

## INSTALLATION INSTRUCTIONS

FTS26107 3" TOYOTA TUNDRA SPACER KIT (REAR AIR)		
2	FT70304	FRONT SPACER
1	FT70311	REAR AIR SPACER (DRIVER)
1	FT70312	REAR BUMP STOP BRACKET (DRIVER)
1	FT70313	REAR BUMP STOP BRACKET (PASSENGER)
1	FT70315	REAR AIR SPACER (PASSENGER)
1	FT70316	REAR AIR SENSOR BRACKET (DRIVER)
1	FT70317	REAR AIR SENSOR BRACKET (PASSENGER)
1	FT70322	HARDWARE SUBASSEMBLY

FT70322 HARDWARE SUBASSEMBLY		
1	FT1599-1-5	REAR BRAKELINE TAB
1	FT26107i	INSTRUCTIONS
2	FT44245	BRAKELINE BRACKET
2	FT70174	BUMPSTOP SPACER
2	FT70319	BODY MOUNT WELD IN PLATE
1	FT70323	HARDWARE KIT
2	FT81111	FRONT BUMPSTOP SPACER
2	FT83239	SLEEVE 1.500 X .760 X .300
2	FT83267	3/4" BUSHING
2	FT89034	REAR BUMPSTOP SPACER
1	FTAS12	STICKER 10X4
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD

FT70323 - HARDWARE KIT		LOCATION
14	3/8-16 C-LOCK NUT	
14	3/8" SAE WASHER	
2	3/8-16 X 1" HEX BOLT	
4	COTTER PIN 1/8" X 2"	
2	COTTER PIN 5/32" X 2"	
4	M8-1.25 X 60MM HEX BOLT	
4	M8 FLAT WASHER	
4	M8 SPLIT LOCK WASHER	
5	1/4-20 X 1" HEX BOLT	
10	1/4" SAE WASHER	
5	1/4-20 C-LOCK NUT	
1	THREAD LOCKING COMPOUND	

## 2022-2024 TOYOTA TUNDRA 4WD 3" SPACER KIT W/ REAR AIR FTS26107

**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](http://www.fabtechmotorsports.com)

## - 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
- Welder
- Recipricating saw/ Cut-off wheel
- 1/4" Air/Fuel Line Disconnect Tool

## - 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 -**

- Does not fit hybrid models
- Fits CrewMax models only
- Does not fit models equipped with Adaptive Variable Suspension (AVS) shocks

# - 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 cotter pin from the tie rod end ball joint. Loosen the nut and using a hammer strike the knuckle ball joint housing to dislodge the tie rod end. **Careful not to damage the tie rod end. SEE FIGURE 1**

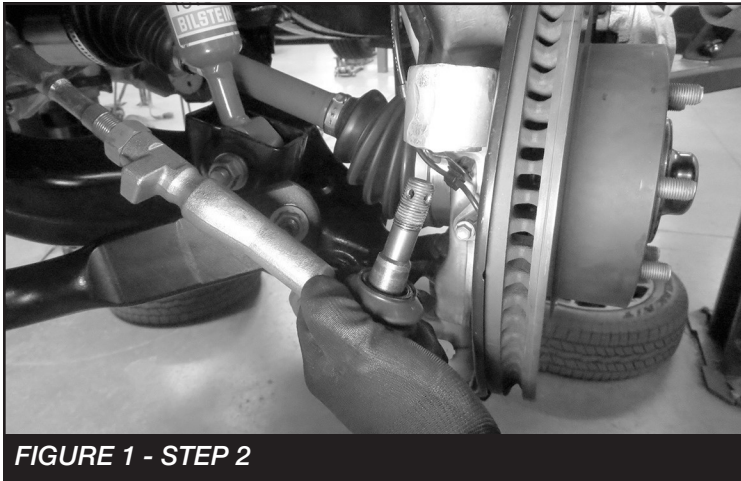


FIGURE 1 - STEP 2

3. Disconnect the wheel speed sensor from the knuckle. Save hardware. **SEE FIGURE 2**

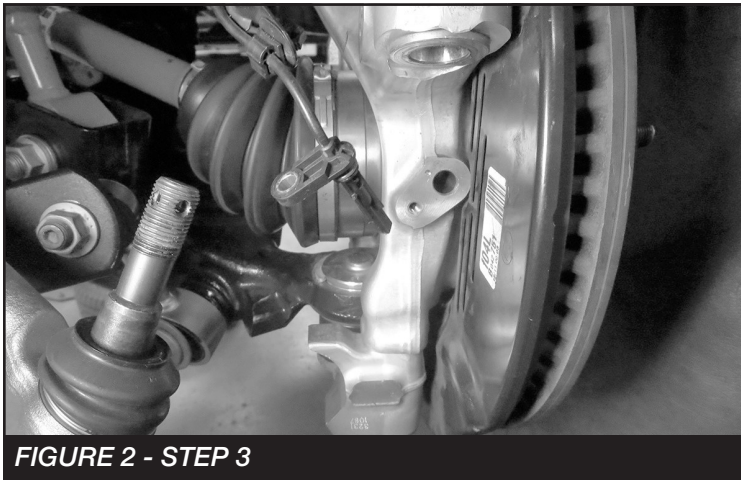


FIGURE 2 - STEP 3

4. Remove the cotter pin from the tie rod end ball joint nut. Loosen the nut and using a hammer strike the knuckle ball joint housing to dislodge the upper control arm from the knuckle. Do not remove the nut at this time. **SEE FIGURE 3**

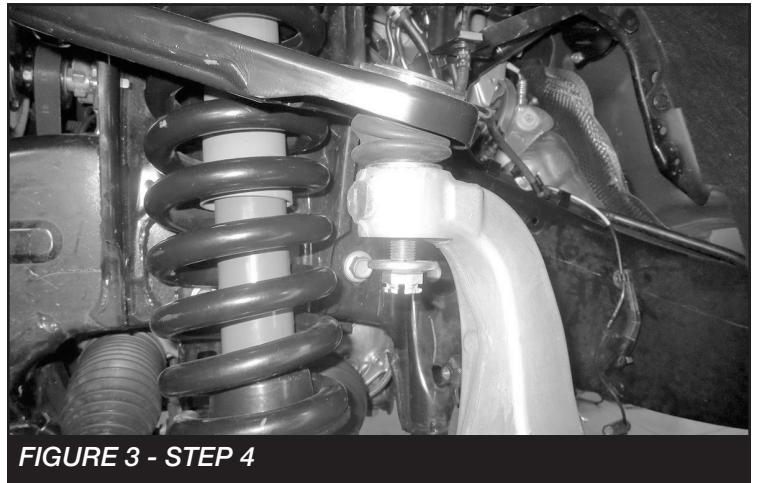


FIGURE 3 - STEP 4

5. Remove the CV axle cotter pin and nut. Save nut. **SEE FIGURE 4**



FIGURE 4 - STEP 5

6. Remove the sway bar link bolt attaching the sway bar link to the lower control arm. Save hardware and disconnect the link from the arm. **SEE FIGURES 5-6**

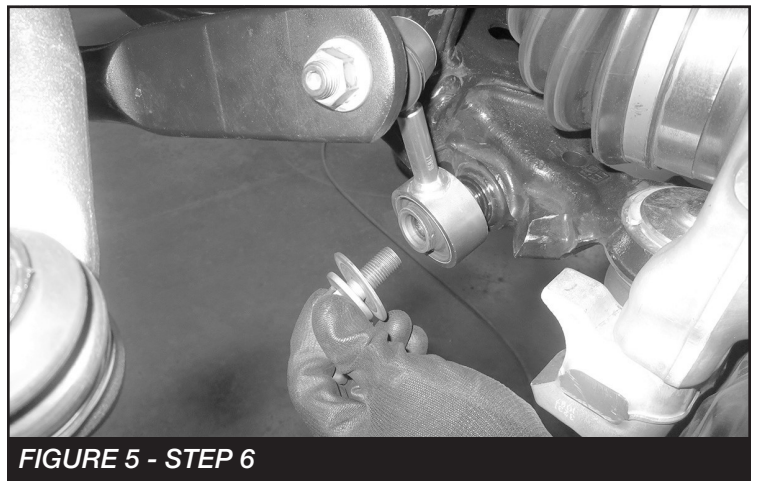
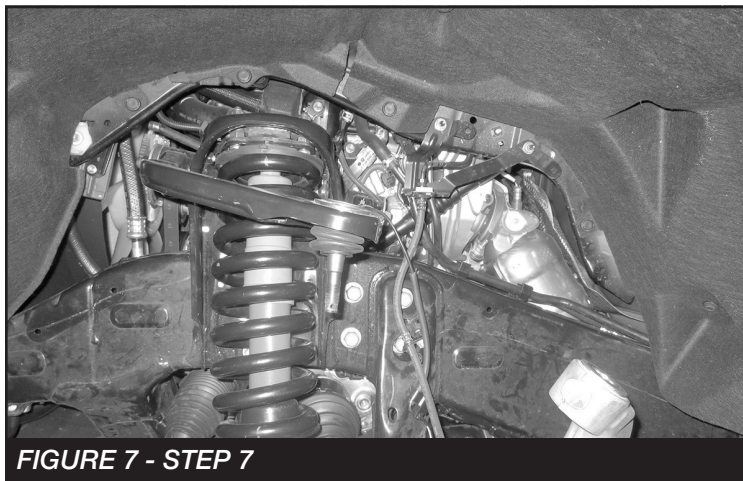


FIGURE 5 - STEP 6



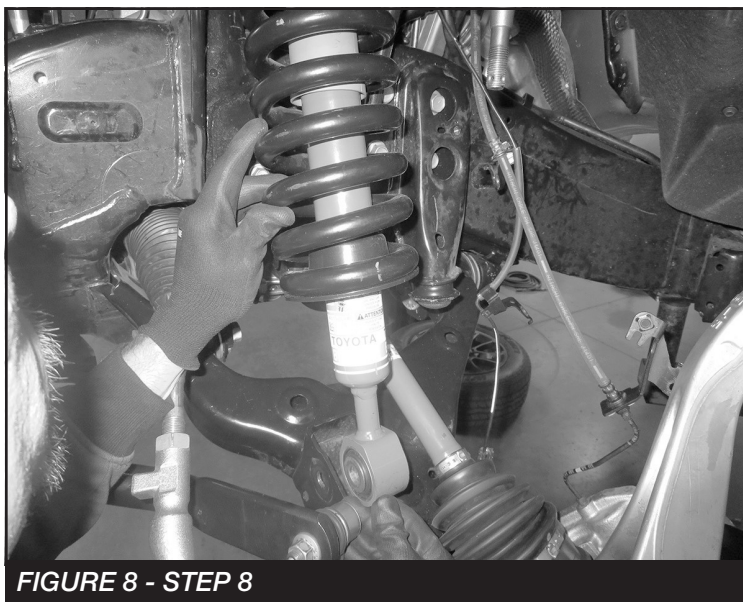
**FIGURE 6 - STEP 6**

7. Disconnect the upper control arm from the knuckle. Save hardware. **SEE FIGURE 7**



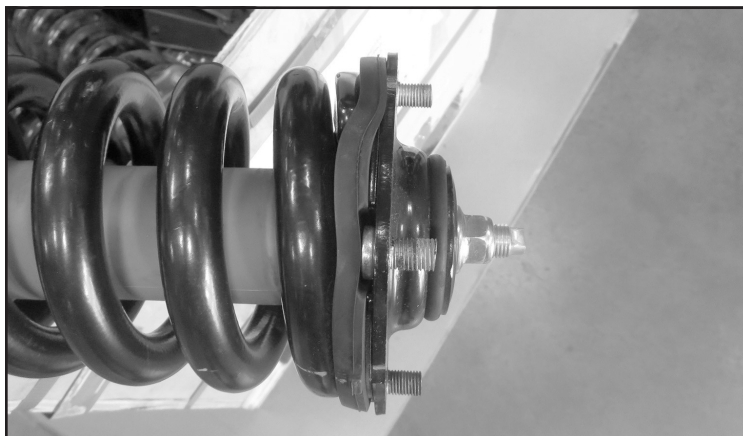
**FIGURE 7 - STEP 7**

8. Remove the lower strut bolt and upper strut nuts, then remove the factory strut from the truck. **SEE FIGURE 8**



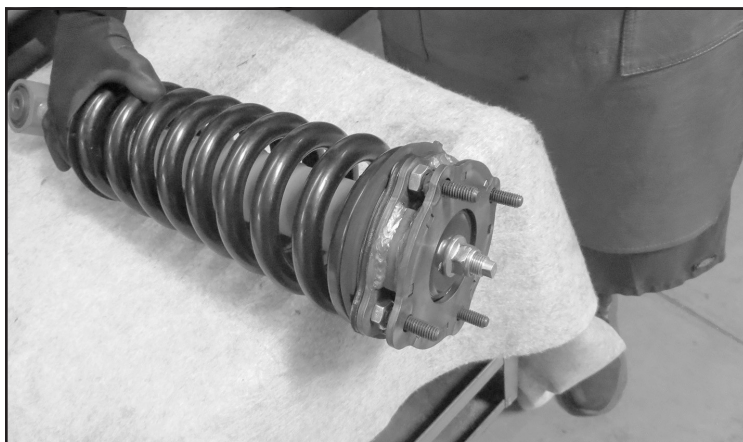
**FIGURE 8 - STEP 8**

9. Locate the four factory studs on the strut top cap. Measure 3/4" from the base of the stud and mark. The rest of the stud will need to be removed. **SEE FIGURE 9**



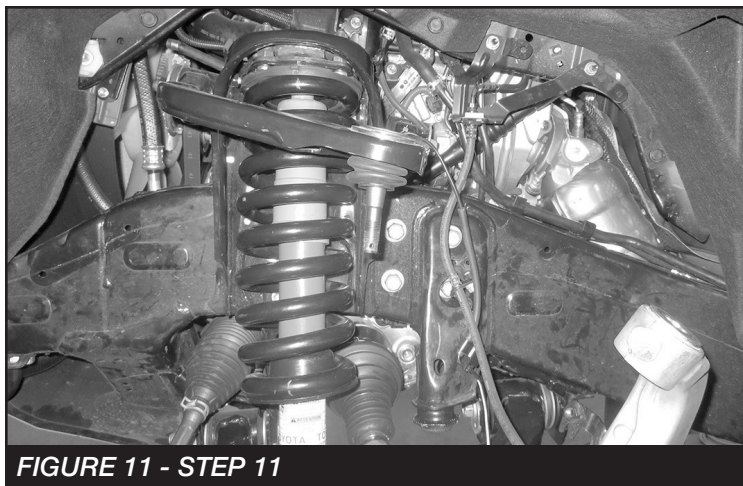
**FIGURE 9 - STEP 9**

10. Install FT70304 (Strut Spacer) onto the strut using the factory hardware. **SEE FIGURE 10**



**FIGURE 10 - STEP 10**

11. Install the strut into the vehicle using the factory lower hardware and the supplied 3/8" nuts and washers. Torque the lower hardware to 148 ft-lbs. and the upper to 40 ft-lbs. **SEE FIGURE 11**



**FIGURE 11 - STEP 11**

12. If installing Fabtech upper control arms, do so now using the instructions supplied in the box. **NOTE: Make sure the cv axle is inserted into the hub.**
13. Install the CV axle nut and new cotter pin. Torque to 180 ft-lbs.
14. Install the wheel speed sensor and factory sway bar endlink to the lower control arm. Torque to 78 ft-lbs.
15. Install the tie rod end to the knuckle using the factory hardware and supplied cotter pin. Torque to 35 ft-lbs.
16. Remove the factory bumpstop. Install FT70174 (Bumpstop spacer) onto the the factory bumpstop. Install the bumpstop onto the vehicle with FT81111 (Bumpstop washer). **SEE FIGURES 12-13**

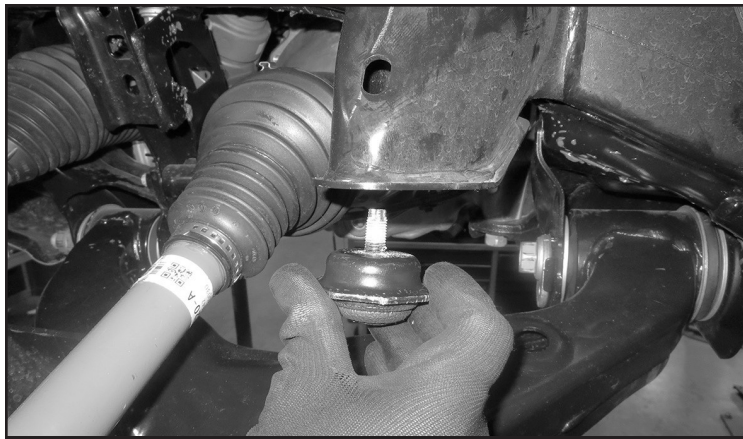


FIGURE 12 - STEP 16



FIGURE 13 - STEP 16

17. If installing 35" Tires continue with the next steps. If not, skip to step 20.
18. Locate the inner fender body mount. Mark 1" from the frame. Then using a recipricating saw or cut-off wheel. Remove the mount from the vehicle. **SEE FIGURES 14-15**

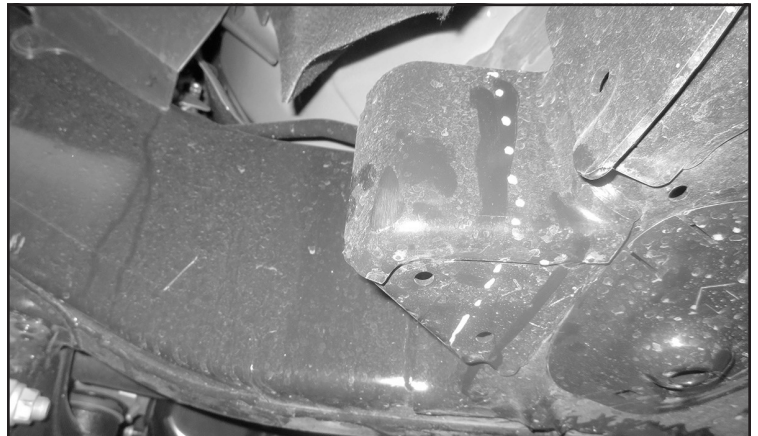


FIGURE 14 - STEP 18

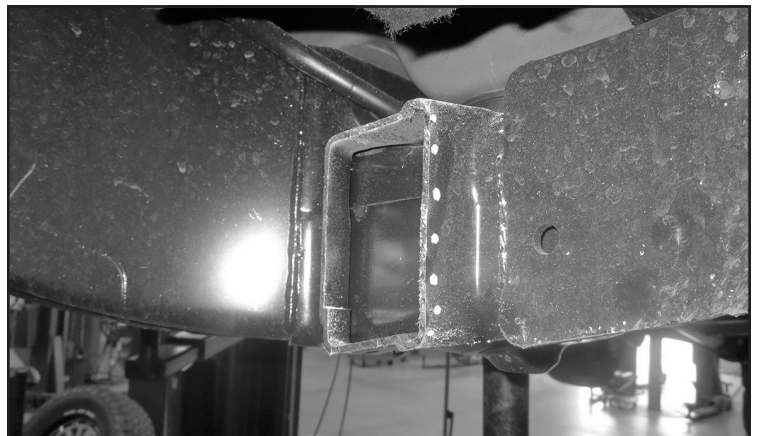


FIGURE 15 - STEP 18

19. Weld FT70319 (Weld plate) into the body mount. Allow to cool then paint the area. **SEE FIGURE 16**



FIGURE 16 - STEP 19

20. Repeat steps on the passenger side.

## **- REAR SUSPENSION -**

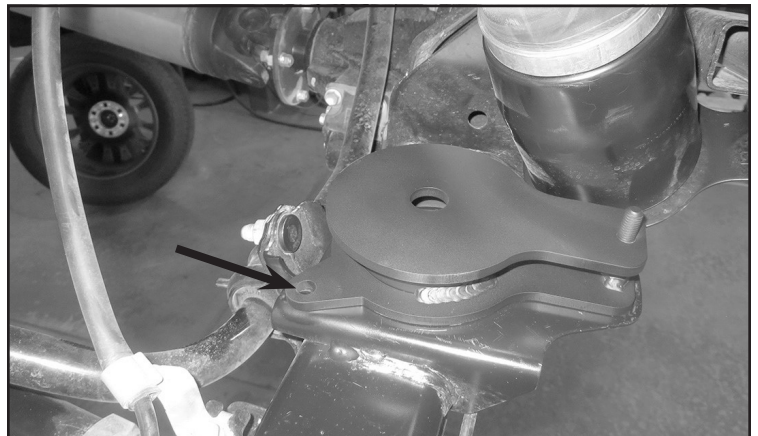
21. Supporting the rear axle. disconnect the rear sway bar (If equipped) and remove the factory rear shocks. Slowly lower the rear axle and rear the rear coil springs.
22. Locate the air line at the upper air spring location. Using a 1/4" Air/fuel disconnect tool. Carefully disconnect the fitting to allow the air to deflate from the line/air spring. Do this for both sides. **SEE FIGURE 17**



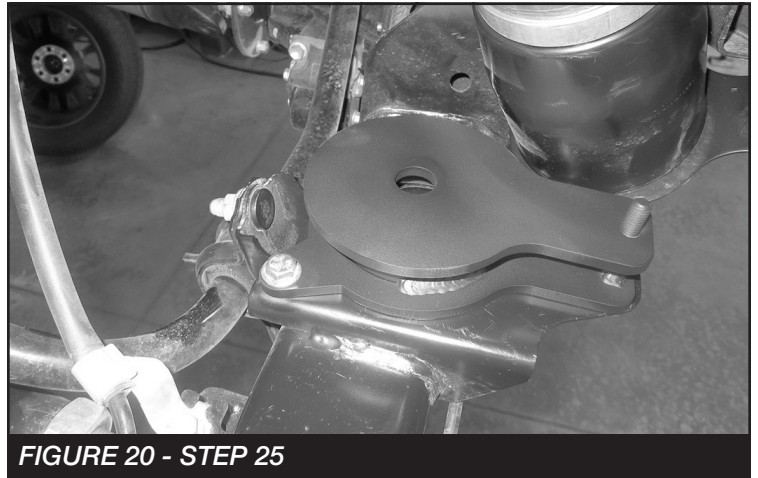
23. Disconnect the air spring from the axle mount. Using a cut off wheel, cut the stud off of the lower mount then drill a 7/16" hole where the stud was. **SEE FIGURE 18**



24. Place FT70311 (Driver spacer) onto the axle mount by inserting the threaded stud through the hole just drilled. Mark and drill the forward hole to 7/16". **SEE FIGURE 19**



25. Install FT70311 using the supplied 3/8" hardware. Then install the factory air spring to the new spacer using the supplied 3/8" washer and nut. Torque to 44 ft-lbs. **SEE FIGURES 20-21**



26. Repeat Steps 23-25 on the passenger side using FT70315 (Passenger spacer).

27. Locate the air spring height adjustment rod on the upper link. Disconnect the rod at the lower mount from the link tube. **SEE FIGURE 22**

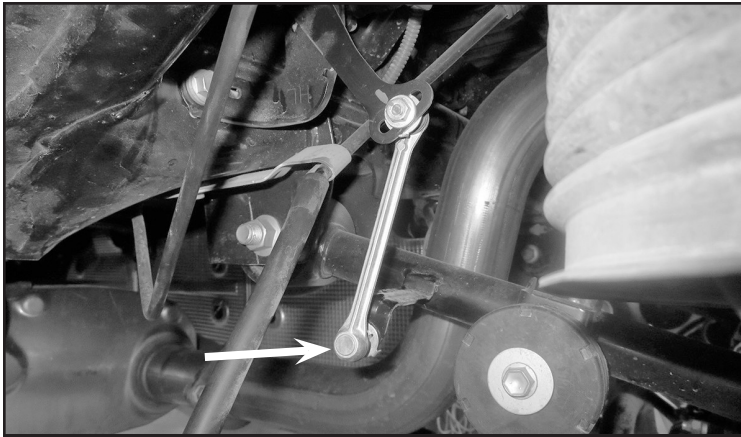


FIGURE 22 - STEP 27

28. Install FT70316 (Driver Air Spring Sensor Bracket) to the upper link using the supplied 1/4" hardware. **SEE FIGURE 23 for orientation.**

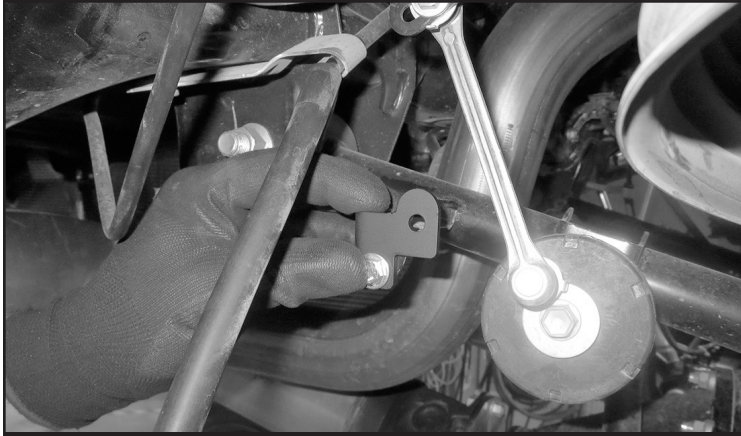


FIGURE 23 - STEP 28

29. Attach the adjusting rod to the new bracket using the factory hardware. **SEE FIGURE 24**



FIGURE 24 - STEP 29

30. On the same height adjustment rod. Loosen the upper nut to position to the center of the frame bracket. Then re tighten. **SEE FIGURE 25**

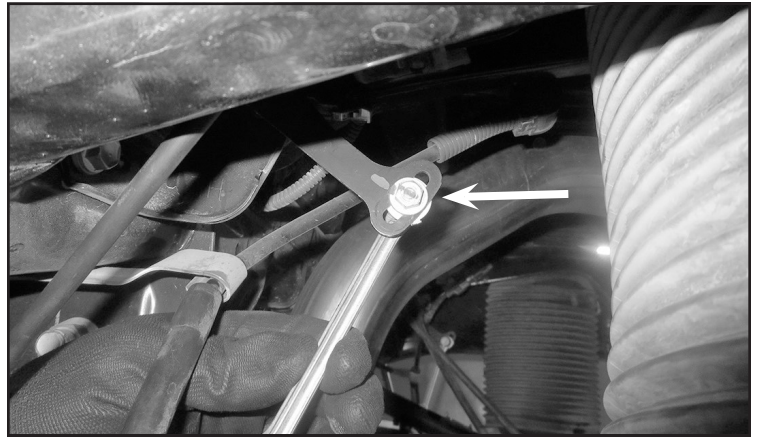


FIGURE 25 - STEP 30

31. Repeat Steps 27-30 on the passenger side using FT70317 (Passenger Air Spring Sensor Bracket).
32. Re-attach the air lines for the rear air springs.
33. Remove the factory rear bumpstops from the frame. Save hardware. **SEE FIGURE 26**

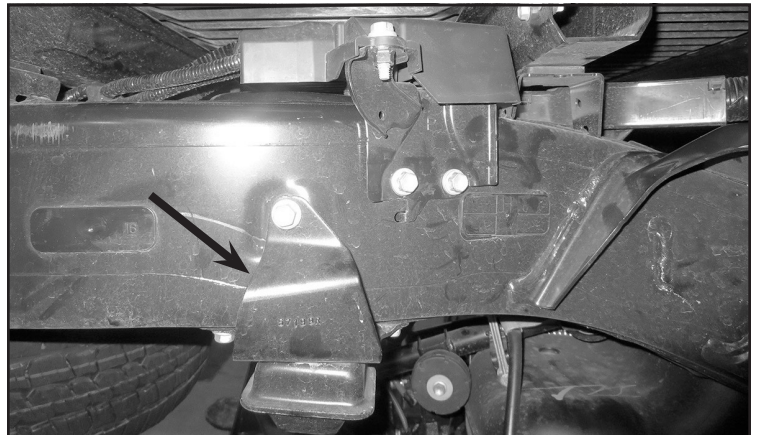


FIGURE 26 - STEP 33

34. Mark and cut the bumpstop brackets like shown in **FIGURES 27-28**



FIGURE 27 - STEP 34



FIGURE 28 - STEP 34

35. Install FT70312 (Driver bumpstop bracket) & FT70313 (Pass bumpstop bracket) in the factory location using one factory bolt. **NOTE:** Install FT89034 (washer) on the backside of the bracket. **SEE FIGURES 29-30**

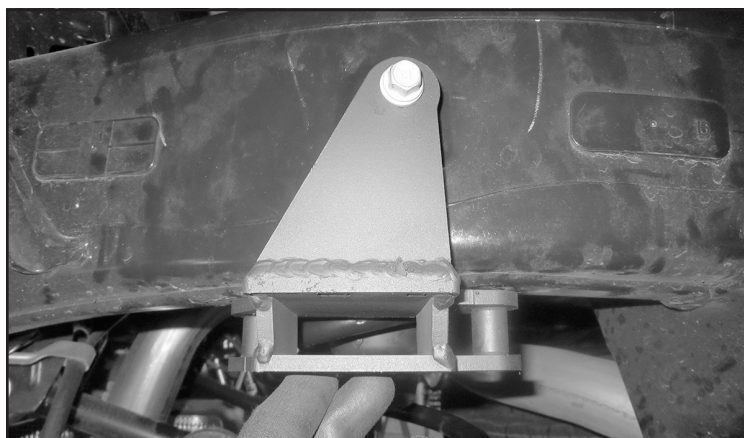


FIGURE 29 - STEP 35



FIGURE 30 - STEP 35

36. Install the factory bumpstop to the new bracket using the supplied 8mm bolts and washers. Torque to 18 ft-lbs. **SEE FIGURE 31**

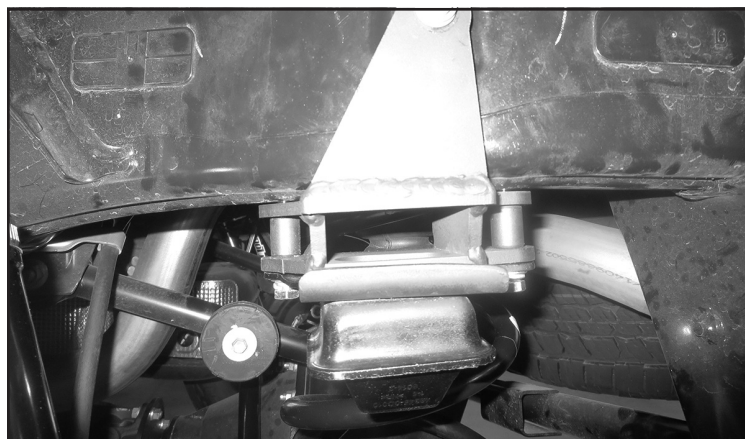


FIGURE 31 - STEP 36

37. Install the new Fabtech shocks FTS7188, FTS6188 or FTS81164 and FT83239 Shock Spacer with the factory hardware and supplied shock sleeve. **NOTE: If installing FTS7188 Performance shock, remove the lower bushing and install the supplied FT83267 (bushing).** Install the spacer onto the lower shock mount and follow with the shock and factory hardware. Torque upper and lower bolts to 83 lbs. **SEE FIGURE 32**



FIGURE 32 - STEP 37

38. Re-connect the factory sway bar links.

39. Install FT44245 (Brakeline bracket) on top of the differential as well as the driver side axle mount using the supplied 1/4" hardware. **SEE FIGURES 33-34**



FIGURE 33 - STEP 39

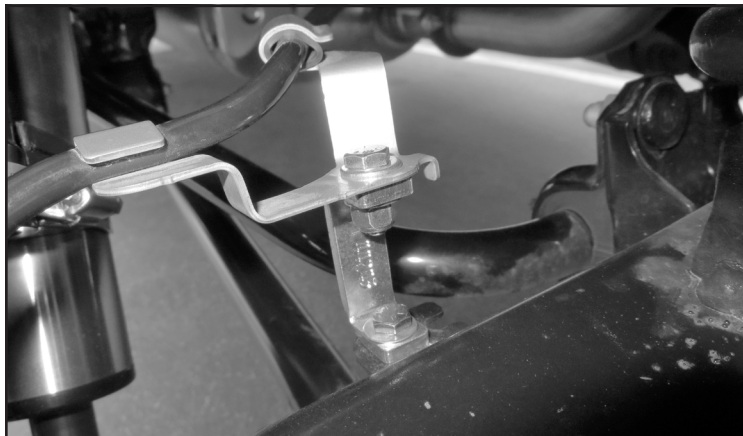


FIGURE 34 - STEP 39

40. Install FT1599-1-5 (Brakeline tab) on the passenger side link mount that attaches the factory brakeline to the link pocket. Use the factory hardware to mount the bracket and the supplied 1/4" hardware to mount the brakeline to the new tab. **SEE FIGURE 35**

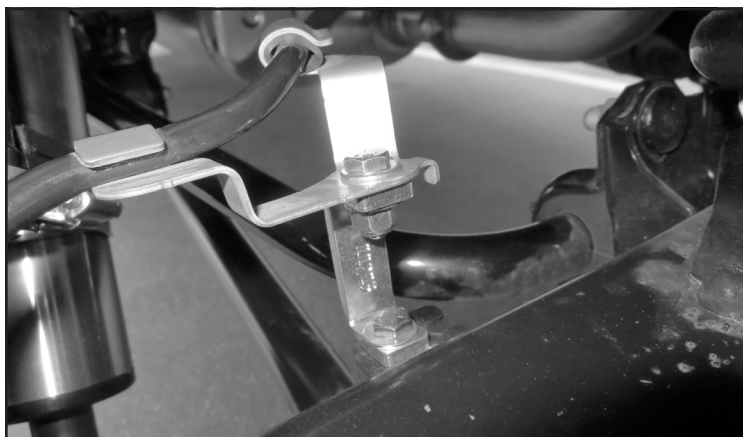
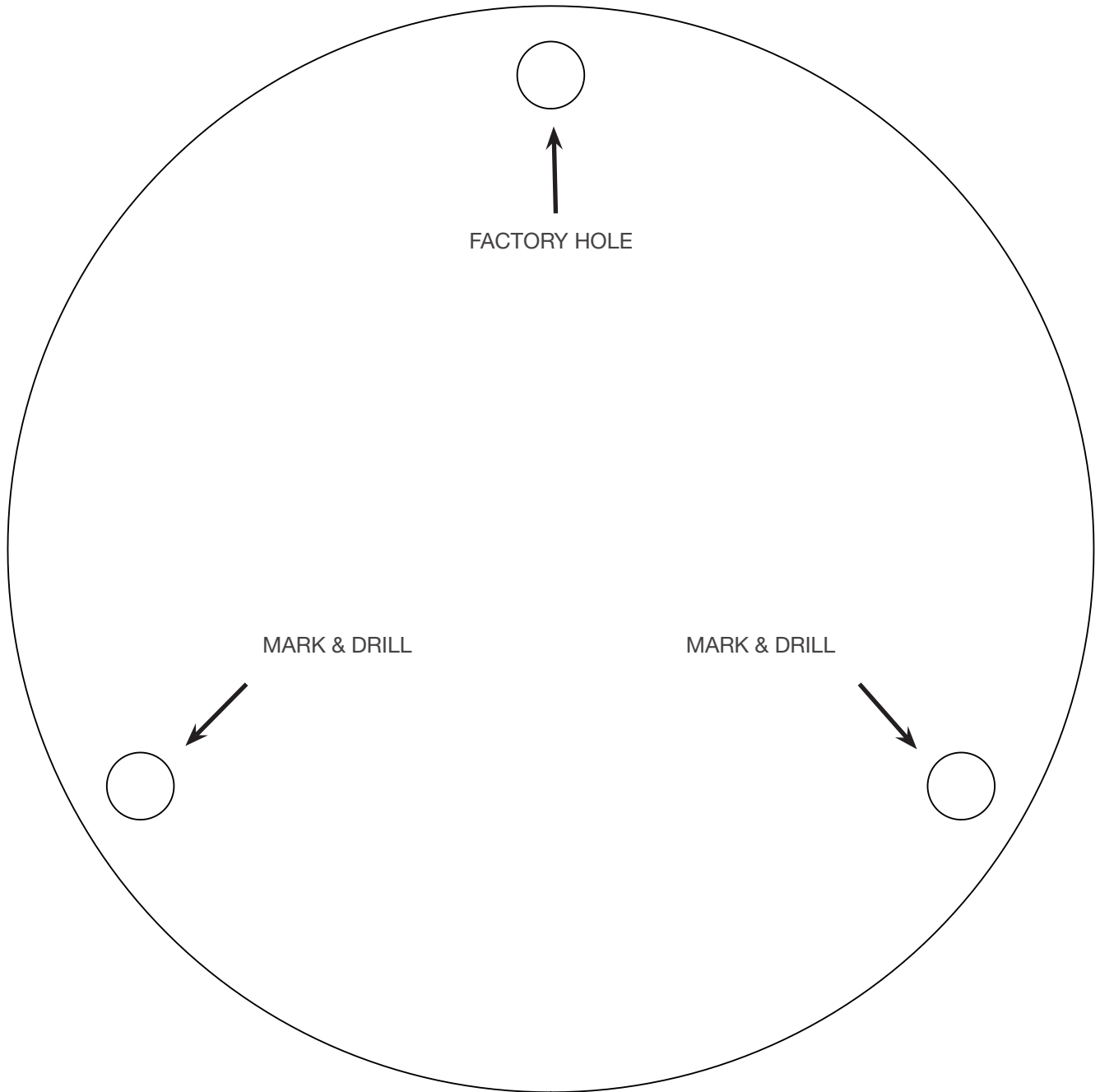


FIGURE 35 - STEP 40

41. 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.
42. Check front end alignment and set to factory specifications. Readjust headlights.
43. Recheck all bolts for proper torque. **RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER UNTIL TORQUE VALUES ARE RETAINED.**
44. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
45. 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.**
46. Check ball joints, uniballs bearings, bushings and all steering components every 2500-5000 miles for wear and replace as required.
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.
48. Review all included warnings and warranties with consumer

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

# TEMPLATE





# **- 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