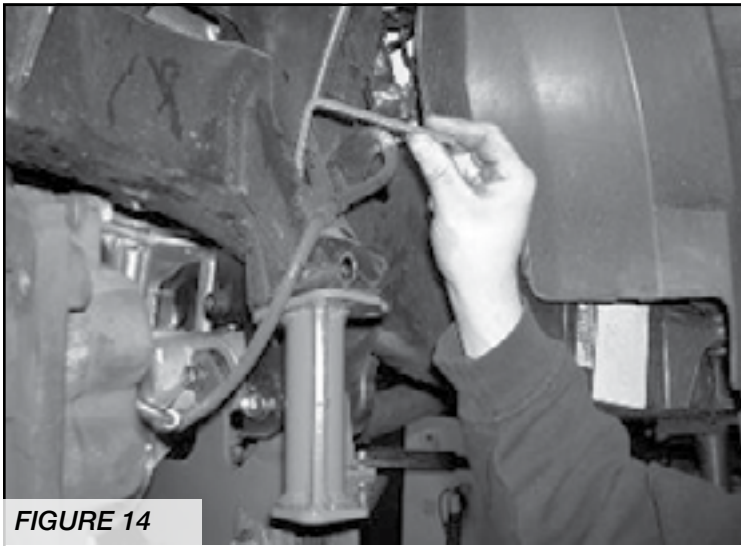


FIGURE 14

27. Working from the driver side of the truck, locate the previously removed C.V. shaft and attach to the differential using the original hardware. Torque to 65 ft. lbs.

***FOLLOW STEPS 28-30 FOR BASIC KIT ONLY.***

28. Using a drill with a 15/32" drill bit, drill the three upper strut mount holes out in the frame.

29. Locate the previously removed shock assembly and attach FT60096 spacer to the top of the stock assembly using the stock hardware. Use a small amount of the supplied thread locking compound on the strut to spacer hardware. You will need to index the spacer so the longer side of the spacer will be facing out board of the truck and the pigtail end on the bottom of the coil is facing inboard on the truck. (You may need to disassemble the coil over to get the pig tail to the inside). SEE FIGURE

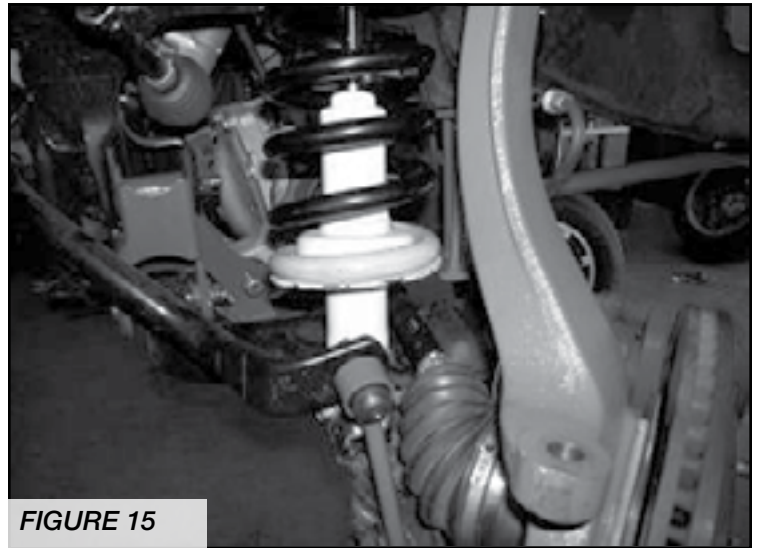


FIGURE 15

30. Install the complete shock assembly into the truck attaching the three upper bolts first using the supplied 7/16" C-lock and flat washers, leave loose. Then attach the lower mount to the original mount on the lower control arm using the original hardware. Torque upper hardware to 55 ft. Lbs. and the lower hardware to 90 ft. lbs. **MAKE SURE THE LONGER SIDE OF THE STRUT SPACER IS FACING THE OUT BOARD SIDE OF THE TRUCK AND THE PIGTAIL END OF THE COIL SPRING ON THE BOTTOM OF THE COIL IS FACING INBOARD OF THE TRUCK.**

31. Locate FTS60001D steering knuckle and install the previously removed bearing assembly using the original hardware along with a small amount of the supplied thread locking compound on each of the bolts. Torque the bearing bolts to 90 ft. lbs. Make sure the hub assembly with the dust shield is in the same position as it was on the factory spindle. Attach the previously removed ABS bracket to the back of the spindle in the same position using the stock hardware.

32. Attach the steering knuckle with the bearing assembly installed to the truck, first attaching it to the lower ball joint using the original hardware than attach to the upper ball joint using the original hardware. Torque the lower ball joint nut to 75 ft. lbs. and the upper ball joint nut to 70 ft. lbs. Use one of the supplied small cotter pins to secure the upper ball joint nut. When installing the knuckle onto the truck make sure to push the C.V. axle end through the bearing assembly before attaching the upper ball joint.

33. Using the original C.V. Axle nut attach the axle to the bearing assembly. Torque to 160 ft. lbs. Using one of the supplied larger cotter pin to secure the bolt.

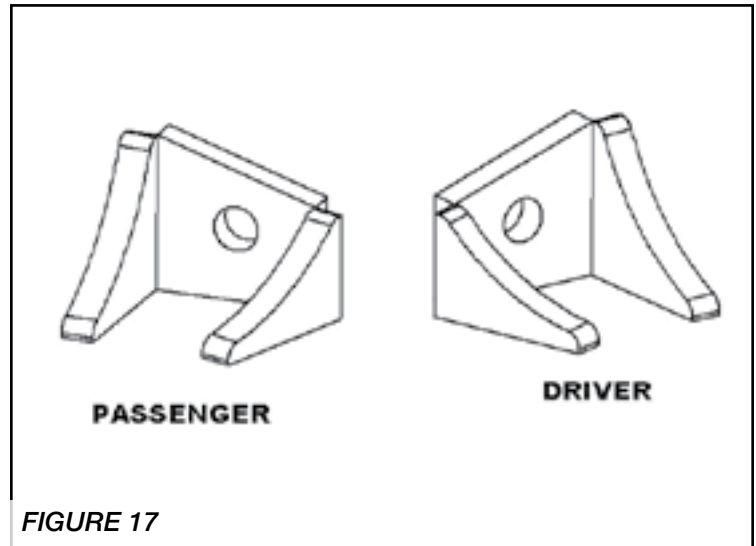
34. Repeat steps twenty-six through thirty-two on the passenger side of the truck.

35. Working from both sides of the truck, route the ABS line up the back of the spindle to the ABS bracket on the spindle, then up to the ABS bracket on the frame, then finally connect it to the plug on the frame. **SEE FIGURE**

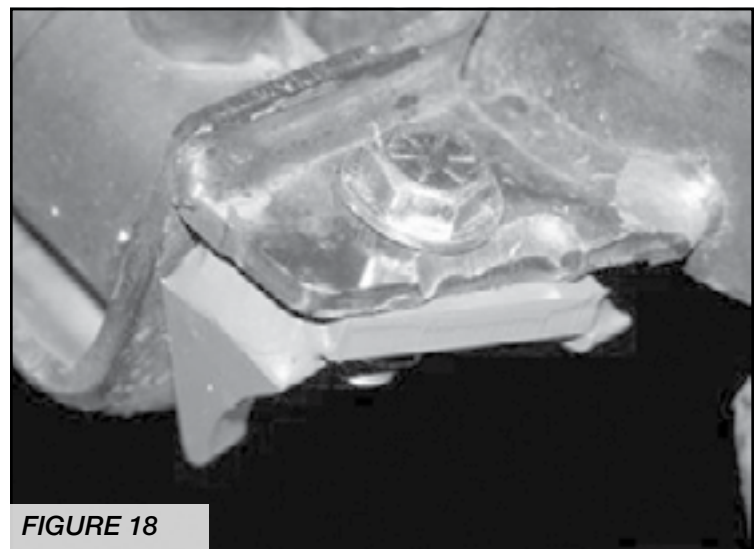


**FIGURE 16**

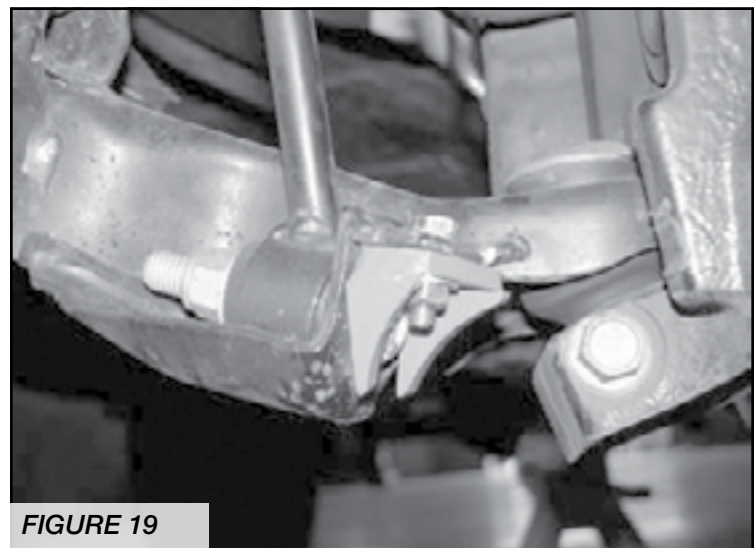
36. Working from the driver side, locate FT60027 Driver Steering stop and provided 5/16" hardware. Place the stop just below the bottom of the factory stop on the lower control arm and attach it with the 5/16" hardware. Torque to 20 ft. lbs. (NOTE: if there is damage to the factory steering stop, this must be repaired first so that the new stop fits flush against it). **SEE FIGURE**



**FIGURE 17**



**FIGURE 18**



**FIGURE 19**



37. Repeat step 35 on passenger side of vehicle

38. Locate FT60006 Sway bar end links and install one of the supplied bushing and one of the supplied sleeves into each end of the end links. Using the supplied 1/2" x 3" button head bolts attach the end links to the truck as shown in the photo below. SEE FIGURE

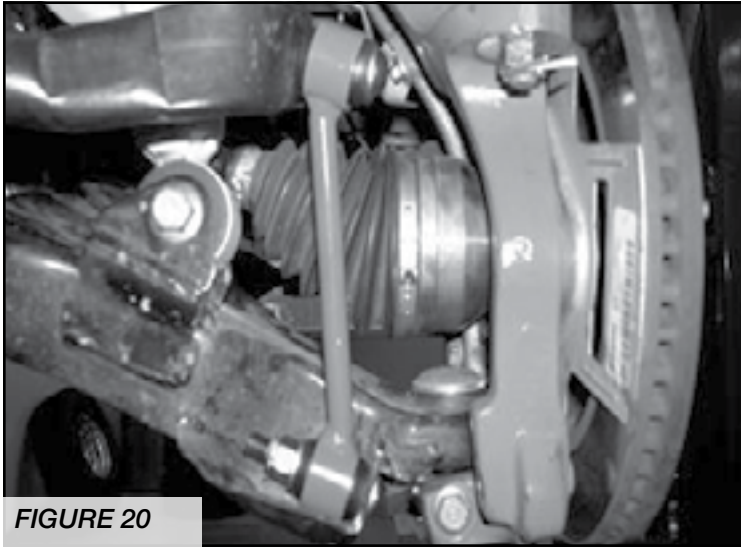


FIGURE 20

39. Locate the brass brake line union mounted on top of the frame. Remove the bolt attaching to the frame mount and discard the bolt. CAREFULLY pull the hard line 4" down on the frame

40. Locate the brake line tab where the soft line meets the hard line. Remove the clip that attaches the line to the frame and discard. Using a die grinder with a cut off wheel CAREFULLY cut the tab so the line can be removed from the mount. SEE FIGURE

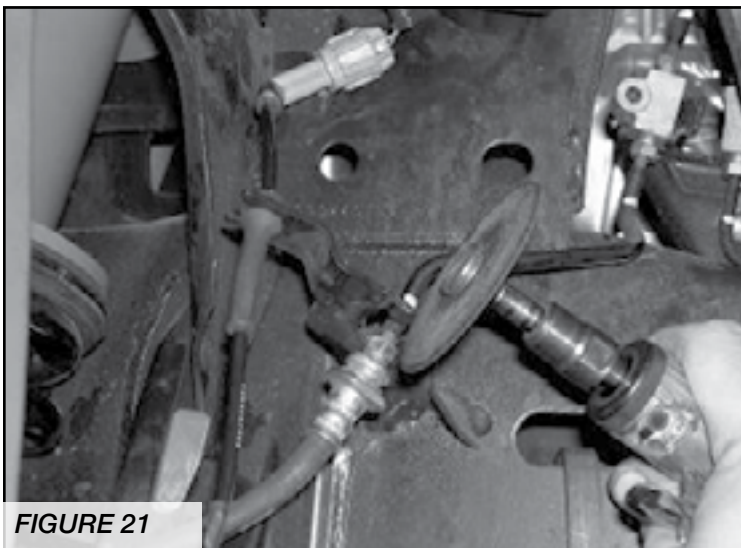


FIGURE 21

41. 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 100 ft-lbs.

42. Using the supplied 1/4" x 1" bolt, nut, and washers, along with one of the Adel clamps attach the brake line to the Fabtech bump stop mount. SEE FIGURE

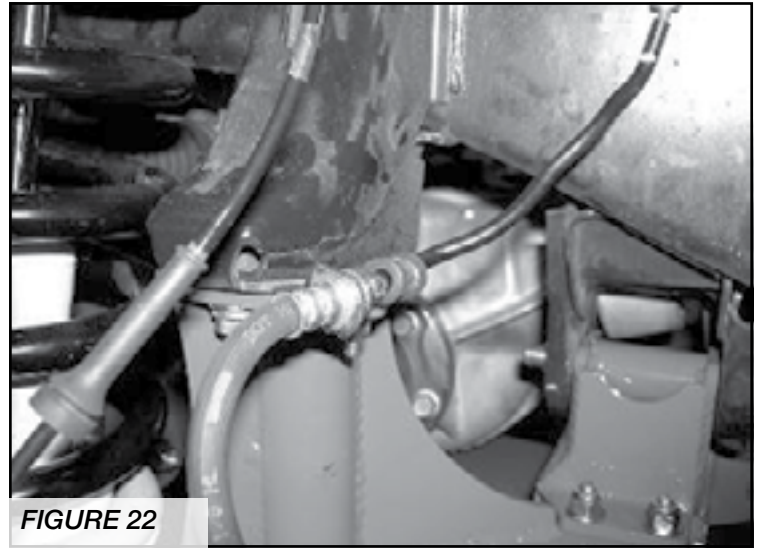


FIGURE 22

43. Locate FT60020 Brake Line nut tab and attach the brake line union to the frame using the supplied 1/4" x 1 1/4" bolt and flat washer. SEE FIGURE

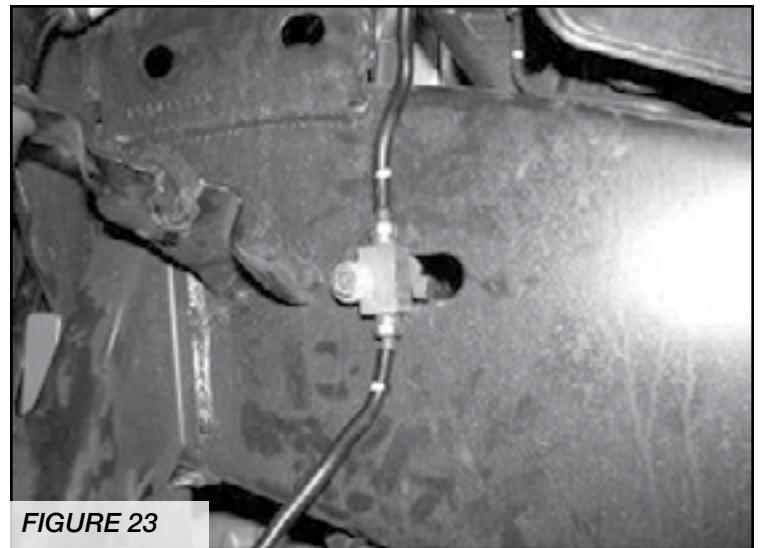
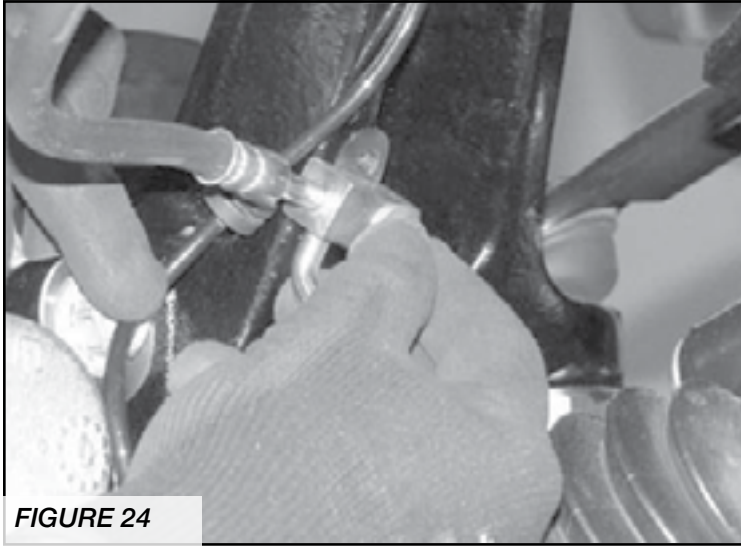
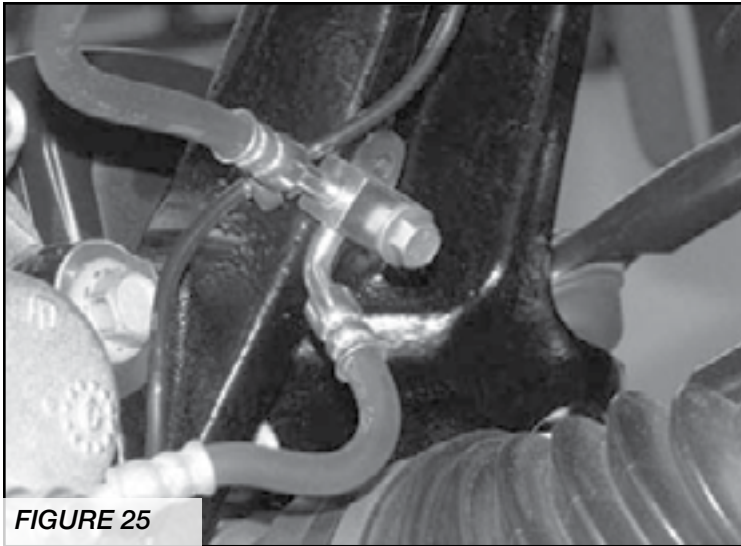


FIGURE 23

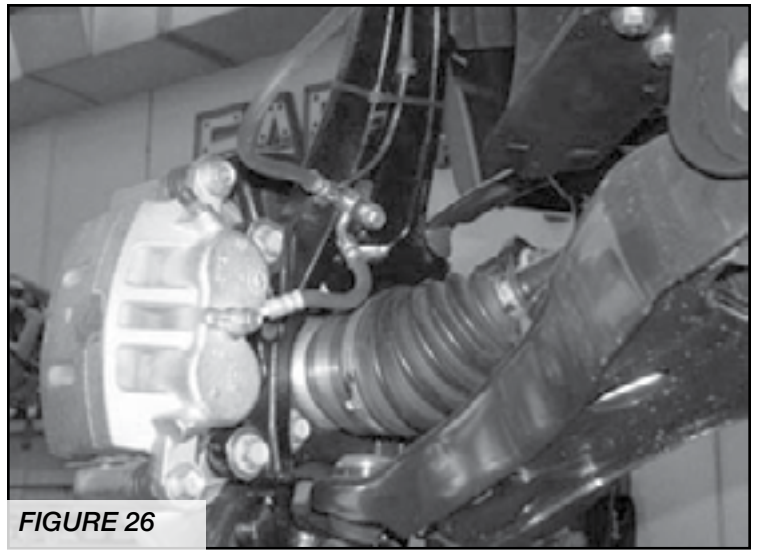
44. Locate the 8mm-1.25 x 30 bolt, lock washer, and flat washer. Mount the front brake line junction block to the lower hole on the back side of the knuckle. Zip tie the wheel speed sensor wire to the back side of the knuckle. Torque the 8mm bolt to 17 ft-lbs. SEE FIGURE



**FIGURE 24**

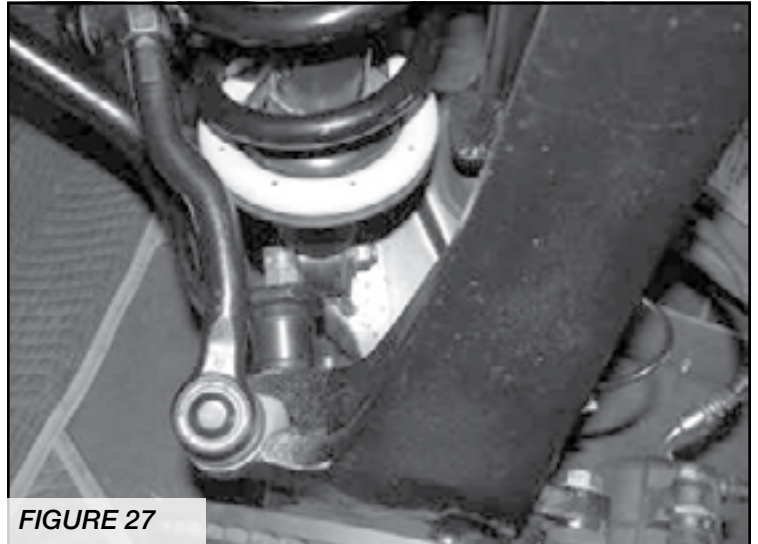


**FIGURE 25**



**FIGURE 26**

45. Remove both factory tie rod ends from the truck and put the driver's side tie rod end on the passenger side and the passenger side tie rod end on the driver's side. Attach the tie rod end to the spindle from the top down. Using the original castle nut, torque to 55 ft. lbs. Use one of the supplied small cotter pins to secure the nut. SEE FIGURE



**FIGURE 27**



46. Install the skid plate back on to the truck using the stock bolts. Measure 3" out on both sides of the Fabtech Logo on the front cross member and drill a 3/8" hole on both sides of the Logo plate. Attach the FT60019 Skid Plate brackets to the cross member using the supplied 3/8" hardware. Line up the FT60019 brackets to the factory skid plate and drill a 3/8" hole, attach using the supplied 3/8" hardware. SEE FIGURE

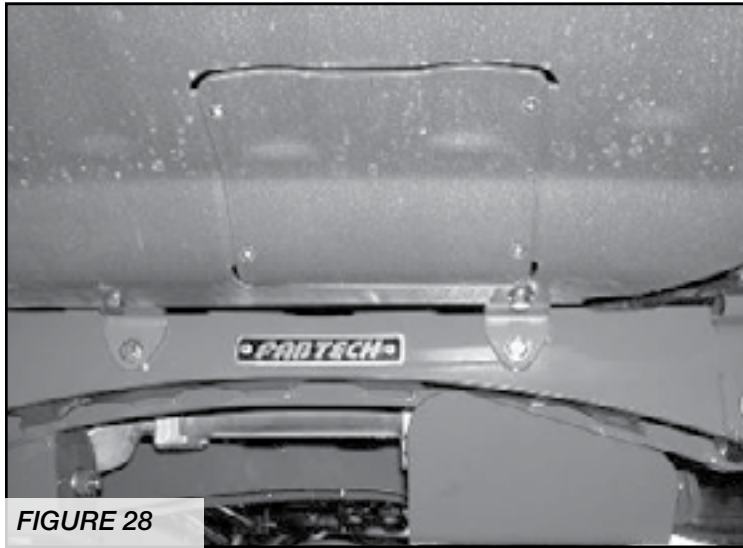


FIGURE 28

## REAR SUSPENSION

47. Jack up the rear end of the vehicle and support the frame rails with jack stands. Block the front wheels. Release the parking brake at this time. Supporting the rear differential with a floor jack, do not allow the axle to hang freely.
48. Locate the factory e-brake bracket on the body of the truck, above the drive shaft, on the passenger side. Remove the two bolts attaching the bracket to the body and save the hardware. Locate FT60007 e-brake drop bracket and attach to the body using the original hardware. Attach the Fabtech bracket to the factory bracket using the supplied 1/4" x 3/4" bolt, nut, and washer. SEE FIGURE

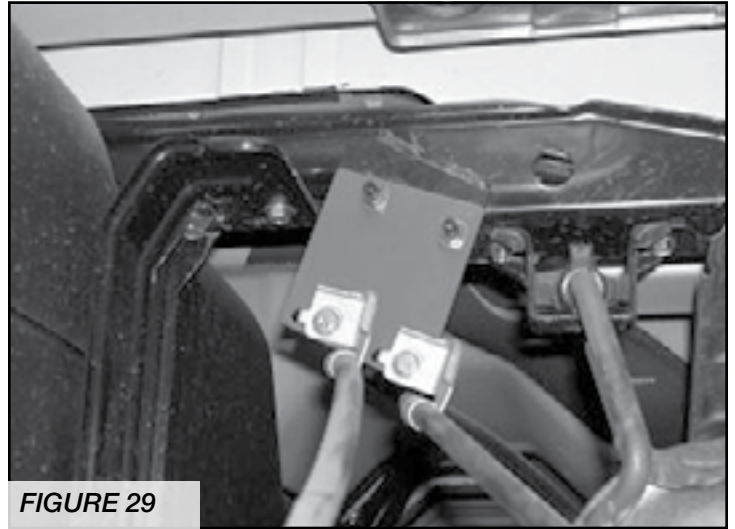


FIGURE 29

49. Locate the two factory brake line mounts on the driver side of the axle. Remove the factory cover bracket and discard. Remove both brake line brackets from the axle and discard the hardware. Locate the supplied brake line brackets FT70014 and attach to the axle using the supplied 8mm bolt, split, and flat washer. Using the supplied 1/4" x 1 1/4" bolts, nuts, and washers, attach the brake line to the new Fabtech bracket. Using one of the supplied zip ties attach the ABS line as shown below. Check the ABS line on the other side of the truck for proper clearance at this time also. SEE FIGURE

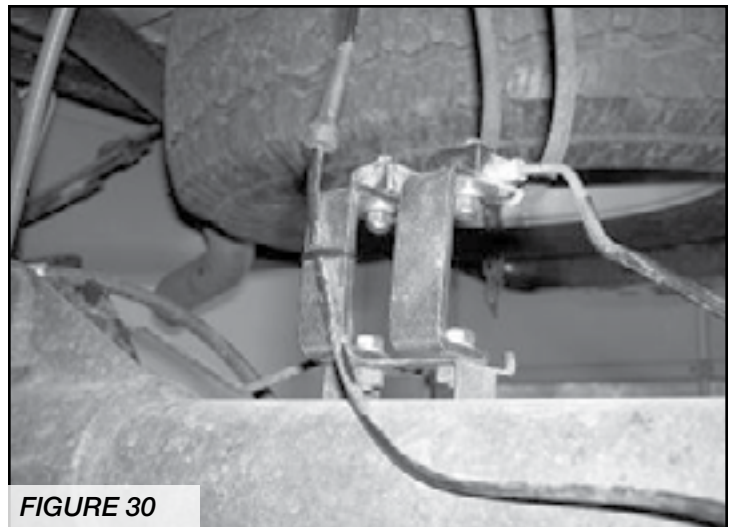


FIGURE 30



50. Remove the rear shocks and u-bolts, and lower the axle down. **USE CARE NOT TO OVER EXTEND THE ANY BRAKE LINES.** Discard the stock shocks and u-bolts.

51. Locate and install the 3" rear lift blocks. The short end of the block should face to the front of the vehicle. Using the provided U-bolts, nuts, and washers align axle, lift blocks, and springs, stock bump stop and torque the U-bolts to 90 lbs. SEE FIGURE

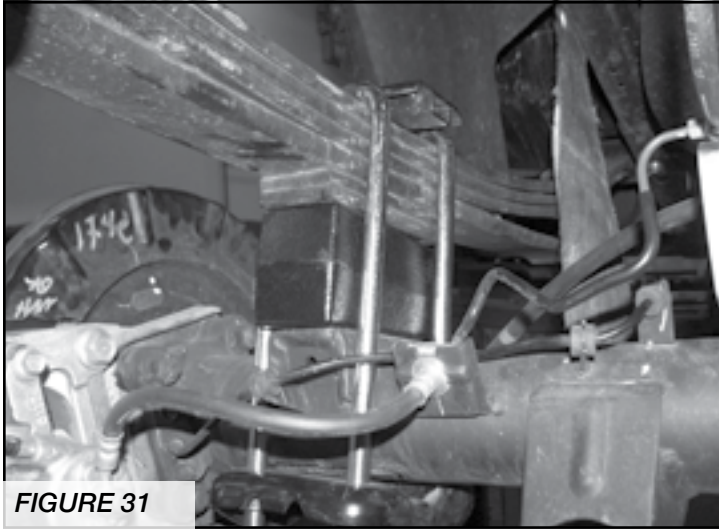


FIGURE 31

52. Locate and install the new rear shocks using the supplied 14mm bolt and hardware at the lower mount. **NOTE: Use the provided P01420 sleeve pack included in the shock box.**

53. 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.**

54. Check front end alignment and set to factory specifications. Readjust headlights.

55. Recheck all bolts for proper torque.

56. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.

57. 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.**

58. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.

59. Have vehicle properly aligned to factory specs.

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

**RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.**