INSTALLATION INSTRUCTIONS

2020-2024 GM 2500/3500HD 4WD

4” BASIC & PERFORMANCE SYSTEMS

FT21295i

NOTE: TO ORDER WEARABLE REPLACEMENT COMPONENTS DO NOT USE PART NUMBERS SHOWN ON THIS INSTRUCTION SHEET. GO TO FABTECH WEBSITE AND LOOK UP WEARABLE REPLACEMENT PARTS TO FIND THE PROPER PART NUMBER TO ORDER.

Fabtech Motorsports | 2213 Industrial Park Rd. Lancaster, SC 29720

Tech Line: 909-597-7800 | **Web:** www.fabtechmotorsports.com

	FTS21294	COMPONENT BOX 1
2	FT20277	OUTER TIE ROD
1	FT20777	DIFF BRACKET (REAR)
2	FT20922	AXLE SPACER
1	FT20987D	4” HD SPINDLE (DRIVER)
1	FT20987P	4” HD SPINDLE (PASS)
1	FT20992	DIFF BRACKET (DRIVER)
1	FT20993	DIFF BRACKET (PASSENGER)

	FTS21295	COMPONENT BOX 2
1	FT20522	8 X 180 1/4” WHEEL SPACER
1	FT20985	FRONT CROSSMEMBER
1	FT20986	REAR CROSSMEMBER
1	FT20994	DIFF SKID PLATE
1	FT20996	HARDWARE SUBASSEMBLY
1	FT20988	SHOCK/BUMPSTOP MOUNT (DRIVER)
1	FT20989	SHOCK/BUMPSTOP MOUNT (PASSENGER)
2	FT20998	UPPER SHOCK PLATE

	FTS21296	COMPONENT BOX 3 - 2500HD
1	FT20990	BUMP STOP W/ SWAY BAR MOUNT (DRIVER)
1	FT20995	BUMP STOP W/ SWAY BAR MOUNT (PASSENGER)
1	FT20768	TORSION BAR DROP BRACKET (DRIVER)
1	FT20769	TORSION BAR DROP BRACKET (PASSENGER)
1	FT20997	HARDWARE KIT
2	FT20941	REAR BUMPSTOP BRACKET
4	FT755U	U-BOLT SQ 3/4-16**X**14**X**3.100
2	FTBK21	2” BLOCK

	FTS21297	COMPONENT BOX 3 - 3500HD
1	FT20990	BUMP STOP W/ SWAY BAR MOUNT (DRIVER)
1	FT20995	BUMP STOP W/ SWAY BAR MOUNT (PASSENGER)
1	FT20768	TORSION BAR DROP BRACKET (DRIVER)
1	FT20769	TORSION BAR DROP BRACKET (PASSENGER)
1	FT20997	HARDWARE KIT
2	FT20941	REAR BUMPSTOP BRACKET
4	FT752U	U-BOLT SQ 3/4-16**X**15.375**X**3.100
2	FTBK21	2” BLOCK

	FT20996	HARDWARE SUBASSEMBLY
2	FT1020	BUSHING
2	FT120	LOWER SHOCK WASHER 1.000 X .563 X .310
1	FT181	SLEEVE .625 X .500 X 2.375
1	FT645	SLEEVE .625 X .509 X .950
1	FT20520	FRONT BRAKE LINE BRACKET (DRIVER)
1	FT20521	FRONT BRAKE LINE BRACKET (CENTER)
1	FT20918	BRAKE LINE BRACKET
1	FT20919	BRAKE LINE BRACKET
1	FT20942	NUT TAB
2	FT20956	BUMP STOP SPACER
1	FT21295i	INSTRUCTIONS
1	FT30182	NUT TAB
2	FT629	SLEEVE .750 X .594 X 1.315
1	FTAS12	STICKER FT BLUE 10X4 DIE CUT
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD

	FT20997 - HARDWARE KIT	LOCATION
	BAG 1	
2	M12-1.75 X 40 MM HEX BOLT	DRIVER DIFF
2	M12 SPLIT LOCK WASHER	
2	M12 WASHER	
3	1/2-13 X 1-1/4" HEX BOLT	
2	1/2-13 X 1-1/2 HEX BOLT	
1	1/2-13 X 2" HEX BOLT	
1	1/2-13 X 3" HEX BOLT	
2	1/2-13 X 3-1/2 HEX BOLT	DIFF MOUNT
1	1/2-13 X 3-3/4" HEX BOLT	
19	1/2 SAE WASHER	
9	1/2-13 C-LOCK NUT	
2	M18-2.5 X 120 MM HEX BOLT	CONTROL ARM (FRT)
2	M18-2.5 X 150 MM HEX BOLT	CONTROL ARM (REAR)
8	M18 FLAT WASHER	
4	M18-2.5 C-LOCK NUT	
1	THREAD LOCKING COMPOUND 1 MIL	
	BAG 2	
2	9/16-12 X 3-3/4" HEX BOLT	TORSION DROP
4	9/16 SAE WASHER	
2	9/16-12 C-LOCK NUT	
2	1/2-13 X 1-1/2" HEX BOLT	TORSION DROP
2	1/2-13 X 1-3/4" HEX BOLT	
2	1/2-13 X 2-3/4 HEX BOLT	LWR SHOCK
6	1/2-13 C-LOCK NUT	
12	1/2" SAE WASHER	
8	7/16-14 X 1-1/2" HEX BOLT	
16	7/16 SAE WASHER	
8	7/16-14 C-LOCK NUT	
2	M12-1.75 X 50MM HEX BOLT	
4	12MM FLAT WASHER	
2	M12-1.75 C-LOCK NUT	
2	5/16-18 X 3/4" HEX BOLT	
4	5/16 WASHER	
2	5/16-18 C-LOCK NUT	
6	1/4-20 X 1/2" HEX BOLT	BRAKE LINE (FRONT)
6	1/4 SAE WASHER	
6	1/4 SPLIT LOCK WASHER	
6	NEOPRENE CLAMP	
10	PLASTIC CABLE TIE	

	FT20938 - HARDWARE KIT	LOCATION
	BAG 3	
2	5/16-18 X 1" HEX BOLT	
4	5/16 SAE WASHER	
2	5/16-18 C-LOCK NUT	
8	3/4-16 NYLOCK NUT	UBOLTS
8	3/4" SAE WASHER	UBOLTS
2	M6-1.0 X 40MM HEX BOLT	
2	M6 FLAT WASHER	
2	1/2-13 X 1-1/2" HEX BOLT	
2	1/2" SAE WASHER	
2	1/2" LOCK WASHER	

Prior to installing this kit, with the vehicle on level ground. Measure the height of your vehicle. This measurement can be recorded from the center of the wheel, straight up to the top of the inner fender lip. Record the measurements below.

LF:_____ **RF:**_____

LR:_____ **RR:**_____

- TOOL LIST -

Required Tools (Not Included)

- Basic Hand Tools
- Floor Jack
- Jack Stands
- Torsion Key Removal Tool
- Drill w/ Assorted Drill Bits.
- Assorted Metric and S.A.E sockets, and Allen wrenches
- Torque Wrench
- Die Grinder w/ Cutoff Wheel or Sawzall

- 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.

This suspension and shocks have been designed to be installed on a stock vehicle.

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.

Installation of all fasteners requires the use of provided thread locking compound with proper torque values as indicated throughout the installation. Apply thread locking compound upon the final torque of the fastener.

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

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.

Read all warnings and warranties on the last page of these instructions before starting installation.

FOOTNOTES -

- Can not use OEM wheel and tire.
- Does not fit standard cab models.

- INSTRUCTIONS -

FRONT SUSPENSION

- **Measure the vehicles height at each corner and record on page 3.**

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. Locate the torsion bar adjusting keys and threaded bolts. Measure exposed threads of torsion bar adjusting bolts and record for reinstallation. Mark torsion bars indicating driver and passenger. Using a torsion bar removal tool unload the torsion bars and remove the crossmember and bars. Retain the hardware for reinstallation. NOTE- Do not attempt to unload or remove torsion bars without the proper torsion bar tool. Torsion Bars are under extreme spring load.

3. Remove the sway bar link ends from the sway bar and lower control arm.

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

5. Disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end. **SEE FIGURE 1**

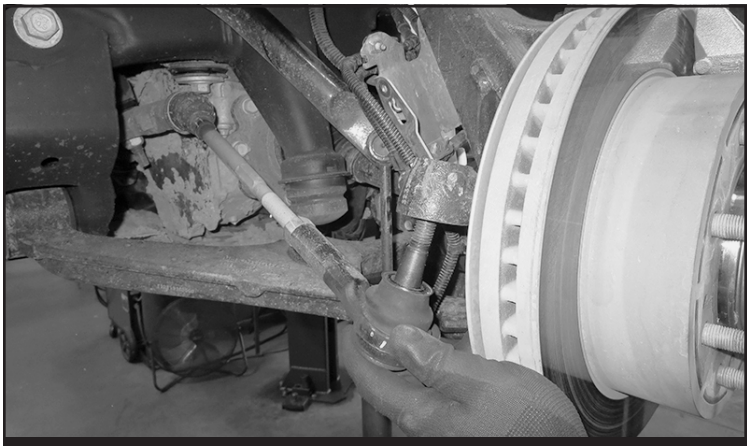


FIGURE 1 - STEP 5

6. Disconnect the brake hose bracket from the back of the steering knuckle. Remove the bracket from the hoses and discard. Disconnect the brakeline bracket from the upper control arm bumpstop pad. Unbolt the wheel speed sensor from the hub/control arm. Save all hardware. **SEE FIGURES 2-3**

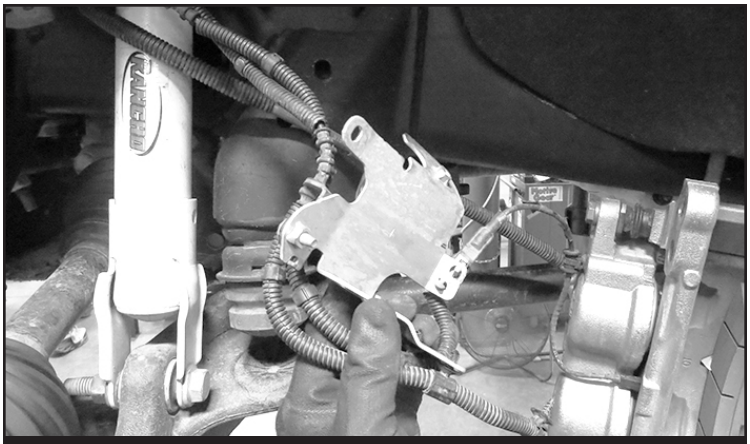


FIGURE 2 - STEP 6



FIGURE 3 - STEP 6

7. Remove the caliper from the rotor and place above the upper control arm during this portion of the installation. Remove rotor set screw then remove the brake rotor from the knuckle. **SEE FIGURES 4-5**



FIGURE 4 - STEP 7

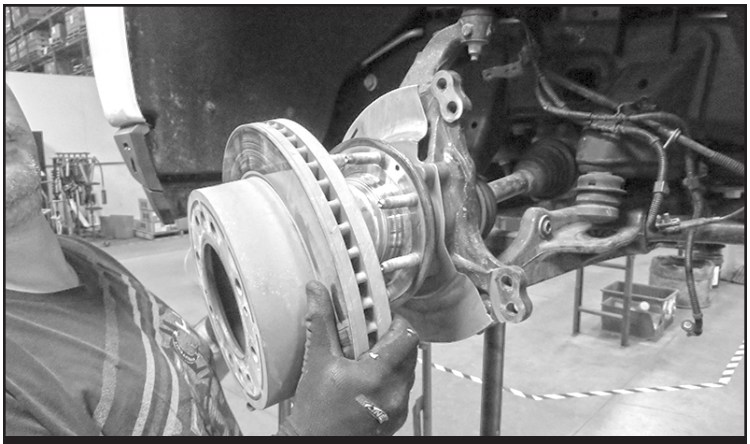


FIGURE 5 - STEP 7

8. Remove axle bearing cover. Then remove the axle nut. Save all parts and hardware for reinstallation. **SEE FIGURE 6**



FIGURE 6 - STEP 8

9. Loosen the upper and lower control arm 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. Remove the factory knuckle. Save all hardware. **SEE FIGURE 7-8**

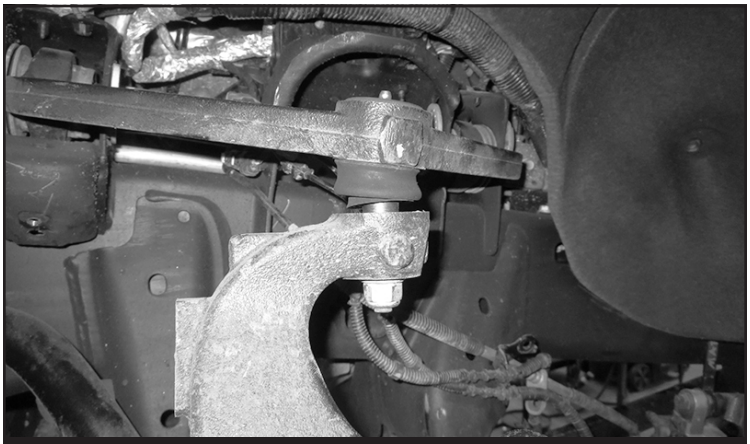


FIGURE 7 - STEP 9

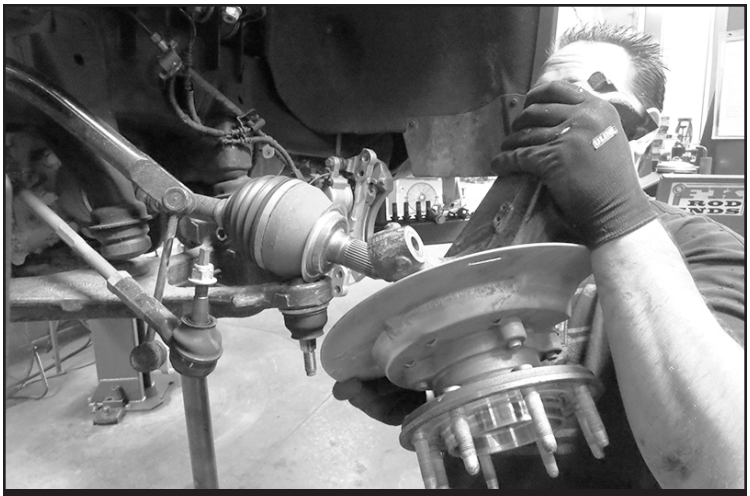


FIGURE 8 - STEP 9

10. Remove and discard the front factory shocks. Save hardware. **SEE FIGURES 9-10**



FIGURE 9 - STEP 10

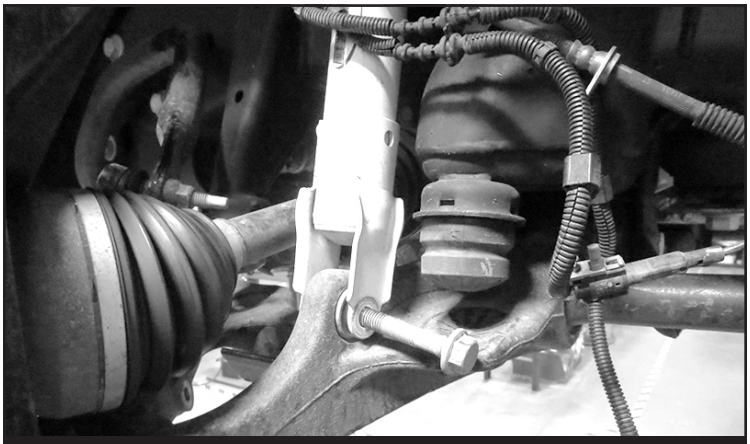


FIGURE 10 - STEP 10

11. Remove the lower control arm from the frame and torsion bar by sliding the control arm forward. Retain the arms and hardware for reinstallation. Then, remove the torsion key & torsion bar from the vehicle. **SEE FIGURES 11-13**



FIGURE 11 - STEP 11

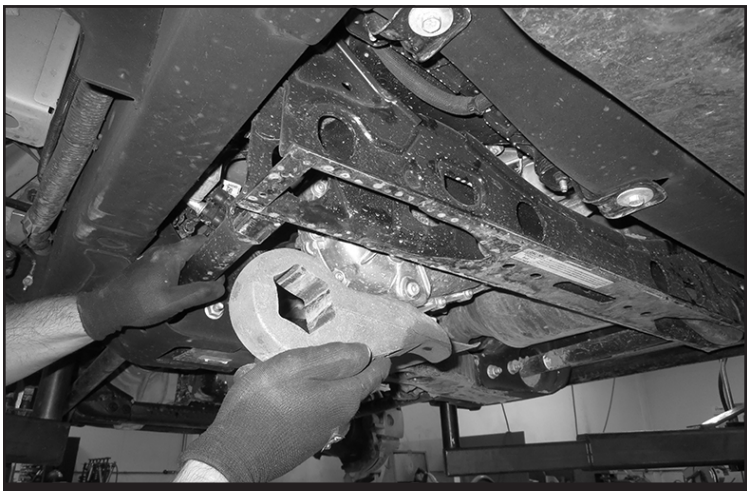


FIGURE 12 - STEP 11



FIGURE 13 - STEP 11

12. Disconnect CV axles from differential housing and remove axle assembly. Save hardware. **SEE FIGURE 14**

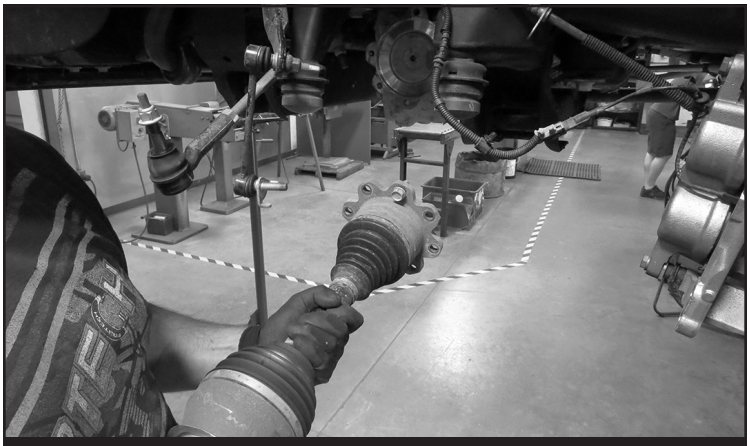


FIGURE 14 - STEP 12

13. Repeat steps on the opposite side.

14. Remove the stock differential rear cross member and discard. **SEE FIGURE 15**

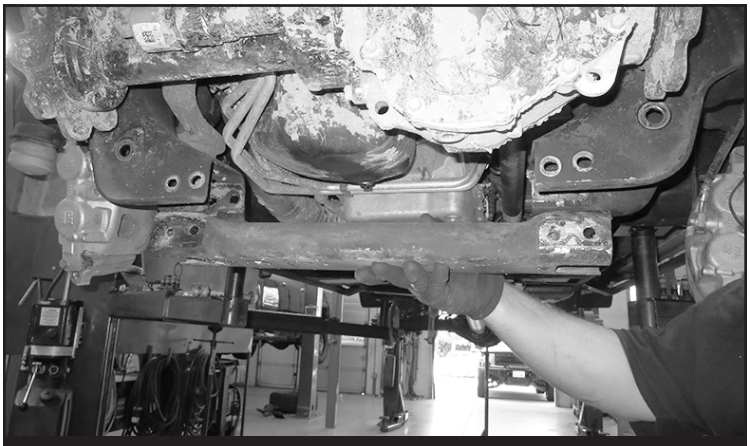


FIGURE 15 - STEP 14

15. Disconnect front drive shaft from differential housing. Retain bolts and u-joint clamps for reinstallation. **SEE FIGURE 16**



FIGURE 16 - STEP 15

16. Disconnect the differential housing electrical connection and vacuum line from differential housing.

17. Remove the differential housing assembly from vehicle. **SEE FIGURE 17**



FIGURE 17 - STEP 17

18. Locate the driver side rear mount on the differential. Using a die grinder, modify the diff like shown in **FIGURES 18-19** grind off 1/2" from the edge of the hole. Next, grind a 5/16" radius in the flat spot just in front of the diff mount. Then, drill out the same diff mount hole using a 1/2" drill bit.

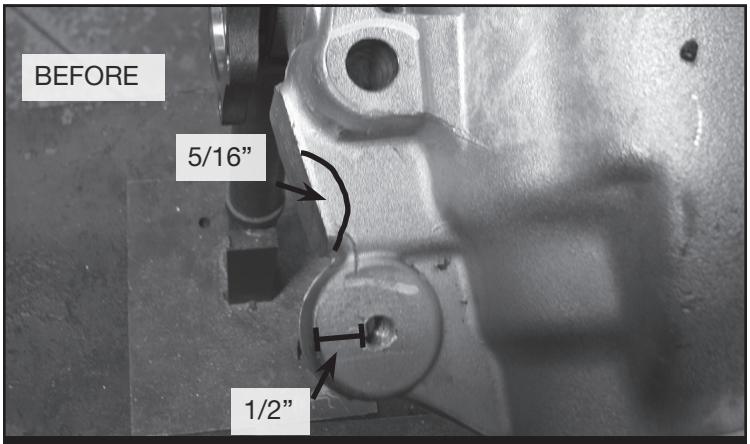


FIGURE 18 - STEP 18

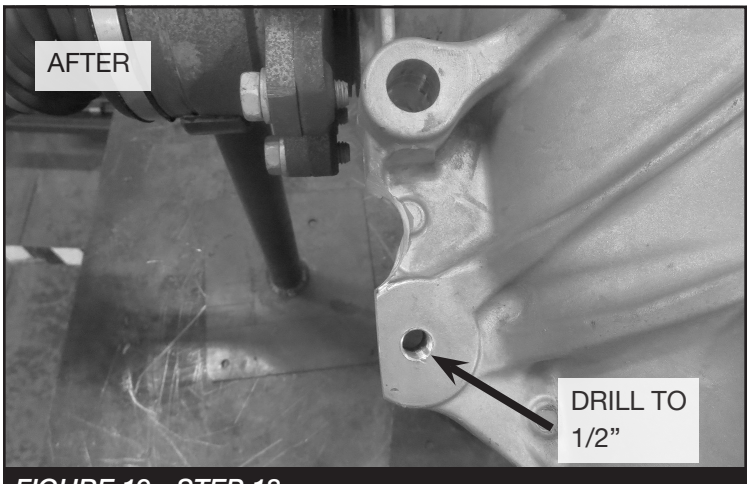


FIGURE 19 - STEP 18

19. Locate the driver side rear lower control arm pocket, measure 1-3/8" from the center of the pivot hole of the pocket and mark a vertical and horizontal line on the pocket. Using a reciprocating saw or cut off wheel cut the pocket on both the front and back side. **SEE FIGURES 20-21**

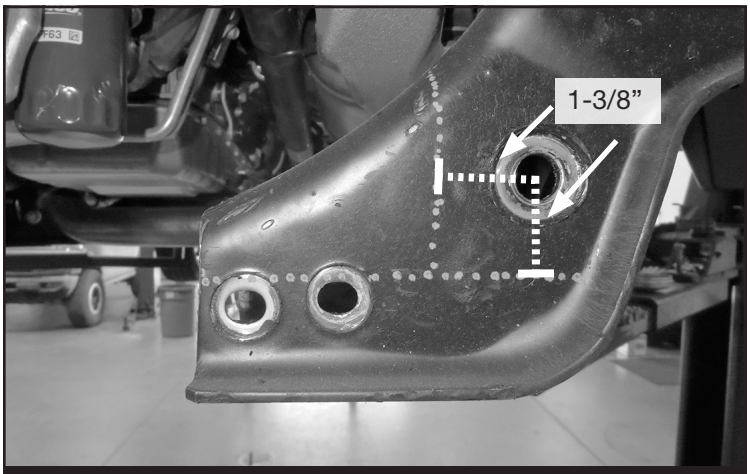


FIGURE 20 - STEP 19

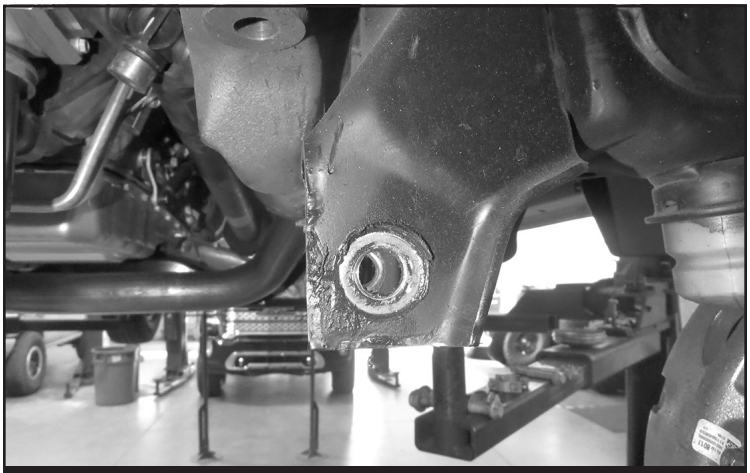


FIGURE 21 - STEP 19

20. Locate the passenger side lower control arm pocket. From the center or the control arm pivot hole, measure 1-3/8" down and make a straight line across on the front side only. Using a sawzall, cut the front portion of the pocket only. **SEE FIGURES 22-23**

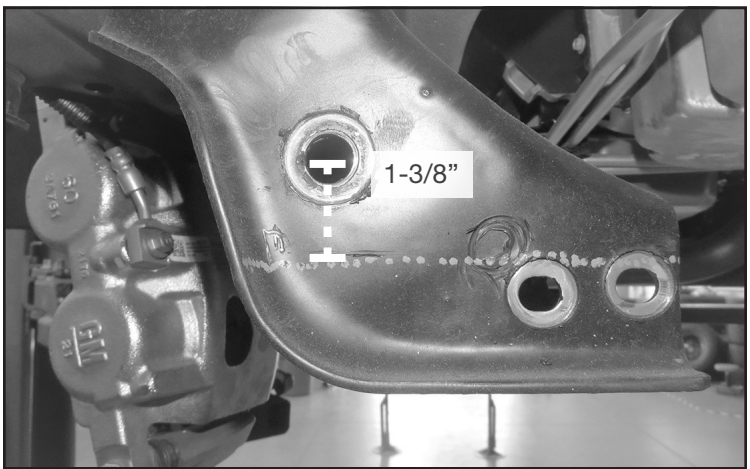


FIGURE 22 - STEP 20

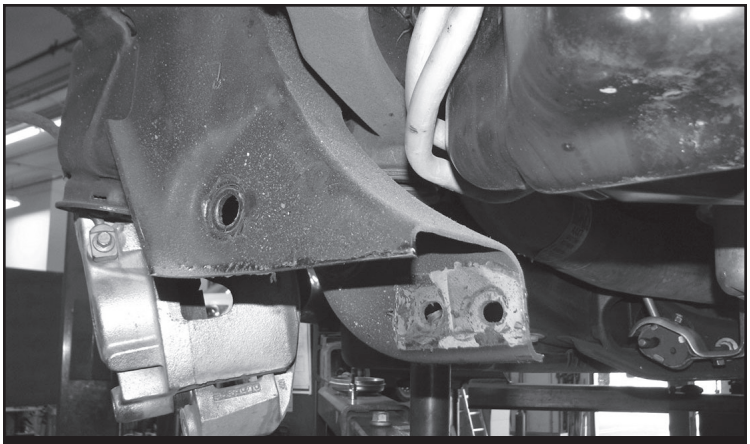


FIGURE 23 - STEP 20

21. Locate and install the Fabtech Driver side Diff bracket (FT20992) to the Driver side of the vehicles bottom factory frame mount. The smaller taper should face the front of the vehicle. Using two M12-1.75x40mm bolts, lock washers and flat washers, torque to 100 ft-lbs. **SEE FIGURE 24**

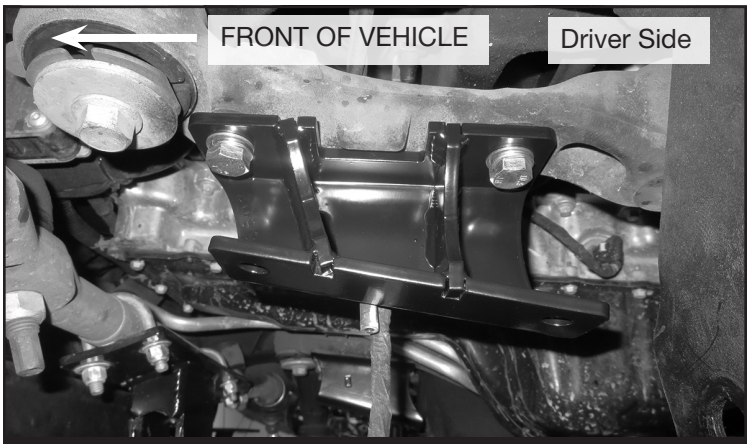


FIGURE 24 - STEP 21

22. Locate and install the Fabtech Pass side Diff bracket (FT20993) to the Passenger side of the vehicles bottom factory frame mount using the factory hardware. Torque to 120 ft-lbs **SEE FIGURE 25**

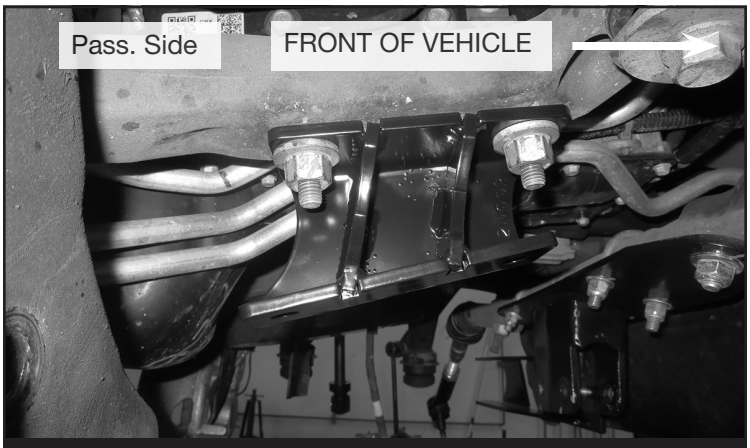


FIGURE 25 - STEP 22

23. Re-install the factory differential using the supplied 1/2" X 3-1/2" bolts, nuts and washers on the driver side and the 1/2" X 1-1/2" bolts, nuts and washers on the passenger side. Torque all 1/2" hardware to 127 ft-lbs. **SEE FIGURES 26-27**

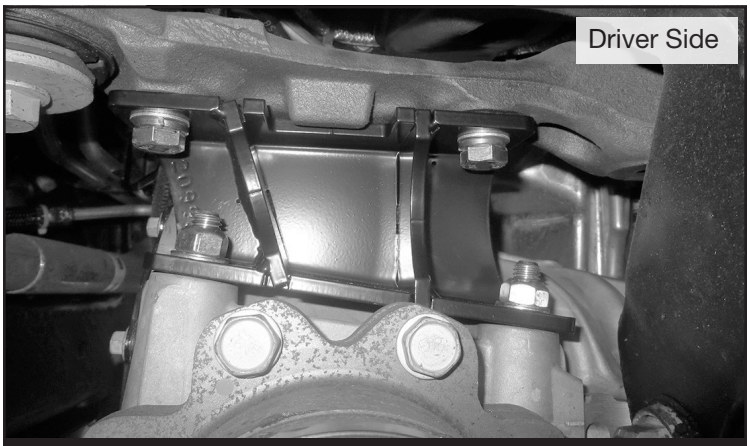


FIGURE 26 - STEP 23

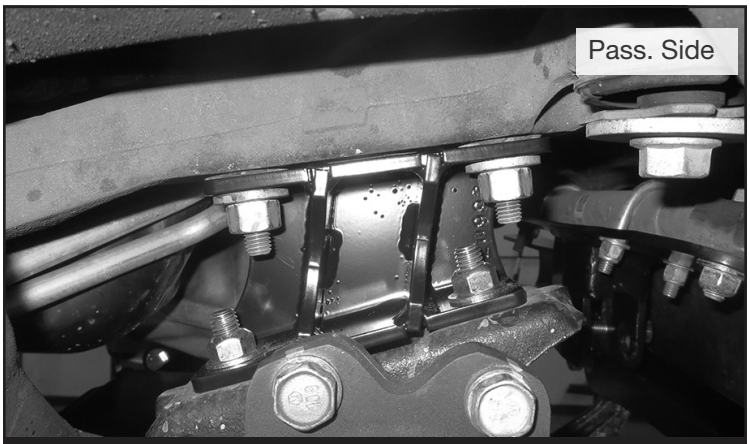


FIGURE 27 - STEP 23

24. Due to manufacturer variances, the differentials have different castings. **See Figures 28-29** for reference. Then proceed with

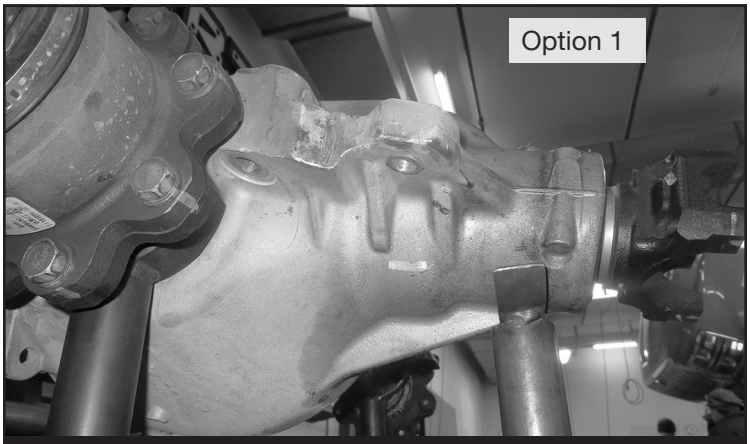


FIGURE 28 - STEP 24

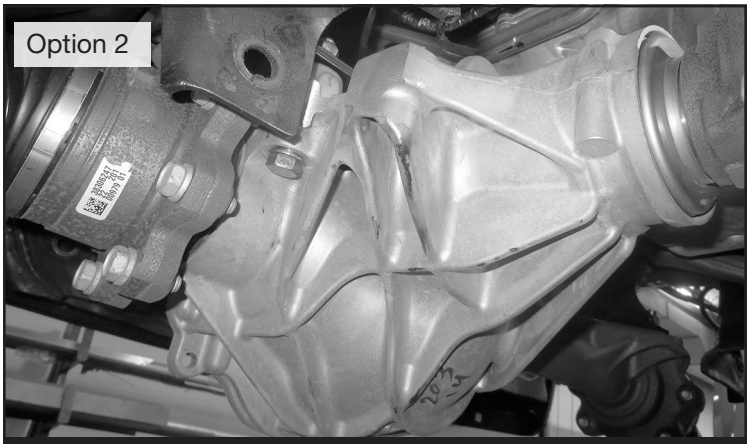


FIGURE 29 - STEP 24

25. OPTION 1 - Install the new Fabtech rear crossmember (FT20986) using the factory bolts. Leave loose. Next, Insert (2) FT1020 (Bushings) and a FT181 (Sleeve) into FT20777 (Rear diff bracket). Install the FT20777 onto the rear crossmember using the supplied 1/2" X 3-3/4" bolt, nut and washers. Then, install 1/2" X 2" bolt and washer through the FT20777 bracket and the differential using FT30182 (Nut Tab). Leave loose. **NOTE: Trimming of the driver rear pocket made be required to properly install the rear diff bracket. SEE FIGURES 30-31** Skip to step 28.

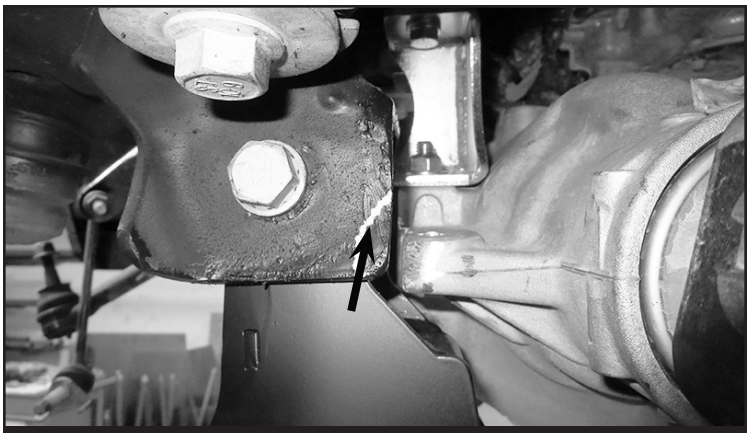


FIGURE 30 - STEP 25

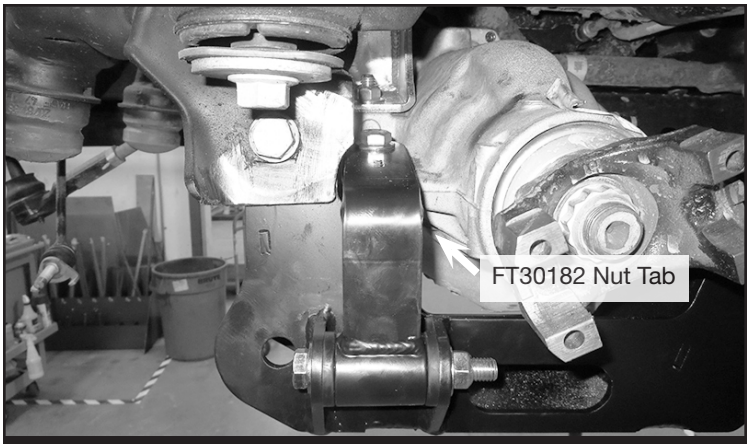


FIGURE 31 - STEP 25

26. OPTION 2 - Insert (2) FT1020 (Bushings) and a FT181 (Sleeve) into FT20777 (Rear diff bracket). Install the FT20777 (Bracket) to the diff with the FT645 (Sleeve) on the bottom side using the FT30182 (Nut Tab) and 1/2" x 3" bolt & washers. Leave Loose. Position the nut tab so it is facing towards the front to the vehicle. **SEE FIGURE 32.**

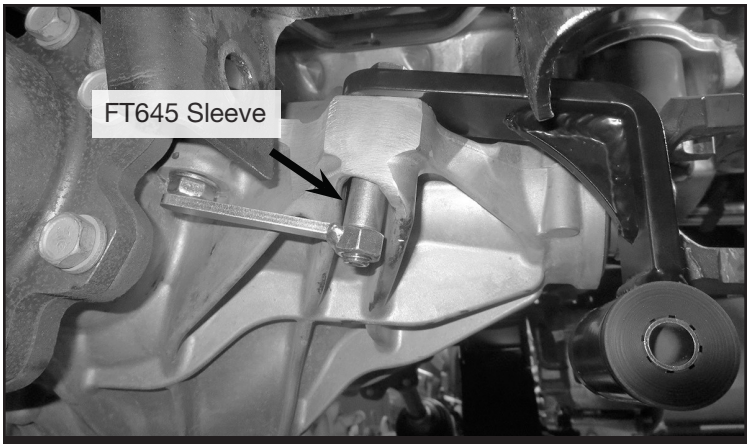


FIGURE 32 - STEP 26

27. Install the new Fabtech rear crossmember (FT20986) using the factory bolts. **SEE FIGURE 33**

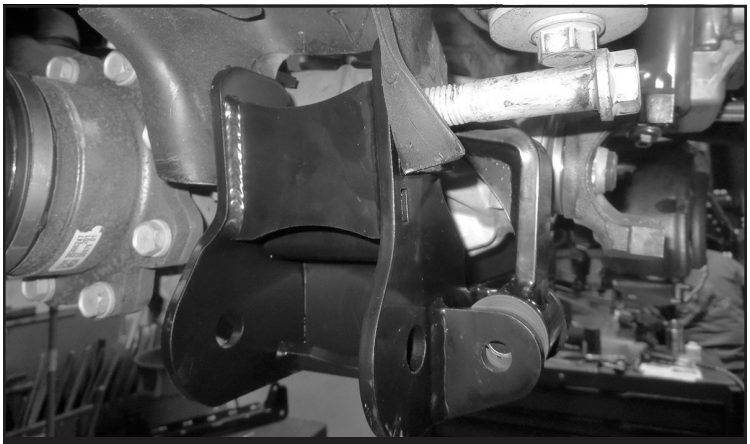


FIGURE 33 - STEP 27

28. Install the new Fabtech front crossmember (FT20744) using the factory hardware. Leave loose. **SEE FIGURE 34**

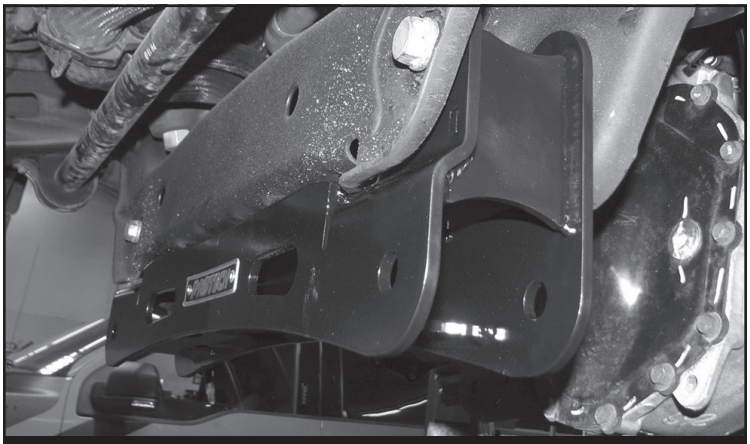


FIGURE 34 - STEP 28

29. Locate the factory driver side lower control arm. Install FT20988 (Driver shock mount) onto the lower arm using the factory bolt. Then, mark the hole for drilling. Remove the mount and drill to 9/16" **SEE FIGURES 35-36**

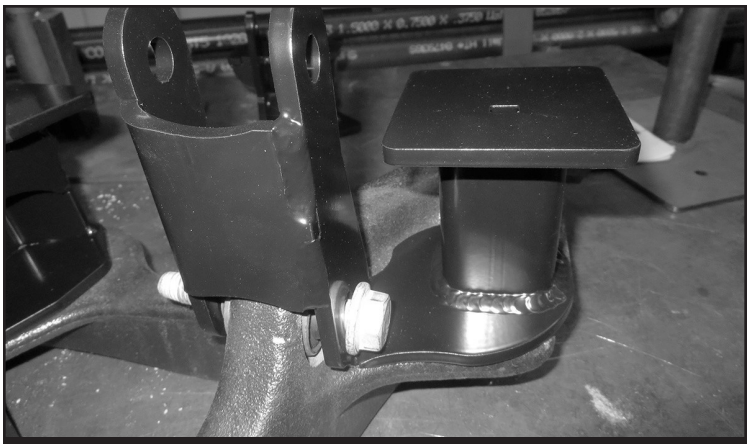


FIGURE 35 - STEP 29

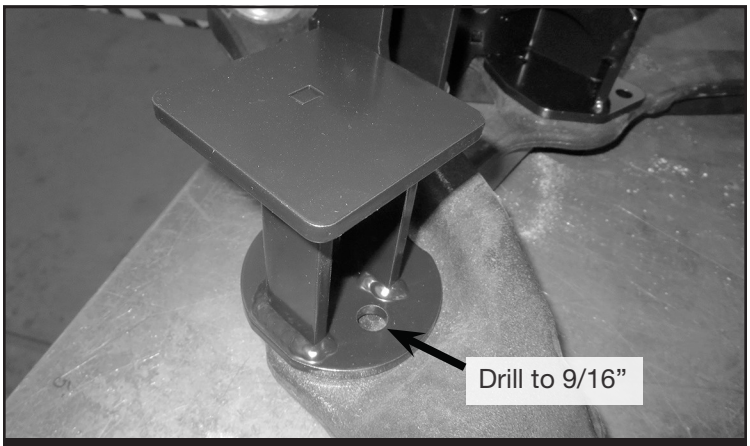


FIGURE 36 - STEP 29

30. Reinstall the FT20988 (Driver shock mount) using the factory hardware and 1/2" x 1-3/4" bolt, washers & nut. Torque to 106 ft-lbs. **SEE FIGURE 37**

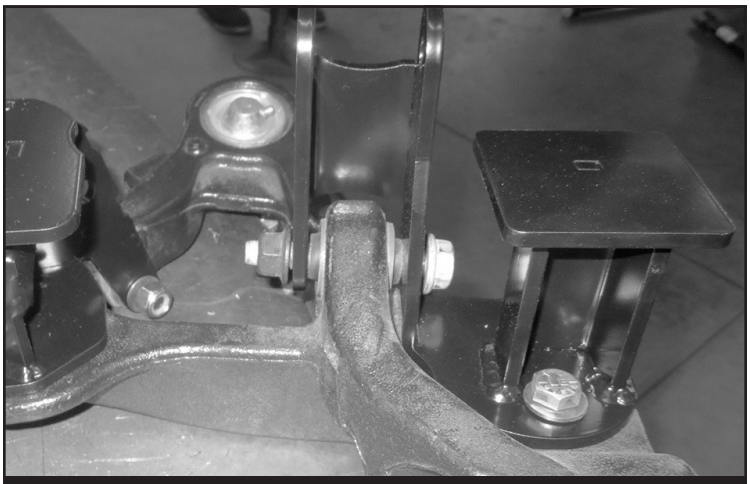


FIGURE 37 - STEP 30

31. Locate FT20990 (Driver bump stop bracket). Place the FT20990 onto the arm. Lightly install using the supplied M12 x 50mm bolt and FT120 (Spacer) to the existing factory hole on the lower control arm. Line up the bracket with the edge of the factory arm then mark the two holes to drill on the control arm. Remove and drill to 7/16" **SEE FIGURES 38-41**



FIGURE 38 - STEP 31

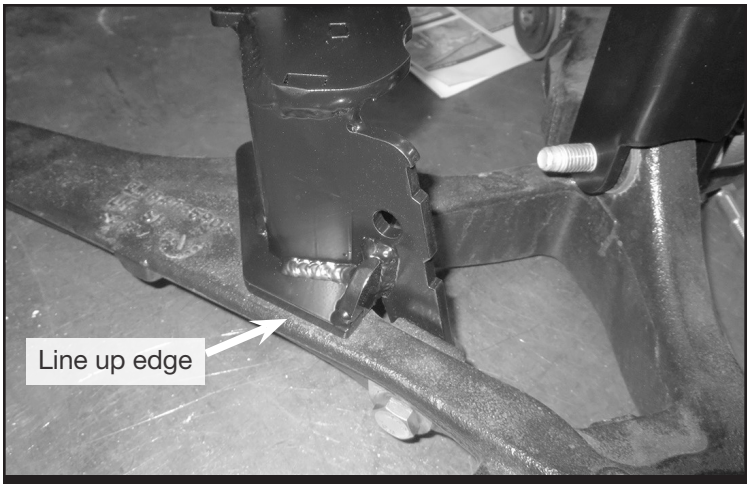


FIGURE 39 - STEP 31

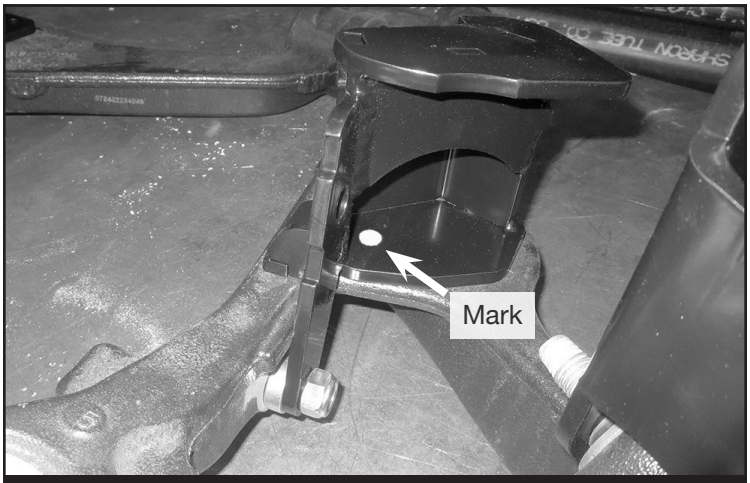


FIGURE 40 - STEP 31

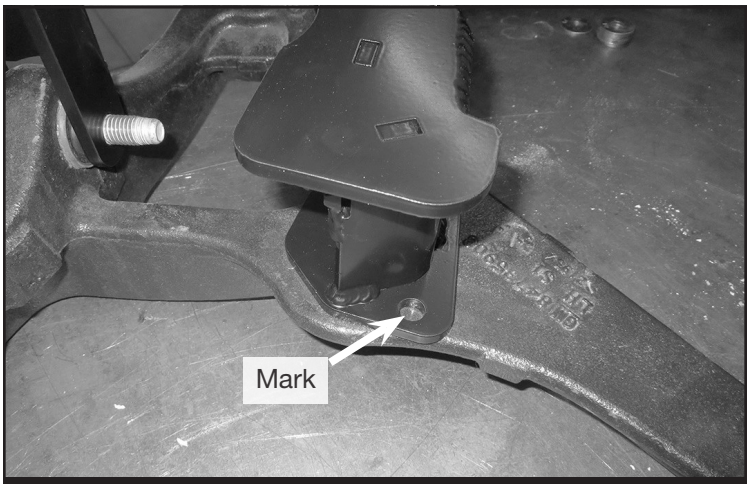


FIGURE 41 - STEP 31

32. Install FT20990 (Driver bumpstop bracket) using the M12 x 50mm bolt, washers, nut and FT120 (Spacer). Then install the supplied 7/16” x 1-1/2” bolts, washers and nuts. Torque all hardware to 70 ft-lbs. **SEE FIGURE 42**

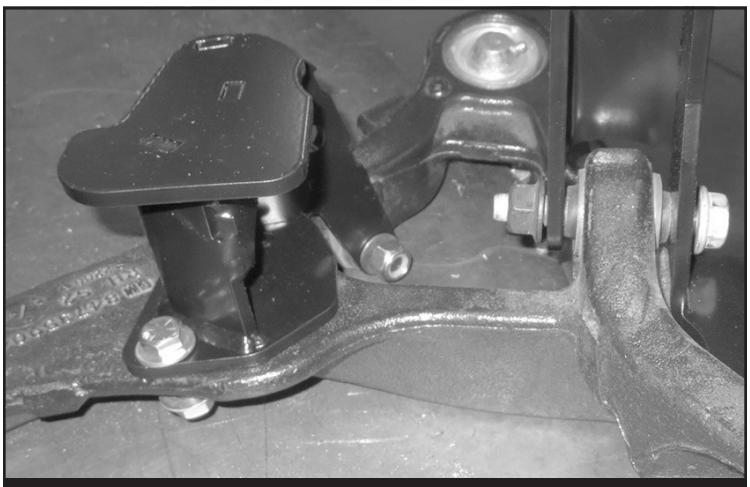


FIGURE 42 - STEP 32

33. Repeat step 29-32 on the passenger side lower control arm using FT20989 & FT20995.

34. Install both lower control arms into the Fabtech crossmember pockets using the supplied M18 X 120mm hardware for the front pivot and M18 X 150mm hardware for the rear pivot. Install the bolts so the threads are inward towards the differential. Leave loose. **SEE FIGURE 43**



FIGURE 43 - STEP 34

35. Install the FT20777 onto the rear crossmember using the supplied 1/2” X 3-3/4” bolt, nut and washers. **SEE FIGURE 44**

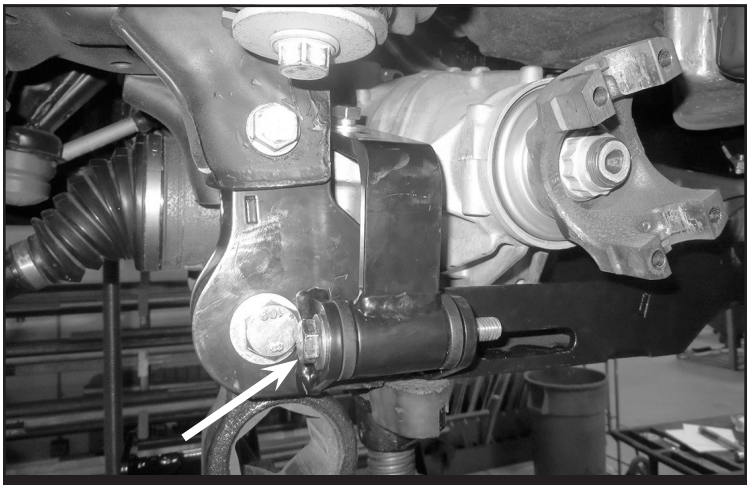


FIGURE 44 - STEP 35

36. Locate the factory knuckle. Remove the four mounting bolts attaching the hub assembly to the knuckle. **SEE FIGURE 45**



FIGURE 45 - STEP 36

37. Remove the o-ring from the factory knuckle then install it in the new Fabtech driver knuckle (FT20987D). **SEE FIGURE 46**



FIGURE 46 - STEP 37

38. Install the dust shield/hub assembly onto the new knuckle using the four bolts previously removed. Torque to 165 ft-lbs. **SEE FIGURE 47** Repeat steps for the passenger side knuckle.



FIGURE 47 - STEP 38

39. Reinstall the factory CV axles to the diff using the factory hardware. Torque to 58 ft-lbs.

40. Locate the FT20922 (Axle spacer). Install the axle spacer onto the axle shaft while Installing the new Fabtech spindles FT20987D & FT20987P. Torque the upper ball joint to 45 ft-lbs and the lower to 70 ft-lbs. **SEE FIGURES 48-49**

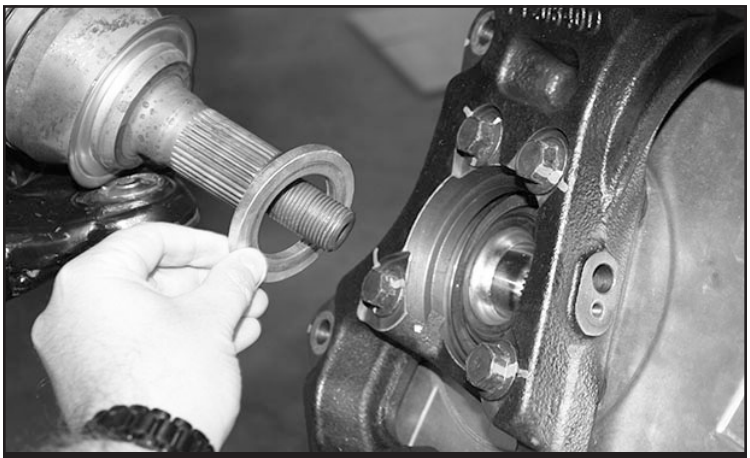


FIGURE 48 - STEP 39

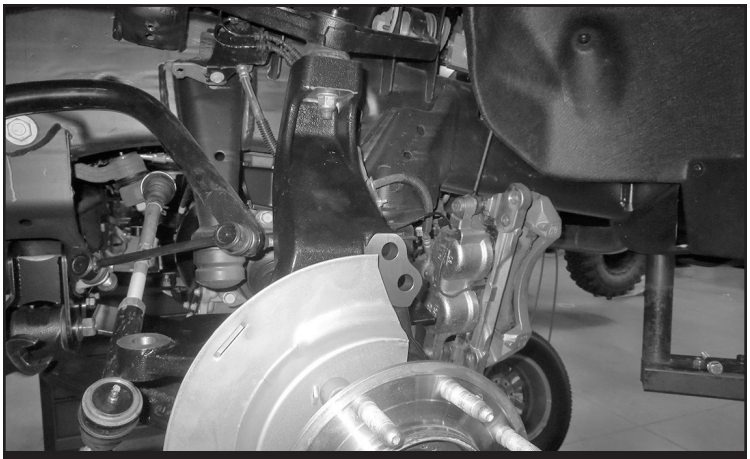


FIGURE 49 - STEP 39

41. Install FT20994 (Skid plate) using the supplied 1/2" X 1-1/4" bolts, nuts and washers. Torque to 106 ft-lbs. **SEE FIGURE 50**

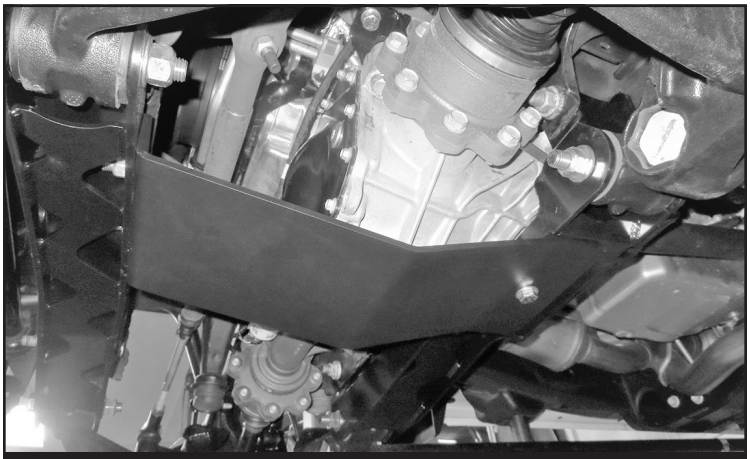


FIGURE 50 - STEP 41

42. Proceed to torque the upper differential mounts and crossmembers to the frame hardware. Then torque the rear diff mount hardware. The lower control arm pivot bolts will be torqued at a later time.

- M12 - 100 ft-lbs
- M18 - 278 ft-lbs
- 1/2" - 106 ft-lbs

43. Install the axle nut and dust cover. Torque to 165 ft-lbs. Then, install the brake rotor with the factory locating screw. Repeat on the passenger side. Torque to 17 ft-lbs. **SEE FIGURES 51-52**

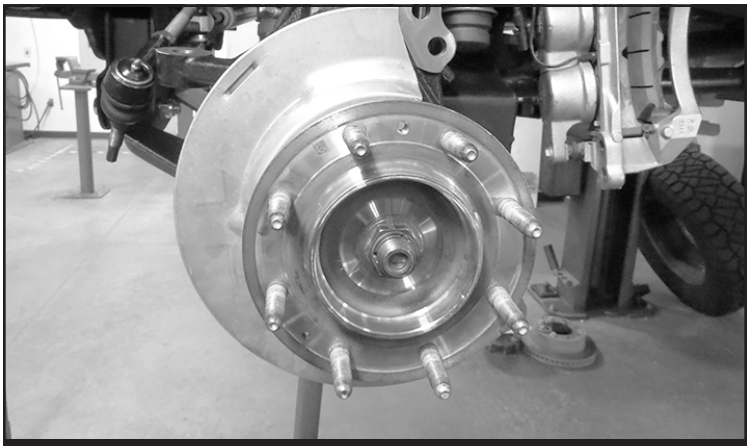


FIGURE 51 - STEP 43



FIGURE 52 - STEP 43

44. Install the brake caliper to the new knuckle using the factory bolts. Torque to 180 ft-lbs.

45. Install the factory sway bar end links to the sway bar and the new Fabtech bumpstop brackets using the factory hardware. Repeat on the passenger side. Torque to 46 ft-lbs. **SEE FIGURE 53**

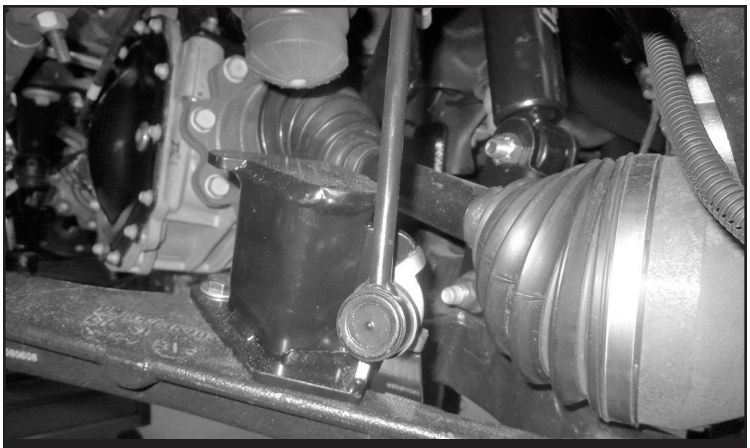


FIGURE 53 - STEP 45

46. Remove the factory outer tie rod ends and install the new Fabtech FT20277 tie rods. Install onto the new spindle Torque to 60 ft-lbs. **SEE FIGURE 54** Repeat on passenger side.

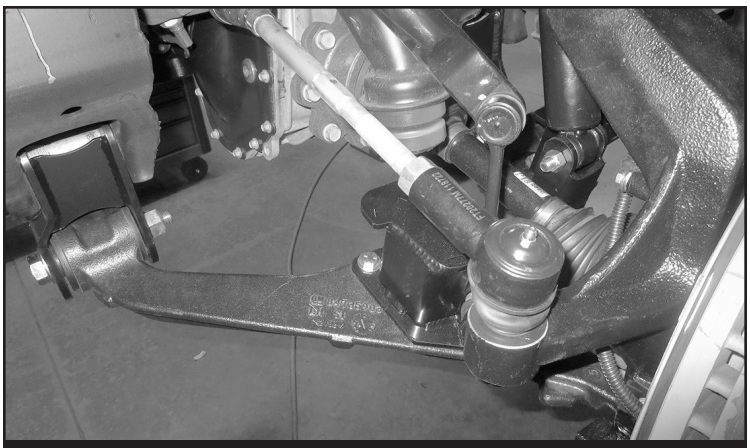


FIGURE 54 - STEP 46

47. Locate the top of the factory upper shock mount. If the vehicle is equipped with a plastic protection box it will need to be trimmed to allow the shock to be installed. Trim the angled area back 1/2" **SEE FIGURES 55-56**

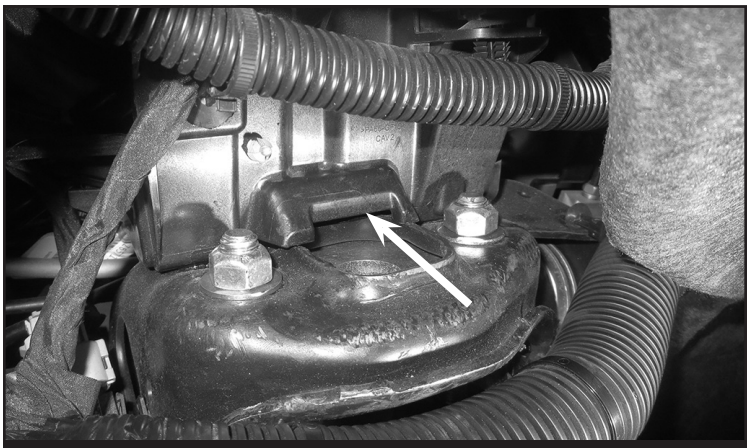


FIGURE 55 - STEP 47

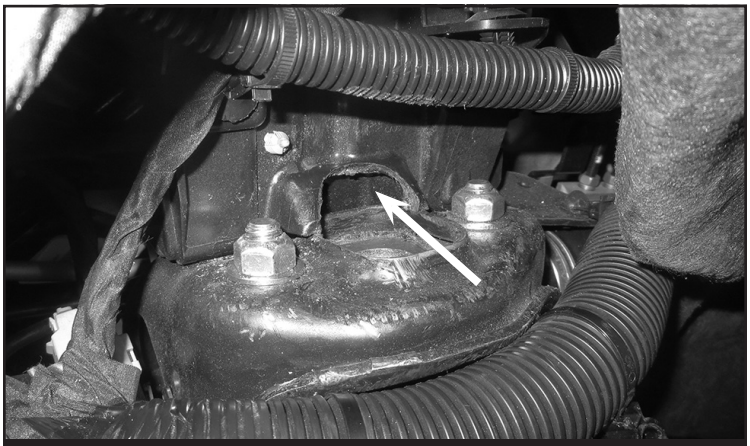


FIGURE 56 - STEP 47

48. Install FT20998 (upper shock plate) into the upper shock bucket using the supplied 7/16" X 1-1/4" hardware. Torque to 70 ft-lbs. Repeat on passenger side. **SEE FIGURE 57 NOTE: If installing resi shocks refer to shock instructions for resi mount installation.**



FIGURE 57 - STEP 48

49. Install the front shocks using the supplied stem hardware for the upper and 1/2" X 2-3/4" bolt for the lower mount. Torque to 106 ft-lbs. **SEE FIGURE 58**

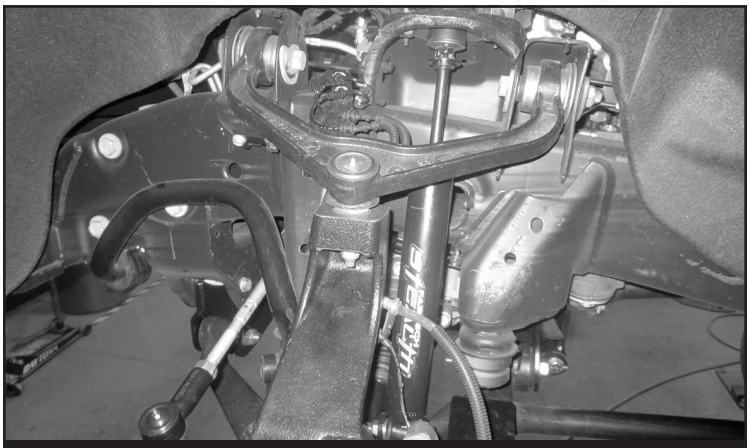


FIGURE 58 - STEP 49

50. Install FT20520 (Driver brake line bracket) onto the factory brakeline bracket using the supplied 5/16" x 3/4" bolt, nut and washers. Then, attach the new bracket to the upper control arm bumpstop pad using the factory bolt removed earlier. **SEE FIGURE 59** Repeat on passenger side.

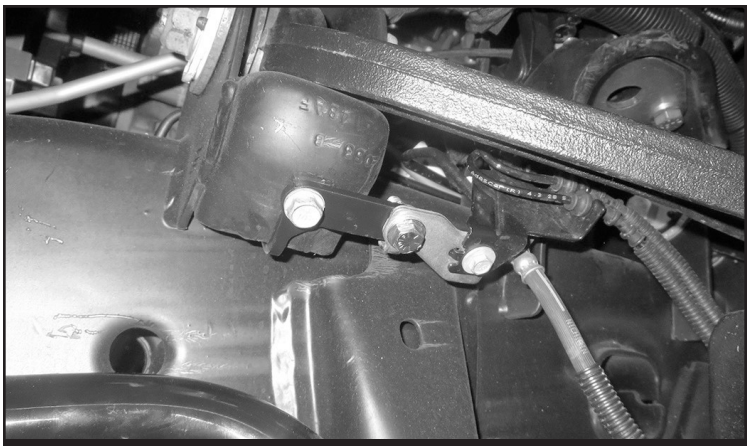


FIGURE 59 - STEP 50

51. Using the supplied clamps, 1/4" hardware and zip ties. Secure the brake/ABS lines to the new Fabtech knuckle. Install the ABS sensor into the knuckle using the factory hardware. Torque to 8 ft-lbs. **SEE FIGURES 60-62**



FIGURE 60 - STEP 51

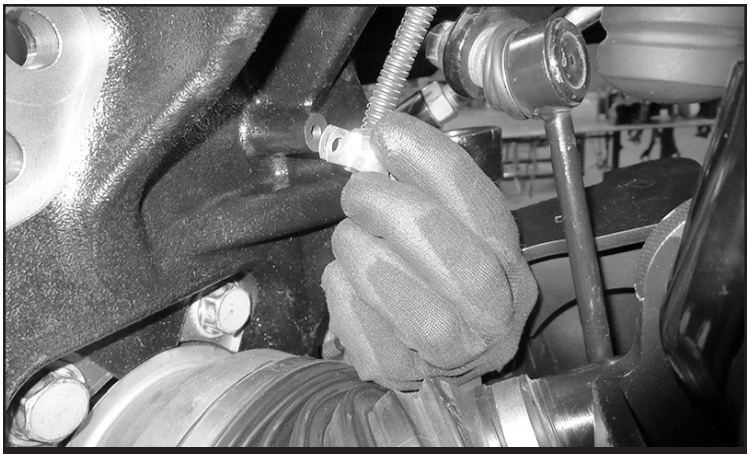


FIGURE 61 - STEP 49



FIGURE 62 - STEP 49

52. Remove the rear torsion bar/key crossmember from the vehicle. Save hardware. **SEE FIGURE 63**



FIGURE 63 - STEP 52

53. Locate both FT20768 & FT20769 (Driver and Pass torsion bar drop). Install the brackets using the supplied 9/16" X 3-3/4" hardware where the torsion bar crossmember was originally located. Leave loose. **NOTE: The brackets should be install with the long extension facing the rear of the vehicle. SEE FIGURE 64**

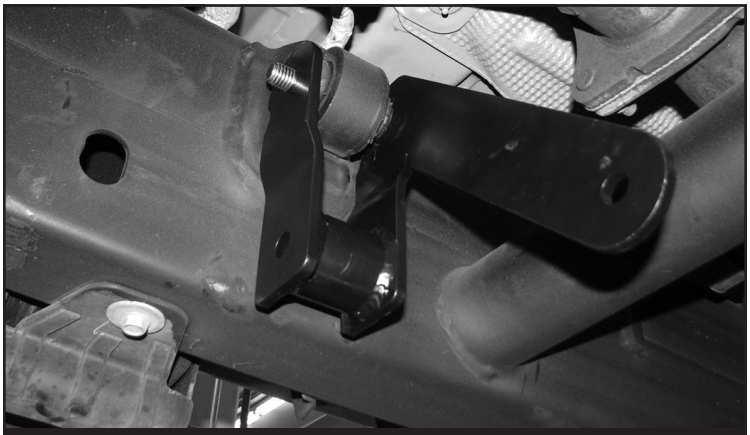


FIGURE 64 - STEP 53

54. Install the factory torsion bar crossmember to the new brackets using the factory hardware. Mark the 2 holes on the back side. Remove and drill marked holes to 1/2". **SEE FIGURE 65**



FIGURE 65 - STEP 54

55. Re-install the torsion bars into the lower control arms and slide forward enough so it does not interfere with re-installing the crossmember. **SEE FIGURE 66**



FIGURE 66 - STEP 55

56. Torque the 9/16” hardware on the drop brackets to 153 ft-lbs. Next, re-install the factory crossmember using the factory bolts and 1/2” X 1-1/2” hardware. **NOTE: The 1/2” bolts will need to be installed from the inside of the crossmember.** Torque the factory hardware to 135 ft-lbs and 1/2” to 106 ft-lbs. **SEE FIGURE 67**

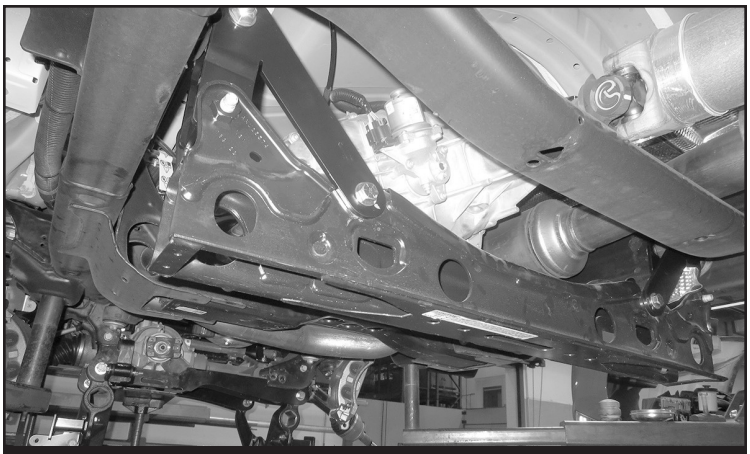


FIGURE 67 - STEP 56

57. Reinstall the torsion keys and set the torsion key bolts to the measurements recorded from step 2. This is a starting point. Adjustments will be made once vehicle is on the ground.

- REAR SUSPENSION -

58. Jack up the rear end of the vehicle and support the frame rails with jack stands. Supporting the rear differential, remove and discard the rear shocks and u-bolts. Lower axle down slowly. Use care not to over extend the brake hose.

59. On the front side of the axle bumpstop pad. The center existing hole will need to be drilled out to 1” **SEE FIGURE 68**



FIGURE 68 - STEP 59

60. On the same bumpstop pad open up the hole on the top to 1/2” **SEE FIGURE 69**

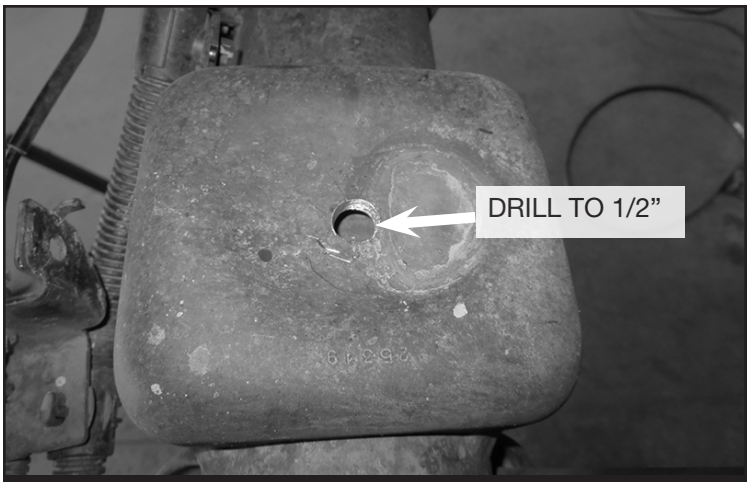


FIGURE 69 - STEP 60

61. Install FT20956 (Spacer) onto the top of the bumpstop pad. **SEE FIGURE 70.** Next, installing FT20941 (Bumpstop Bracket) onto the bumpstop pad using the supplied 1/2" x 1-1/2" bolt, washers and FT20942 (Nut Tab). **NOTE: The nut tab will be inserted through the front side where the hole was opened to 1".** Torque to 106 ft-lbs. **SEE FIGURE 71**

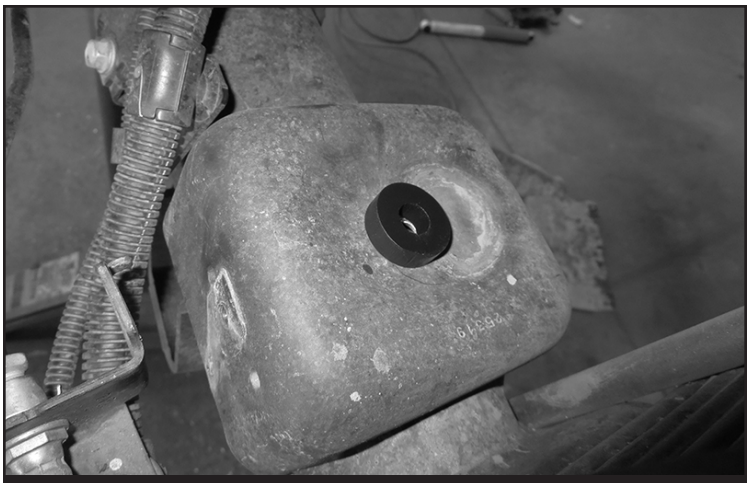


FIGURE 70 - STEP 61

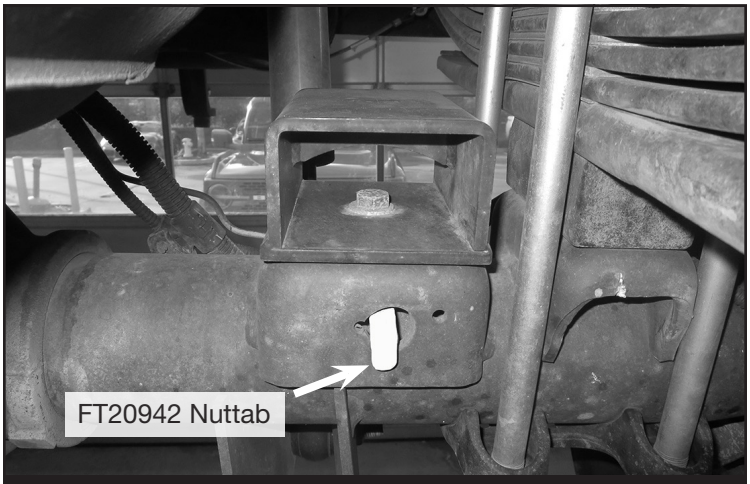


FIGURE 71 - STEP 61

62. Using 23/32" drill bit. Drill out the centering pin hole on both new blocks. **SEE FIGURE 72**.



FIGURE 72 - STEP 62

63. Locate the vehicles axle block pad. Using a 3/4" drill bit open up the existing holes on both driver and passenger sides. **SEE FIGURE 73.** Then, insert FT629 (Block sleeve into the holes. **SEE FIGURE 74**



FIGURE 73 - STEP 63

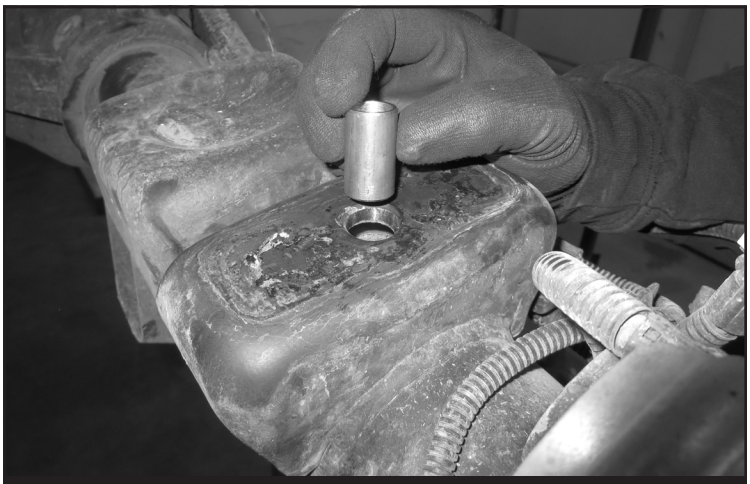


FIGURE 74 - STEP 63

64. Install the new blocks and u-bolts using the supplied 3/4" hardware. **Note:** Install the block with the small taper towards the front of the vehicle. Torque the ubolts to 215 ft-lbs. **SEE FIGURE 75**



FIGURE 75 - STEP 64

65. Disconnect the brakeline bracket from the rear axle differential. Install FT20918 (Brake Line bracket) using the factory hardware. Then, install the factory brakeline bracket to the new bracket using the supplied 5/16 x 1" hardware. Torque to 17 ft-lbs. **SEE FIGURE 76**

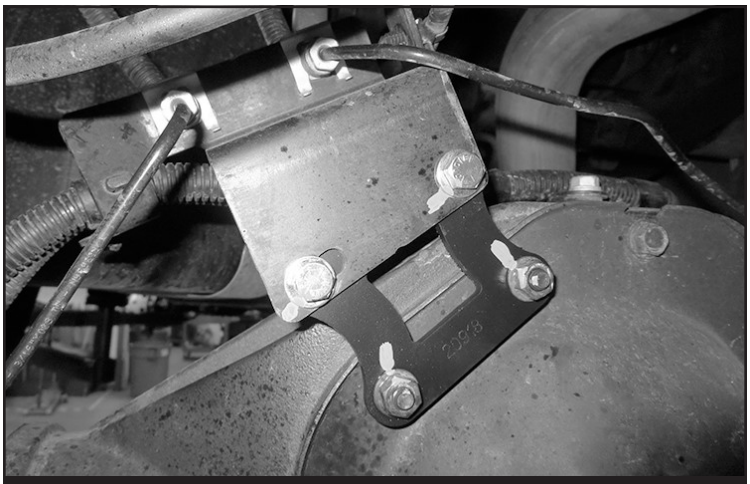


FIGURE 76 - STEP 65

66. Disconnect the electrical harness from the top of the rear axle differential by removing the two factory bolts. Install FT20919 (Differential spacer) between the differential and connector using the supplied M6 bolts and washers. Torque 8 ft-lbs. **SEE FIGURE 77**

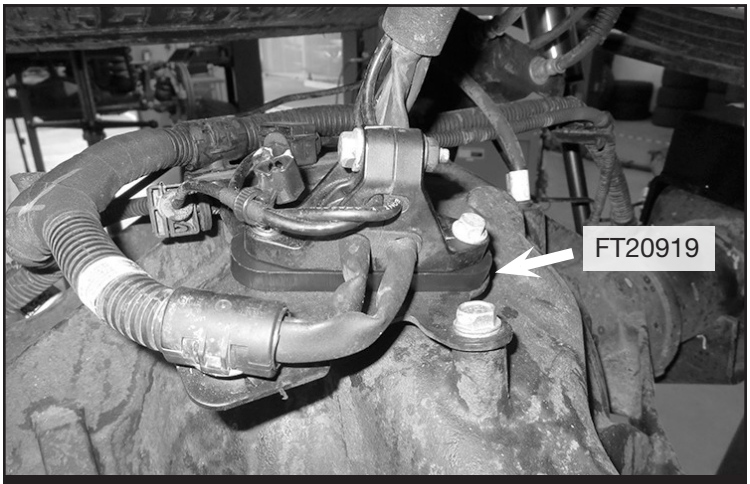


FIGURE 77 - STEP 66

67. Install the new Fabtech shocks with the factory hardware. Torque to 127 ft-lbs.

68. 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.**

69. Check front end alignment and set to factory specifications. Re-adjust headlights.

70. Recheck all bolts for proper torque.

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

72. 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, uniballs 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.

For technical assistance call: **909-597-7800**

- Product Warranty & 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, Uniball bearings, tie rod ends, limiting straps, cross shafts, heim joints and driveshafts. 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.

Dirt Logic take apart shocks are considered a serviceable shock with a 1-year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the owner must ship the shock to Fabtech for inspection and service. If after examination the shock is determined to have failed due to neglect, damage caused by improper installation, or any reason other than "normal wear and tear," the owner of the shock will be responsible for all service costs. Costs include labor, parts, and shipping. 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, powder coating, 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. This warranty does not include coverage for police, taxi, first responder vehicles, race vehicles, or vehicles used for government, commercial or fleet 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.

Oversized tires and wheels may decrease the vehicle's braking capacity. Drivers should always brake early and be aware of the increased the stopping distance of the vehicle. Drivers should adjust their driving habits to the effectiveness of the braking. Adjust your driving habits to these changes.

Failure to drive safely may result in serious injury or death to driver and passengers. Driver and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers