INSTALLATION INSTRUCTIONS

2018-2024 JEEP WRANGLER (JL)

5” LONG ARM BOX KIT

FTS24233

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

	FTS24233	5” LONG ARM BOX KIT
2	FT1599-2-4	SWAY BAR ENDLINK (REAR) 12.93”
2	FT50026BK	SWAY BAR ENDLINKS (FRONT) 10.34”
2	FT50644	FRONT BUMPSTOP SPACER
2	FT50724	REAR BUMPSTOP SPACER
1	FT50597	REAR TRACK BAR BRACKET WELD ON
1	FT50617	FRONT TRACK BAR BRACKET WELD ON
1	FT50619	LONG TRAVEL BRACKET (DRIVER)
1	FT50620	LONG TRAVEL BRACKET (PASS)
1	FT50737	HARDWARE SUBASSEMBLY
1	FT50738	HARDWARE KIT

	FTS24235	5” LONG ARM BOX KIT - COILOVER
2	FT1599-2-4	SWAY BAR ENDLINK (REAR) 12.93”
2	FT50026BK	SWAY BAR ENDLINKS (FRONT) 10.34”
1	FT50597	REAR TRACK BAR BRACKET WELD ON
1	FT50617	FRONT TRACK BAR BRACKET WELD ON
2	FT50644	FRONT BUMPSTOP SPACER
2	FT50724	REAR BUMPSTOP SPACER
1	FT50745	HARDWARE SUBASSEMBLY
1	FT50738	HARDWARE KIT

	FT50737	HARDWARE SUBASSEMBLY
2	FT50592	SLEEVE 1.000 X .563 X 1.400 (TRACK BAR)
8	FT404739	SLEEVE 12MM
1	FT24233i	INSTRUCTIONS
8	FT1004	SWAY BAR LINK HALF BUSHINGS
1	FT50048	5/8 HOURGLASS BUSHING
2	FT50060	FRONT BUMPSTOP NUT TAB
2	FT50443	SLEEVE 1.000 X .500 X 1.550 (LOWER SHOCK)
2	FT83105	LONG TRAVEL BRACKET NUT TAB
2	FT1599-1-5	BRAKE LINE BRACKET (REAR)
1	FTAS12	STICKER FT BLUE 10X4
1	FTAS16	DRIVER WARNING DECAL
1	FTLUBE	URETHANE LUBE PACKET
1	FTREGCARD	REGISTRATION CARD

	FT50745	HARDWARE SUBASSEMBLY
8	FT1004	SWAY BAR LINK HALF BUSHINGS
2	FT1599-1-5	BRAKE LINE BRACKET (REAR)
1	FT24233i	INSTRUCTIONS
8	FT404739	SLEEVE 12MM
1	FT50048	5/8 HOURGLASS BUSHING
2	FT50060	FRONT BUMPSTOP NUT TAB
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1	FTAS12	STICKER FT BLUE 10X4
1	FTAS16	DRIVER WARNING DECAL
1	FTLUBE	URETHANE LUBE PACKET
1	FTREGCARD	REGISTRATION CARD

	FT50738 - HARDWARE KIT	LOCATION
4	M12-1.75 X 70MM HEX BOLT	SWAY BAR LINKS
8	12MM WASHER	
4	M12-1.75 C-LOCK NUT	
2	1/2-13 X 4-1/2 HEX BOLT	FRONT BUMPSTOP
2	1/2” SPLIT LOCK WASHER	
2	9/16-12 X 3” HEX HEAD	FRT/REAR TRACK BAR
4	9/16 SAE WASHER	
2	C-LOCK NUT 9/16"-12	
4	5/16-18 X 1” HEX BOLT	REAR BUMPSTOP
8	5/16 SAE WASHER	
4	5/16-18 C-LOCK NUT	
2	1/2-13 X 4-1/2 HEX BOLT	LONG TRAVEL BRKT
4	1/2 SAE WASHER	
2	1/2-13 C-LOCK NUT	
5	3/8-16 X 1-1/4” HEX BOLT	LT BRKT/FRT TRACK
8	3/8” WASHER	
3	3/8-16 C-LOCK NUT	
2	1/4-20 X 3/4” HEX BOLT	REAR BRAKE LINE
4	1/4” SAE WASHER	
2	1/4-20 NYLOCK NUT	
1	THREAD LOCKING COMPOUND 1 MIL	

	FT50972 - HARDWARE KIT	LOCATION
2	M14-2.0 X 70MM HEX BOLT	SWAY BAR LINKS
4	14MM FLAT WASHER	
2	M14-2.0 C-LOCK NUT	

NOTE: REFER TO OPTIONAL KIT BOX INSTRUCTIONS PRIOR TO INSTALLATION.

- TOOL LIST -

Required Tools (Not Included)

- Basic Hand Tools
- Floor Jack
- Jack Stands
- 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.

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.

THE INSTALLATION OF THIS KIT REQUIRES WELDING, AND SHOULD BE PERFORMED BY A CERTIFIED WELDER

FOOTNOTES -

- Installation requires welding
- Fits 4-door models gas only
- Exhaust modification required on all 2018 Jeep JL wranglers or order AFE # 48-48024 (Loop delete pipe)
- Requires driveshafts. 4-door models Front (FTS94057- Rear (FTS94065)
- Does not fit vehicles equipped with 2.0L engine.

- INSTRUCTIONS -

FRONT SUSPENSION

NOTE: REFER TO OPTIONAL KIT BOX INSTRUCTIONS PRIOR TO INSTALLATION.

1. Disconnect the negative terminal on the battery. Jack up the front end of the vehicle and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.

2. On both the Driver and Passenger side, unbolt the front brake line brackets from the frame and the link arm. Save all hardware. **SEE FIGURES 1-2** On the driver side unclip the differential breather hose from the upper coil spring mount. **SEE FIGURE 3**

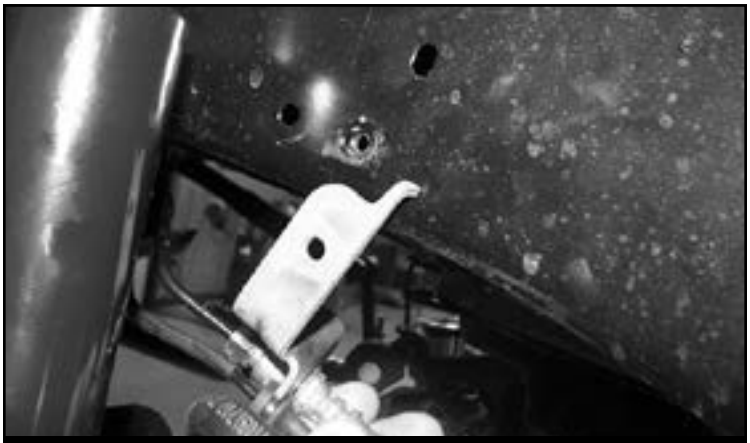

FIGURE 1 - STEP 2

FIGURE 2 - STEP 2

FIGURE 3 - STEP 2

3. Ubolt and remove both driver and passenger side brake line brackets from the axle spring perch. **SEE FIGURE 4**

FIGURE 4 - STEP 3

4. Unplug the front diff locker harnesses from the axle **(RUBICON MODELS ONLY) SEE FIGURES 5-6**

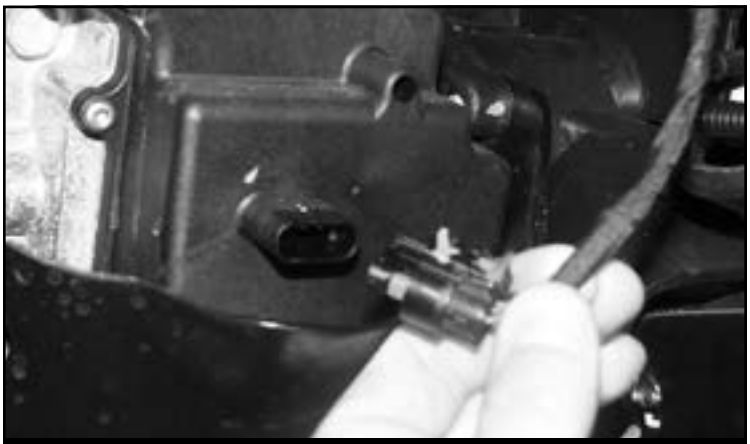

FIGURE 5 - STEP 4

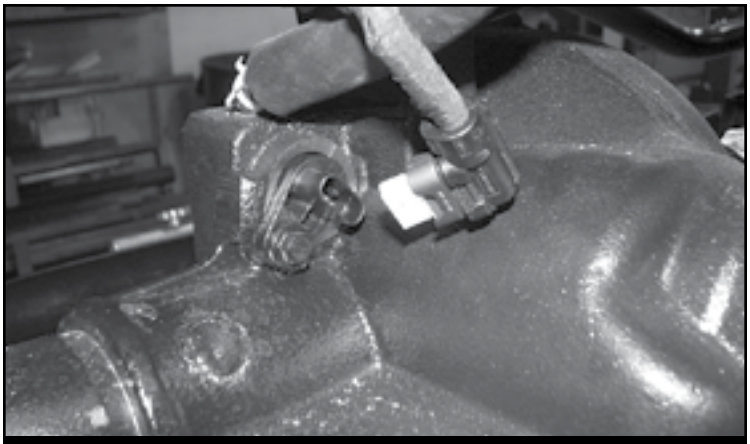

FIGURE 6 - STEP 4

5. Remove and discard the factory sway bar endlinks, save the hardware.

6. With the axle supported, remove the factory shocks. Save all hardware. Lower the front axle and remove the factory coil springs. Retain coil spring isolators.

7. **At this time install the FTS24224 (Long arm kit) with the instructions provided in the kit box.**

8. Disconnect the front track bar at the axle. Save hardware.

9. Install FT50617 (Front track bar bracket) to the factory mount using stock bolt. **SEE FIGURE 7.** Mark the front hole to drill using the new bracket as a guide. Remove and drill the hole to 3/8”. Sand the factory bracket down to bare metal. **SEE FIGURE 8**

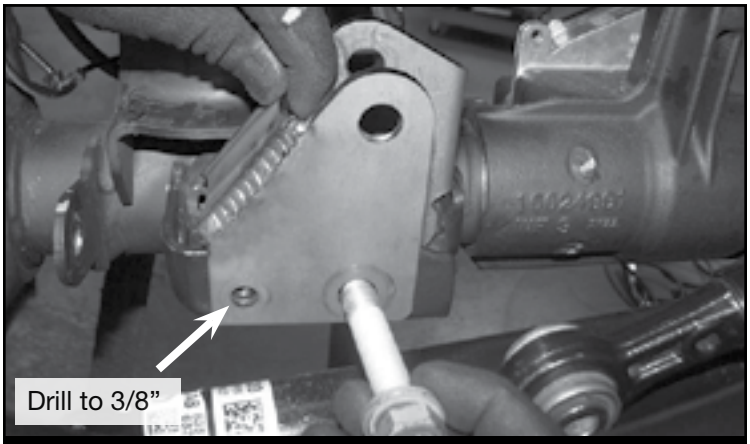

FIGURE 7 - STEP 9

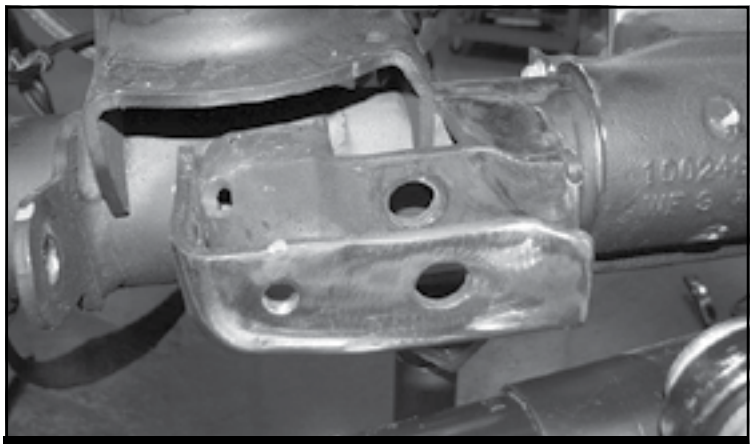

FIGURE 8 - STEP 9

10. Reinstall the bracket using the factory bolt and supplied 3/8” x 1-1/4” bolt, washer and nut. **NOTE: Install the FT50592 (Sleeve) with the factory bolt inside the new track bar bracket.** Torque factory hardware 148 ft-lbs and the 3/8 hardware to 44 ft-lbs. **SEE FIGURE 9**

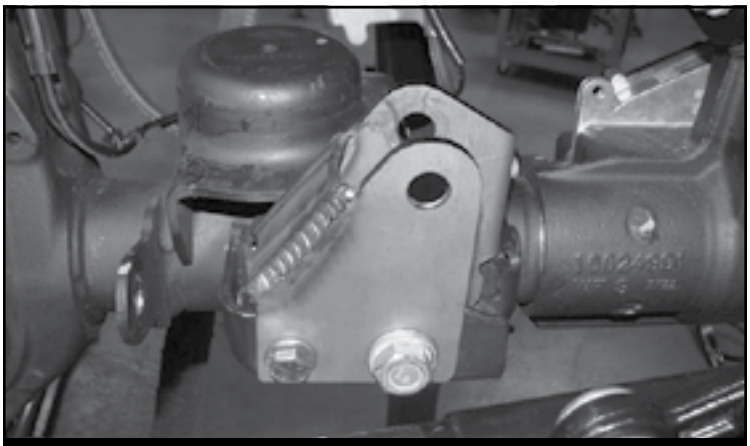

FIGURE 9 - STEP 10

11. Weld the new track bar bracket to the factory bracket like shown in **FIGURES 10-13**

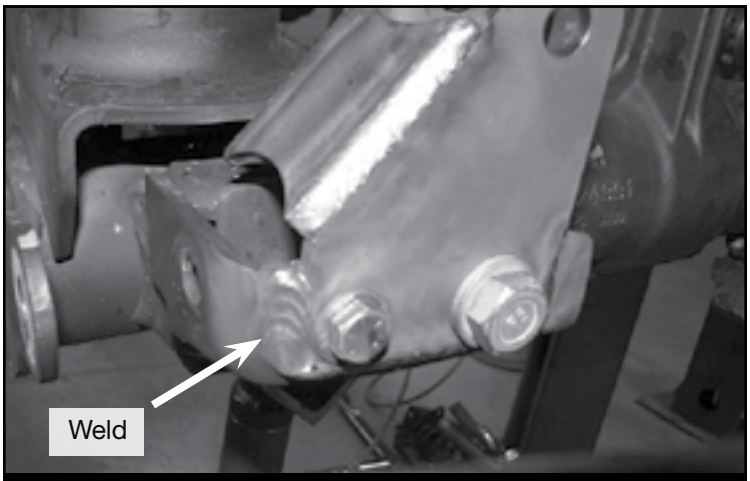

FIGURE 10 - STEP 11

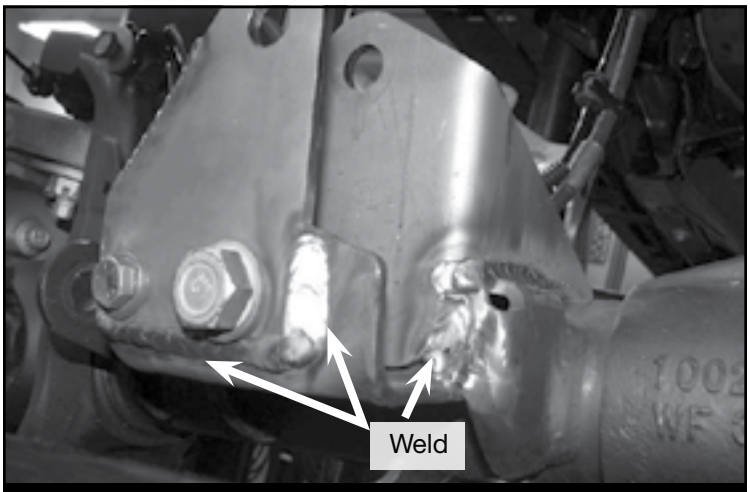

FIGURE 11 - STEP 11

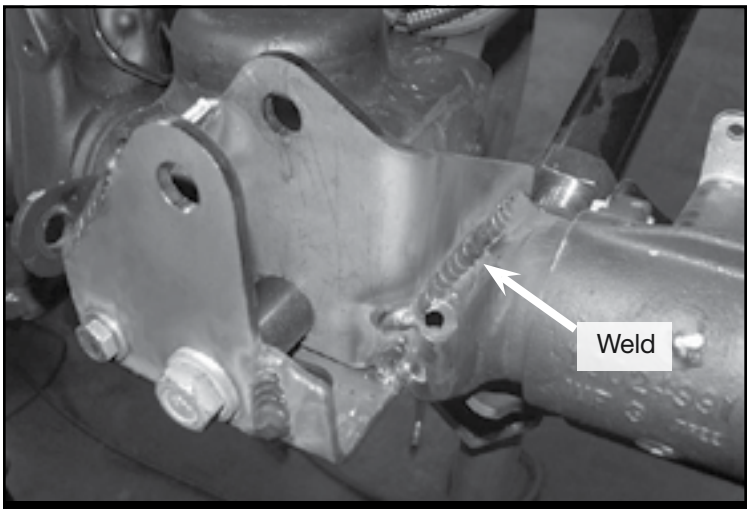

FIGURE 12 - STEP 11

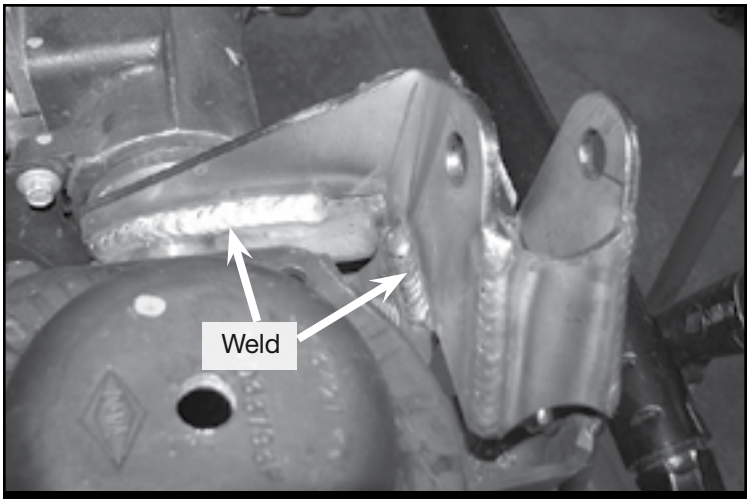

FIGURE 13 - STEP 11

12. Once cooled, paint all bare areas.

13. If installing FTS24210 Drag Link Kit, do so now with the instructions provided in the kit box.

14. On the factory coil spring perch. Use a drill with a 1/2” drill bit and drill out the existing factory hole on both driver & passenger sides. **SEE FIGURE 14**

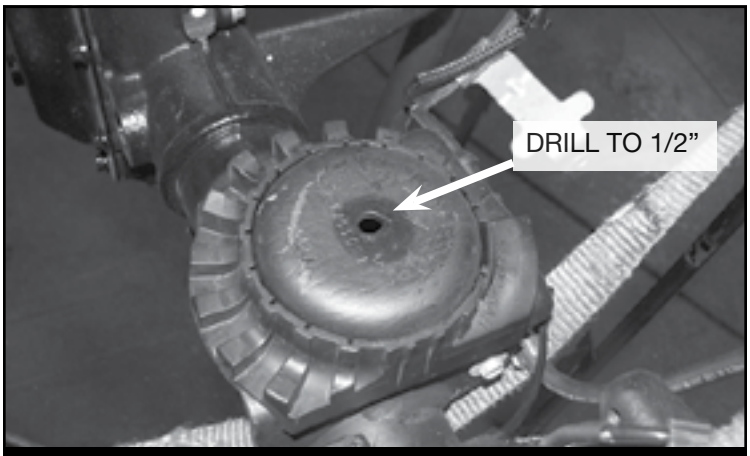

FIGURE 14 - STEP 14

15. **DRIVER SIDE:** Insert a 1/2” x 4-1/2” bolt and lock washer inside the FT50644 (Front bumpstop spacer). Place the FT50164 (Bumpstop spacer) into the bottom of FT50600 (Front driver spring) then install the spring into the vehicle as one unit using the factory rubber isolator. **NOTE: The driveshaft may have to be disconnected to install the spring into the vehicle.** Once installed insert the FT50060 (Nut tab) through the opening on the spring perch and thread the 1/2” bolt. Torque to 106 ft-lbs. **SEE FIGURES 15-17** Repeat on passenger side

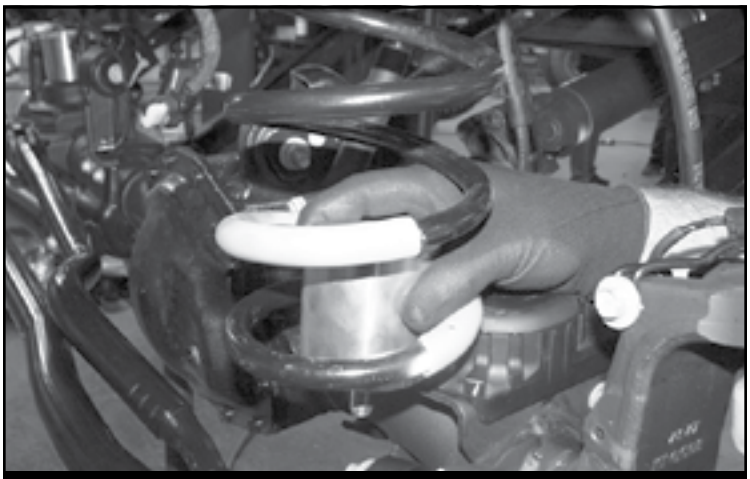

FIGURE 15 - STEP 15

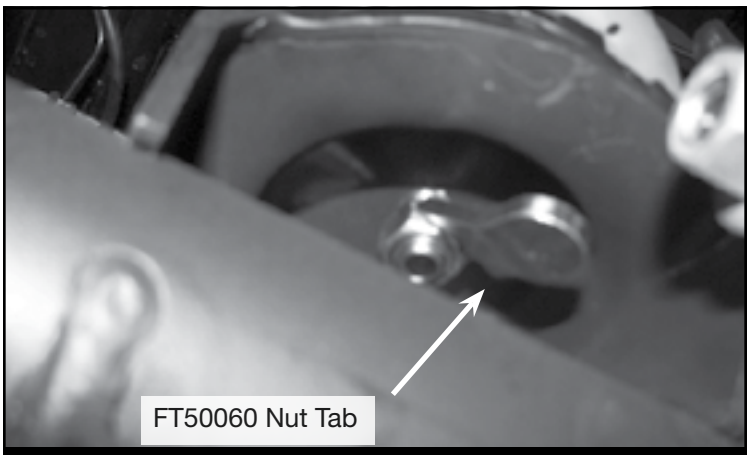

FIGURE 16 - STEP 15

FIGURE 17 - STEP 15

16. Locate the hole on the lower coil mount where the factory brake line bracket mounts. Drill out the hole and the brake line bracket removed in step 3 to 3/8”. Repeat on passenger side. **SEE FIGURE 18**

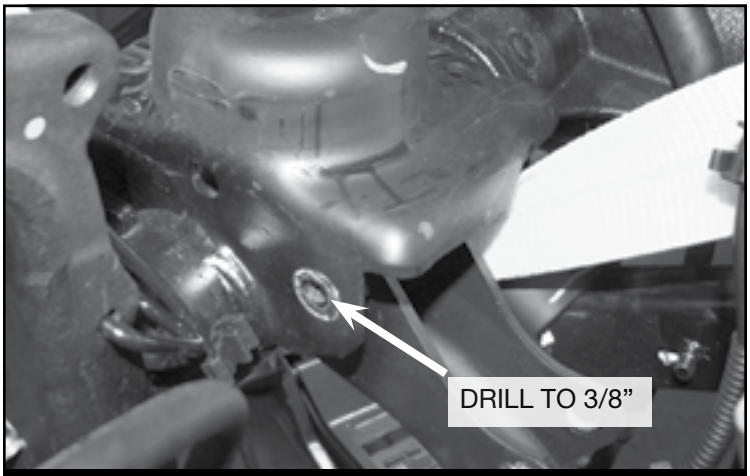

FIGURE 18 - STEP 16

17. Locate FT50619 (Lower driver shock bracket). Loosely install using the supplied 3/8” x 1-1/4” bolt, washer and FT83105 (Nuttab). Using the new bracket as a guide, mark the bottom hole on the lower shock bracket. Remove and drill to 3/8”. **SEE FIGURE 19**

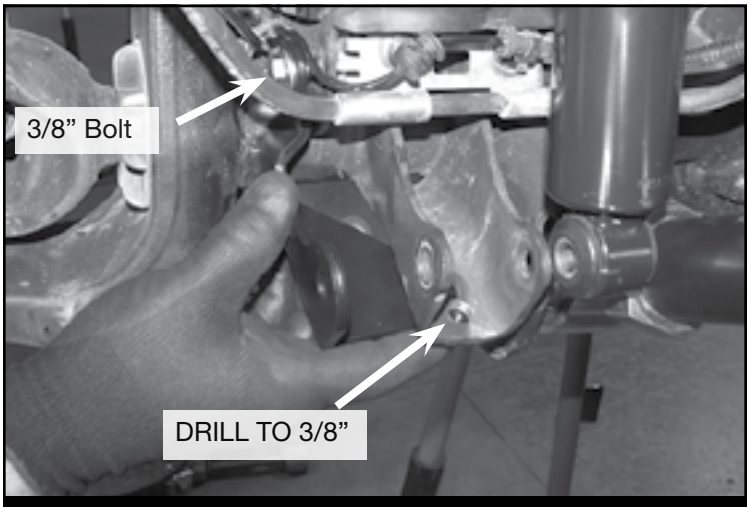

FIGURE 19 - STEP 17

18. Install the new bracket using the 3/8” hardware and FT83105 (Nut tab) with the factory brake line bracket. Torque to 31 ft-lbs. Install the supplied 3/8” x 1-1/4” bolt, washers and nut to secure the new bracket to the factory lower shock mount **SEE FIGURE 20**

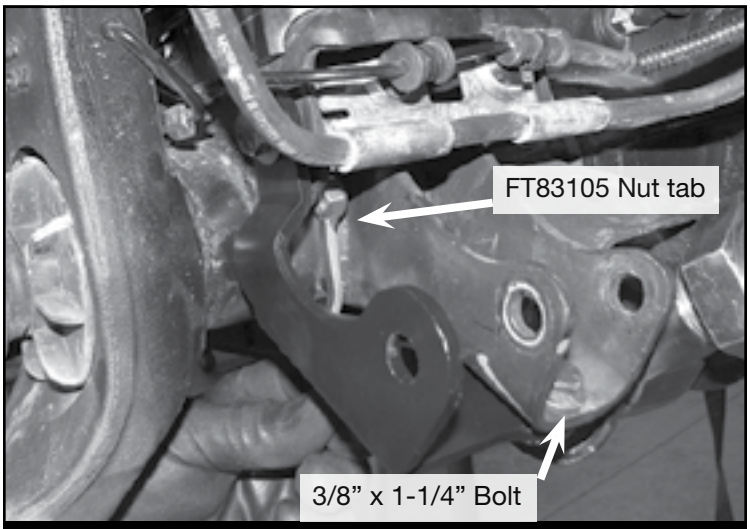

FIGURE 20 - STEP 18

19. **(Upper Shock Mount)** Install FTS6354 (Stealth), FTS811422 (Dirt Logic) or FTS801422 (Dirt Logic Resi) shock using the factory hardware. **NOTE: The shock will need to be installed so the shock spaces out away from the vehicle.** Torque to 100 ft-lbs. **SEE FIGURE 21**

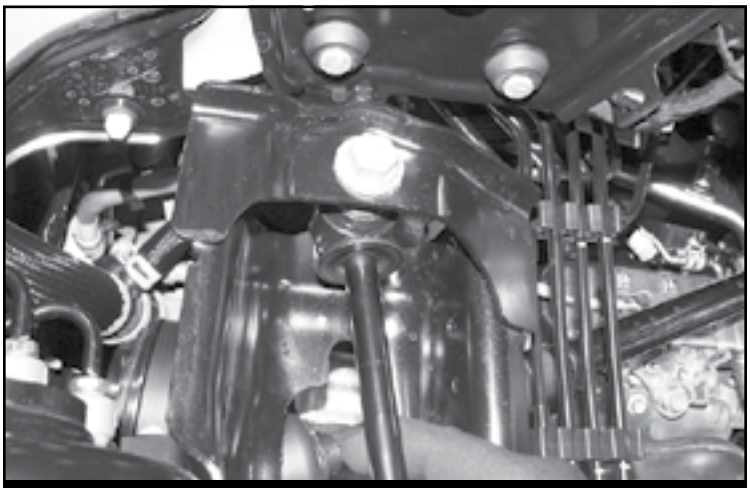

FIGURE 21 - STEP 19

20. **(Lower Shock Mount)** Install the shock to the lower mount using the suppled 1/2” X 4-1/2” bolt and hardware as well as the FT50443 (Spacer) in the factory location. Torque to 106 ft-lbs. **SEE FIGURE 22**

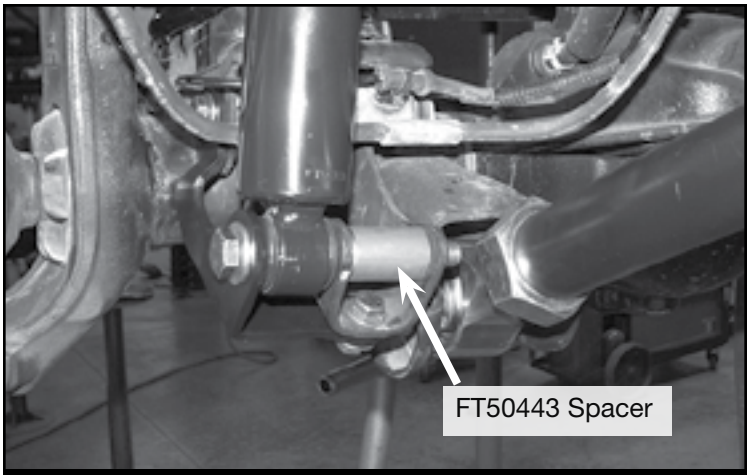

FIGURE 22 - STEP 20

21. Repeat steps 15-20 on the passenger side using FT50620 (Passenger lower shock bracket).

22. Re-install the track bar using the supplied 9/16” X 3” bolt, nut and washers. Torque to 153 ft-lbs. **SEE FIGURE 23**

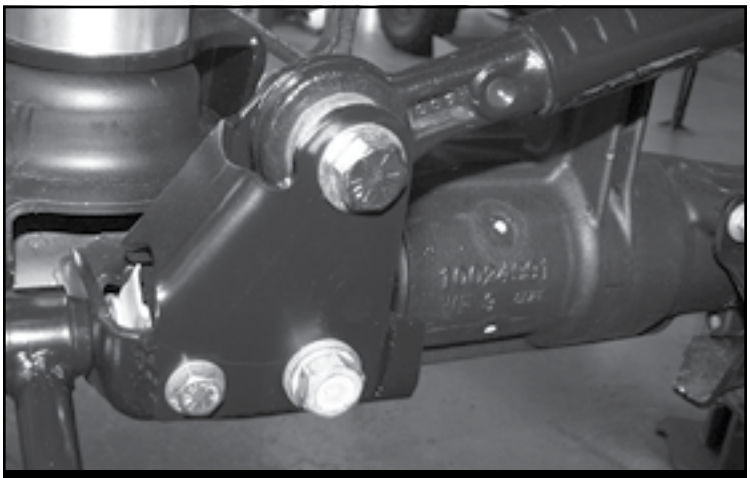

FIGURE 23 - STEP 22

23. Install FT50048 (Bushings) and FT404739 (Sleeves) into FT50026BK (Sway bar links). Then, install the links to the axle mount and sway bar using the supplied M12 x 70mm or m14 hardware (2024 Models) for the upper location and the factory for the lower. Torque to 65 ft-lbs. **SEE FIGURE 24**

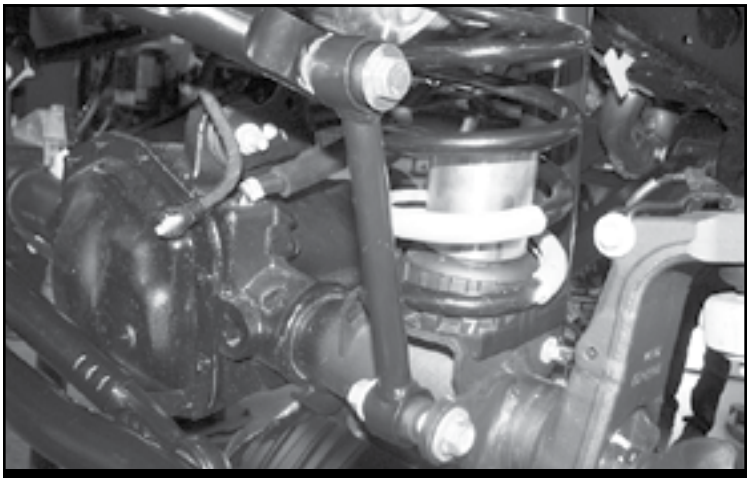

FIGURE 24 - STEP 23

24. Locate the factory brake line bracket on the front hydraulic brake line. This will need to be removed. Do so by cutting a small relief, then bend open. **NOTE: Use caution not to cut the brake line! SEE FIGURES 25-26**

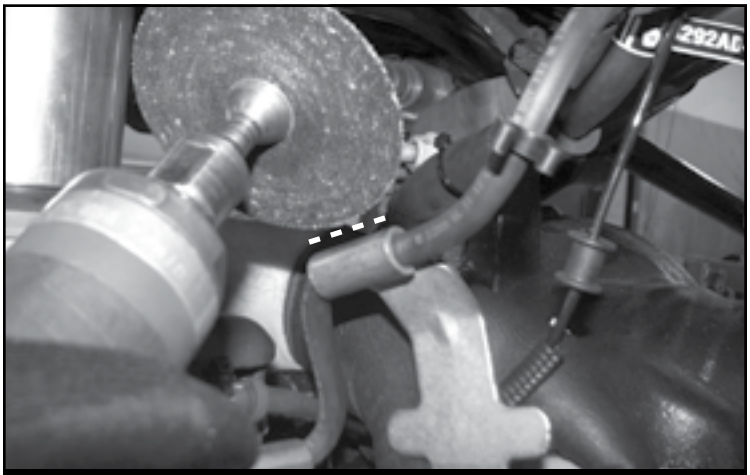

FIGURE 25 - STEP 24

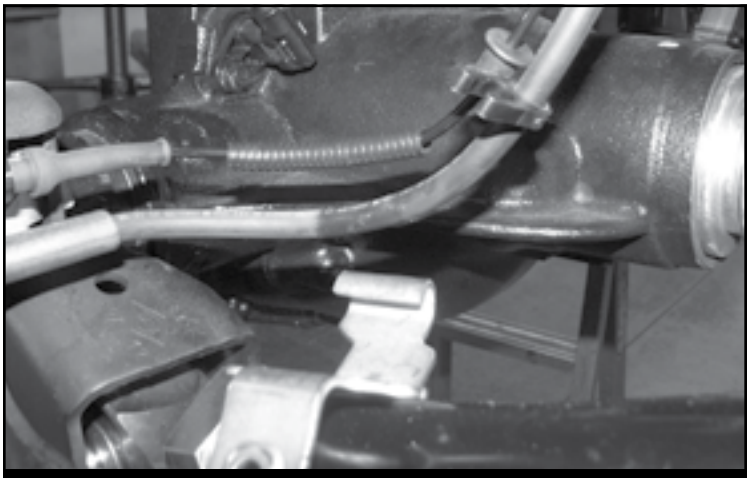

FIGURE 26 - STEP 24

25. Reinstall the diff breather hose by moving the metal clip up the hose 2” **SEE FIGURE 27** and the christmas tree fastener into the next hole down. **SEE FIGURE 28.**

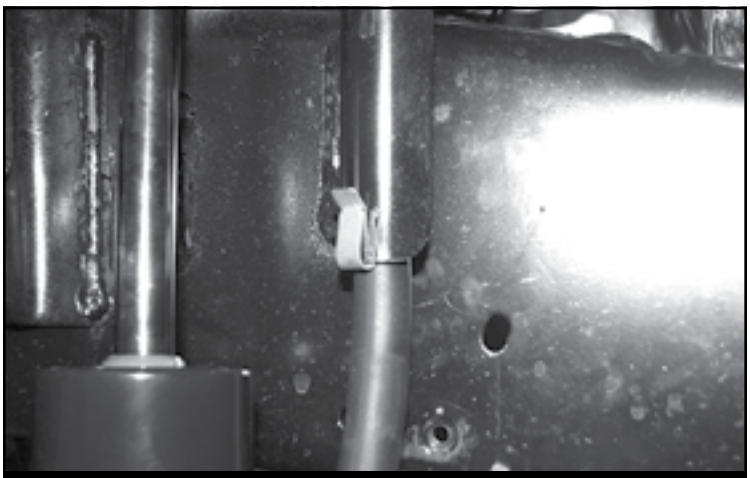

FIGURE 27 - STEP 25

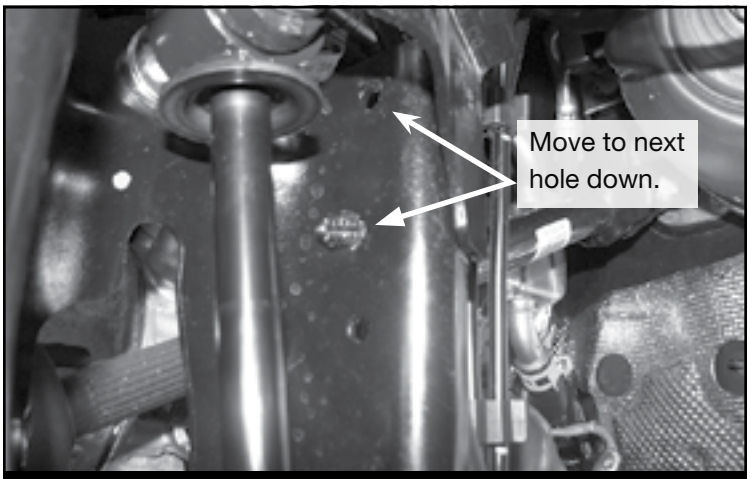

FIGURE 28 - STEP 25

26. **RUBICON MODELS ONLY: Reinstall the electrical connectors at the diff.**

- *REAR SUSPENSION* -

27. Jack up the rear end of the vehicle and support the frame rails with jack stands. NEVER WORK UNDER AN UNSUPPORTED VEHICLE! Remove the rear tires. Support the rear axle; do not allow axle to hang freely.

28. Remove the rear sway bar endlinks then remove the rear shocks and save hardware. Disconnect the rear brake line bracket from the frame. Save hardware.;

29. Disconnect the e-brake cables behind the rotor. **SEE FIGURE 29.** Next, Disconnect the brake line from the axle link pocket. **SEE FIGURE 30.**

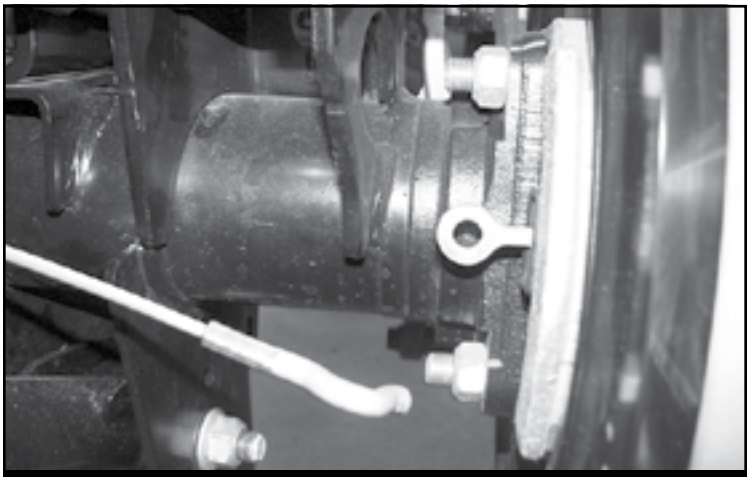

FIGURE 29 - STEP 29

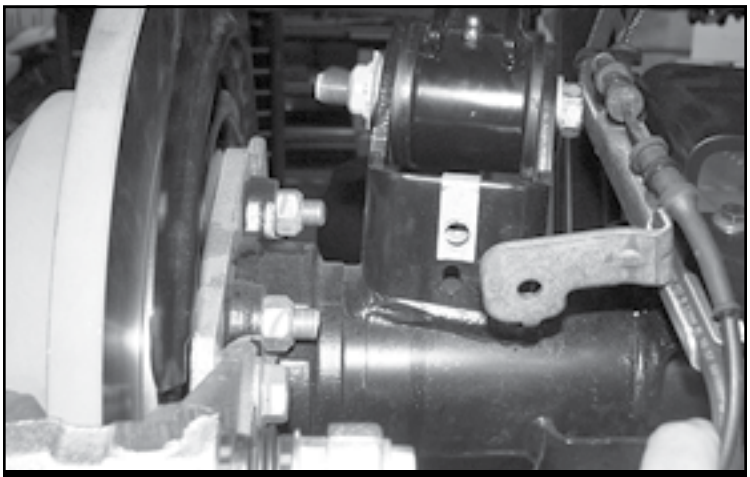

FIGURE 30 - STEP 29

30. Unplug the locker harness from the axle **(RUBICON MODELS ONLY) SEE FIGURES 31**

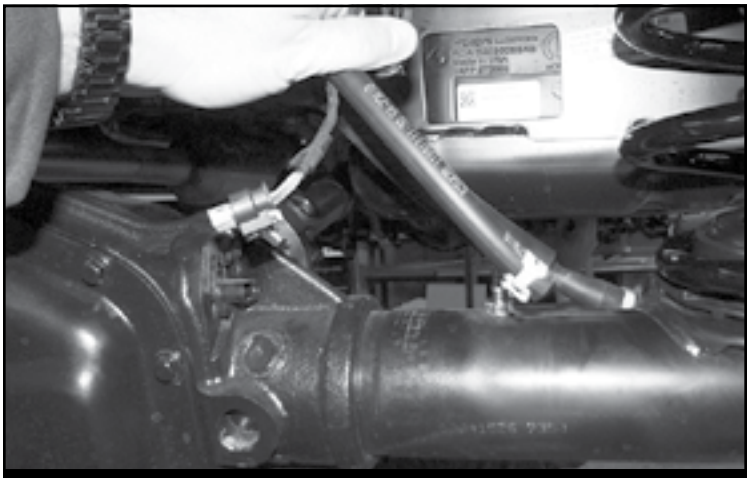

FIGURE 31 - STEP 30

31. Continue with the installation of FTS24225 Rear long arm kit at this time using the supplied instructions with that kit.

32. Disconnect the rear track bar from the axle and save hardware. Lower the rear axle and remove the factory coil springs.

33. Install the FT50724 (Rear bumpstop spacer) using the supplied 5/16” x 1” hardware. Torque to 25 ft-lbs **SEE FIGURE 32.**

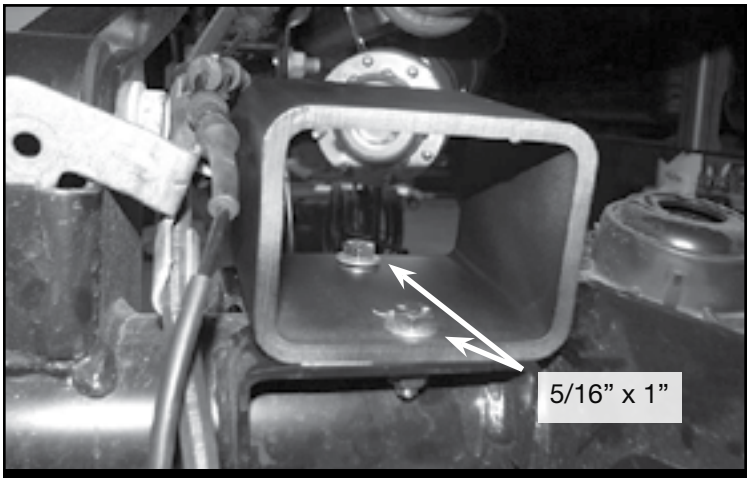

FIGURE 32 - STEP 33

34. Locate the factory rear track bar bracket. Mark a straight line on the front and back before the 90 degree bend. Remove the track bar from the axle bracket and cut the top section off. **SEE FIGURES 33-34**

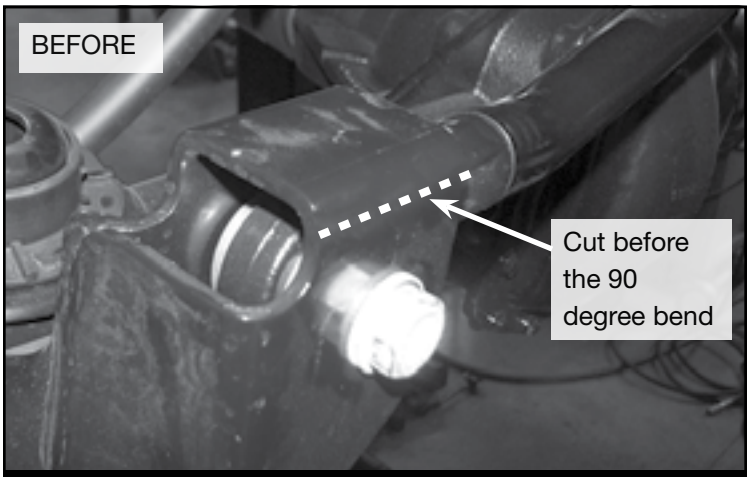

FIGURE 33 - STEP 34

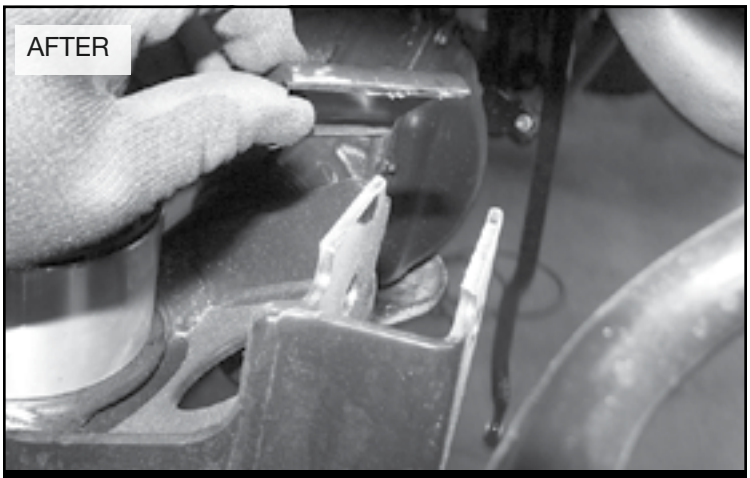

FIGURE 34 - STEP 34

35. Install the FT50597 (Rear track bar bracket) onto the factory bracket using the factory hardware and FT50592 (Track bar bracket sleeve). Tack weld the corners. **SEE FIGURES 35-37.**

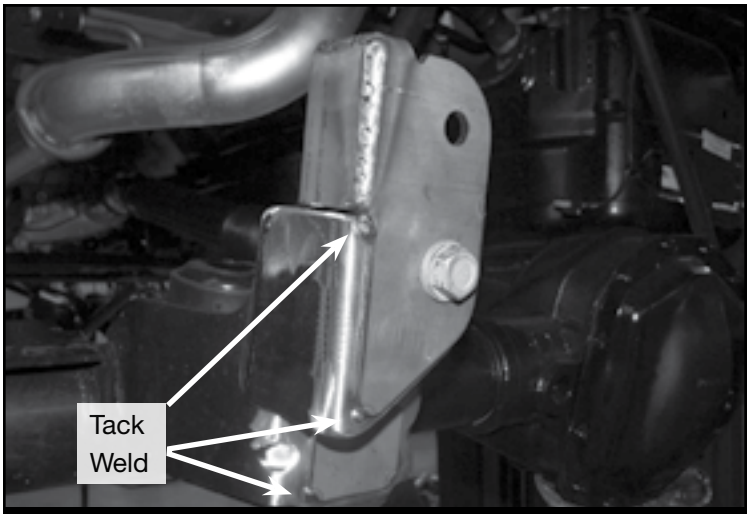

FIGURE 35 - STEP 35

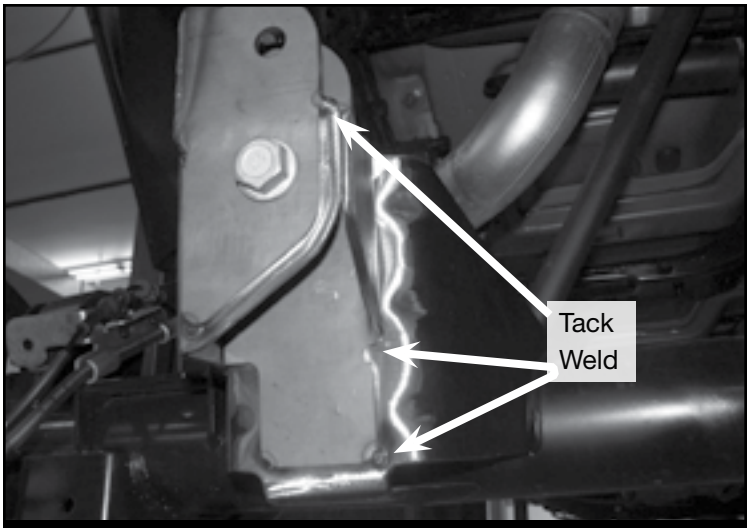

FIGURE 36 - STEP 35

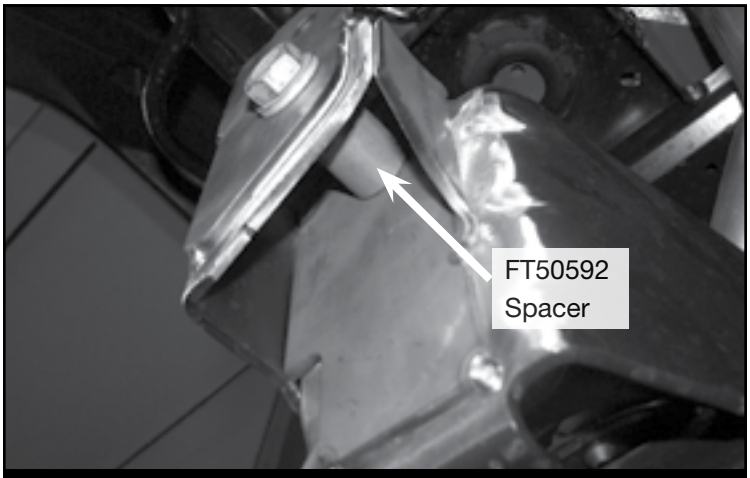

FIGURE 37 - STEP 35

36. Remove the bolt and sleeve and carefully weld the new bracket to the factory bracket on all sides. Allow to cool then paint. **SEE FIGURES 38-40**

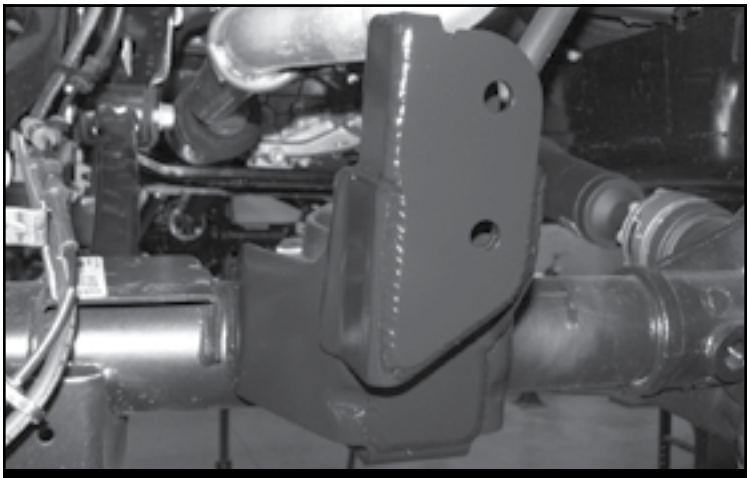

FIGURE 38 - STEP 36

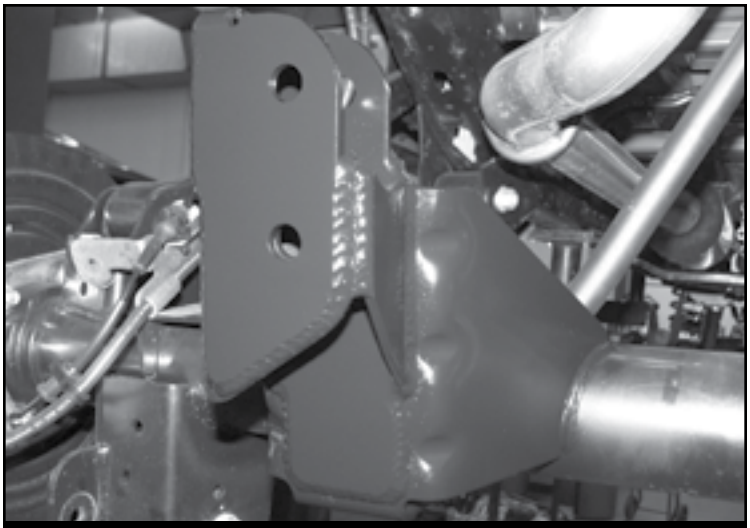

FIGURE 39 - STEP 36

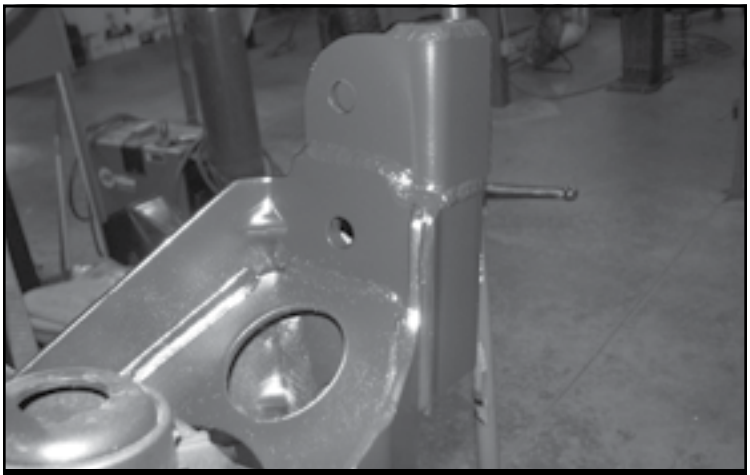

FIGURE 40 - STEP 36

37. Install FT50602 (Driver rear spring) on the driver side and FT50603 (Pass rear spring) on the passenger side using the factory isolators. **SEE FIGURES 41-42.**

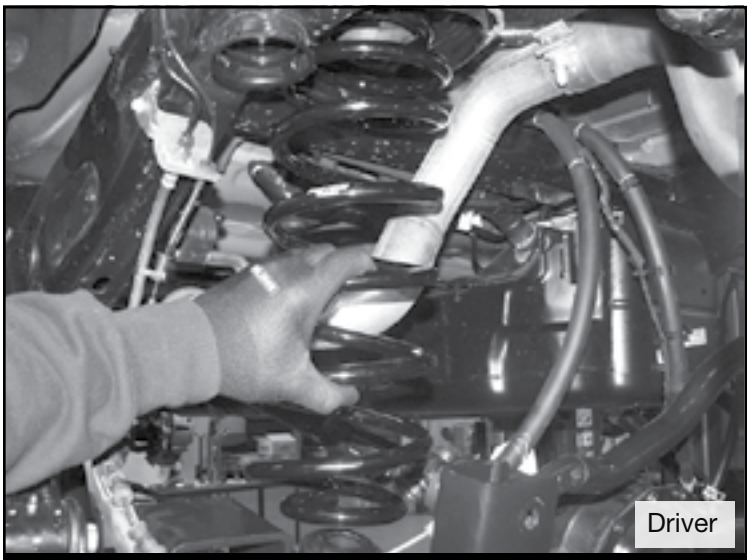

FIGURE 41 - STEP 37

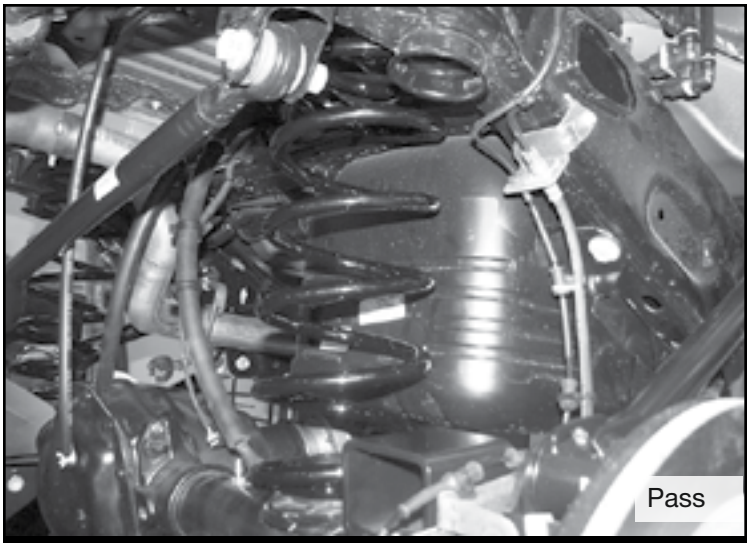

FIGURE 42 - STEP 37

38. Install the supplied 9/16” x 3” bolt, washers and nut along with the FT50592 (sleeve) for the lower track bar bracket hole. Then install the track bar to the new bracket using the factory bolt hardware. Torque both bolts to 153 ft-lbs. **SEE FIGURE 43**

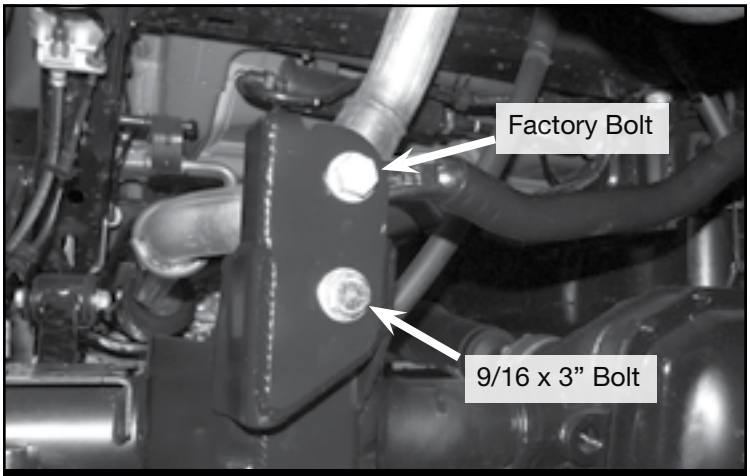

FIGURE 43 - STEP 38

39. Install FTS6355 (Stealth), FTS811432 (Dirt Logic) or FTS801432 (Dirt Logic Resi) shocks using the factory hardware. Torque to 100 ft-lbs. **SEE FIGURE 44**

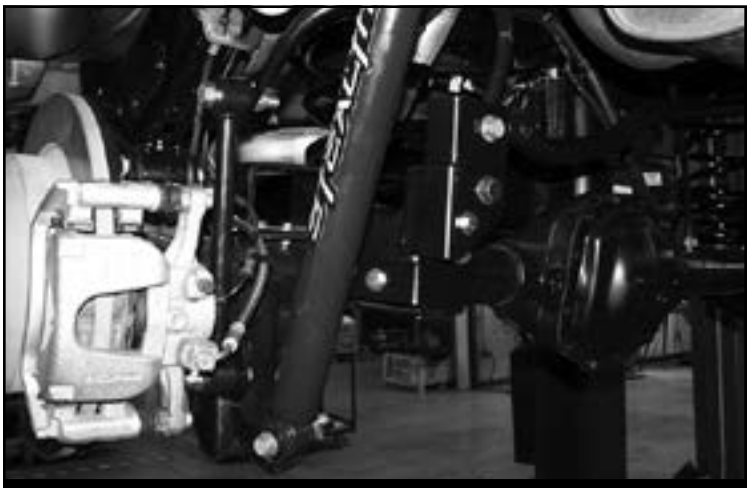

FIGURE 44 - STEP 39

40. Install the FT1004 (Half bushings) and FT404739 (Sleeves) into FT1599-2-4 (Rear sway bar links). Then, install the new links to the sway bar and sway bar mount on the axle using supplied M12 x 70mm hardware for the upper location and the factory for the lower. **NOTE: The new end link will need to be installed on the inside of the sway bar and axle mount.** Torque to 65 ft-lbs **SEE FIGURE 45**

FIGURE 45 - STEP 40

41. Install FT1599-1-5 (Brake line bracket) to the frame using the factory bolt. Next, install the factory brake line tab to the new bracket using the supplied 1/4” X 3/4” hardware. Torque to 8 ft-lbs. Reconnect the E-brake line, breather hose and factory locker (if equipped).

42. 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.**

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

44. Recheck all bolts for proper torque.

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

46. 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.**

47. 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 and Warnings -

Fabtech provides a Limited Lifetime Warranty to the original retail purchaser who owns the vehicle, on which the product was originally installed, for defects in workmanship and materials.

The Limited Lifetime Warranty excludes the following Fabtech items; bushings, bump stops, ball joints, tie rod ends, limiting straps, cross shafts, heim joints 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 and Performance Coilover take apart shocks are considered a serviceable shock with a one year warranty on leakage only. Service seal kits are available separately for future maintenance. All other shocks are covered under our Limited Lifetime Warranty.

Fabtech does not warrant any product for finish, alterations, modifications and/or installation contrary to Fabtech's instructions. Alterations to the finish of the parts including but not limited to painting, 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. (A "RACE" is defined as any contest between two or more vehicles, or any contest of one or more vehicle against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America.

Installation of most suspension products will raise the center of gravity of the vehicle and will cause the vehicle to handle differently than stock. It may increase the vehicle's susceptibility to a rollover, on road and off road, at all speeds. Extreme care should be taken to operate the vehicle safely at all times to prevent rollover or loss of control resulting in serious injury or death. Fabtech front end Desert Guards may impair the deployment or operation of vehicles equipped with supplemental restraining systems/air bag systems and should not be installed if the vehicle is equipped as so.

Fabtech makes every effort to ensure suspension product compatibility with all vehicles listed on the website, but due to unknown auto manufacturer's production changes and/or inconstancies by the auto manufacturer, Fabtech cannot be responsible for 100% compatibility, including the fitment of tire and wheel sizes listed. The Tire and Wheel sizes listed in Fabtech's website are only a guideline for street driving with noted fender trimming. Fabtech is not responsible for damages to the vehicle's body or tires. Fabtech is not responsible for premature wear of factory components due to the installation of oversized tires and wheels.

Fabtech's obligation under this warranty is limited to the repair or replacement, at Fabtech option, of the defective product only. All costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty. Fabtech is not responsible for damages and/or warranty of other vehicle parts related or non related to the installed Fabtech product. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by Fabtech.

Fabtech suspension components must be installed as a complete system including shocks as shown on our website. All warranties will become void if Fabtech parts are combined and/or substituted with other aftermarket suspension products. Combination and/or substitution of other aftermarket suspension parts may cause premature wear and/or product failure resulting in an accident causing injury or death. Fabtech does not warrant products not manufactured by Fabtech.

Depending on the condition of the factory suspension components retained after the installation of a Fabtech suspension not all vehicles may have the same ride stance front to rear as described in the website. The blue color of suspension components shown in all Fabtech photographs are for display purposes only. Majority of all Fabtech components will be black specifically where noted with part numbers ending in BK.

Installation of Fabtech product may void the vehicles factory warranty; it is the consumer's responsibility to check with their local vehicle's dealer for warranty disposition before the installation of the product. Some state laws may prohibit modification of suspension to a vehicle in whole or in part. It is the responsibility of the installer and consumer to consult local laws prior to the installation of any Fabtech suspension product to comply with such written laws.

It is the responsibility of the distributor and/or the retailer to review all warranties and warnings of Fabtech products with the consumer prior to purchase.

Fabtech reserves the right to super cede, discontinue, change the design, finish, part number and/or application of parts when deemed necessary without written notice. Fabtech is not responsible for misprints or typographical errors within the website or price sheet. For the most recent Product Warranty and Warnings visit our website www.fabtechmotorsports.com