INSTALLATION INSTRUCTIONS



2010-14 FORD F150 SVT RAPTOR
4” SYSTEM

FTS22161

Fabtech Motorsports | 4331 Eucalyptus Ave. Chino, CA 91710

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

PARTS LIST

	FTS22161	COMPONENT BOX 1
1	FT30527BK	SHOCK EXTENSION UPPER HALF A (DRIVER)
1	FT30528BK	SHOCK EXTENSION UPPER HALF B (DRIVER)
1	FT30529BK	SHOCK EXTENSION LOWER (DRIVER)
1	FT30530BK	SHOCK EXTENSION LOWER (PASSENGER)
4	FT30533	ALUMINUM SHOCK BUSHING
1	FT30531BK	REAR SHOCK DROP MOUNT (DRIVER)
1	FT30532BK	REAR SHOCK DROP MOUNT (PASSENGER)
1	FT30534BK	SHOCK EXTENSION UPPER HALF A (PASSENGER)
1	FT30535BK	SHOCK EXTENSION UPPER HALF B (PASSENGER)
1	FT30377BK	SKID PLATE
1	Ft30585bk	DIFF DROP BRACKET REAR
1	FT30489BK	FRONT CROSSMEMBER
2	FT30491	DIFF DROP BRACKET UPPER
1	FT30492	SWAY BAR DROP BRACKET (DRIVER)
1	FT30493	SWAY BAR DROP BRACKET (PASSENGER)
1	FT30567	DIFF DROP BRACKET CENTER
1	FT30512BK	REAR CROSSMEMBER
1	FT30566	HARDWARE KIT

	FTS22162	COMPONENT BOX 2
1	FT295	ALIGNMENT CAM HALF KIT
1	FT30525	HARDWARE KIT
1	FT30526	HARDWARE SUBASSEMBLY
4	FT737U	UBOLT SQ 9/16-18X10.50X3.00
2	FTBK52	BLOCK 5" W/ 2 PIN
1	FTS30494D	SPINDLE MACHINED (DRIVER)
1	FTS30494P	SPINDLE MACHINED (PASSENGER)

	FT30566 - HARDWARE KIT	LOCATION
1	1/2-13 X 2-3/4 HEX BOLT G8 ZNC	DIFF MOUNT
1	1/2-13 X 2 HEX BOLT G8 ZINC	DIFF MOUNT
4	1/2 SAE WASHER G8 ZINC	DIFF MOUNT
2	1/2-13 C-LOCK NUT ZINC	DIFF MOUNT
3	M10-1.5 X 45MM HEX BOLT G10.9	DIFF MOUNT
3	10MM SPLIT WASHER	DIFF MOUNT
3	M10 FLAT WASHER ZINC	DIFF MOUNT
1	5/16-18 X 2-3/4 SHCS	DIFF MOUNT
1	5/16 SAE WASHER G5 ZINC	DIFF MOUNT
1	5/16-18 C-LOCK NUT ZINC	DIFF MOUNT
6	7/16-14 C-LOCK NUT ZINC	SHOCK EXT
6	7/16 SAE WASHER G5 ZINC	SHOCK EXT

	FT30525	HARDWARE KIT
Qty.	Description	Location
8	5/16-18 X 1-1/4 HEX BOLT G8	SHOCK MOUNT
2	M12-1.75 X 80 HEX C/S CL 10.9	
4	WASHER 12MM FLAT Z1	DIFF
2	M12-1.75 GR C CROWNLOCK NUTS	
2	1/4 LOCK WASHER	
8	1/2-13 X 4 HEX BOLT G8	
16	1/2 SAE WASHER G8	
8	1/2-13 C-LOCK NUT	
3	1/2-13 X 1 HEX BOLT G8	
6	1/2 SAE WASHER G8	
3	1/2-13 C-LOCK NUT	
4	3/8-16 X 1-1/4 HEX BOLT G8	
8	3/8 SAE WASHER G8	
4	3/8-16 C-LOCK NUT	
1	1/2-13 X 3-1/2 HEX BOLT G8	
2	7/16 SAE WASHER G8	
1	7/16-14 C-LOCK NUT	
2	5/16-18 X 1 HEX BOLT G8	
20	5/16 SAE WASHER G8	
10	5/16-18 C-LOCK NUT	
6	7/16 SAE WASHER G8	
6	7/16-14 C-LOCK NUT	
1	1/4-20 X 1 HEX BOLT G8	SPINDLE
2	1/4 SAE WASHER G8	
1	1/4-20 C-LOCK NUT	
5	1/2-13 X 1-1/4 HEX BOLT G8	
8	1/2 SAE WASHER G8	
3	1/2-13 C-LOCK NUT	
1	5/16-18 X 1 HEX BOLT G8	
2	5/16 SAE WASHER G8	
1	5/16-18 C-LOCK NUT	
8	9/16 SAE WASHER G5	U-BOLTS
8	9/16-18 NYLOCK NUT G5	
1	THREAD LOCKING COMPOUND 1 MIL	
2	ZIP TIE 8" BLACK 40 LBS	

	FT30526	HARDWARE SUBASSEMBLY
2	FT30539	NUT TAB
2	FT99	SLEEVE 1.250 X .813 X 2.350
4	FT1036	BUSHING HALF
2	FT22161I	INSTRUCTIONS
2	FT30496	FRONT BRAKE LINE BRACKET
1	FT70033	PROPORTIONING VALVE EXT
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD
4	FT1020	BUSHING
2	FT181	SLEEVE

	FT295	ALIGNMENT CAM HALF KIT
4	50000005652	WASHER FLAT M18 ZINC
4	50180004382	LOCKNUT M18-2.5 CL8 ZINC
8	FT292-1	ALIGNMENT CAM
2	FT292-2	ALIGNMNT BOLT 150MM LONG
2	FT295-1	ALIGNMNT BOLT 180MM LONG

- 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
Drill & Drill Bits
A Press to remove factory bushing from coilover

- 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.
- Use the provided thread locking compound on all hardware.
- Do not combine this suspension system with any other lift device or parts.
- WARNING- Installation of this system will alter the center of gravity of the vehicle and may increase roll over as compared to stock.

Footnotes-

- **For use on Raptor models only.**
- OEM Wheels and tires cannot be used after the installation of this kit. Larger tire cannot be installed on the OEM wheels.
- Must use 18” or larger wheels.
- Will not work with factory skid plate.
- Vehicles that receive oversized tires should check ball joints, 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.

Recommend Tires and Wheels:

- Use 355/65R18 tire w/ 18x9 wheels w/ 5” BS w/ minor trimming
- Use 37/12.50R18 tire w/ 18x9 wheels w/ 5” BS w/ minor trimming

- 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 splash guard under the differential.

3. Locate the sway bar end links and disconnect from the factory lower control arms, save the hardware. Locate the sway bar frame mounts and disconnect them from the frame, remove the sway bar from the truck. Save the hardware and sway bar.

4. Working from the driver side of the vehicle, remove tie rod end nut and disconnect the tie rod ends from the steering knuckle by striking the knuckle to dislodge the tie rod end. Use care not to hit the ball joints when removing. **SEE FIGURE 1**

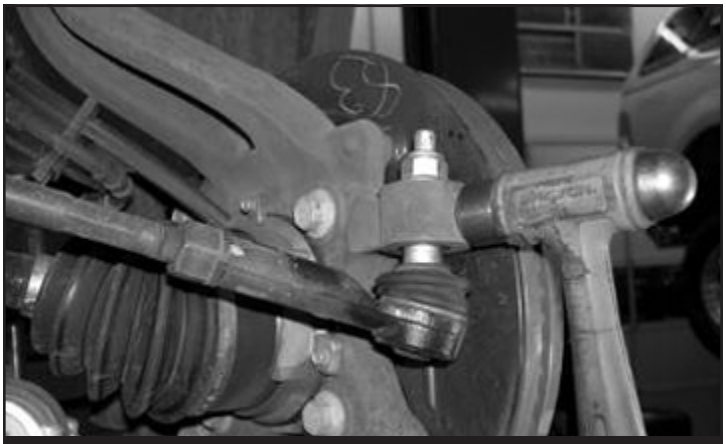


FIGURE 1 - STEP 4

5. Remove the brake caliper and place it next to the frame. Do not overstretch the brake hose when doing so. Retain the hardware for reinstallation. Remove the brake rotor and save. Disconnect the vacuum lines attached to the rear of the hub assembly. Allow the vacuum lines to hang freely. Remove the electronic stability control (ESC) sensor from the top of the hub. Cover the sensor to keep it free from dirt and debris.

6. Carefully remove the dust cap covering the hub assembly nut. Remove the C.V. bearing nut and save the nut and dust cap.

7. Remove the upper and lower ball joint nuts. Disconnect the upper and lower ball joints from the steering knuckle by striking the knuckle with a large hammer next to each ball joint on the knuckle to dislodge the ball joints. Use care not to hit the ball joints when removing. Retain hardware and remove the knuckle with the dust shield and the hub. Use extra care not to over extend the C.V. axle shaft when removing the knuckle. **SEE FIGURE 2**



FIGURE 2 - STEP 7

8. Remove the four large bolts and three small bolts on the back side of the knuckle. Remove the hub and the actuator from the knuckle. Save hardware for install in the Fabtech knuckle.

9. Remove the bolts on the front side holding the dust shield. Remove the dust shield and discard the factory knuckle

10. Locate the lower shock mount bolt and remove. Save the hardware. Locate the three upper nuts and remove. Save the hardware. Remove the shock assembly from the vehicle and mark “Driver” for reassembly later.

11. Remove the lower control arm bolts from the frame pivots and remove the lower control arm from the truck. Save hardware and lower control arm. **SEE FIGURE 3**

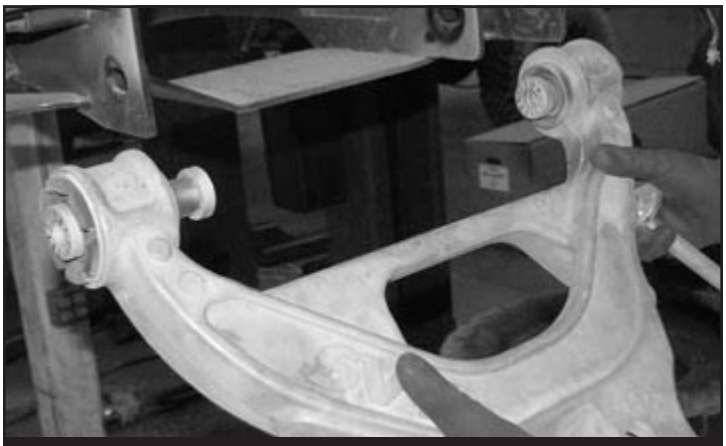


FIGURE 3 - STEP 11

12. Repeat steps 4 through 11 on the passenger side of the truck.

13. Remove the factory rear crossmember from the vehicle and discard the crossmember and hardware.
SEE FIGURE 4



FIGURE 4 - STEP 13

14. Remove the front drive shaft bolts where it attaches to the front differential. Support the end of the drive shaft before removing the front differential. Retain hardware.

15. Remove the driver side rear differential mount hardware and discard. While supporting the differential, remove the two upper differential mount bolts and remove the differential and axles from the vehicle. Save the hardware.
SEE FIGURE 5

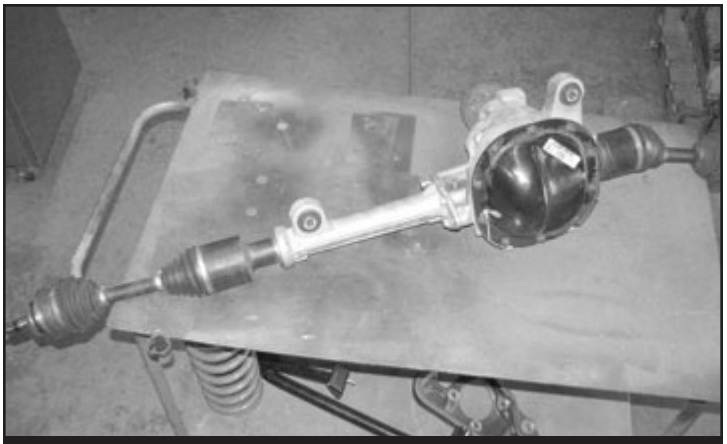


FIGURE 5 - STEP 15

16. Locate rear differential housing mount closest to the pinion shaft. Mark the mount behind the bushing. Using a die grinder remove the mount and discard.
SEE FIGURES 6-9

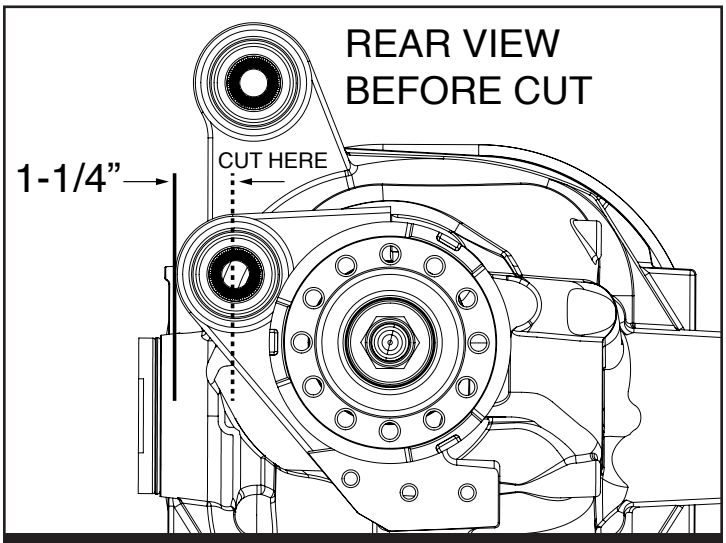


FIGURE 6 - STEP 16

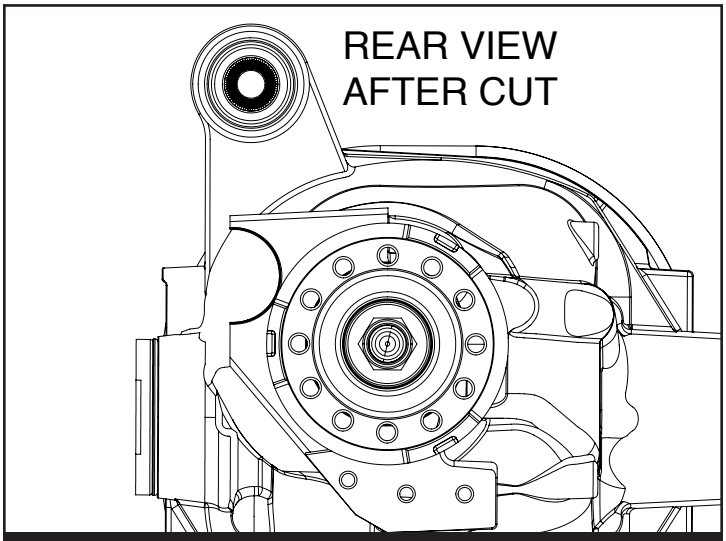


FIGURE 7 - STEP 16



FIGURE 8 - STEP 16

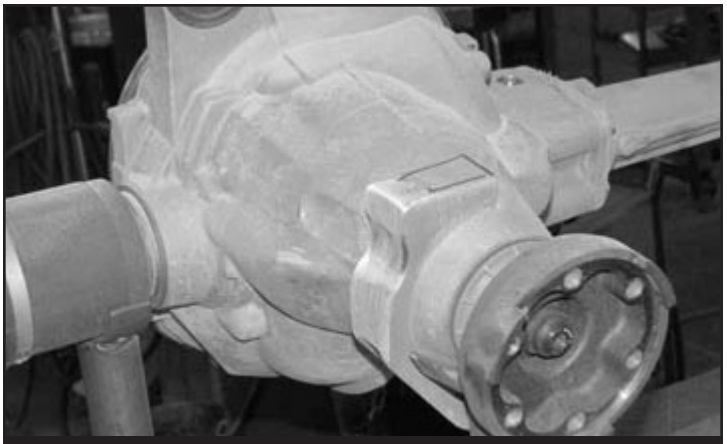


FIGURE 9 - STEP 16

17. Locate the driver side rear lower control arm pocket. Mark the frame 1-1/4” from the control arm pivot hole on the side of the hole closest to the center of the vehicle. Mark the frame from the bottom of the pivot 3/4“ down. Using a die grinder, cut all the way around the pocket. Discard removed portion of the pocket. **SEE FIGURES 10-12**

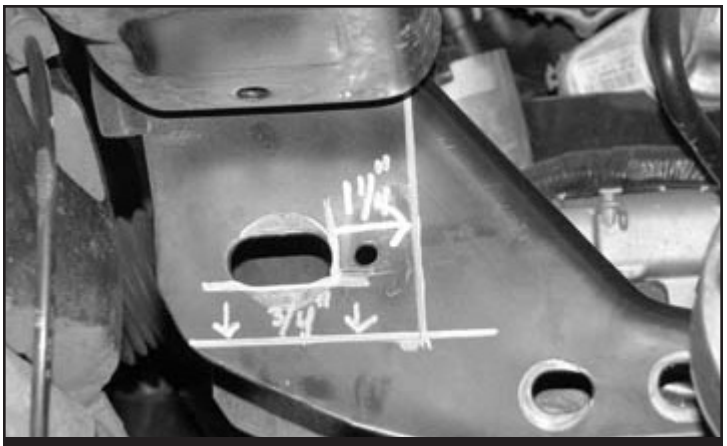


FIGURE 10 - STEP 17



FIGURE 11 - STEP 17

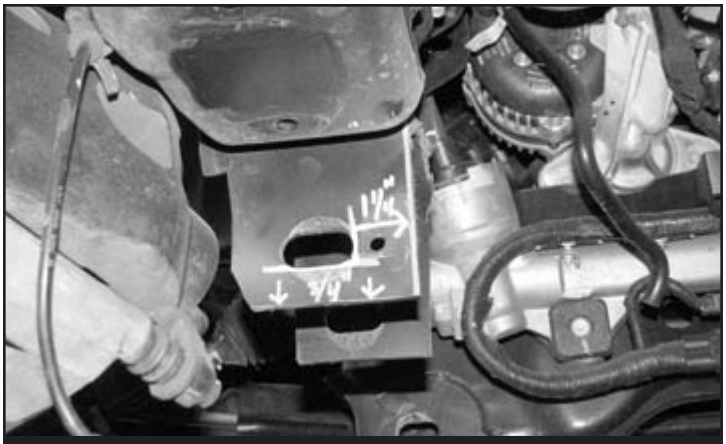


FIGURE 12 - STEP 17

18. Repeat this step on the passenger side rear control arm pocket. **SEE FIGURES 13-14**

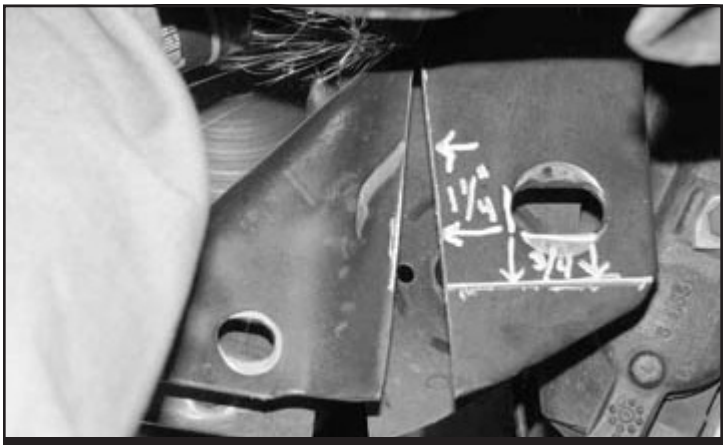


FIGURE 13 - STEP 18

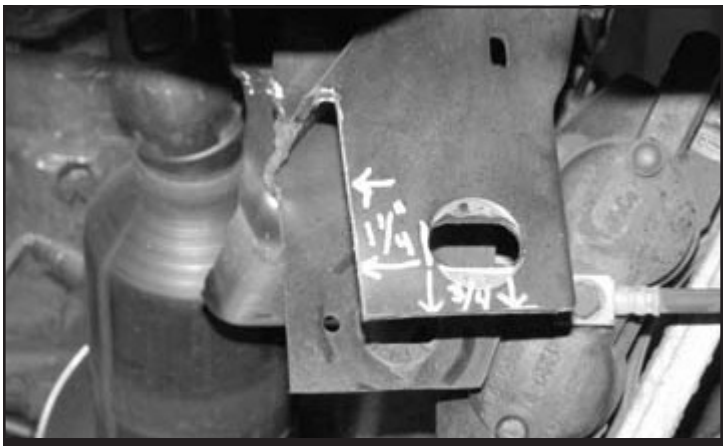


FIGURE 14 - STEP 18

19. Returning to the driver side rear lower control arm pocket, locate the tab on the pocket closest to the front of the vehicle. You will need to sand a radius in the front side of the pocket in order to clear the differential housing. **SEE FIGURE 15**

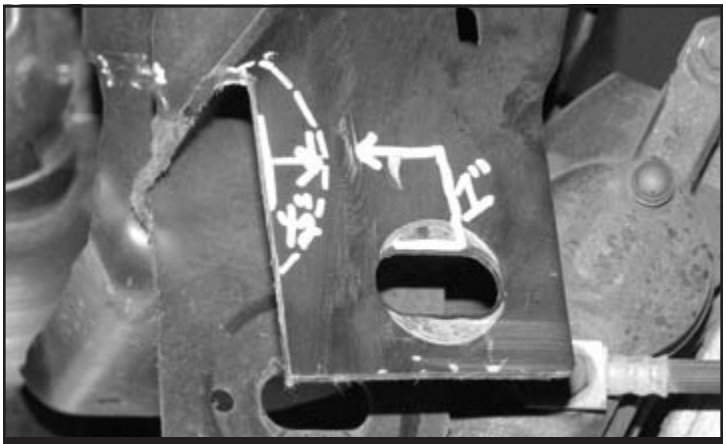


FIGURE 15 - STEP 19

20. 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 FIGURES 16-17**



FIGURE 16 - STEP 20



FIGURE 17 - STEP 20

21. Locate the factory front differential and install into the Fabtech upper differential mounts using two 1/2”-13 x 4” hex cap bolts, washers and lock nuts. Leave all hardware loose in preparation of the installation of the remaining differential mounts. **SEE FIGURES 18-19**



FIGURE 18 - STEP 21



FIGURE 19 - STEP 21

22. Locate the Fabtech rear crossmember (FT30512BK). Install the rear crossmember in the factory rear lower control arm pockets. Mount the crossmember using the factory control arm pivot hardware. Leave all hardware loose. All the tabs on the face of the crossmember should be pointed to the rear of the vehicle. **SEE FIGURE 20**



FIGURE 20 - STEP 22

23. Remove the center differential housing bolts on the back side of the differential, retain hardware. **SEE FIGURE 21**



FIGURE 21 - STEP 23

24. Locate the center differential bracket (FT30567). Install two of the Fabtech (FT1020) bushings and one sleeve (FT181) into the barrel on the differential bracket. **SEE FIGURE 22**

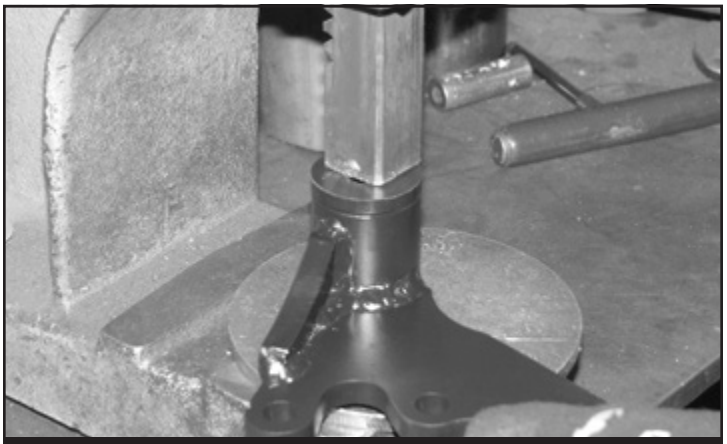


FIGURE 22 - STEP 24

25. Mount the differential bracket to the center of the differential using three M10-1.5 x 45mm bolts, lock washers, and flat washers. Mount the front tab on the diff to the center bracket using one ½-13 x 2" bolt, nut and washers. Leave loose at this time. **SEE FIGURES 23-25**



FIGURE 23 - STEP 25

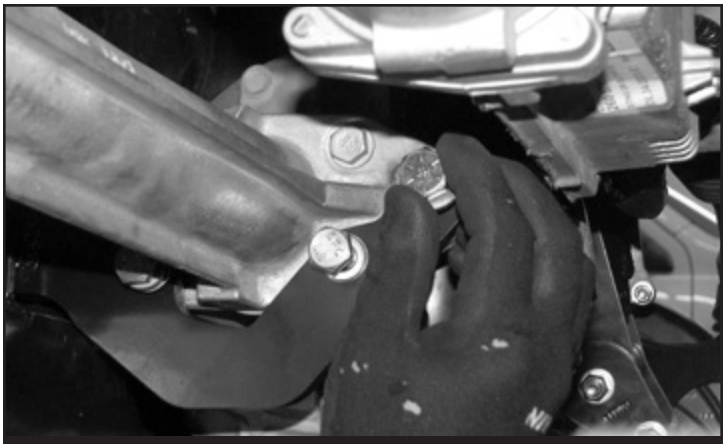


FIGURE 24 - STEP 25

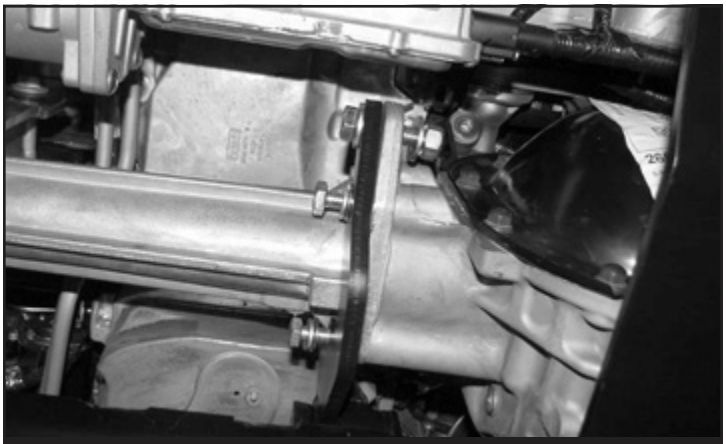


FIGURE 25 - STEP 25

26. Install a ½ -13 x 4" bolt washers and nut through the tabs on the rear crossmember and the bushing on the center bracket. Leave loose at this time. **SEE FIGURE 26-27**



FIGURE 26 - STEP 26

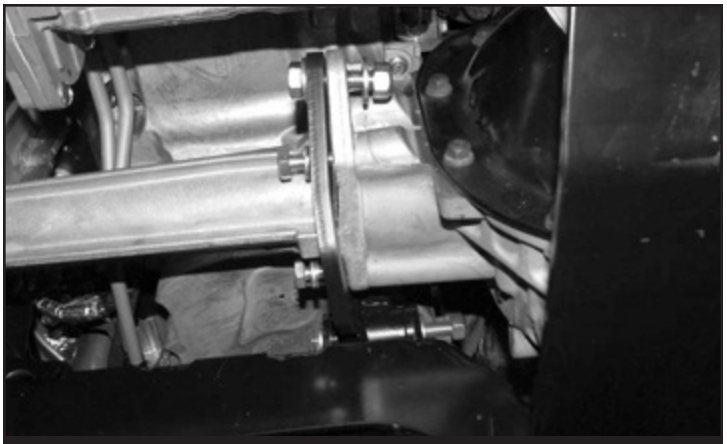


FIGURE 27 - STEP 26

27. Torque the M10-1.5 x 45mm bolts to 35 ft-lbs. Torque the ½-13 x 2” bolt to 90 ft-lbs.

28. Reinstall the front drive shaft with the factory hardware and torque to 35 ft-lbs. **SEE FIGURE 28**



FIGURE 28 - STEP 28

29. Locate the rear diff mount (Ft30585bk). Install two of the Fabtech (FT1020) bushings and one sleeve (FT181) into the barrel on the differential bracket. **SEE FIGURE 29**



FIGURE 29 - STEP 29

30. Install the rear diff bracket into the tabs on the rear crossmember using a ½-13x4” bolt, washers, and nut. **SEE FIGURE 30**

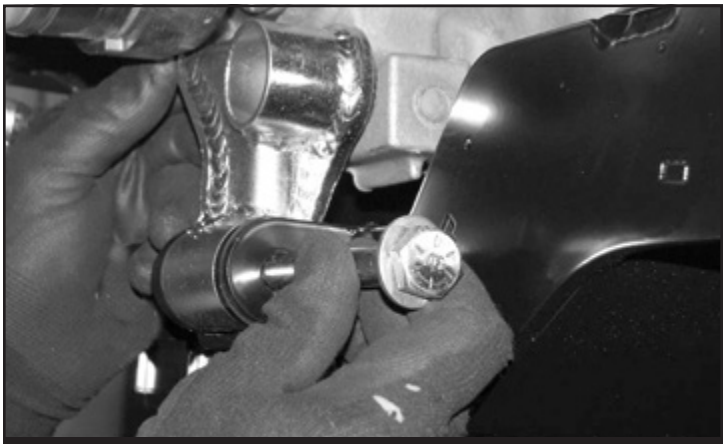


FIGURE 30 - STEP 30

31. Support the diff to make sure the block on the diff is centered with the hole in the rear bracket. **SEE FIGURE 31-32**

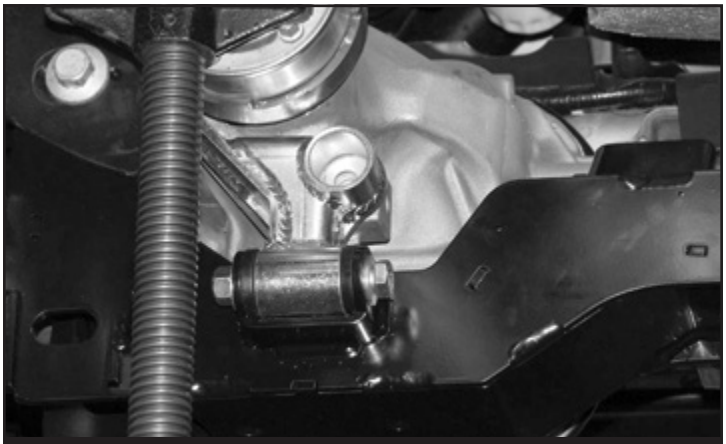


FIGURE 31 - STEP 31

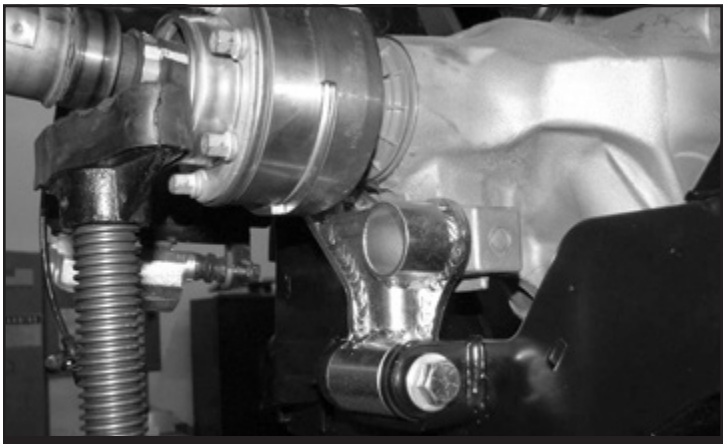


FIGURE 32 - STEP 31

32. Use the rear bracket as a drill guide to drill a ½" hole through the block on the rear of the diff. **SEE FIGURE 33**

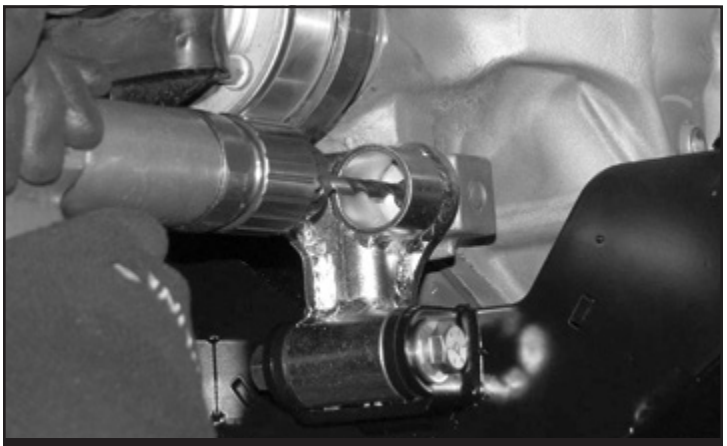


FIGURE 33 - STEP 32

33. Install a ½-13x2 bolt, washers and nut through the bracket and diff. Torque the bolt in the diff to 90 ft-lbs and the bolt in the crossmember to 90 ft-lbs. **SEE FIGURE 34**

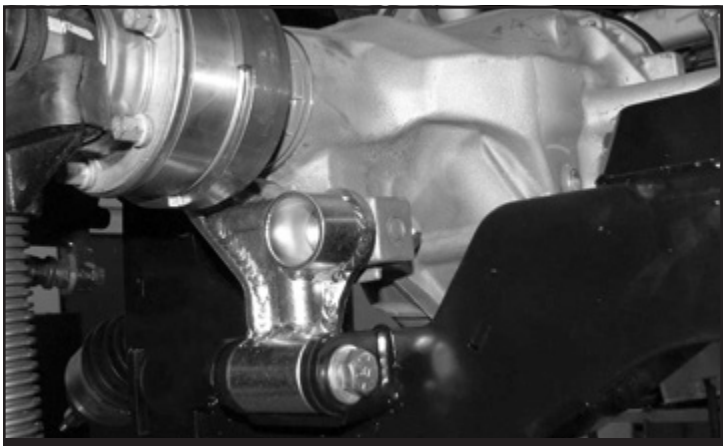


FIGURE 34 - STEP 33

34. At this time locate upper differential brackets and torque the factory upper bolts to 90 ft-lbs and lower ½" bolts 127 ft-lbs. Locate the center diff mount on the cross member and torque the ½-13 x 4" bolt to 90 ft-lbs.

35. Reinstall the factory vent hose back on to the differential.

36. Locate the Fabtech front crossmember (FT30489BK). Install the 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 35**



FIGURE 35 - STEP 36

37. Locate the Alignment cam kit (FT295). Locate the factory control arms. Install the lower control arms into the Fabtech crossmembers using the hardware in the cam kit (FT295). Torque the cam bolts at 200 ft-lbs. after alignment. **SEE FIGURES 36-37**

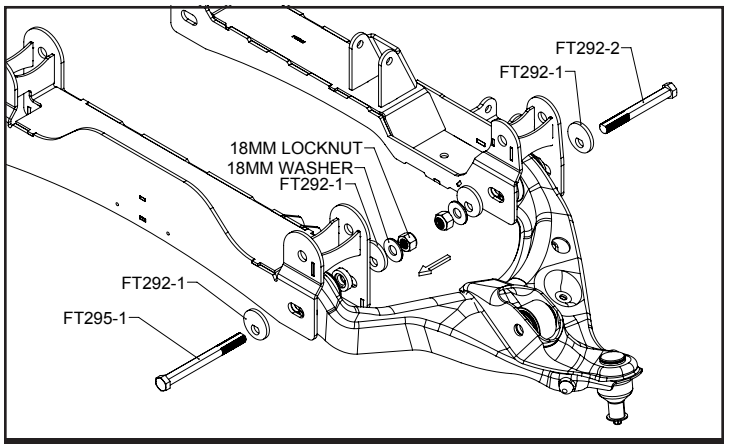


FIGURE 36 - STEP 37

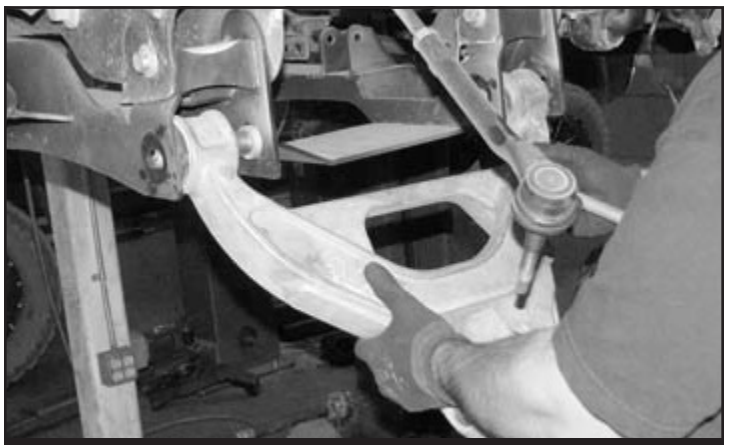


FIGURE 37 - STEP 37

38. Locate the Fabtech skid plate (FT30377BK).The skid plate will span the distance between the front and rear crossmembers directly under the front differential. Attach the end of the skid plate with the single hole to the tab on the back side of the front crossmember using one ½"- 13 x 1-1/4" bolt, washers and a C-lock nut. Lift up the back side of the skid pale and install it to the rear crossmember using two ½"- 13 x 1-1/4" bolts, washers and a C-lock nut. Torque all hardware to 127 ft-lbs. **SEE FIGURE 38** Torque the all upper factory crossmember bolts to 300 ft-lbs. at this time.

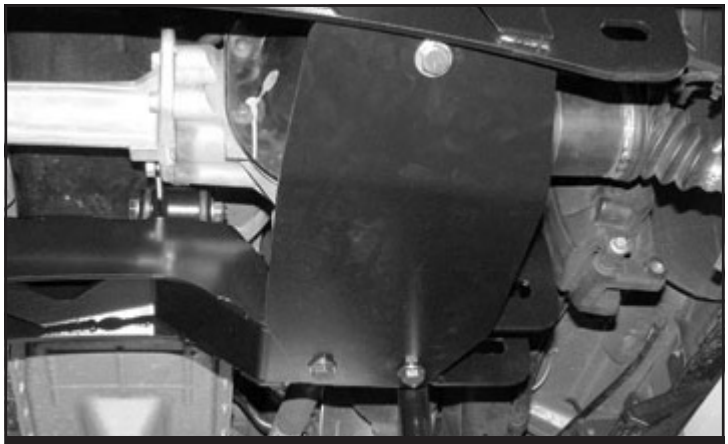


FIGURE 38 - STEP 38

39. Locate the factory coilovers. Using a press, remove the factory lower bushings. **NOTE: If installing Dirt Logic Coilovers do so now with the instructions provided inside the coilover box. Then skip to step 42.**

	Parts List A
1	5/16-18 x 1-1/4" Hex Bolt
2	5/16-18 C-Lock Nut
3	5/16" Washer
4	FT1036 - Bushing Half
5	FT99 - Sleeve
6	1/2-13 x 4" Hex Bolt
7	1/2-13 C-Lock Nut
8	1/2" Washer
9	FT30529BK - Lower Shock Extension
10	FT30527BK & FT30534BK - Upper Half Shock Extension A
11	FT30528BK & FT30535BK - Upper Half Shock Extension B
12	Factory Shock
13	FT30533 - Aluminum Shock Bushing

40. Locate the Fabtech upper shock extensions (FT30527BK and FT30528BK), the lower shock extension (FT30529BK) and all hardware listed below. Locate the factory coilover shocks. **NOTE: (The factory coilover should be set at the lowest setting.)** Assemble the shock extension using the hardware list using Parts list A on this page. **SEE FIGURE 39-40**

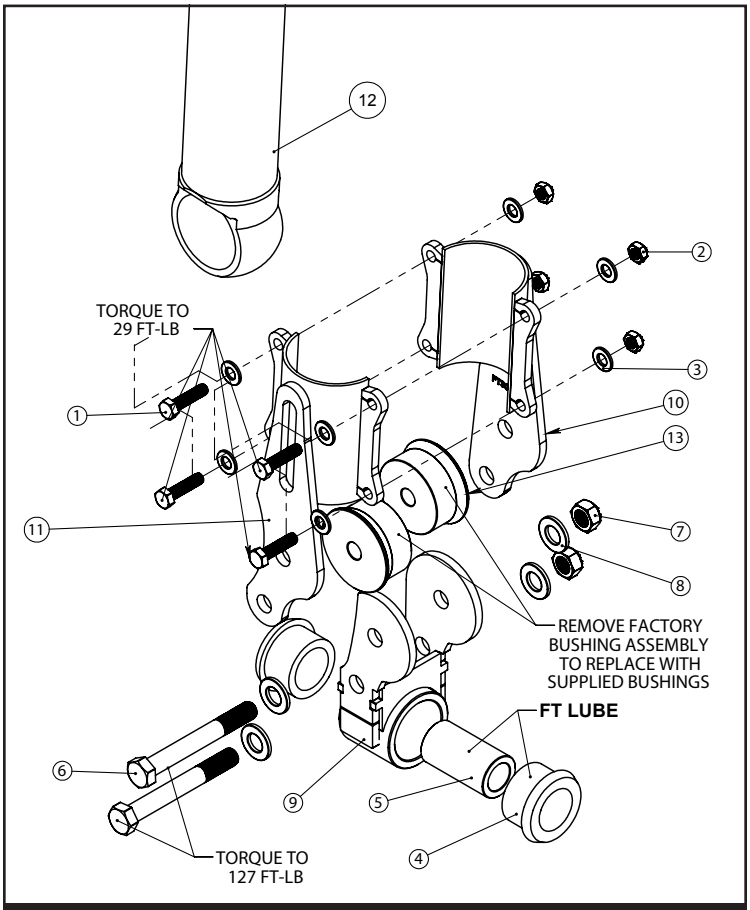


FIGURE 39 - STEP 40

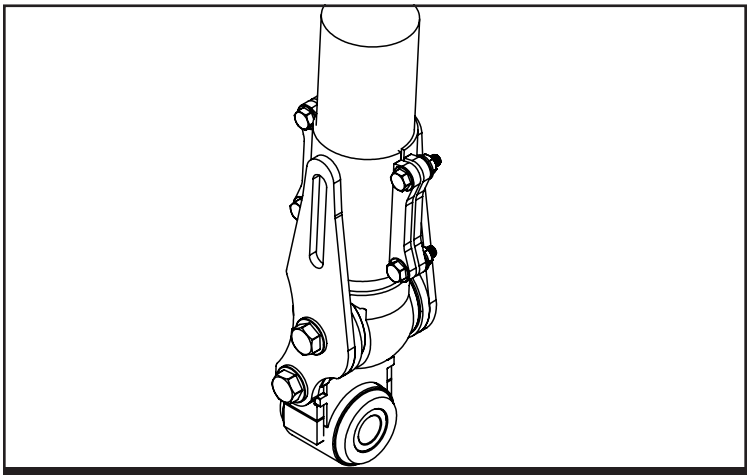


FIGURE 40 - STEP 40

41. Install the coil over into the frame bucket and the pivot at the control arm using the factory hardware. Torque the upper nuts to 35 ft-lbs and the lower pivot to 100 ft-lbs. Refer to the drawing below for shock orientation in the vehicle. **SEE FIGURES 41-46**

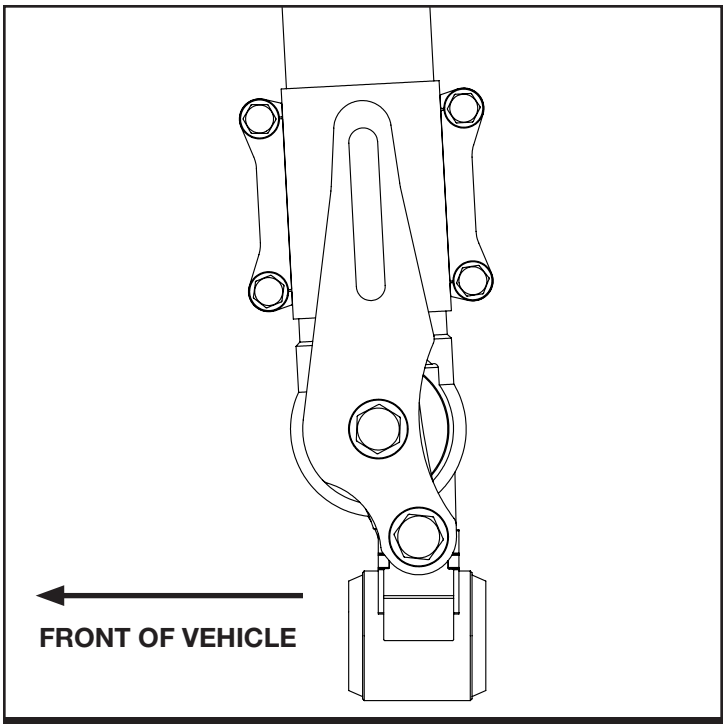


FIGURE 41 - STEP 41

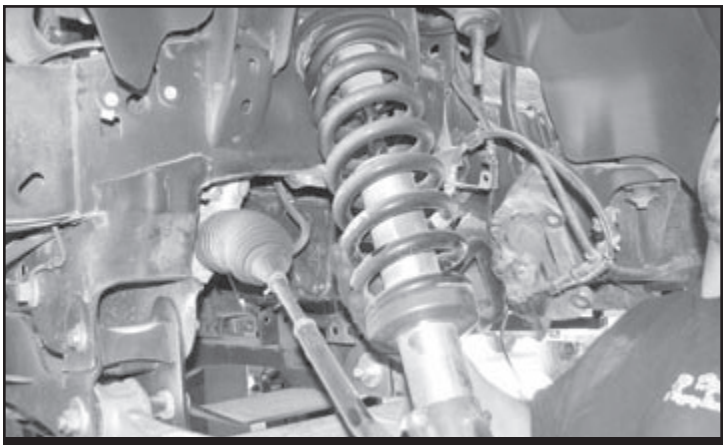


FIGURE 42 - STEP 41

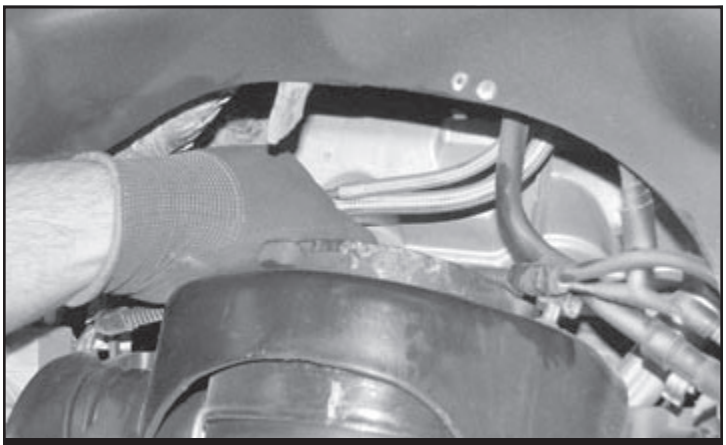


FIGURE 43 - STEP 41

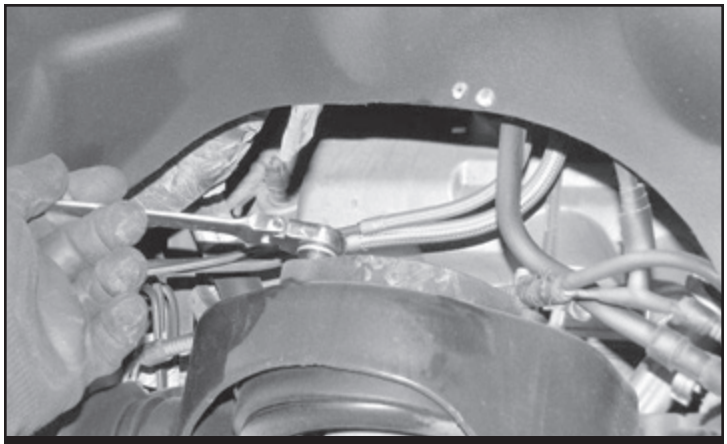


FIGURE 44 - STEP 41

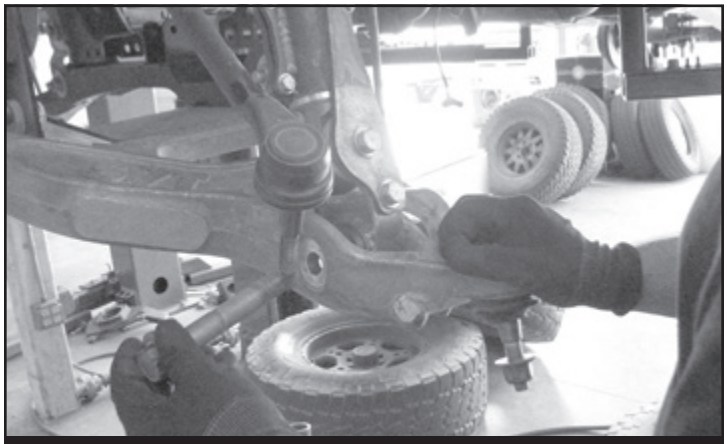


FIGURE 45 - STEP 41

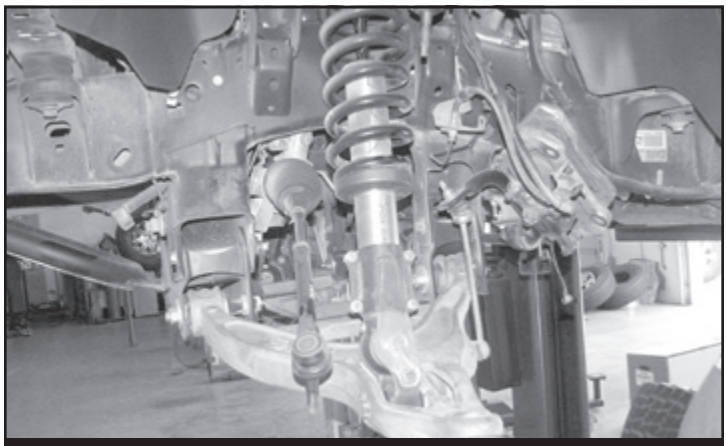


FIGURE 46 - STEP 41

42. **NOTE: Specifc IWE "Integrated Wheel End" installation procedures are necessary when servicing and/or IWE vacuum is released. When the IWE actuator is loosened at the knuckle and/or removed from CV shaft:**

- Remove the two vacuum line, compress the IWE actuator and install a vacuum cap on the larger vacuum port (to keep it compressed).
- Install the IWE actuator onto the halfshaft outer end (if removed).
- Do not dislodge the IWE seal spring when installing an IWE on a CV halfshaft outboard end or component

damage may occur.

- Allow the wheel knuckle to swing outward while keeping the halfshaft pushed inward.
- Once clearance is available, install the halfshaft outboard end into the wheel knuckle hub bearing.
- Connect the upper ball joint and install new nut; torque to 85 ft-lbs.
- Install the three IWE actuator to wheel knuckle retaining bolts; torque to 106 ft-lbs
- Remove the IWE vacuum cap and reconnect the vacuum tubes.
- Verify the spline engagement by checking for spline lash before installing the axle nut or component damage may occur.
- Install new axle nut; 30 ft-lbs

43. Locate the Fabtech driver side spindle (FTS30494D) and install the factory hub. Torque the four 14mm bolts to 160 ft-lbs. **SEE FIGURE 47**

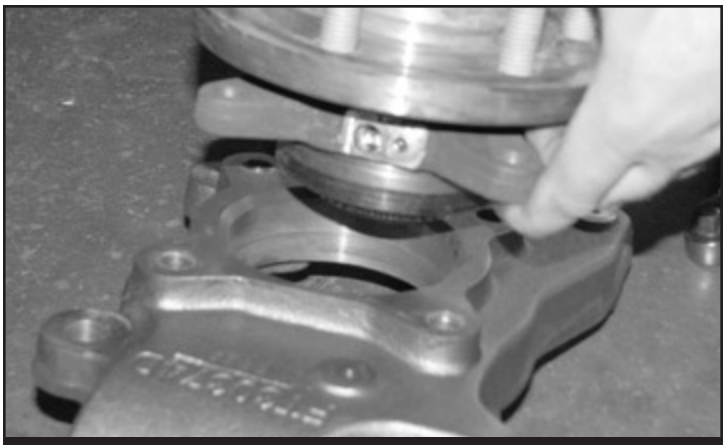


FIGURE 47 - STEP 43

44. Install the Fabtech spindle onto the upper and lower control arms. Torque the upper ball joint to 85 ft-lbs and the lower ball joint to 110 ft-lbs. **SEE FIGURE 48**

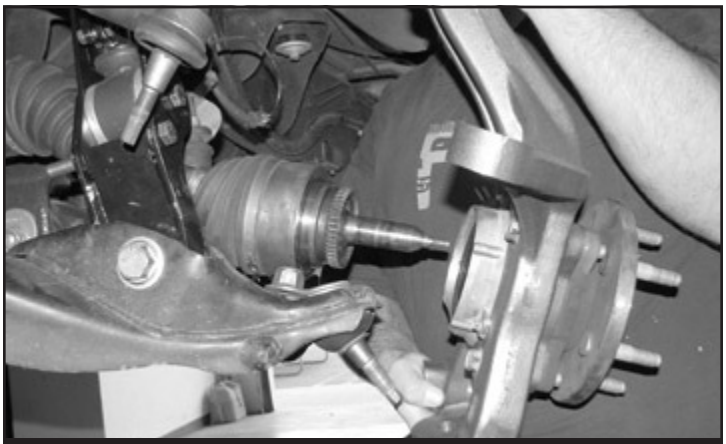


FIGURE 48 - STEP 44

45. Install the dust shield and torque to 14 ft-lbs. Install CV shaft nut and torque to 35 ft-lbs. Install the factory dust cover. **SEE FIGURE 49**

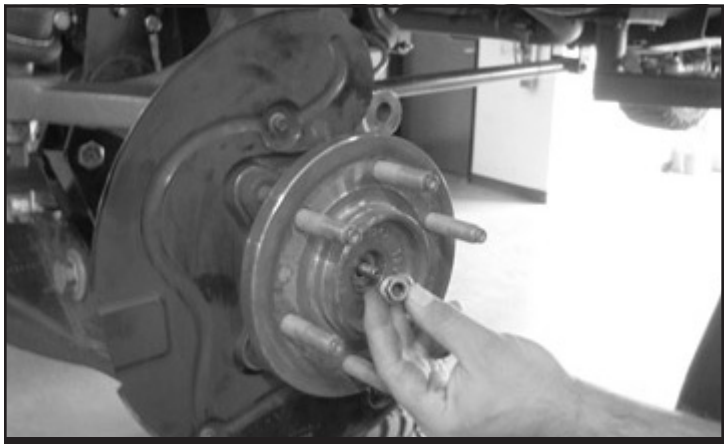


FIGURE 49 - STEP 45

46. Install the wheel speed sensor. Make sure the end of the sensor is clean. **SEE FIGURE 5**



FIGURE 50 - STEP 46

47. Carefully pull some slack from the frame side and reconnect the vacuum line to the hub assembly. Install the Fabtech frame brake line bracket (FT30496). Using the factory hardware, mount factory brake line bracket to the side of the Fabtech knuckle. After installing the factory brake line bracket, check to insure full movement by steering the knuckle back and forth, and make sure none of the ABS lines, brake lines, or vacuum lines are over stretched during full test movement of the knuckle. **SEE FIGURES 51-52**

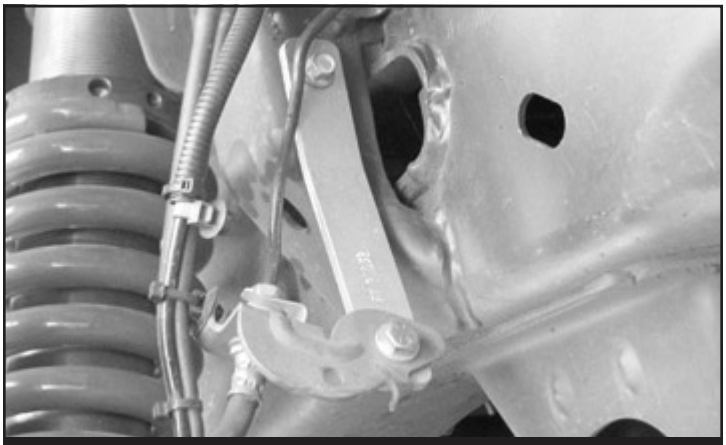


FIGURE 51 - STEP 47

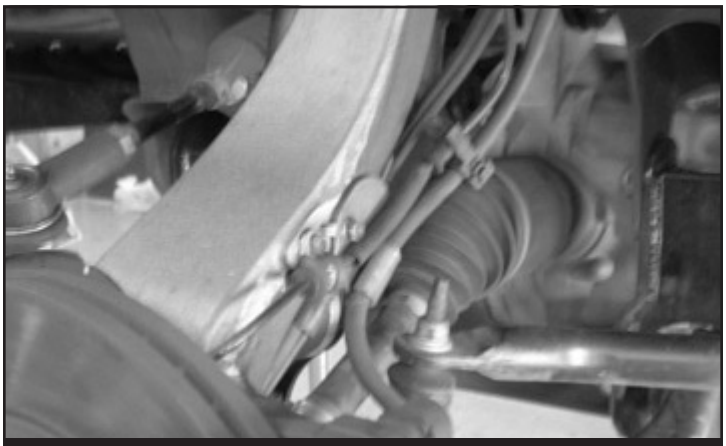


FIGURE 52 - STEP 47

48. Reinstall the original brake rotor, followed by the brake caliper. Use a small amount of the supplied thread lock compound on the caliper bolts and torque to 145 ft-lbs. **SEE FIGURES 53-54**

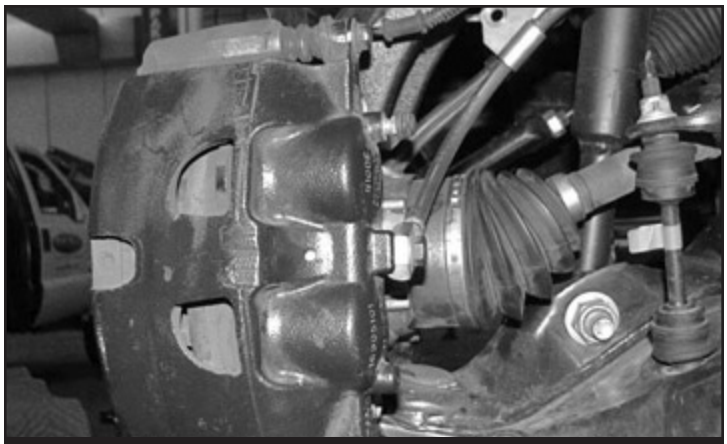


FIGURE 53 - STEP 48

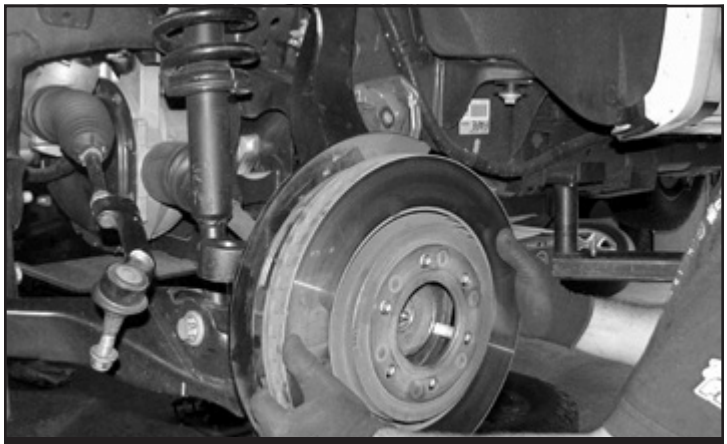


FIGURE 54 - STEP 48

49. Reconnect the tie rod end to the steering knuckle and torque to 60 ft.-lbs.

50. Install the factory sway bar using the Fabtech driver and pass brackets (FT30492) (FT30493). Install the factory sway bar link in to the end of the sway bar and lower control arm mounting. Torque Brackets and links to 52 ft-lbs. **SEE FIGURE 55**

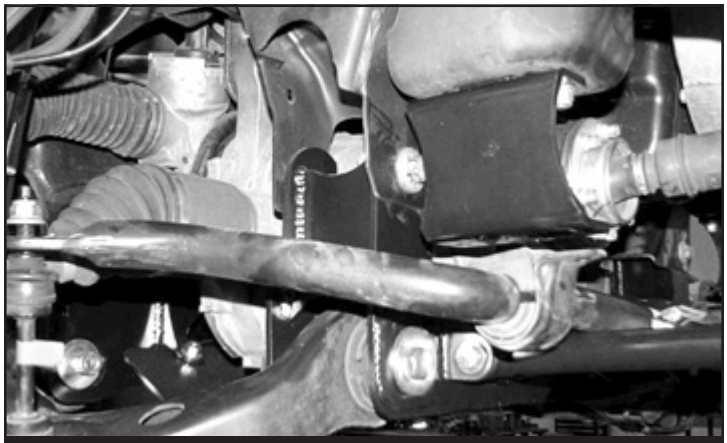


FIGURE 55 - STEP 50

REAR SUSPENSION

51. 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.

52. Locate the factory brake line mount on the driver side of the frame. Locate the Fabtech brake line bracket (FT70033) and attach the bracket between the factory frame mount and the factory bake line. **SEE FIGURE 62**

53. Locate and install the rear lift blocks FTBK52. 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 129 ft-lbs. **SEE FIGURE 56**

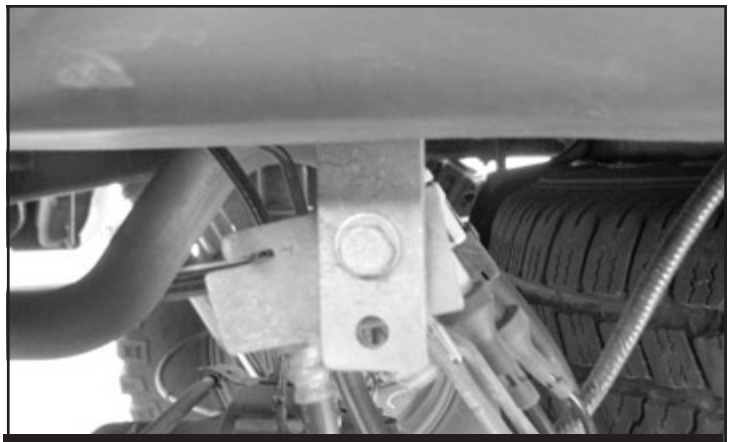


FIGURE 56 - STEP 53

54. Locate the rear driver side shock extension FT30531BK. Install the boss on the shock extension into the factory shock mount using a M12-1.75 x 80 mm bolt. Leave loose at this time. **SEE FIGURE 57**



FIGURE 57 - STEP 54

55. Locate the FT30539 nut tab and the 1/2” x 13 x1” bolt. Attach back tab to the frame.

56. Using a 1/2” drill bit. Drill a 1/2” hole for the front of the new shock bracket. Install the front 1/2”-13 x 1-1/4” bolts threw the front tab and Torque all the bolts to 90 ft-lbs. **SEE FIGURES 58-59**

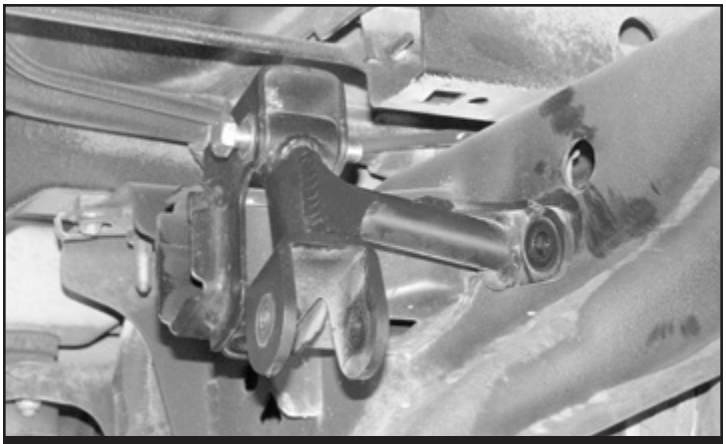


FIGURE 58 - STEP 56

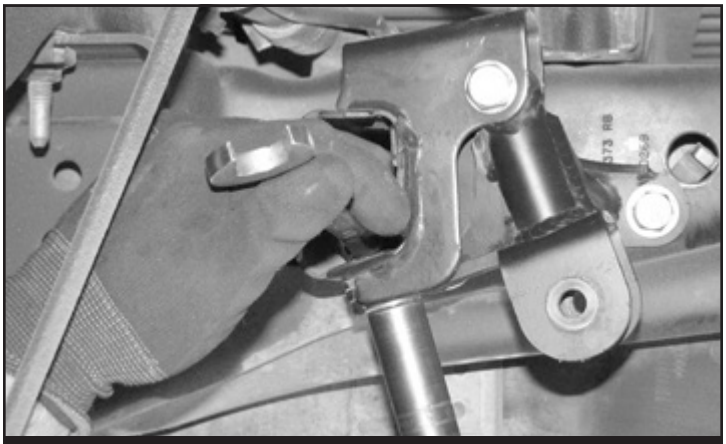


FIGURE 59 - STEP 56

57. Install the fox shocks with the factory hardware and torque to 65 ft- lbs. **SEE FIGURES 60-62**

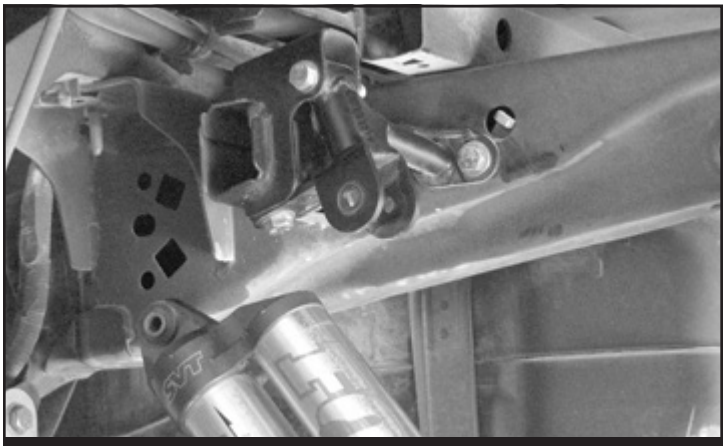


FIGURE 60 - STEP 57

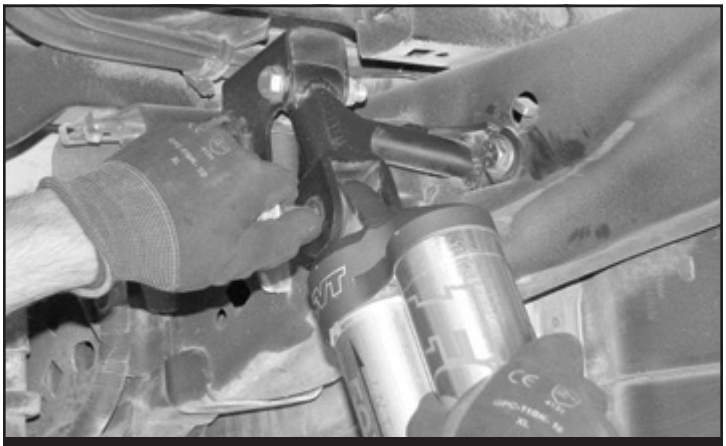


FIGURE 61 - STEP 57

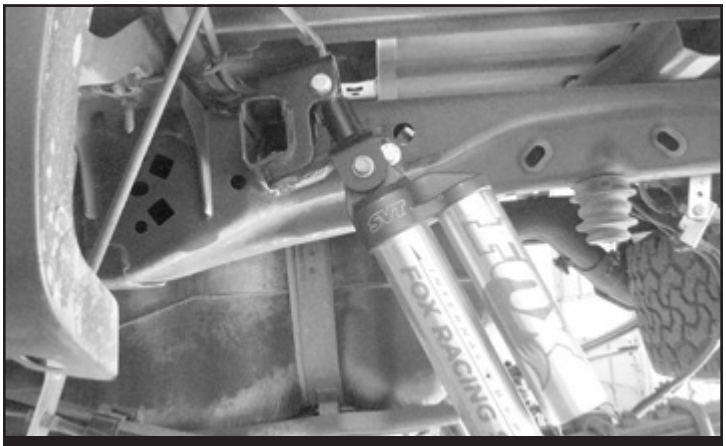


FIGURE 62 - STEP 57

58. 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.**

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

60. Recheck all bolts for proper torque.

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

62. 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.**

63. 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 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