



INSTALLATION INSTRUCTIONS

**2014-2017 DODGE RAM 2500/3500
5-7" 4.0 DLSS CONVERSION KIT**

FT23119i

NOTE: THIS KIT REQUIRES WELDING

**- PARTS LIST -
4.0 DLSS CONVERSION KIT**

FTS23119		COMPONENT BOX 1
1	FT44390BK	RESI MOUNT (DRIVER)
1	FT44391BK	RESI MOUNT (PASSENGER)
1	FT44314	ABS RELOCATION BRACKET (DRIVER)
1	FT44311BK	UPPER COIL OVER MOUNT (DRIVER)
1	FT44312BK	UPPER COIL OVER MOUNT (PASSENGER)
1	FT44394BK	UPPER BACKING PLATE (DRIVER)
1	FT44395BK	UPPER BACKING PLATE (PASSENGER)
1	FT44424	HARDWARE SUBASSEMBLY
1	FT44422	HARDWARE SUBASSEMBLY
1	FT44423	HARDWARE KIT

FT44422		HARDWARE SUBASSEMBLY
4	FT89016	#64 HOSE CLAMP 3-9/16 - 4-1/2
2	FT44389	NUT TAB (LOWER MOUNT)
1	FT44388	NUT TAB (UPPER MOUNT)
2	FT44045	NUT TAB
1	FT44408	SPACER SLEEVE 1.00 X .625 X 2.035
1	FT23119i	INSTRUCTIONS
1	FTAS12	STICKER FT BLUE 10X4 DIE CUT
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD

FT44424		HARDWARE SUBASSEMBLY
1	FT44381	DRIVER OUTER GUSSET
1	FT44382	DRIVER INNER GUSSET
1	FT44383	PASSENGER OUTER GUSSET
1	FT44384	PASSENGER INNER GUSSET
1	FT44385	SPACING TOOL
1	FT44386	DRIVER TOP GUSSET
1	FT44387	PASSENGER TOP GUSSET

FT44423 - HARDWARE KIT		LOCATION
10	7/16-14 X 1-1/2 HEX BOLT G8	
2	7/16 SPLIT LOCK WASHER	
1	7/16-14 X 1-1/4 HEX BOLT G8	
2	7/16 USS WASHER G8	
20	7/16 SAE WASHER G8	
9	7/16-14 C-LOCK NUT	
2	5/8-11 X 3-1/4 HEX BOLT G8	
2	5/8 SAE WASHER G8	
2	5/8-11 X 4 SOCKET HD BOLT	
2	5/8-11 C-LOCK NUT	
4	5/8 SAE WASHER	
2	3/8-16 X 1-1/4 HEX BOLT	
2	3/8-16 C-LOCK NUT	
4	3/8 SAE WASHER	
2	1/4-20 X 1 HEX BOLT	
2	1/4-20 NYLOCK NUT	
4	SAE WASHER	
1	THREAD LOCKING COMPOUND	



- 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
- Welder
- Barrel Sander
- Drill w/ assorted drill bits
- Black spray paint

- PRE-INSTALLATION NOTES -

READ THIS BEFORE YOU BEGIN INSTALLATION -

Check all parts to the parts list above before beginning installation.

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.

- IMPORTANT NOTICE -

This Coilover Conversion requires critical welding for installation that must be performed by a professional certified welder. The weld on Coilover axle mounts will support the entire vehicle and therefore requires proper weld penetration and uniformity to ensure safety.

- 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. Supporting the front axle, disconnect the track bar, sway bar end links and brake lines brackets from the axle housing. Remove shocks, coil springs, and rubber isolators.
3. Unbolt the ABS control box (2 front bolts, 1 back side bolt) from the bracket on the top of the drivers side upper coil spring mount. Locate the cut-out template on page 13. Using the template on the upper coil spring mount, mark the outer diameter and cut. Using a barrel sander, sand edges to a smooth finish. **SEE FIGURE 1-2**

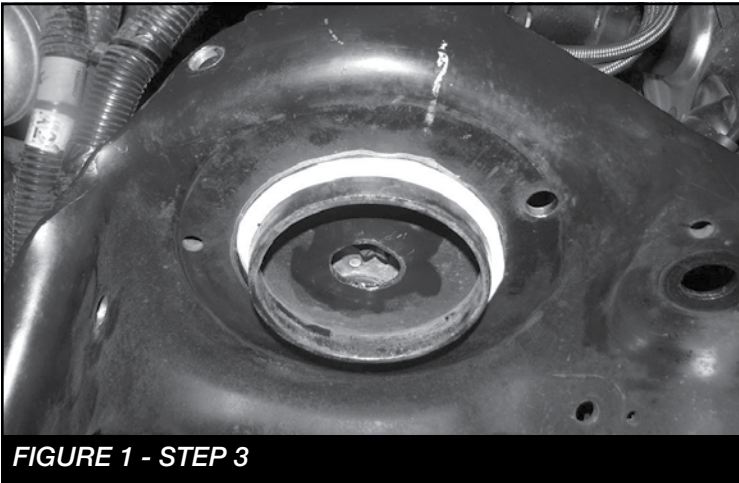


FIGURE 1 - STEP 3



FIGURE 2 - STEP 3

4. Using a cut off wheel, cut the factory ABS bracket off the upper coil spring perch. Remove the 2 bushings and save for later. **SEE FIGURE 3-4**



FIGURE 3 - STEP 4



FIGURE 4 - STEP 4

5. Locate FT44311BK (Driver Coilover Bracket), FT44394BK (Driver Backing Plate) and 7/16" hardware. Using (1) 7/16" bolt and nut. Mount the FT44311BK (Coilover bracket) using the existing hole and mark the other front outside hole from the top. Also, mark the side hole for drilling. Remove the FT44394BK (Coilover bracket) and drill the previous marked holes to 1/2". **SEE FIGURES 5-8**

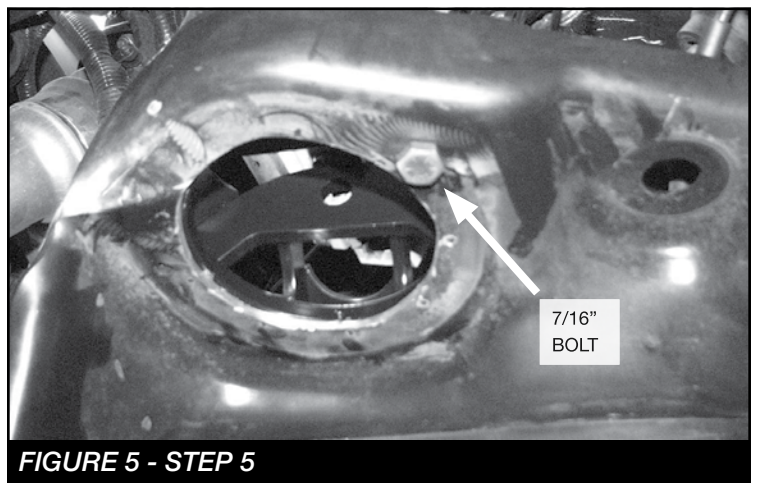


FIGURE 5 - STEP 5

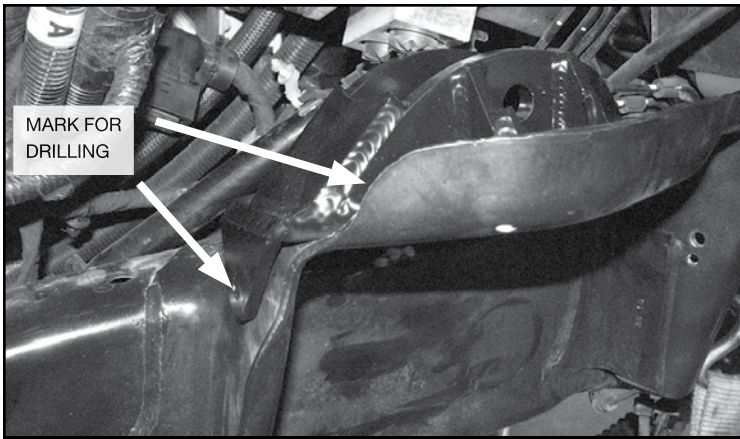


FIGURE 6 - STEP 5

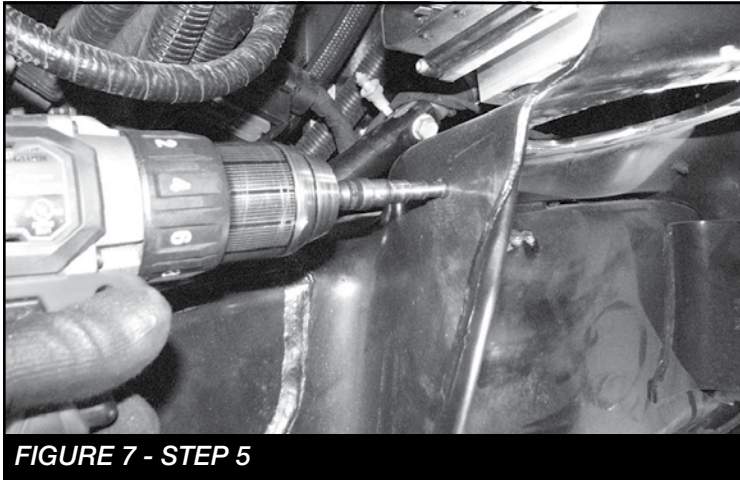


FIGURE 7 - STEP 5

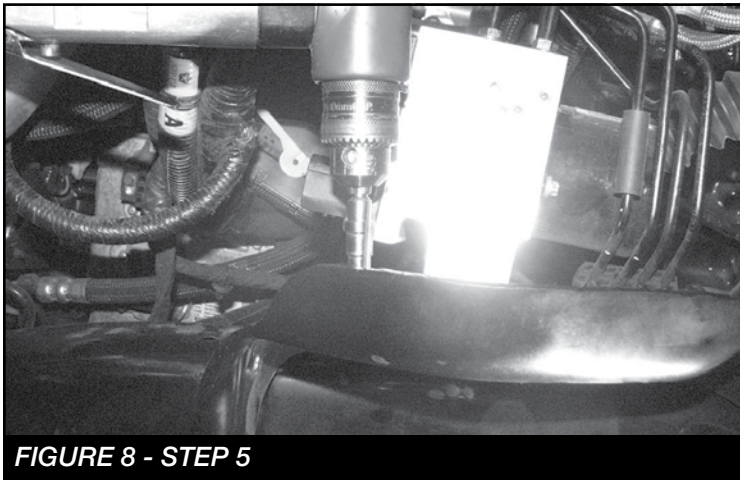


FIGURE 8 - STEP 5

6. Next, install the FT44394BK (Upper backing plate) with (2) 7/16" bolts and hardware and mark/drill the inside holes to 1/2". **NOTE: Use caution not to drill into the ABS actuator unit.** Remove the FT44394 and paint bare surfaces. **SEE FIGURES 9-10**

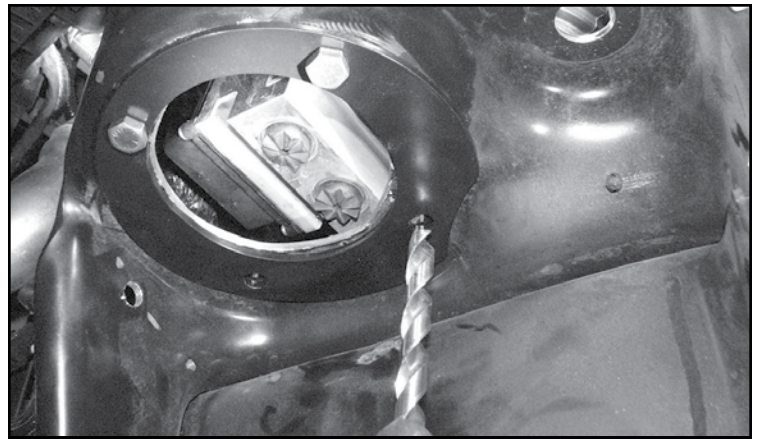


FIGURE 9 - STEP 6

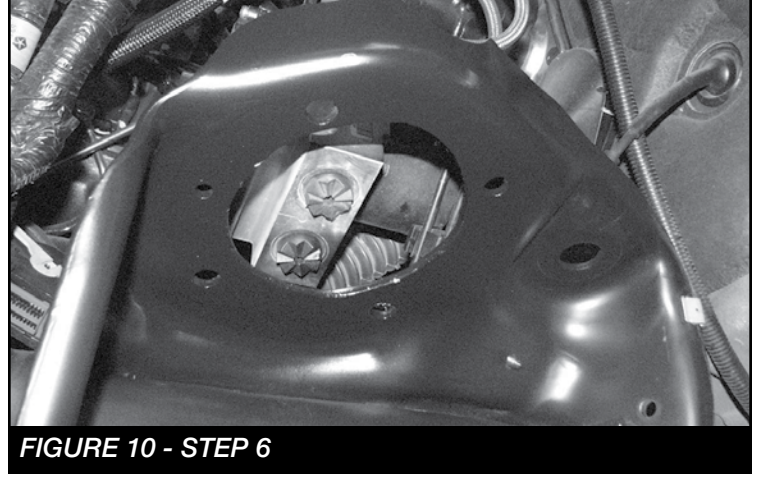


FIGURE 10 - STEP 6

7. Repeat steps 3-6 on the passenger side using FT44312BK and FT44395BK. **NOTE: Passenger side does not have ABS unit or bracket to be removed.**

8. The lower coil spring perch will need to be removed. Mark and cut at the factory welds on all 4 sides. **SEE FIGURES 11-12.**

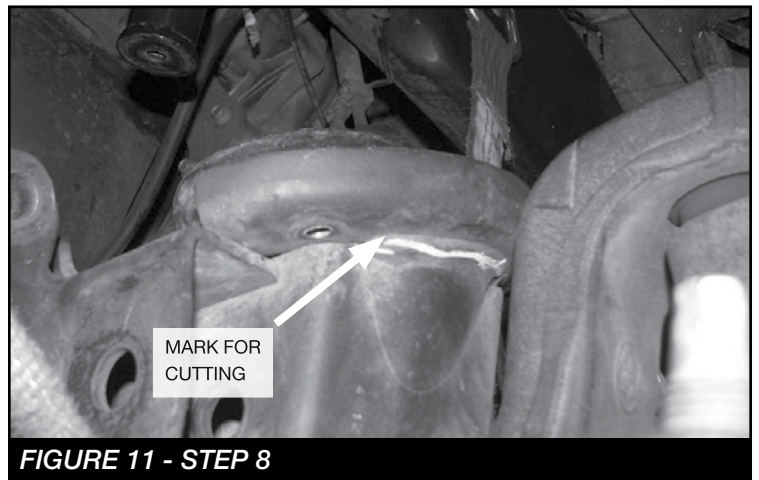


FIGURE 11 - STEP 8

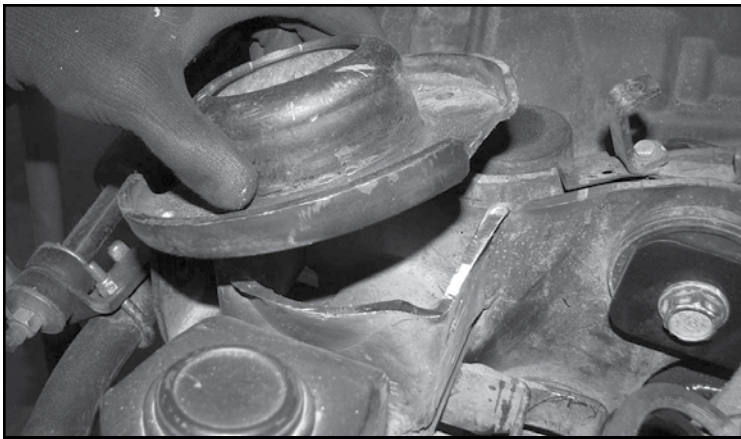


FIGURE 12 - STEP 8

9. Once the lower coil spring perch has been removed, locate the back of the axle bracket and mark from the bottom 3.25" (outside) and 2.75" (inside). Cut and sand to a smooth finish. **SEE FIGURE 13**

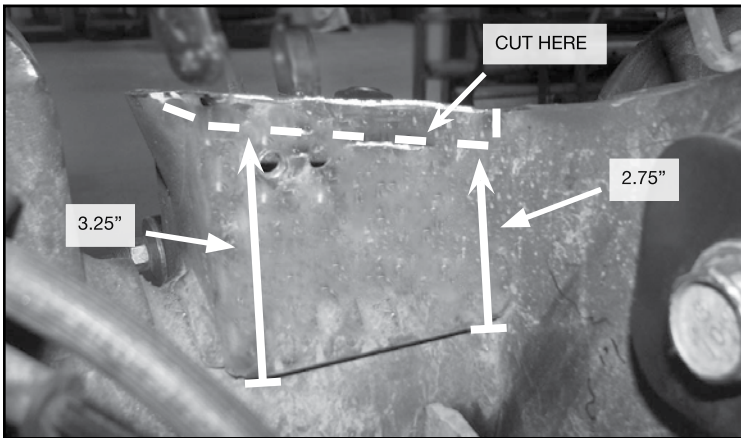


FIGURE 13 - STEP 9

10. On the inside of the spring perch support, measure 1.25" from the front and mark, next measure 2.25" from that mark. Measure 2.375" from the front, from there measure 1.25" down and mark. Radius the 3 marks like shown in **FIGURE 14**. Carefully cut the support. **NOTE: Cutting will need to be done to both plates, the one you marked and the one behind.** **SEE FIGURE 15**. Sand to a smooth finish.

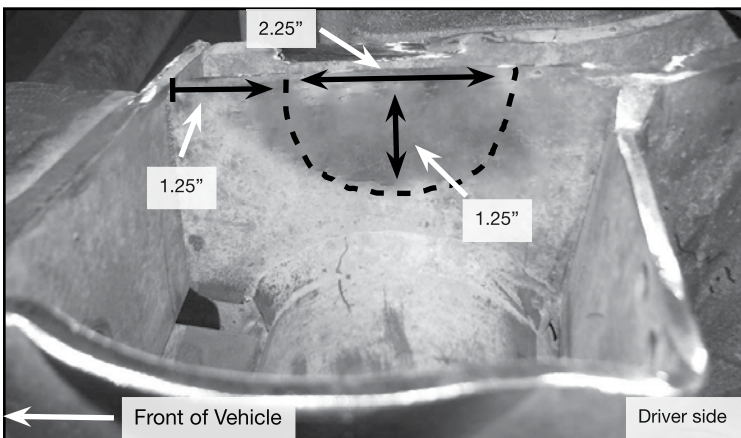


FIGURE 14 - STEP 10

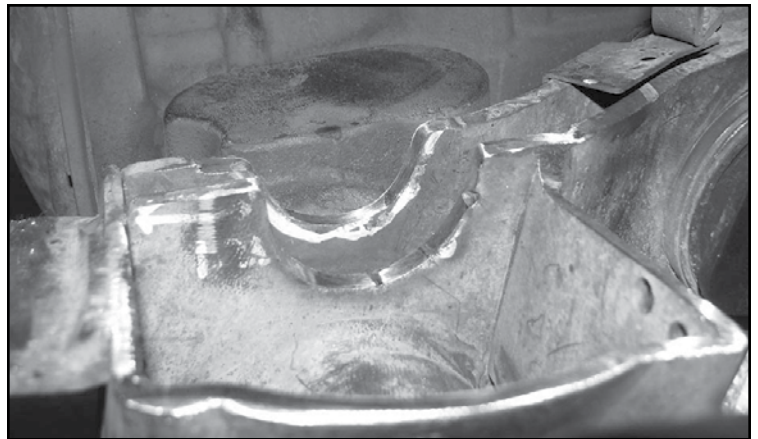


FIGURE 15 - STEP 10

11. **(DRIVER SIDE)** Locate the 5/8" X 3-1/4" bolt. Install the following parts in order. FT44385 (spacing tool), FT44382 (driver inner gusset), FT44408 (spacer sleeve) and FT44381 (driver outer gusset), washer and nut. **SEE FIGURES 16-20**

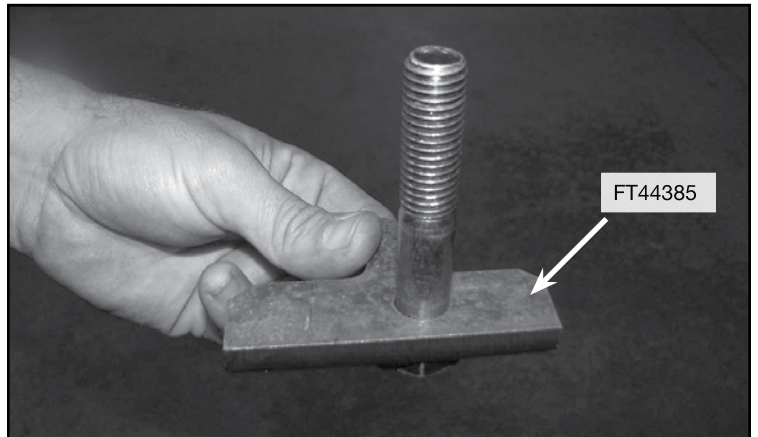


FIGURE 16 - STEP 11

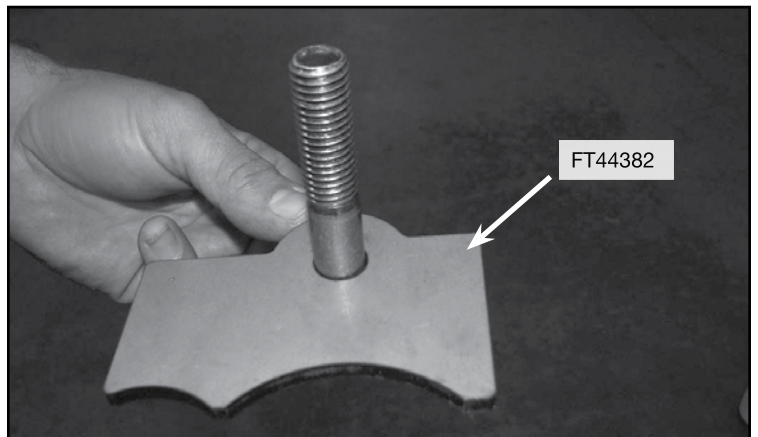


FIGURE 17 - STEP 11

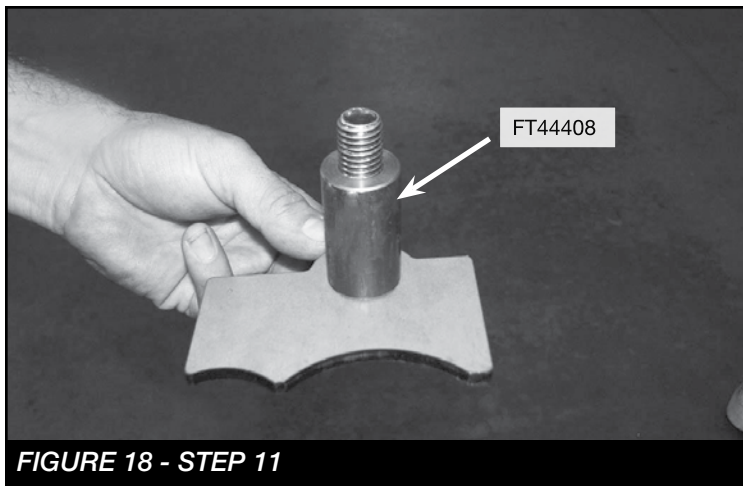


FIGURE 18 - STEP 11

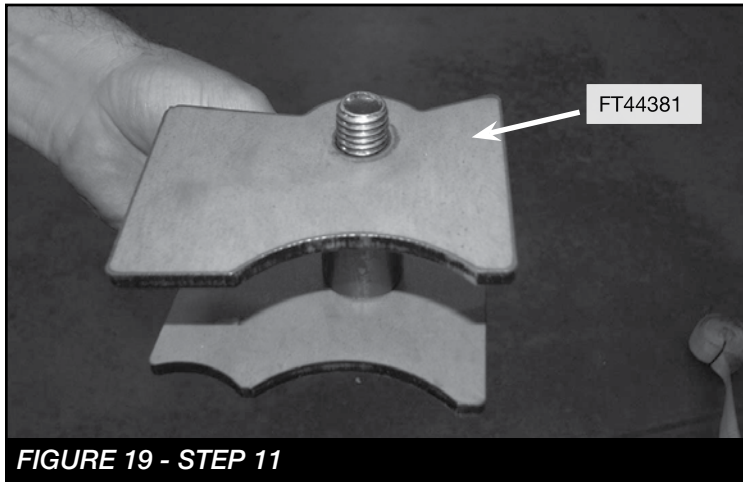


FIGURE 19 - STEP 11

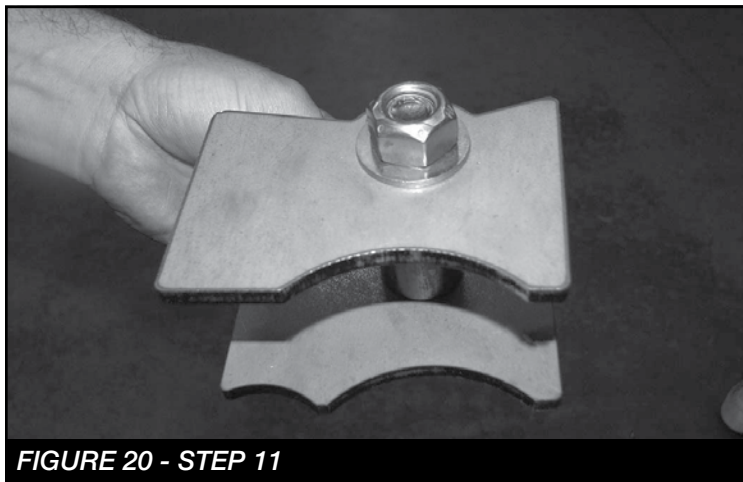


FIGURE 20 - STEP 11

12. **NOTE: Clean the inside of the spring perch support and axle tube, prep for welding.** Install the assembly in the spring perch support and tack weld only the FT44382 (inner gusset) and FT44381 (outer gusset). Next, remove the 5/8" bolt, FT44385 (spacing tool) and FT44408 (spacing sleeve) and save for passenger side installation. **SEE FIGURES 21-22**

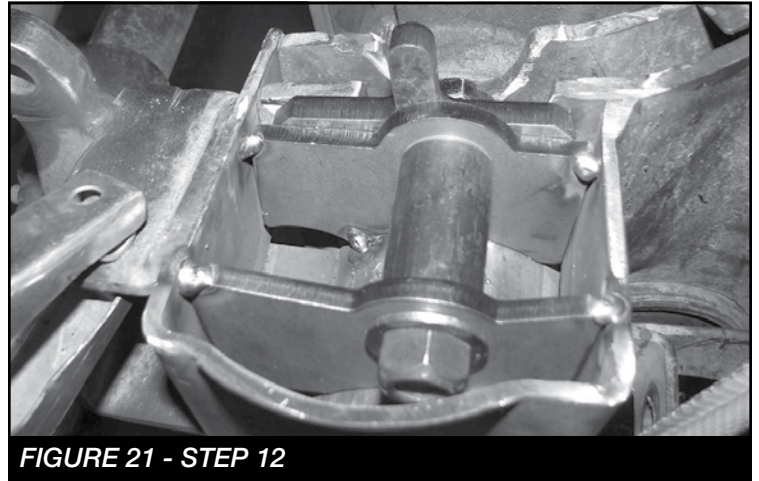


FIGURE 21 - STEP 12

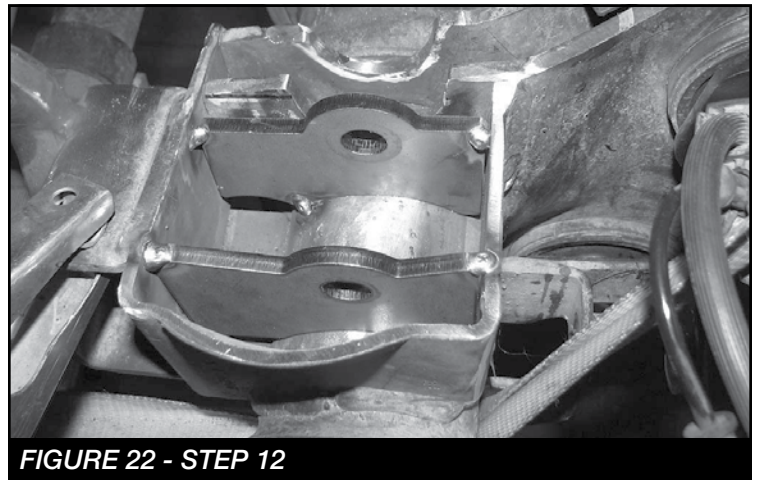


FIGURE 22 - STEP 12

13. **NOTE: THIS STEP IS TO BE PERFORMED BY A CERTIFIED WELDING TECHNICIAN ONLY!!!** Weld the gussets into the spring perch support and to the axle tube. **SEE FIGURE 23**

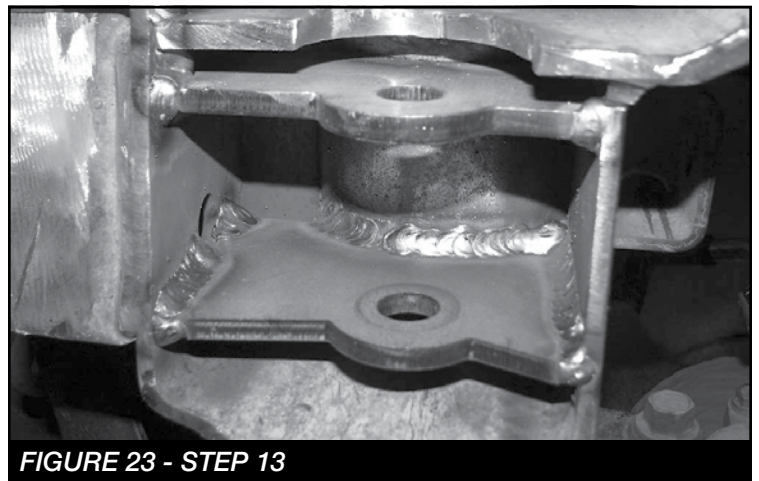


FIGURE 23 - STEP 13

14. Locate FT44386 (driver top gusset) and tack weld into place. **SEE FIGURE 24.** Next, weld the top gusset completely in, then paint all raw parts. **SEE FIGURE 25**

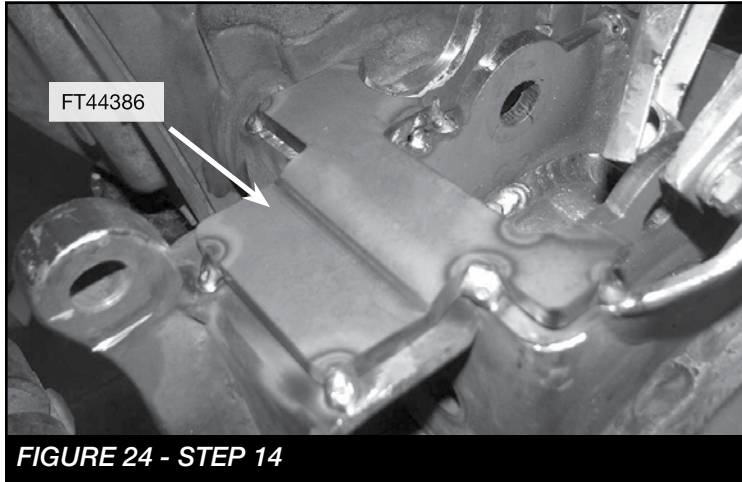


FIGURE 24 - STEP 14



FIGURE 25 - STEP 14

- REPEAT STEPS 8-10 ON PASSENER SIDE.

15. Locate the 5/8" x 3-1/4" bolt. Install in the following order: FT44385 (spacing tool), FT44384 (passenger inner gusset), FT44408 (spacing sleeve), FT44383 (passenger outer gusset), washer and nut. **SEE FIGURE 26**

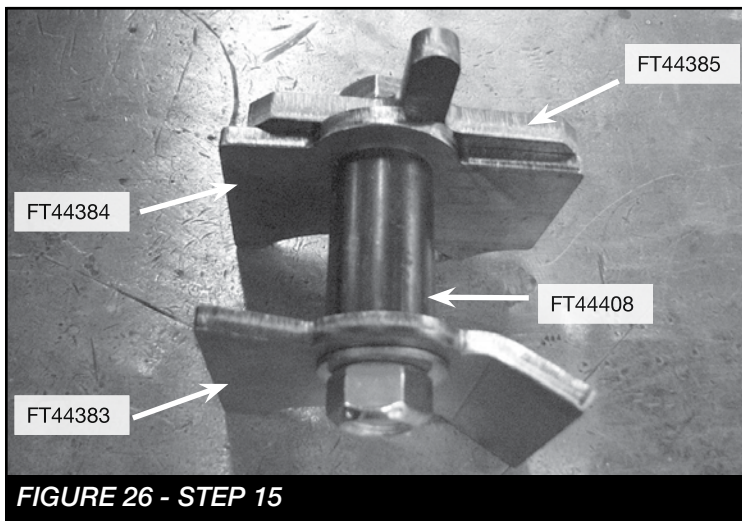


FIGURE 26 - STEP 15

16. Install the assembly into the passenger side spring perch support and tack weld FT44384 (inner gusset) and FT44383 (outer gusset). Remove and save the 5/8" hardware. You can discard the FT44385 (spacing tool) and FT44408 (spacing sleeve). **Completely weld the gussets into the spring perch support and axle tube. SEE FIGURE 27-28**

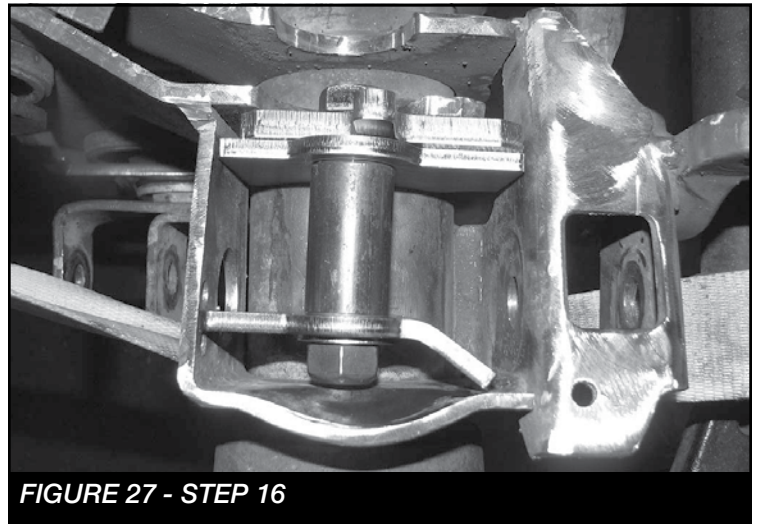


FIGURE 27 - STEP 16

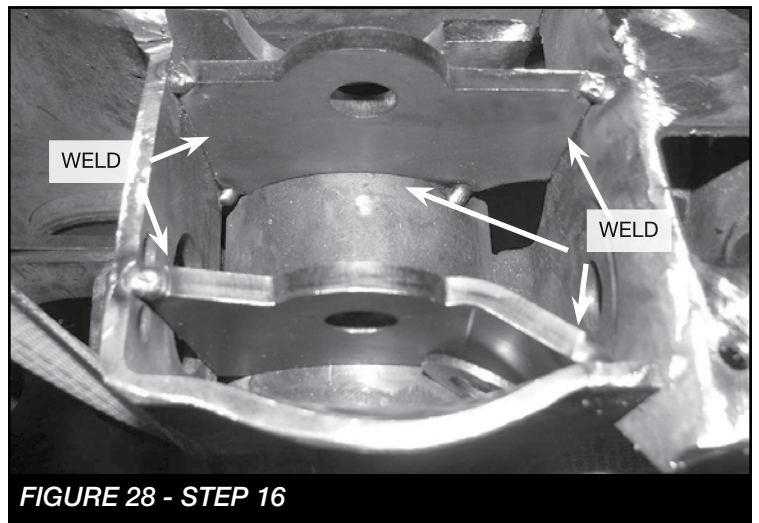


FIGURE 28 - STEP 16

17. Locate FT44387 (Passenger top gusset) and tack weld into place. **SEE FIGURE 29.** Next, weld the top gusset completely in, then paint all raw parts.



FIGURE 29 - STEP 17

18. **(DRIVER SIDE)** Locate FTS835102 or FTS835122 (4.0 Dirt Logic Coilover), and FT44394BK (driver upper backing plate). **NOTE: Avoid scratching the reservoir can by taping it up.** **NOTE: USE EXTRA CARE WITH THE RESI HOSE AND FITTINGS WHEN INSTALLING.** Using the help of another person. Install the FT44394BK (backing plate) onto the top of the coilover by installing the resi through it. Next, carefully install the resi through the hole previously opened up on the upper spring mount. **SEE FIGURE 30-31**

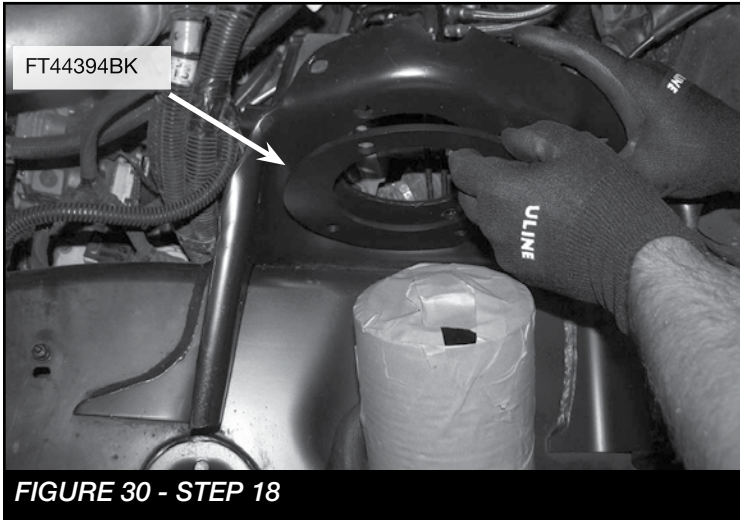


FIGURE 30 - STEP 18

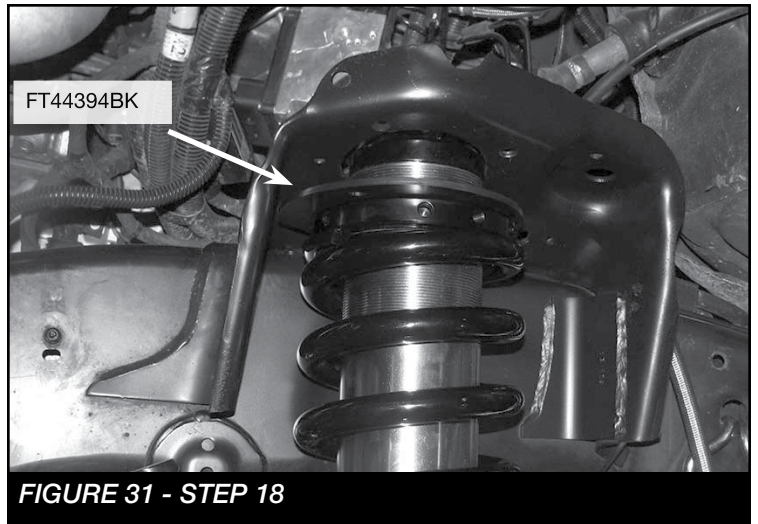


FIGURE 31 - STEP 18

19. Locate and install the misalignments into the top of the coilover. Install the FT44311BK (upper coilover mount driver) and FT44314 (ABS Bracket) to the Fabtech coilover using the supplied 5/8" x 4" button head bolt and hardware. **LEAVE LOOSE.** **NOTE: The resi hose needs to be oriented towards the rear of the vehicle.** **SEE FIGURE 32**

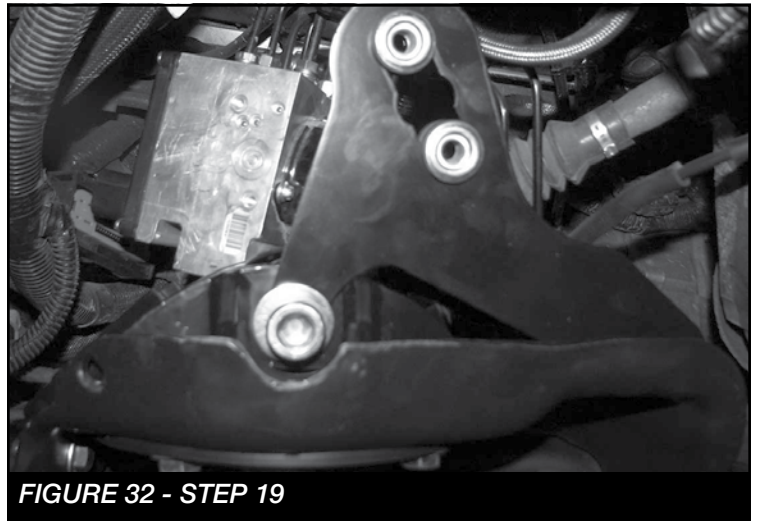


FIGURE 32 - STEP 19

20. Install the supplied (4) 7/16" x 1-1/2" hardware from the bottom of the mount. **NOTE: Use (2) FT44045 (nut tab) for the outer holes.** Torque to 83 ft-lbs. **SEE FIGURES 33-34**

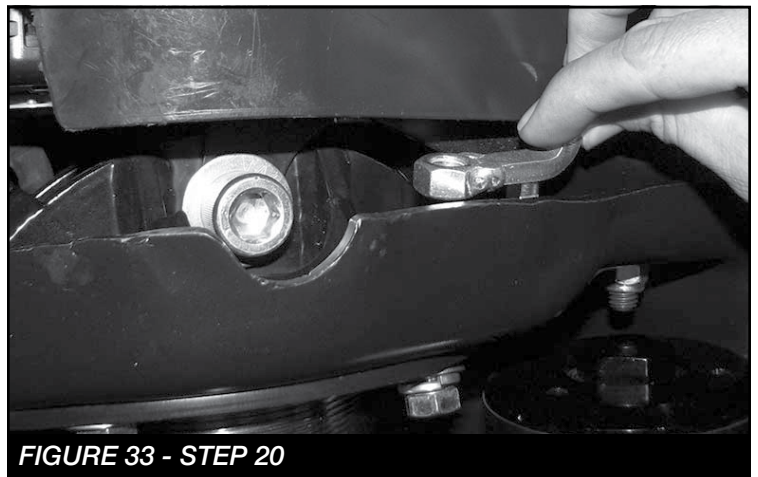


FIGURE 33 - STEP 20

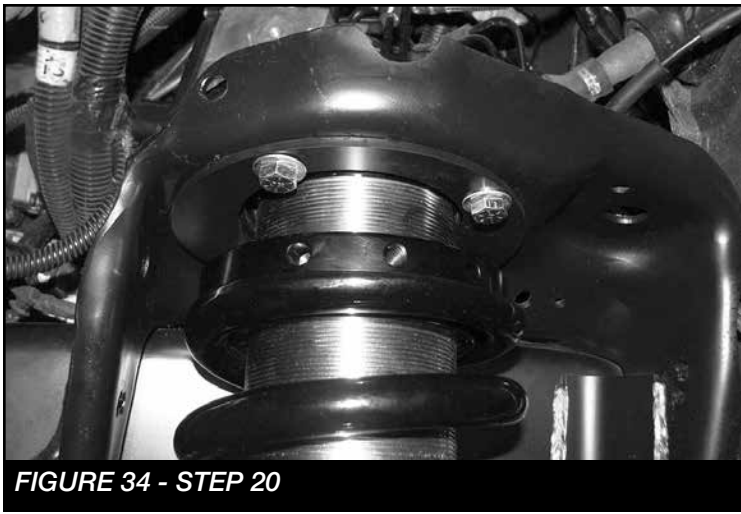


FIGURE 34 - STEP 20

21. Install the 7/16" x 1-1/4" bolt, 7/16" USS washers and nut through the ABS bracket and the hole where the factory shock was located. Torque to 83 ft-lbs. Next, Torque the 5/8" bolt to 179 ft-lbs. **SEE FIGURES 35**

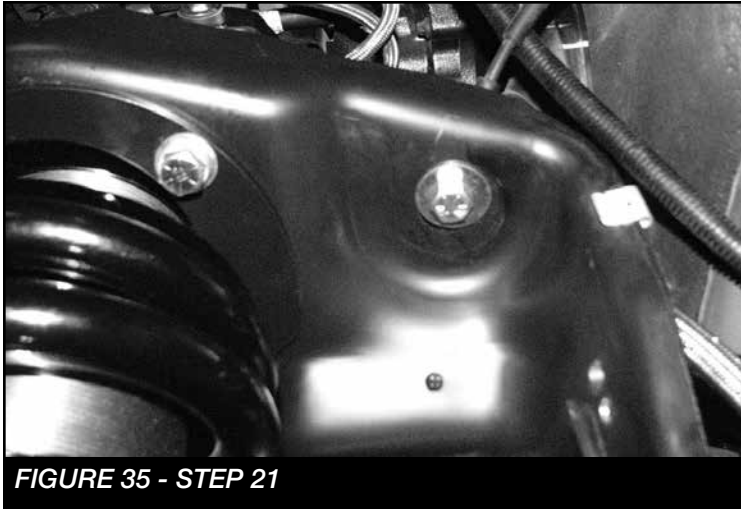


FIGURE 35 - STEP 21

22. Install the factory bushings into the new Fabtech ABS bracket that were removed in Step 4. Reinstall the ABS actuator with the factory bolts. **SEE FIGURE 36**



FIGURE 36 - STEP 22

23. Install the misalignment spacers onto the coilover and install the into the axle mount using the supplied 5/8" x 3-1/4" bolt, washers and FT44389 (Nut Tab). Torque to 179 ft-lbs **SEE FIGURE 37**



FIGURE 37 - STEP 23

24. Locate the existing holes on the factory coil bucket. Drill the top hole out to 3/8". Install the FT44390BK (Resi Mount Driver) using the supplied 3/8" x 1-1/4" and 1/4" x 1" hardware. **SEE FIGURES 38-39**

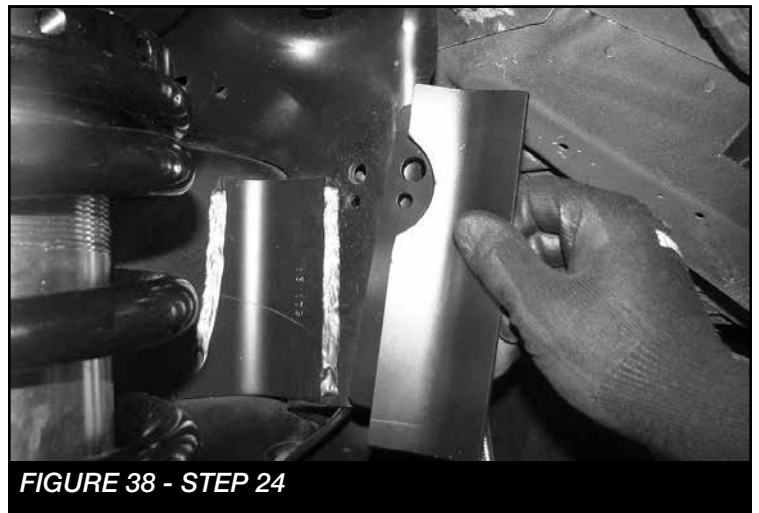


FIGURE 38 - STEP 24



FIGURE 39 - STEP 24

25. Install the coilover Resi to the Resi mount using the supplied hose clamps. **SEE FIGURE 40**

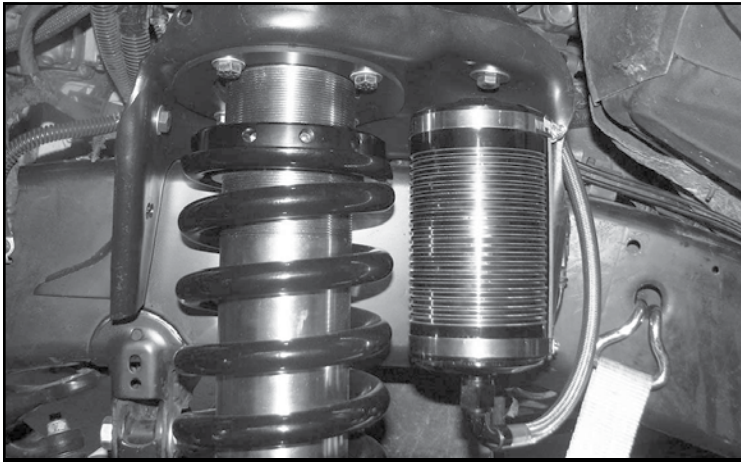


FIGURE 40 - STEP 25

- **REPEAT STEPS 18-25 ON THE PASSENGER SIDE. NOTE: Disregard steps pertaining to the ABS bracket.**
26. When installing the 5/8" x 4" Socket Head bolt on the passenger side upper coilover mount. Use FT44388 (Nut Tab).
27. Before installing the track bar to the axle. The factory nut tab will need to be cut. Trim 1-1/2" off the end and reinstall. **SEE FIGURE 41**

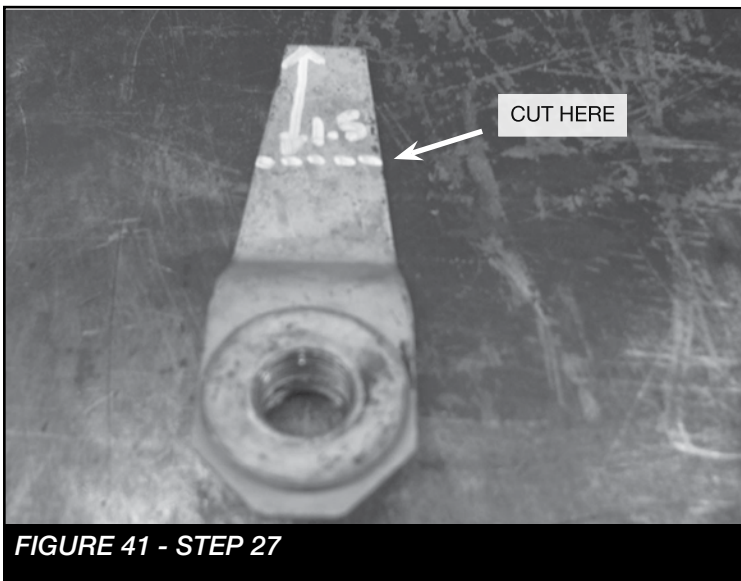


FIGURE 41 - STEP 27

28. Reinstall inner fender liners.
29. 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.**
30. Check front end alignment and set to factory specifications. Readjust headlights.
31. Recheck all bolts for proper torque.

32. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
33. 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.**
34. 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.

4.0 COILOVER CONVERSION TEMPLATE

PRINT AT 100% - DO NOT SCALE TO PAGE

