	FTS810292	2.25 Dirt Logic Stainless Steel Shock
1	FT810292i	INSTRUCTIONS
1	FT86001	HARDWARE & BUSHING KIT 1
1	FT89900	STICKER

	FTS811382	2.25 Dirt Logic Stainless Steel Shock
1	FT81029i	INSTRUCTIONS
1	FT86001	HARDWARE & BUSHING KIT 1
1	FT89900	STICKER

	FTS811322	2.25 Dirt Logic Stainless Steel Shock
1	FT81029i	INSTRUCTIONS
1	FT86001	HARDWARE & BUSHING KIT 1
1	FT89900	STICKER

	FTS81160	2.25 Dirt Logic Stainless Steel Shock
1	FT81029i	INSTRUCTIONS
1	FT86001	HARDWARE & BUSHING KIT 1
1	FT89900	STICKER

	FTS811332	2.25 Dirt Logic Stainless Steel Shock
1	FT81029i	INSTRUCTIONS
1	FT86001	HARDWARE & BUSHING KIT 1
1	FT89900	STICKER

Thank you for purchasing Dirt Logic shocks, the finest off-road shock in the industry. Each unit is built to exacting standards and is properly tuned specifically for your vehicle. Dirt Logic shocks are designed and built to both beautify and upgrade your suspension system.

How To Care For Your Dirt Logic Shocks

Dirt Logic shocks have been designed as a take apart, serviceable, race style unit. That means, just like a race shock, it will need to be maintained and periodically rebuilt. The tight tolerances of this provide the exceptional ride and performance you are paying for but do require maintenance which is normal in a take apart shock like a Dirt Logic.

Externally, the shock should be kept clean at all times and kept free of dirt, road salt or other corrosive elements. The unit should be routinely washed with a pH balanced cleaner to keep the finish looking new. Do not use any abrasive or aggressive cleaners or degreasers as it will harm the finish for life including the aluminum anodizing.

Internally, the shock has high performance seals that allow the shock to cycle at very high rates and provide exceptional damping in aggressive off-road conditions. These seals are a wearable item and may need to be replaced periodically to keep the shock functioning correctly. Our in house Shock Lab is equipped to handle these needs when necessary.

Caution – Read Before Installing

Stop – Call FABTECH customer service if any component of this product is missing. Do not return it to the place of purchase! For technical assistance call: 909-597-7800

This Dirt Logic Shock is shipped pressurized with Nitrogen. Do not remove tamper cap or warranty will be void.

If this shock product needs to be returned for any reason, it must be returned in its original packaging or warranty will be void.

Dirt Logic Shocks come with a one year warranty from the original date of purchase for defects in material or workmanship.

Should you have any questions regarding your Dirt Logic Shocks, please feel free to contact us.

Installation Instructions

Install the bushing kit onto the 2.25” Dirt Logic Shock included in the packaging. Now install the shock by attaching the top cap first and the rod end second. Take care to compress the shock when installing the rod end as the shock is under pressure and will require leverage and strength to accomplish this task. This would be best done with the vehicle on a hoist with the suspension at its most extended length. Once the shock is installed tighten the bolts until there is a light squeeze on the urethane bushings.
(Note some 2.25” shocks will require extra components to be installed prior to shock installation)

- 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.

INSTALLATION INSTRUCTIONS

	K2386	4" BASIC SYSTEM W/PERFORMANCE SHOCKS
1	FTS22351	COMPONENT BOX 1
1	FTS22352	COMPONENT BOX 2
2	FTS7266	PERFORMANCE SHOCK

	K2386M	4" BASIC SYSTEM W/STEALTH SHOCKS
1	FTS22351	COMPONENT BOX 1
1	FTS22352	COMPONENT BOX 2
2	FTS6063	PERFORMANCE SHOCK

	K2387DL	4" PERF SYSTEM W/2.5 DL C/O & DLSS SHOCKS
1	FTS22351	COMPONENT BOX 1
1	FTS22352	COMPONENT BOX 2
1	FTS22354	2.5" DIRT LOGIC COILOVERS N/R
2	FTS81160	2.25" DIRT LOGIC SHOCKS N/R

	K2388DL	4" PERF SYSTEM W/2.5 RESI C/O & DL SHOCKS
1	FTS22351	COMPONENT BOX 1
1	FTS22352	COMPONENT BOX 2
1	FTS22355	2.5" DIRT LOGIC COILOVERS W/RESI
2	FTS81160	2.25" DIRT LOGIC SHOCKS N/R

2021-2023 FORD F-150 4WD

4" BASIC & PERFORMANCE SYSTEMS

FT22351i

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 | 4331 Eucalyptus Ave. Chino, CA 91710

Tech Line: 909-597-7800 | **Fax:** 909-597-7185 | **Web:** www.fabtechmotorsports.com

	FTS22351	COMPONENT BOX 1
1	FT30377BK	SKID PLATE
2	FT30491	DIFF DROP BRACKET UPPER
1	FT30592BK	FRONT CROSSMEMBER 4”
1	FT30593BK	REAR CROSSMEMBER 4”
1	FT30621	SWAY BAR DROP BRACKET (PASSENGER)
1	FT30622	SWAY BAR DROP BRACKET (DRIVER)
1	FT30938	HARDWARE KIT

	FTS22352	COMPONENT BOX 2 - BASIC SYSTEM
1	FT30950D	SPINDLE (DRIVER)
1	FT30950P	SPINDLE (PASSENGER)
1	FT30939	HARDWARE SUBASSEMBLY
4	FT762U	UBOLTS
2	FTBK22	BLOCK 2.25”
2	FTS30504	4” COILOVER

	FTS22353	COMPONENT BOX 2 - PERFORMANCE SYSTEM
1	FT30950D	SPINDLE (DRIVER)
1	FT30950P	SPINDLE (PASSENGER)
1	FT30939	HARDWARE SUBASSEMBLY
4	FT762U	UBOLTS
2	FTBK22	BLOCK 2.25”

	FT30939	HARDWARE SUB-ASSEMBLY
1	FT22351i	INSTRUCTIONS
2	FT292	ALIGNMENT CAM KIT
2	FT30496	FRONT BRAKE LINE BRACKET
1	FT30610	5/16” X 4” HOSE
1	FT30619BK	REAR CROSSMEMBER DIFF PLATE
1	FT70033	REAR BRAKE LINE BRACKET
1	FTAS12	STICKER FT BLUE 10X4
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD

	FT30938 - HARDWARE KIT	LOCATION
1	1/2-13 X 3-1/2” HEX BOLT G8 ZNC	DIFF MOUNT
1	1/2-13 X 3-3/4” HEX BOLT G8 ZNC	
1	1/2-13 X 4” HEX BOLT G8 ZINC	
1	M18-2.5 X 150MM HEX BOLT	REAR CROSSMEMBER
2	M18 FLAT WASHER	
1	M18-2.5 C-LOCK NUT	
2	3/8-16 X 1” HEX BOLT	CROSSMEMBER PLATE
4	3/8” SAE FLAT WASHER	
2	3/8-16 C-LOCK NUT	
3	1/2-13 X 1-1/4 HEX BOLT G8 ZNC	SKID PLATE
3	5/16-18 X 1 HEX BOLT G8 ZINC	
6	5/16 SAE WASHER G5 ZINC	BRAKE LINE
3	5/16-18 STOVER NUT G5 Z1	
4	1/2-13 X 3” HEX BOLT G8 ZINC	
4	7/16-14 X 1-1/4 HEX BOLT G8 ZNC	
8	7/16 SAE WASHER G5 ZINC	SWAY BAR EXT
4	7/16-14 C-LOCK NUT ZINC	
20	1/2 SAE WASHER G5 ZINC	
10	1/2-13 C-LOCK NUT ZINC	
8	9/16” SAE WASHER	UBOLTS
8	9/16-18 NYLOCK NUT	
8	7-1/2” CABLE TIE	
1	THREAD LOCKING COMPOUND 1 MIL	

- 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.

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.
- Fits SuperCrew only
- Will not fit Raptor models
- Fits gas models only
- Does not fit models equipped with CCD (Continuously Controlled Damping) system
- Does not fit hybrid models
- Does not fit vehicles equipped with Ford Onboard Scale System
- Does not fit vehicles equipped with Tremor Off-Road package

- 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 and discard the factory skid plate/plastic guard under the differential.

3. Starting on the drivers side, disconnect the tie rod end from the steering knuckle by striking the knuckle to dislodge the tie rod end. Save hardware. **SEE FIGURE 1**

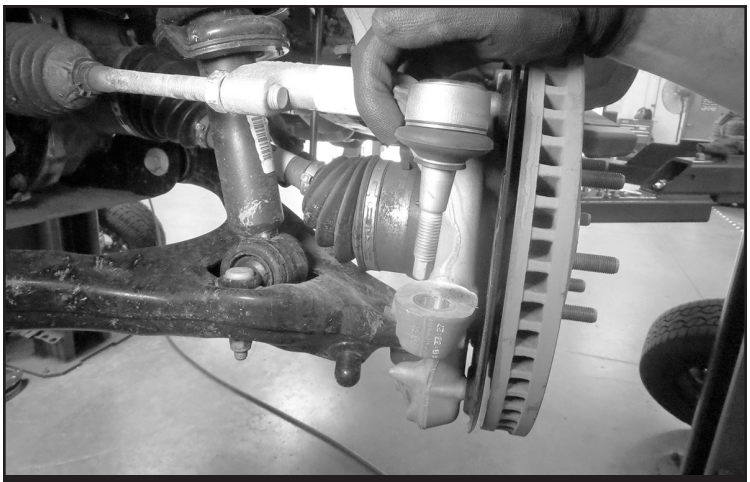


FIGURE 1 - STEP 3

4. Disconnect the factory sway bar link from the knuckle. Save hardware. **SEE FIGURE 2**

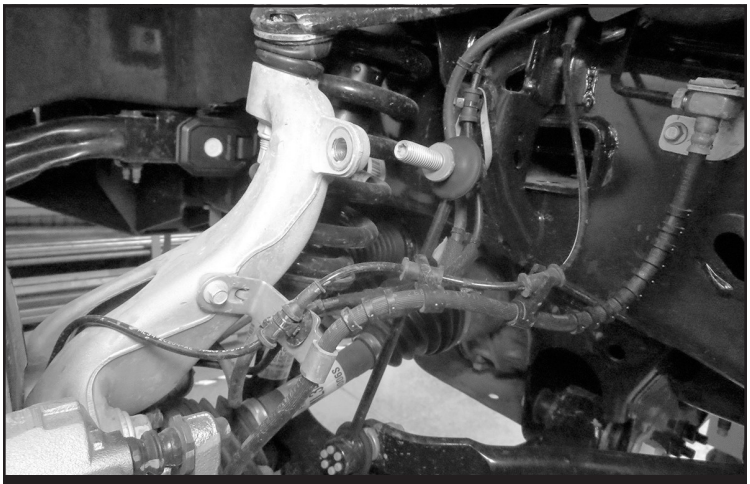


FIGURE 2 - STEP 4

5. Remove the axle shaft cover and nut. Save all hardware. **SEE FIGURES 3-4**



FIGURE 3 - STEP 5



FIGURE 4 - STEP 5

6. Disconnect the ABS lines and hoses from the bracket attached to the knuckle. Then remove the bracket from the knuckle. **SEE FIGURE 5-6**

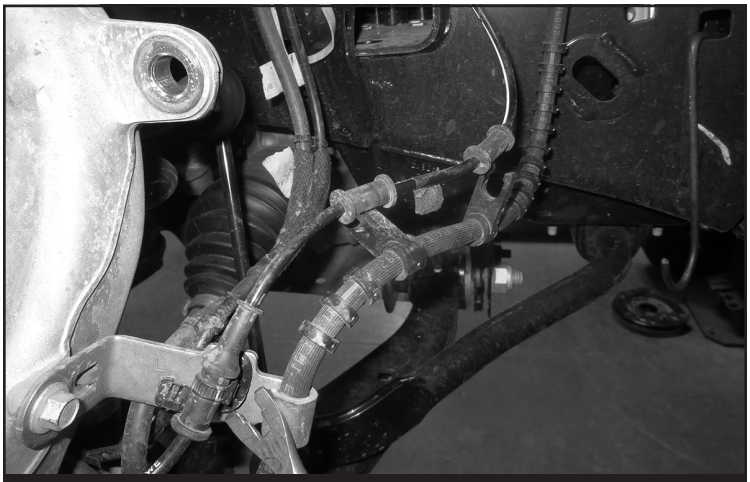


FIGURE 5 - STEP 6



FIGURE 6 - STEP 6

7. Remove the brake caliper from the knuckle. Use a hanger or cable tie to secure it to the frame. To prevent damage do not let the caliper hang freely. Save hardware. Remove the rotor and place in a safe area. **SEE FIGURES 7-8**



FIGURE 7 - STEP 7



FIGURE 8 - STEP 7

8. Remove and save the three bolts attaching the dust shield to the knuckle. **SEE FIGURES 9-10**

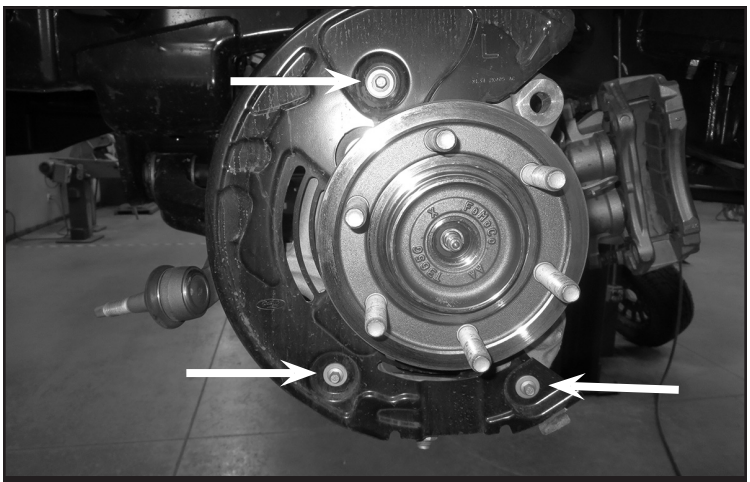


FIGURE 9 - STEP 8



FIGURE 10 - STEP 8

9. Remove the wheel speed sensor from the top of the hub assembly. Save hardware. **SEE FIGURE 11**

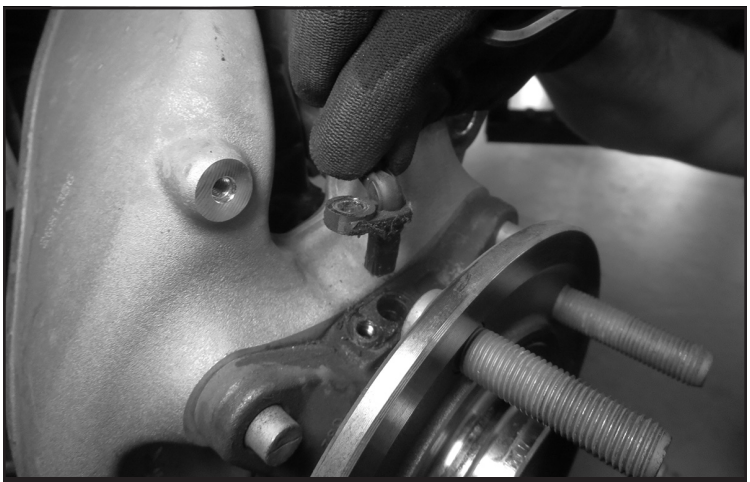


FIGURE 11 - STEP 9

10. Remove the four bolts attaching the 4wd hub actuator to the knuckle. Save hardware. **SEE FIGURES 12-13**

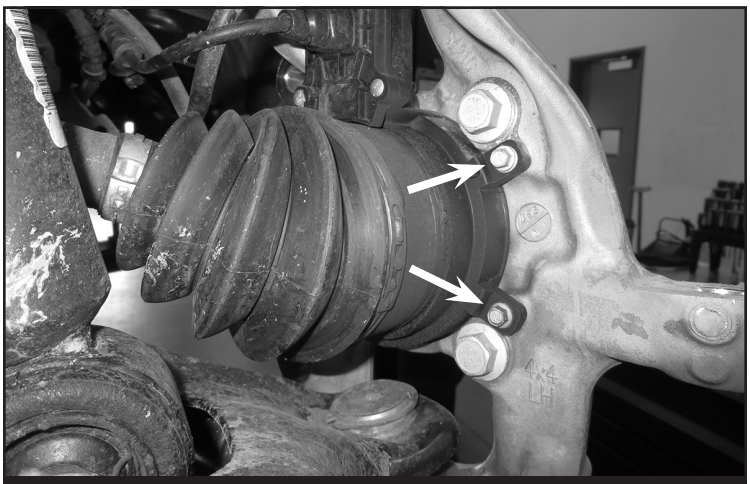


FIGURE 12 - STEP 10

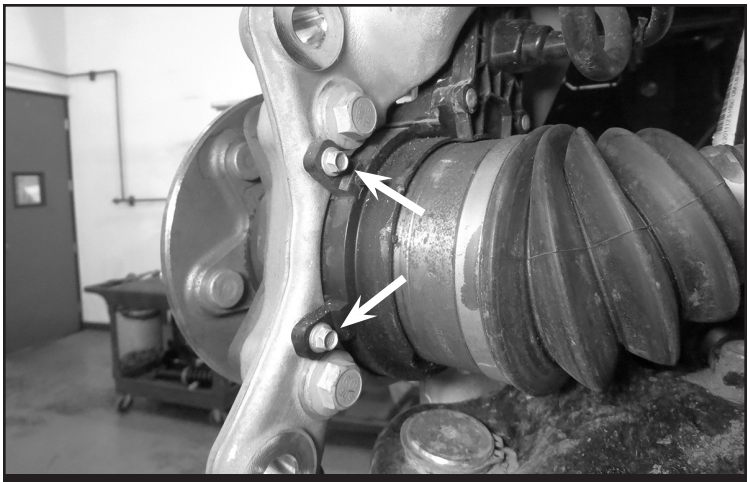


FIGURE 13 - STEP 10

11. Loosen the upper and lower ball joint nuts. Dislodge them by striking the knuckle with a large hammer next to each ball joint. Use care not to hit the ball joints. Then, remove the upper/ lower nuts and remove the knuckle from the vehicle. **NOTE: The 4wd hub actuator will stay on the cv shaft. SEE FIGURES 14-15**



FIGURE 14 - STEP 11

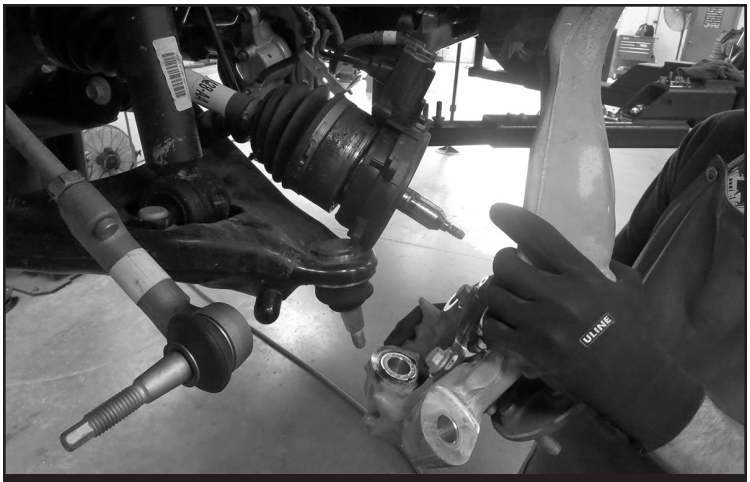


FIGURE 15 - STEP 11

12. Slide the 4wd hub actuator off the cv shaft and secure it to the frame. Be careful not to damage this part. **SEE FIGURES 16-17**



FIGURE 16 - STEP 12



FIGURE 17 - STEP 12

13. Remove and save the three upper strut nuts as well as the two nuts attaching the strut to the lower control arm. Remove the factory coilover from the vehicle. **SEE FIGURES 18-20**



FIGURE 18 - STEP 13



FIGURE 19 - STEP 13

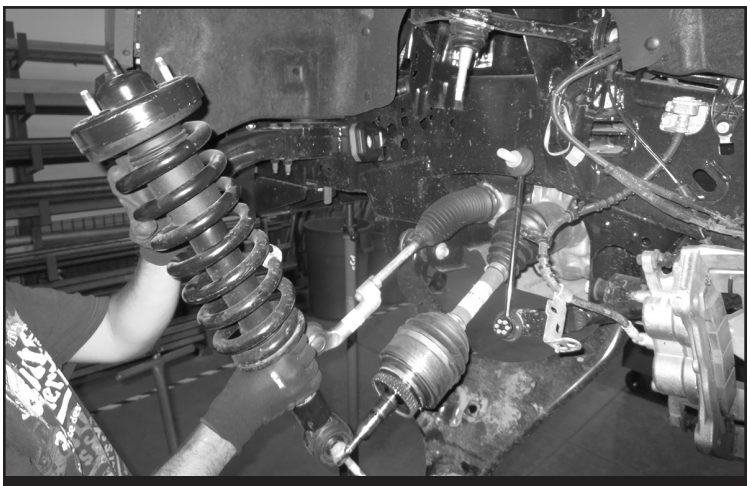


FIGURE 20 - STEP 13

14. Remove the lower control arm and save hardware. **SEE FIGURE 21**



FIGURE 21 - STEP 14

15. Repeat steps on the passenger side.

16. Remove the sway bar from the vehicle save all hardware. **SEE FIGURE 22**

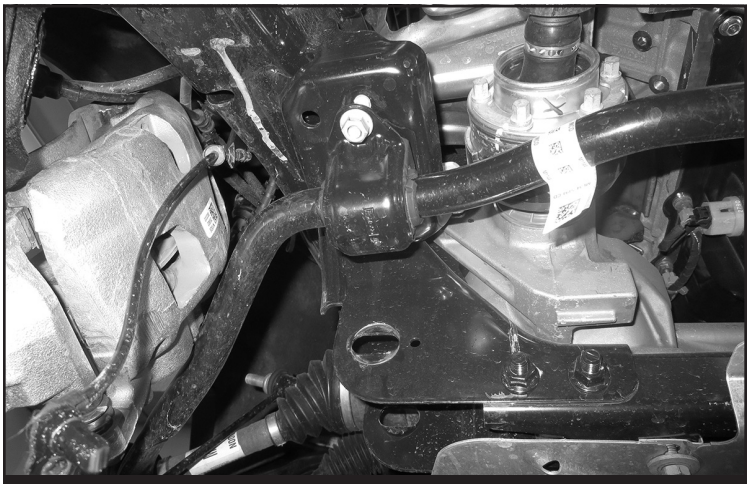


FIGURE 22 - STEP 16

17. Remove and discard the rear factory crossmember from the vehicle. **SEE FIGURE 23**



FIGURE 23 - STEP 17

18. Remove and save the front driveshaft hardware. Then, disconnect the driveshaft from the front differential. Secure it so it does not hang freely. **SEE FIGURE 24**

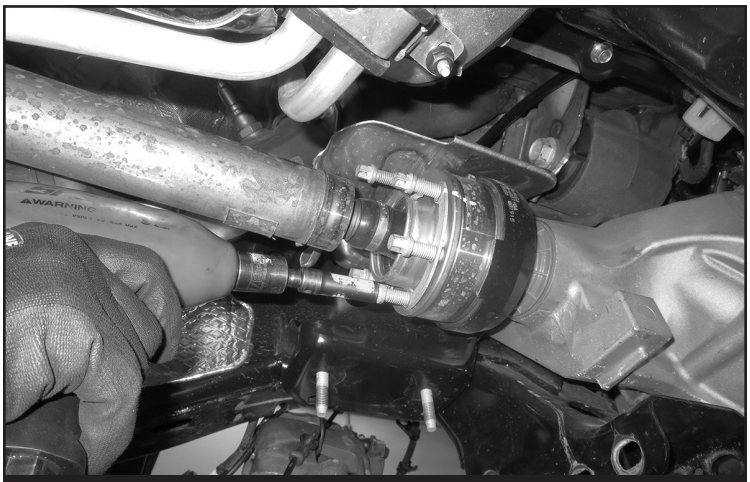


FIGURE 24 - STEP 18

19. Supporting the differential, remove the 3 differential mount bolts and save for re-installation. Remove the differential from the vehicle. **SEE FIGURE 25**

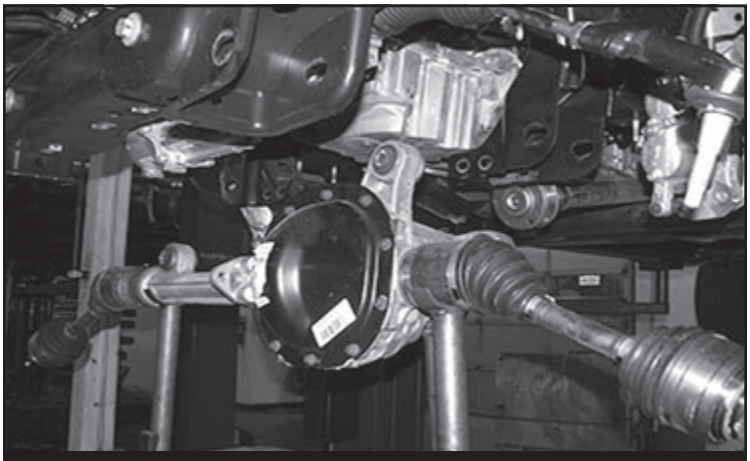


FIGURE 25 - STEP 19

20. Locate the driver side rear lower control arm pocket. Mark the frame 1” from the control arm pivot hole and 90 degrees to the bottom of the pocket where the cross member was mounted. Using a die grinder, cut all the way around the pocket. Discard removed portion of the pocket. **SEE FIGURES 26-27**

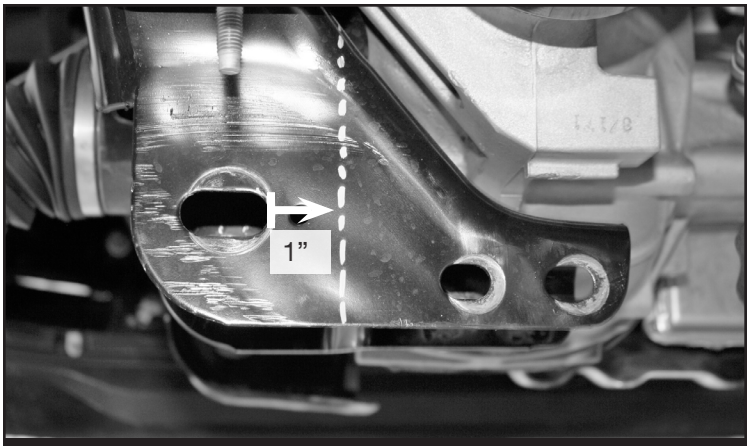


FIGURE 26 - STEP 20

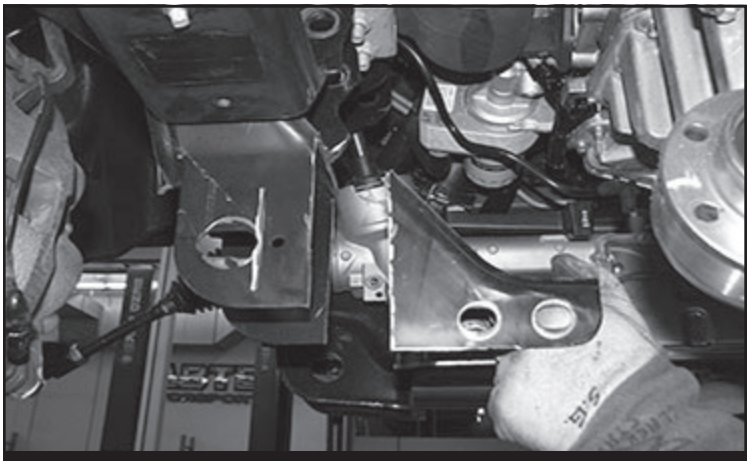


FIGURE 27 - STEP 20

21. Refer to template 1 on page 19 for the next step. Cut out the template then tape onto the back side of the rear control arm pocket lining up the pivot hole and the edges. Using a paint pen mark the radius all the way to the upper edge of the template. Remove and cut using a cut off wheel or recipricating saw. **SEE FIGURES 28-39**

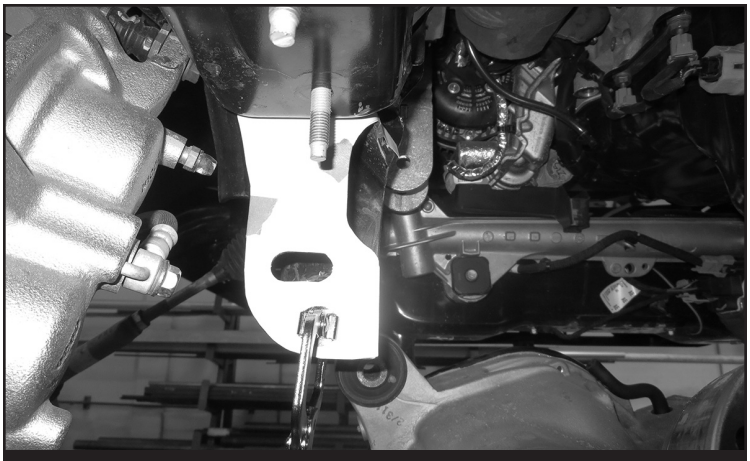


FIGURE 28 - STEP 21

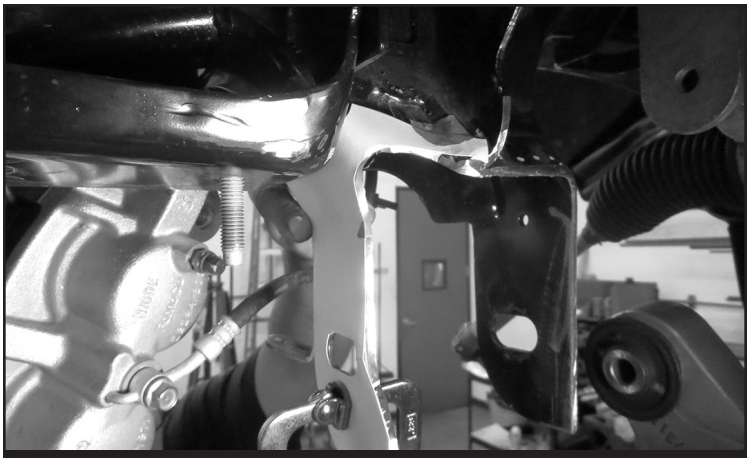


FIGURE 29 - STEP 21

22. Locate the two Fabtech upper differential mounts (FT30491). These upper differential mounts will be placed into the factory upper differential mounts using the factory upper differential mount hardware. Leave the hardware loose in preparation for the differential installation. **SEE FIGURE 30**



FIGURE 30 - STEP 22

23. Reinstall the factory differential to the new drop brackets using the supplied 1/2" x 3-3/4" bolt, nut and washers on the driver side and the 1/2" x 3-1/2" bolt, nut and washers on the passenger side. **SEE FIGURES 31-32**

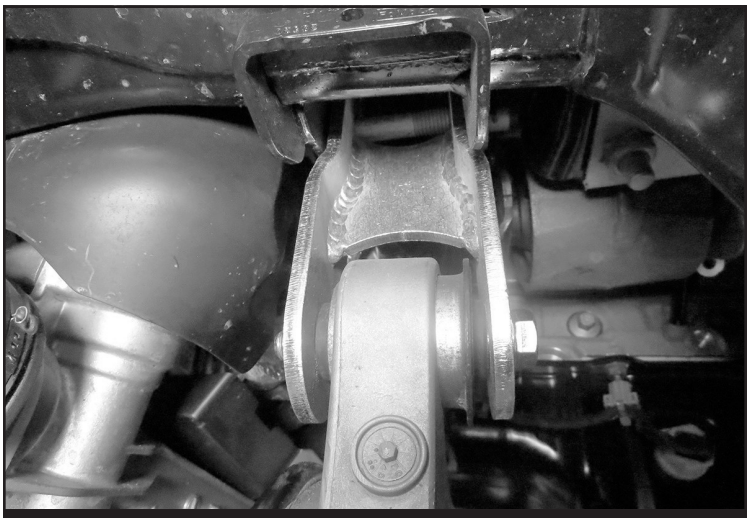


FIGURE 31 - STEP 23

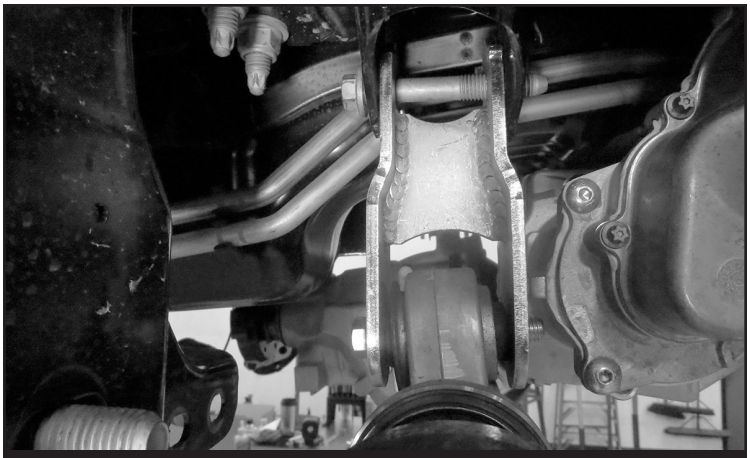


FIGURE 32 - STEP 23

24. Locate the Fabtech rear crossmember (FT30593BK) and rear diff plate (FT30619BK). Install the rear diff plate on the rear crossmember using the 3/8” hardware. Leave loose. Install the crossmember using the 18mm and 1/2-13 X 4” hardware for the driver side and reuse the factory hardware for the passenger side. **NOTE: It may be necessary to jack up the rear of the diff to install the 18mm and 1/2” hardware. SEE FIGURES 33-35**

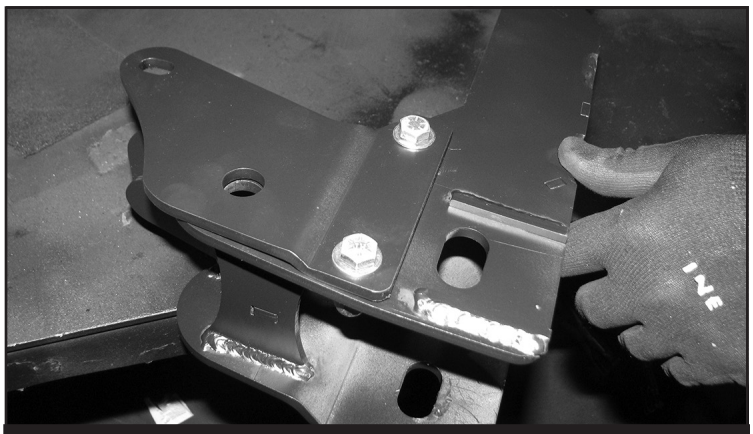


FIGURE 33 - STEP 24



FIGURE 34 - STEP 24



FIGURE 35 - STEP 24

25. Reinstall the front drive shaft with the factory hardware and torque to 35 ft-lbs. **SEE FIGURE 36**

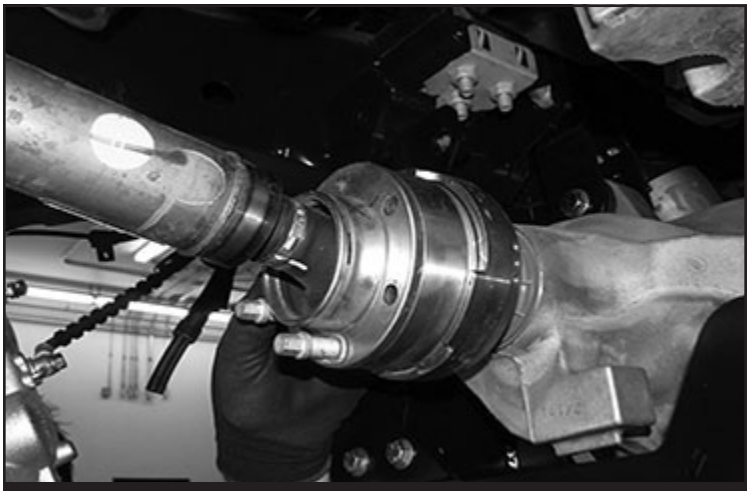


FIGURE 36 - STEP 25

26. Torque the upper differential bracket hardware to 68 ft-lbs and the lower bracket hardware to 106 ft-lbs.

27. Install the supplied 4” hose to the factory differential vent tube and back on to the differential. **SEE FIGURE 37**



FIGURE 37 - STEP 27

28. Install FT30592BK (Front crossmember) into the factory front control arm pockets using the factory hardware. Make sure the skid plate tab on the crossmember is facing the Fabtech rear crossmember. Leave the hardware loose at this time. **SEE FIGURE 38**

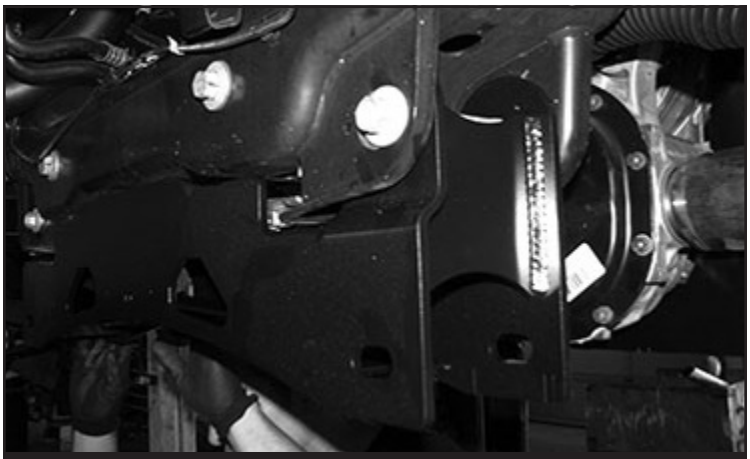


FIGURE 38 - STEP 28

29. Install FT30377BK (Skid Plate) to the front and rear crossmember using the supplied three 1/2" x 1-1/4" bolts, nuts and washers. Leave loose at this time. **SEE FIGURE 39**



FIGURE 39 - STEP 29

30. Install the factory lower control arms into the Fabtech crossmembers using the hardware in the cam kit (FT292). Using the provided thread lock torque the cam bolts to 225 ft-lbs after alignment. Torque all crossmember bolts to 225 ft-lbs. Torque the 1/2" rear differential plate hardware as well as the skid plate hardware to 89 ft-lbs. **SEE FIGURES 40-41**

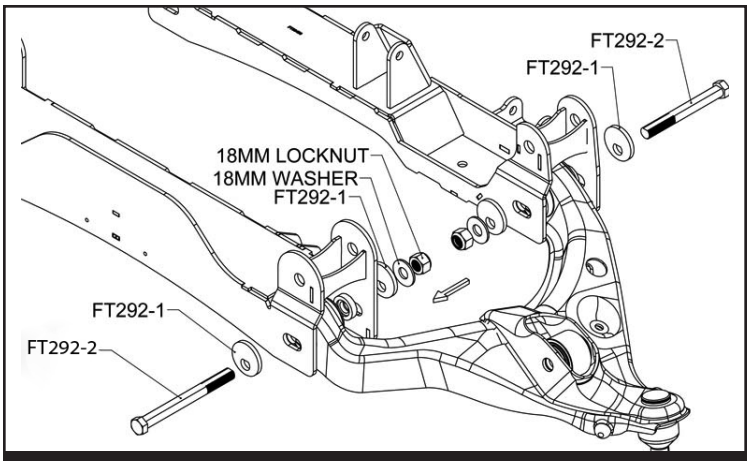


FIGURE 40 - STEP 30



FIGURE 41 - STEP 30

31. **If installing Fabtech upper control arms do so now using the instructions included in the FTS22331 box.**

- **If installing Dirt Logic coilovers do so at this time using the instructions provided in the coilover box. Once finished, skip to STEP 36.**

If using FTS30503 strut continue with the next step.

32. Locate the factory coilovers removed earlier.

33. Using a spring compressor, compress the factory spring and remove the top coilover center nut and cap. Next install the factory spring onto the new Fabtech coilover using the new lower isolator and re-using the factory top cap and hardware. **SEE FIGURE 42**

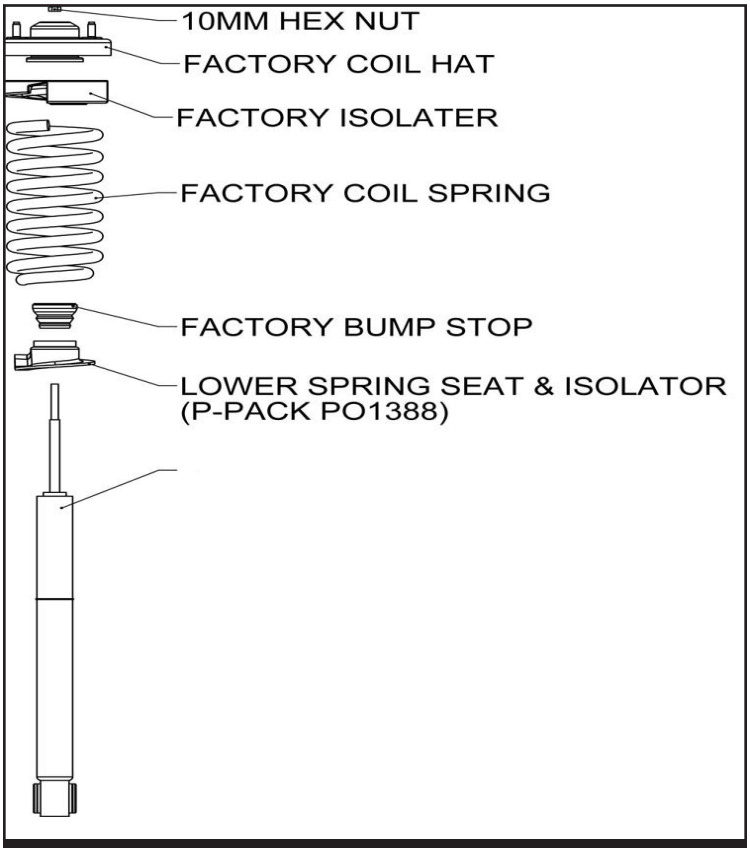


FIGURE 42 - STEP 33

34. Install the coilover into the frame bucket using the factory hardware. Torque 59 ft-lbs. **SEE FIGURES 43-44**

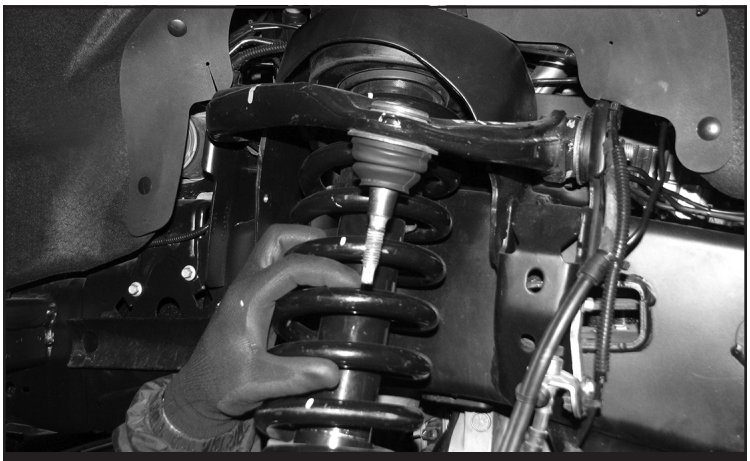


FIGURE 43 - STEP 34

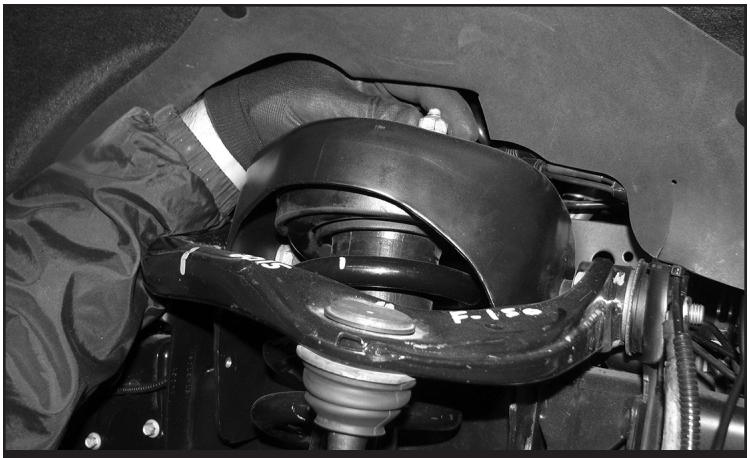


FIGURE 44 - STEP 34

35. Rotate the lower control arm up and mount to the lower coilover bar pin using the supplied 1/2”-13 X 3” bolts and hardware. Torque to 127 ft-lbs. **SEE FIGURE 45**

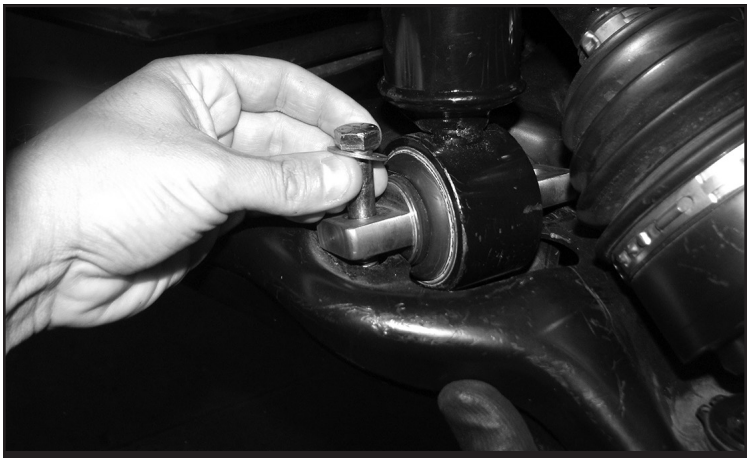


FIGURE 45 - STEP 35

36. Locate the factory spindles. Remove the four bolts attaching the hub assembly to the spindle. Then, remove the hub assembly on both spindles. **SEE FIGURES 46-47**

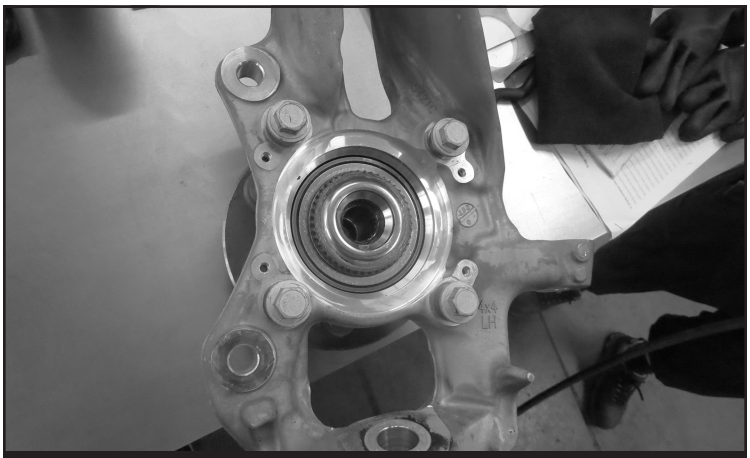


FIGURE 46 - STEP 36



FIGURE 47 - STEP 36

37. Install the factory hubs onto the new FT30950D & FT30950P (Driver & Passenger Spindles) using the factory hardware. Torque to 160 ft-lbs. **SEE FIGURE 48**



FIGURE 48 - STEP 37

38. Install the new Fabtech spindle onto the lower control arm. Hand tighten the lower ball joint nut. Slide the 4wd actuator onto the cv shaft then install the actuator to the spindle using the factory hardware. Torque to 7 ft-lbs. Install the shaft through the hub assembly. Install the spindle to the upper control arm using the factory nut. Torque the upper ball joint to 65 ft-lbs and the lower ball joint to 85 ft-lbs. **SEE FIGURES 49-51**



FIGURE 49 - STEP 38

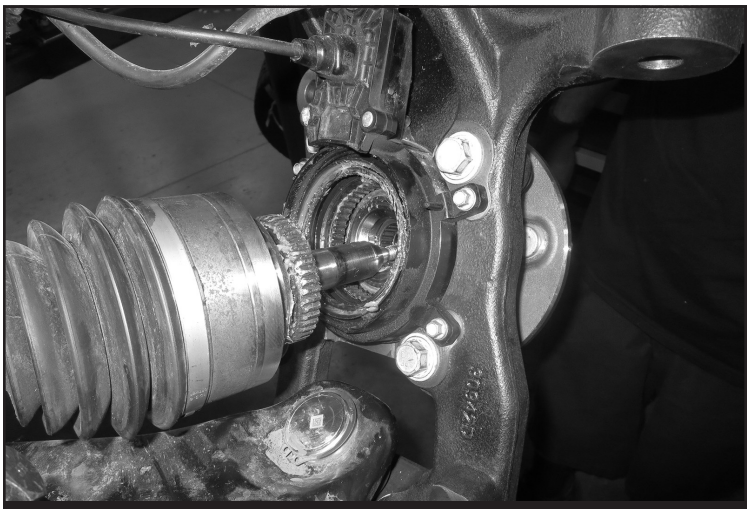


FIGURE 50 - STEP 38

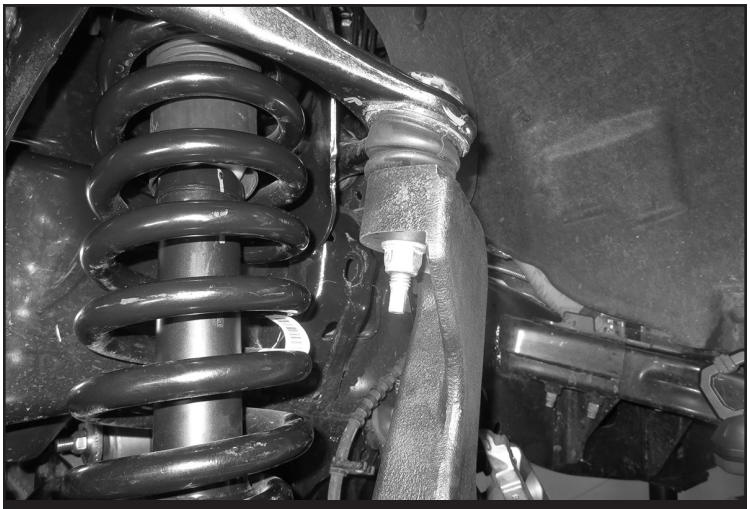


FIGURE 51 - STEP 38

39. Install the CV axle shaft nut and cover. Torque the 25 ft-lbs. **SEE FIGURE 52**



FIGURE 52 - STEP 39

40. Install the wheel speed sensor using the factory screw. Make sure the end of the sensor is clean. Torque to 7 ft-lbs. **SEE FIGURE 53**

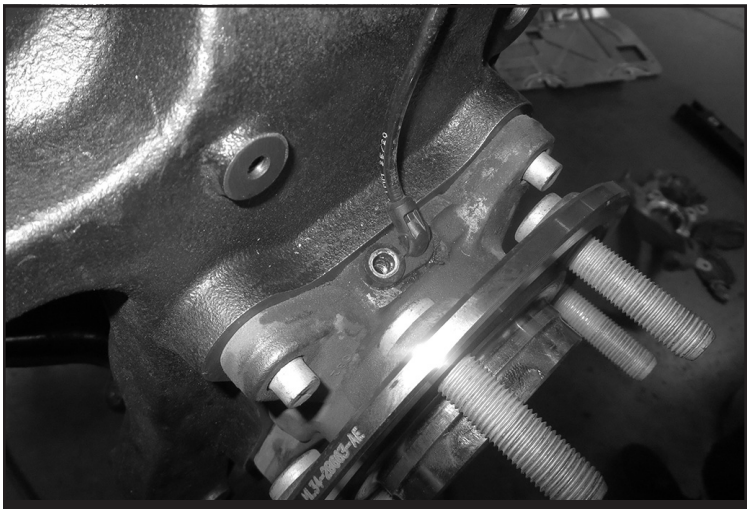


FIGURE 53 - STEP 40

41. Instal the factory dust shield using the factory hardware. Torque to 14 ft-lbs. **SEE FIGURE 54**



FIGURE 54 - STEP 41

42. Reinstall the factory brake rotor, followed by the brake caliper. Torque to 145 ft-lbs. Repeat steps on the passenger side. **SEE FIGURE 55-56**



FIGURE 55 - STEP 42

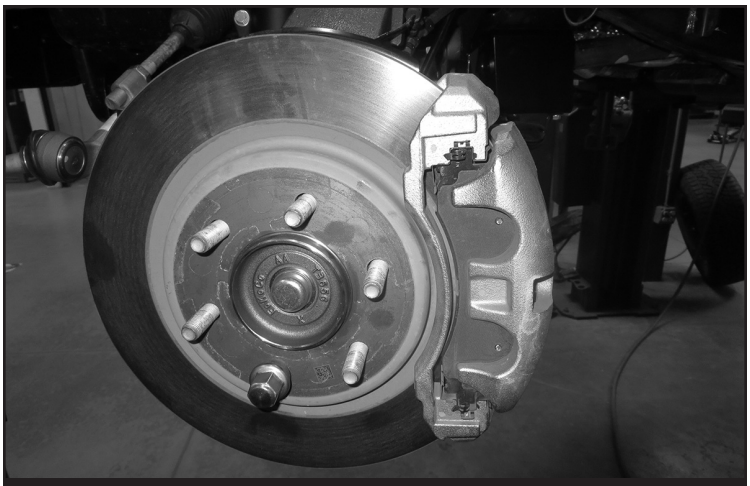


FIGURE 56 - STEP 42

43. Install FT30621 (Driver sway bar bracket) & FT30622 (Passenger sway bar bracket to the frame using the factory hardware. **SEE FIGURE 57**



FIGURE 57 - STEP 43

44. Using the supplied 7/16” hardware install the factory sway bar to the new drop brackets. Next, reinstall the the end links to the new spindle using the factory hardware. Torque the factory and 7/16” hardware to 65 ft-lbs. **SEE FIGURE 58**

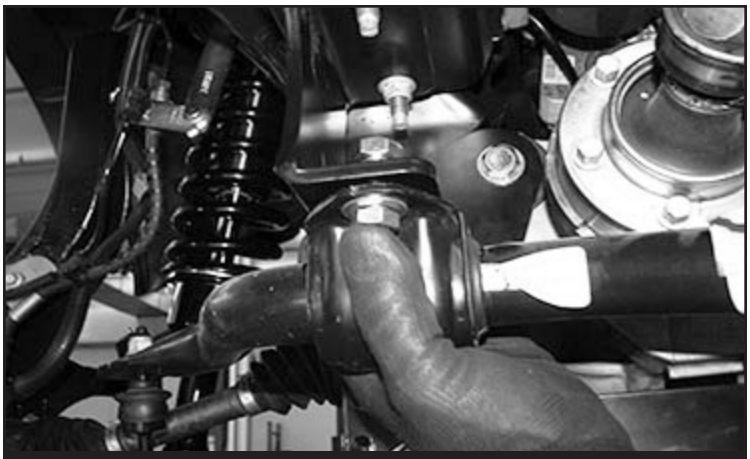


FIGURE 58 - STEP 44

45. Install FT30496 (Brake line bracket) to the frame using the factory hardware. Next, install the brake line to the new bracket using the supplied 5/16” hardware. Torque to 14 ft-lbs. **SEE FIGURE 59**

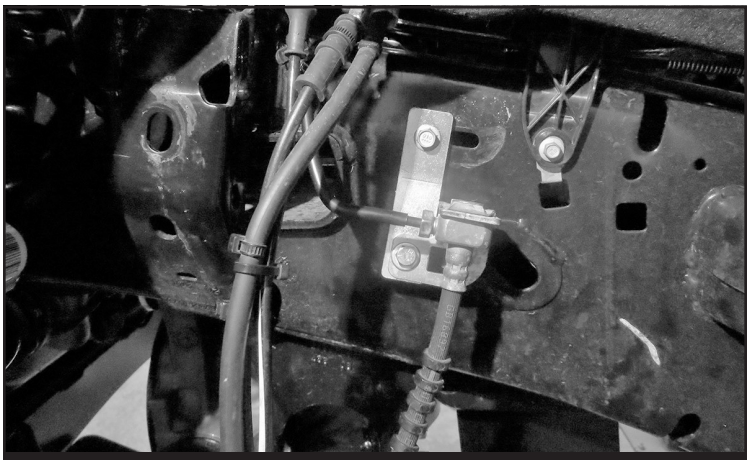


FIGURE 59 - STEP 45

46. Install the factory brake hose bracket to the new spindle using the factory bolt. **NOTE: The bracket may need to be bent slightly for proper fitment. SEE FIGURE 65**

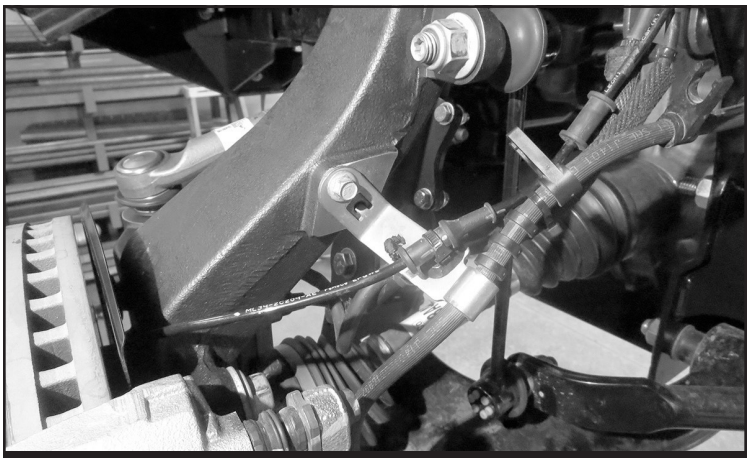


FIGURE 60 - STEP 53

47. Reconnect the tie rod end to the spindle using the factory hardware. Torque to 60 ft-lbs.

REAR SUSPENSION

48. Jack up the rear end of the vehicle and support the frame rails with jack stands. Release the parking brake at this time. Supporting the rear differential, remove the rear shocks, u-bolts, blocks and lower axle down. Use care not to over extend the brake hose.

49. Locate the factory brake line mount on the driver side of the frame. Locate the supplied brake line bracket (FT70033) and attach the bracket between the factory fame mount and the factory brake line using the factory and supplied 5/16" hardware using the inside holes. **SEE FIGURE 61**



FIGURE 61 - STEP 49

50. Install the new rear lift blocks FTBK22. The extended bump stop perch will be facing inboard of the truck. Using the provided u-bolts, nuts and washers, align the axle, lift blocks, and springs and torque u-bolts to 90 ft-lbs. **SEE FIGURE 62**



FIGURE 62 - STEP 50

51. Locate the Fabtech performance shocks (FTS7266), Stealth shocks(FTS6063) or Dirt Logic shocks (FTS81160). Install the shocks using the factory hardware and torque upper and lower bolts to 45 ft-lbs. **SEE FIGURES 57-58. NOTE: The FTS7266 and FTS6266 shocks are to be installed with the body down.**



FIGURE 63 - STEP 55

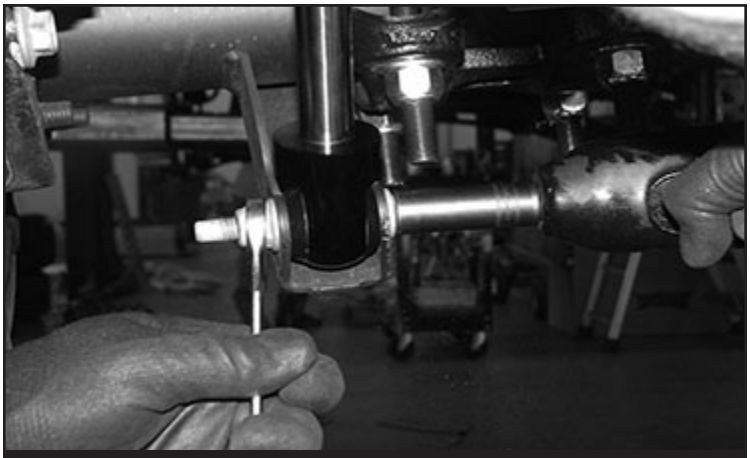


FIGURE 64 - STEP 55

52. 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.

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

54. Recheck all bolts for proper torque. **RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER UNTIL TORQUE VALUES ARE RETAINED.**

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

56. 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.**

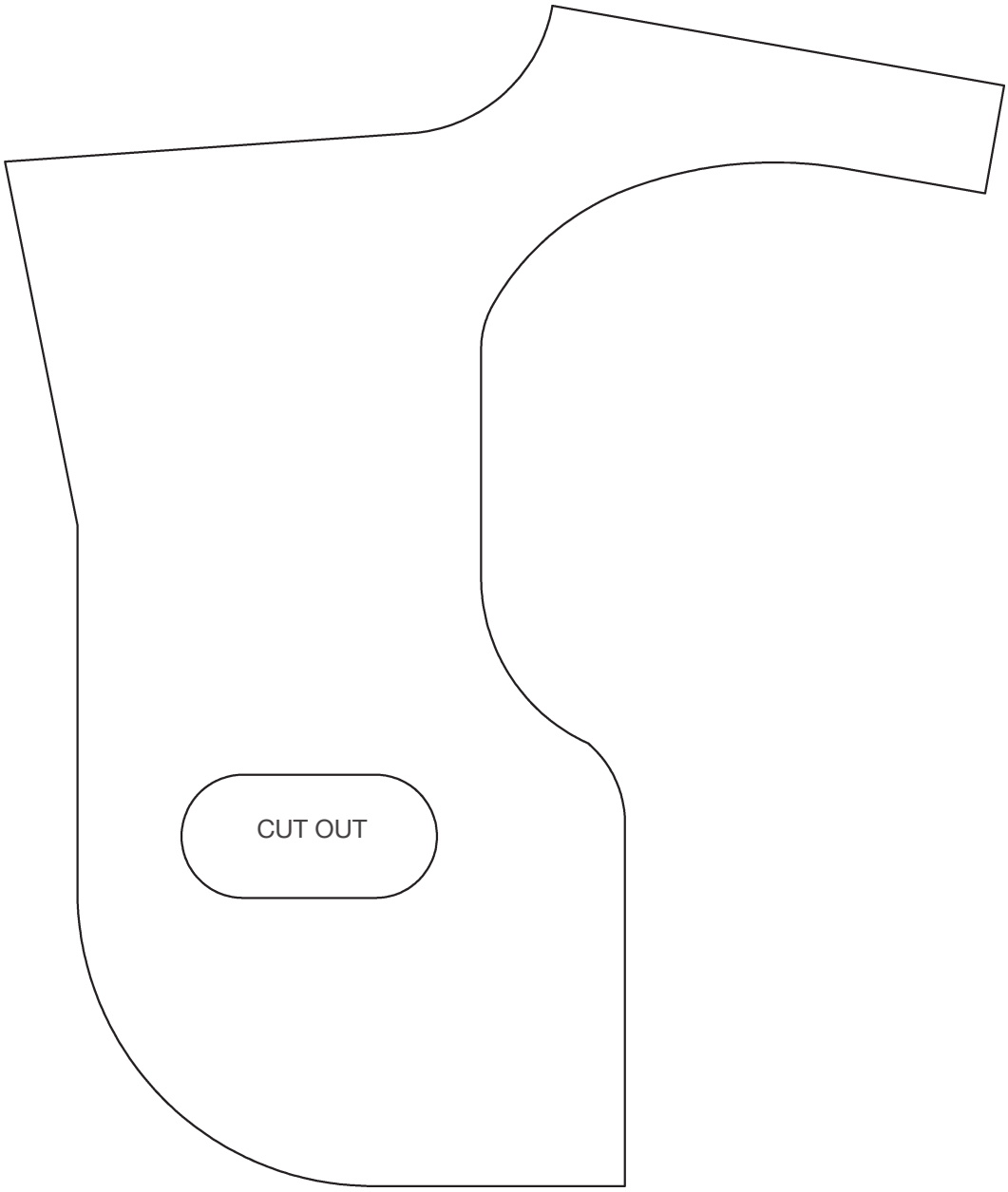
57. Check ball joints, uniballs bearings, bushings and all steering components every 2500-5000 miles for wear and replace as required.

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

59. Review all included warnings and warranties with consumer

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

CUT OUT TEMPLATE FOR USE ON STEP 21



- 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

	FTS22270	2.5” Dirt Logic SS Coilover w/Resi (2” 2WD)
1	FT820532D	DLSS Coilover w/Resi (Driver)
1	FT820532P	DLSS Coilover w/Resi (Pass)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT30794	2.5 RESI MOUNT

	FTS22253	2.5” Dirt Logic SS Coilover w/Resi (2” 4WD)
1	FT820502	DLSS Coilover w/Resi
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22264	2.5” Dirt Logic SS Coilover w/Resi (4” 2WD)
1	FT820512	DLSS Coilover w/Resi
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22188	2.5” Dirt Logic SS Coilover w/Resi (4” 4WD)
1	FT820362	DLSS Coilover w/Resi (2014)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22185	2.5” Dirt Logic SS Coilover w/Resi (4” 4WD)
1	FT820382	DLSS Coilover w/Resi (2015-2020)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22187	2.5” Dirt Logic SS Coilover w/Resi (6” 4WD)
1	FT820352	DLSS Coilover w/Resi (2014)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22186	2.5” Dirt Logic SS Coilover w/Resi (6” 4WD)
1	FT820392	DLSS Coilover w/Resi (2015-2020)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22333	2.5” Dirt Logic SS Coilover w/Resi (6” 4WD)
1	FT82073D	DLSS Coilover w/Resi (Driver) (2021)
1	FT82073P	DLSS Coilover w/Resi (Pass) (2021)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

	FTS22355	2.5” Dirt Logic SS Coilover w/Resi (4” 4WD)
1	FT82076D	DLSS Coilover w/Resi (Driver) (2021)
1	FT82076P	DLSS Coilover w/Resi (Pass) (2021)
1	FT820352i	INSTRUCTIONS
1	FT30624	HARDWARE SUBASSEMBLY
1	FT83369BK	2.5 RESI MOUNT

Thank you for purchasing Dirt Logic shocks, the finest off-road shock in the industry. Each unit is built to exacting standards and is properly tuned specifically for your vehicle. Dirt Logic shocks are designed and built to both beautify and upgrade your suspension system.

How To Care For Your Dirt Logic Shocks

Dirt Logic shocks have been designed as a take apart, serviceable, race style unit. That means, just like a race shock, it will need to be maintained and periodically rebuilt. The tight tolerances of this provide the exceptional ride and performance you are paying for but do require maintenance which is normal in a take apart shock like a Dirt Logic.

Externally, the shock should be kept clean at all times and kept free of dirt, road salt or other corrosive elements. The unit should be routinely washed with a pH balanced cleaner to keep the finish looking new. Do not use any abrasive or aggressive cleaners or degreasers as it will harm the finish for life including the aluminum anodizing.

Internally, the shock has high performance seals that allow the shock to cycle at very high rates and provide exceptional damping in aggressive off-road conditions. These seals are a wearable item and may need to be replaced periodically to keep the shock functioning correctly. Our in house Shock Lab is equipped to handle these needs when necessary.

Caution – Read Before Installing

Stop – Call FABTECH customer service if any component of this product is missing. Do not return it to the place of purchase! For technical assistance call: 909-597-7800

This Dirt Logic Shock is shipped pressurized with Nitrogen. Do not remove tamper cap or warranty will be void.

If this shock is equipped with a reservoir hose, do not loosen or remove the hose or warranty will be void.

If this shock is equipped with a coil, be aware that the coil has some amount of preload from the factory and should not be removed. Removal of the coil will void the warranty.

If this shock product needs to be returned for any reason, it must be returned in its original packaging or warranty will be void.

Dirt Logic Shocks come with a one year warranty from the original date of purchase for defects in material or workmanship.

A spanner wrench can be purchased for future adjustment. (FTS89905 for 4.0 and FTS98008 for 2.5)

Should you have any questions regarding your Dirt Logic Shocks, please feel free to contact us.

2015-2020 2” 2WD Installation Instructions:

Install the coilover using the provided 3/8” hardware on the top mount, and the 7/16” hardware for the lower mount. Torque 3/8” to 52 ft-lbs. and the 7/16” 70 ft-lbs. Next mount the Resi mount (FT30794) to the top of the frame using the supplied self tapping screws. NOTE: Make sure you have enough slack in the hose before mounting the Resi mount. Finally mount the Resi to the mount using the supplied clamps.



2015-2020 4”& 6” Installation Instructions:

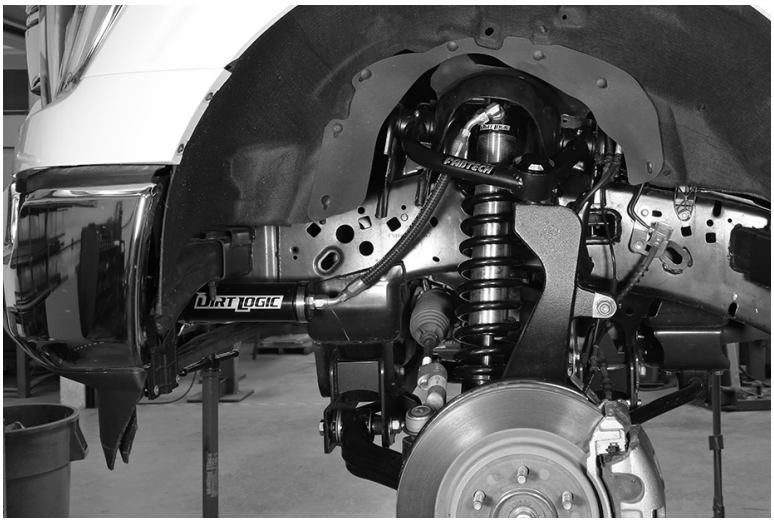
Install the coilover using the provided 3/8” hardware on the top mount, and the 7/16” hardware for the lower mount. Torque 3/8” to 52 ft-lbs. and the 7/16” 70 ft-lbs. Next mount the Resi mount (FT83369BK) to the frame using the supplied self tapping screws. NOTE: Make sure you have enough slack in the hose before mounting the Resi mount. Finally mount the Resi to the mount using the supplied clamps. SEE FIGURES BELOW.





2021-2022 4”& 6” Installation Instructions:

Install the coilover using the provided 3/8” hardware on the top mount, and the 7/16” hardware for the lower mount. Torque 3/8” to 52 ft-lbs. and the 7/16” 70 ft-lbs. Next mount the Resi mount (FT83369BK) to the frame using the supplied self tapping screws. NOTE: Make sure you have enough slack in the hose before mounting the Resi mount. Finally mount the Resi to the mount using the supplied clamps. SEE FIGURES BELOW.



- 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.