



INSTALLATION INSTRUCTIONS



**2014-2017 RAM 2500/3500 4WD
2013 RAM 3500 4WD W/FACTORY RADIUS ARMS
2.5" RADIUS ARM SYSTEM**

FTS23051 - w/ PERFORMANCE SHOCKS

FTS23160 - w/ DIRT LOGIC SHOCKS

FTS23156 - w/ STEALTH SHOCKS

Fabtech Motorsports | 4331 Eucalyptus Ave. Chino, CA 91710

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



- PARTS LIST -

FTS23051		SYSTEM W/PERFORMANCE SHOCKS
2	FT44229BK	RAM 2.5" SPRING PERCH
1	FT44230BK	RADIUS ARM (DRIVER)
1	FT44231BK	RADIUS ARM (PASSENGER)
1	FT44274	HARDWARE SUBASSEMBLY
2	FTS7192	PERFORMANCE SHOCK

FTS23156		SYSTEM W/STEALTH SHOCKS
2	FT44229BK	RAM 2.5" SPRING PERCH
1	FT44230BK	RADIUS ARM (DRIVER)
1	FT44231BK	RADIUS ARM (PASSENGER)
1	FT44274	HARDWARE SUBASSEMBLY
2	FTS6192	PERFORMANCE SHOCK

FTS23160		SYSTEM W/DIRT LOGIC SHOCKS
2	FT44229BK	RAM 2.5" SPRING PERCH
1	FT44230BK	RADIUS ARM (DRIVER)
1	FT44231BK	RADIUS ARM (PASSENGER)
1	FT44274	HARDWARE SUBASSEMBLY
2	FTS810752	DIRT LOGIC 2.25 NON RESI

FT44274		HARDWARE SUB ASSEMBLY
2	FT120	SLEEVE 1.000 X .563 X .310
1	FT23051I	INSTRUCTIONS
2	FT3400-111	BUMPSTOP (FRONT)
1	FT44239	WASHER 4.250 X .510 X .250
1	FT44240	HARDWARE KIT
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD
2	FT102	SLEEVE 1.000 X .732 X 3.280
4	FT1006	BUSHING

- 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



- PRE-INSTALLATION NOTES -

For technical assistance call: **909-597-7800** or e-mail: **info@fabtechmotorsports.com**

Read this before you begin installation -

Check all parts to the parts list above before beginning installation. If any parts are missing contact Fabtech at 909-597-7800 and a replacement part will be sent to you immediately.

Read all instructions thoroughly from start to finish before beginning the installation. If these instructions are not properly followed severe frame, driveline and / or suspension damage may occur.

Check your local city and state laws prior to the installation of this system for legality. Do not install if not legal in your area.

Prior to the installation of this suspension system perform a front end alignment and record. Do not install this system if the vehicle alignment is not within factory specifications. Check for frame and suspension damage prior to installation.

The installation of this suspension system should be performed by two professional mechanics.

This suspension must be installed with Fabtech shock absorbers.

Use the provided thread locking compound on all hardware.

WARNING- Installation of this system will alter the center of gravity of the vehicle and may increase roll over as compared to stock.

Vehicles that receive oversized tires should check ball joints, uniballs, tie rods ends, pitman arm and idler arm every 2500-5000 miles for wear and replace as needed.

Verify differential fluid is at manufactures recommended level prior to kit installation. Installation of the kit will reposition the differential and the fill plug hole may be in a different position. (For example, if the manufacture recommends 3 quarts of fluid, make sure the diff has 3 quarts of fluid). Check your specific manual for correct amount of fluid.

FOOTNOTES -

This system requires the use of Fabtech FTS7192 or Dirt Logic FTS810751 front shocks.

RECOMMENDED TIRE & WHEEL SIZES -

Use 315/70R17 tires w/ 17x8 wheels w/ 4 5/8" BS w/ minor trimming

Use 325/65R18 tires w/ 18x9.5 wheels w/ 4 5/8" 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. **DRIVER SIDE ONLY** - Starting on the driver side, remove the driver side fender liner.
3. Remove the factory shocks and discard. Retain factory lower hardware.
4. Disconnect factory sway bar links.
5. Remove factory coil spring and rubber isolator. Retain these parts for later use.
6. **DRIVER SIDE ONLY** - Locate the Brake control module on the top of the coil bucket. **SEE FIGURE 1**



FIGURE 1 - STEP 6

7. **DRIVER SIDE ONLY** - Remove the bolts that attach the module to the mounting bracket on the top of the bucket. Retain hardware. **SEE FIGURE 2**

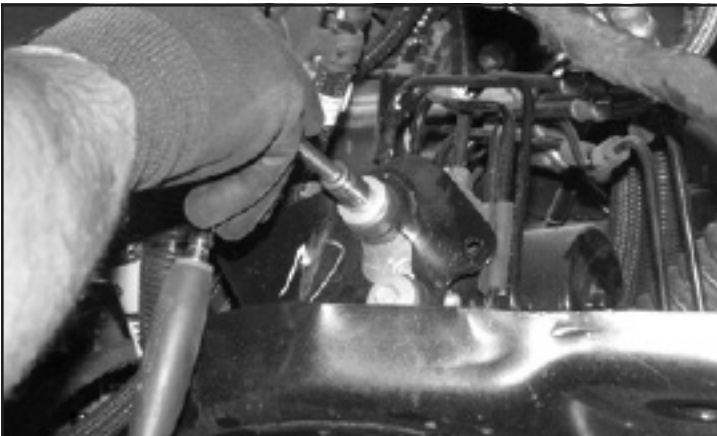


FIGURE 2 - STEP 7

8. Lift the module with care not to damage any brake lines and install the 1/2" -13 x 4" Button head bolt and washer through the top hole in the coil bucket.

SEE FIGURES 3-4



FIGURE 3 - STEP 8



FIGURE 4 - STEP 8

9. Locate the FT44229BK coil spacer.
10. Install the coil spacer in to the top of the factory coil bucket passing the button head bolt through the center hole in the Fabtech coil spacer. Attach a flat washer and locking nut to the 1/2" button head bolt. Leave loose at this time. **SEE FIGURES 5-6**

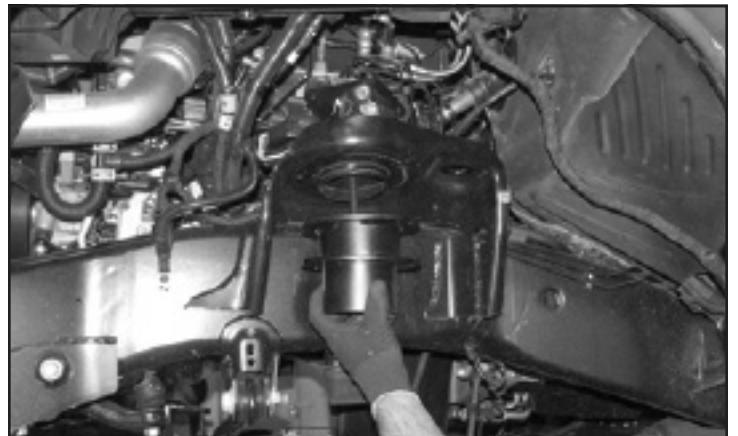


FIGURE 5 - STEP 10

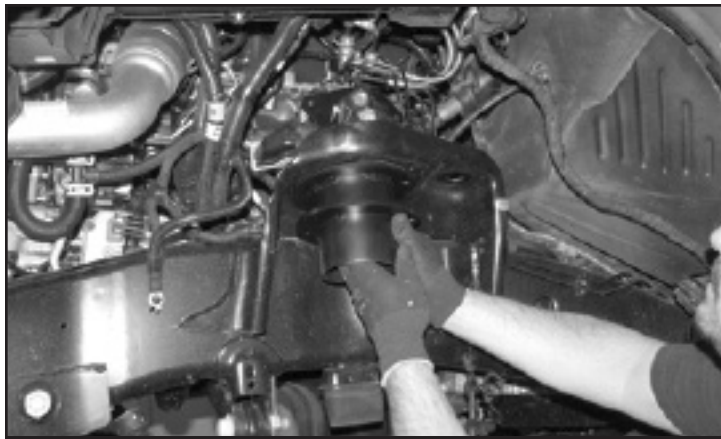


FIGURE 6 - STEP 10

11. Rotate the coil spacer until the out board hole in the upper ring lines up with the hole in the bucket. Install the 7/16"-14 x 1-1/4" bolt washers and nut. Torque the center 1/2" bolt to 90 ft-lbs and the 7/16" bolt to 83 ft-lbs.

SEE FIGURE 7

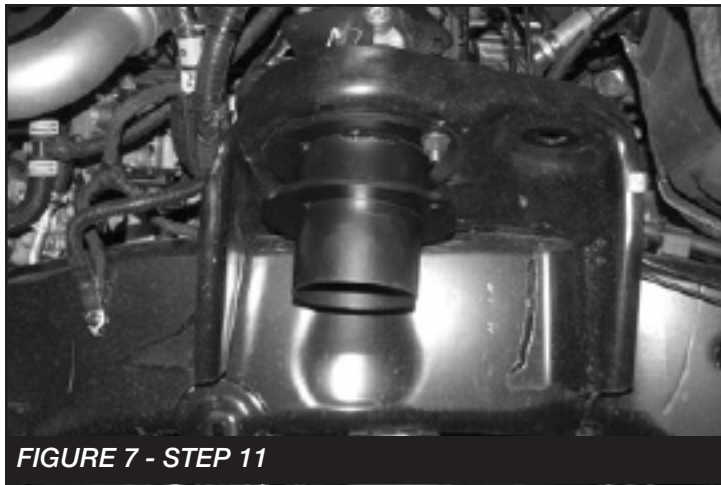


FIGURE 7 - STEP 11

12. Locate the factory coil spring isolator and slide it over the Fabtech coil spacer. **SEE FIGURE 8**

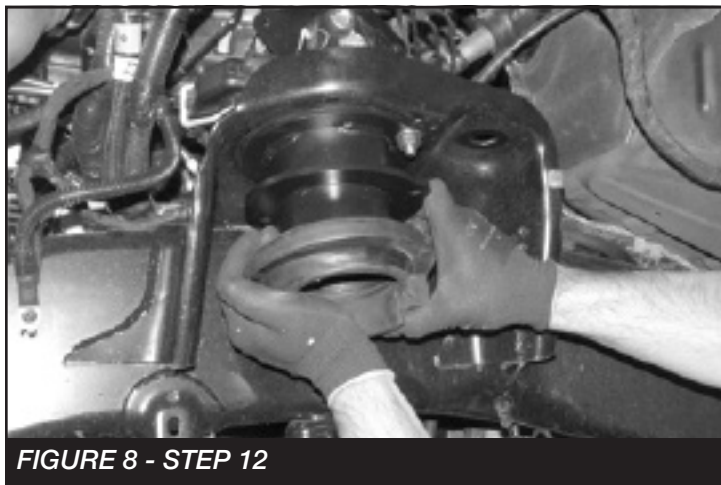


FIGURE 8 - STEP 12

13. Line the rubber indexing pin on the isolator up with the hole in the ring of the coil spacer and push together.

SEE FIGURE 9



FIGURE 9 - STEP 13

14. Remove the factory bump stop and discard.

SEE FIGURE 10



FIGURE 10 - STEP 14

15. Install the FT3400 -111 bump stop. **SEE FIGURES 11-12**



FIGURE 11 - STEP 15

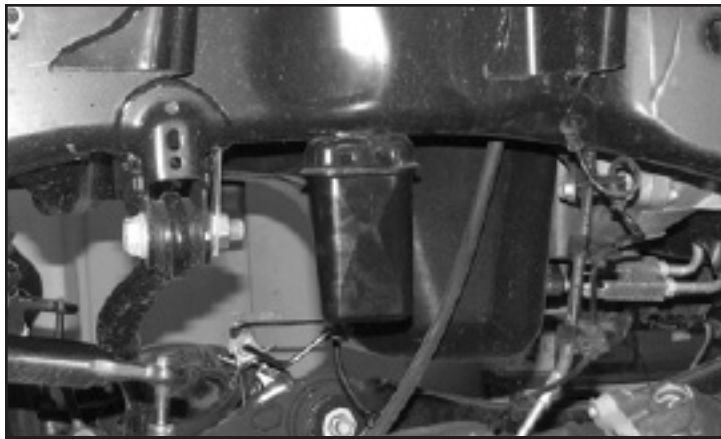


FIGURE 12 - STEP 15

16. Repeat steps 3-15 on the passenger side, except those labeled **DRIVER SIDE ONLY**. On **PASSENGER SIDE ONLY** install the ½" -13 x 4" Button head bolt and FT44239 washer though the top hole in the coil bucket.

17. Remove the driver side factory radius arms and discard. Save the factory hardware. **SEE FIGURES 13-14**

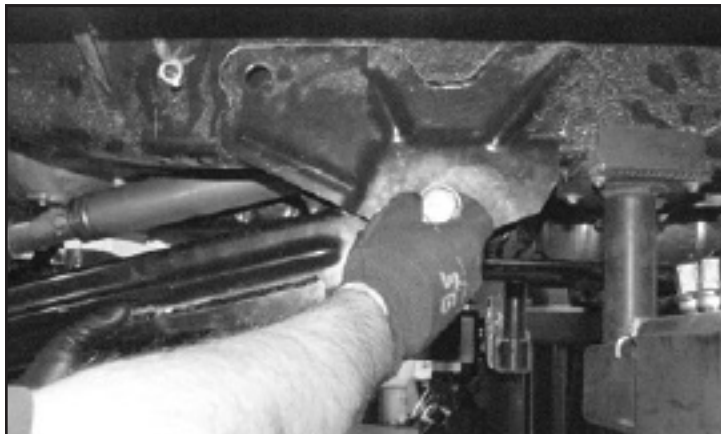


FIGURE 13 - STEP 17



FIGURE 14 - STEP 17

18. Locate the FT44230BK Driver side radius arm, FT1006 bushing, FT102 sleeve, and zerk fitting.

19. Install two bushings, one sleeve, and the zerk fitting into the barrel of the radius arm. **SEE FIGURES 15-17**



FIGURE 15 - STEP 19



FIGURE 16 - STEP 19



FIGURE 17 - STEP 19

20. Install the new Fabtech radius arms into the factory frame pocket and onto the axle bushings using the factory hardware. Torque the factory bolts to 200 ft-lbs.

SEE FIGURES 18-20

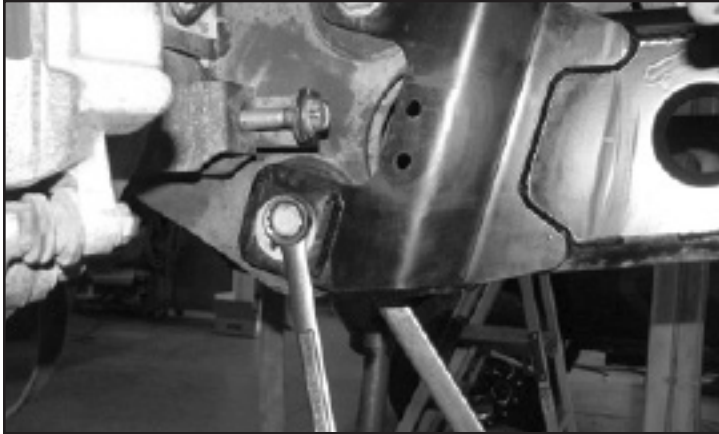


FIGURE 18 - STEP 20



FIGURE 19 - STEP 20

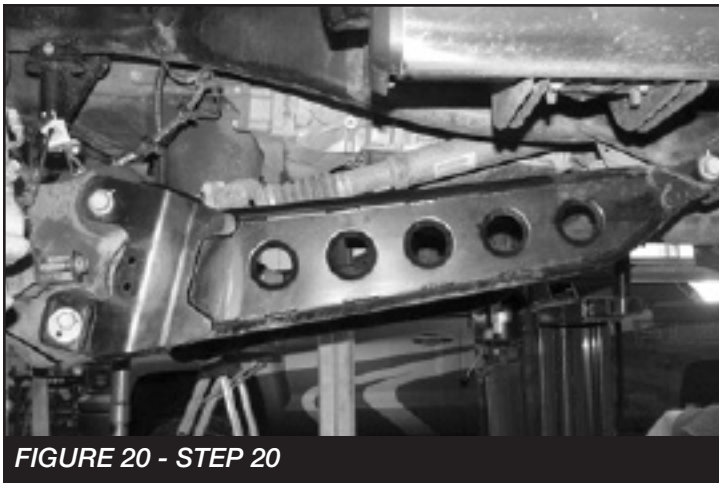


FIGURE 20 - STEP 20

21. Repeat steps 17-20 on passenger side.

22. Install the factory coil spring onto the Fabtech coil spacer and into the lower perch on the axle. **SEE FIGURES 21-22**

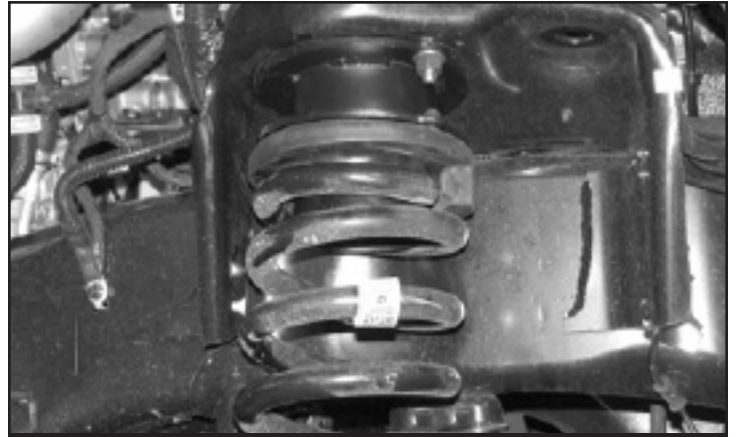


FIGURE 21 - STEP 22

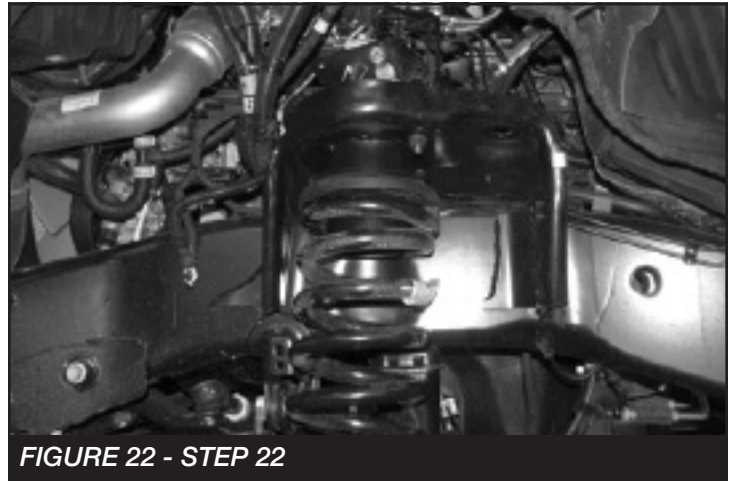


FIGURE 22 - STEP 22

23. Install the Fabtech shock (FTS7192), Stealth shock (FTS6192) or Dirt Logic (FTS810752) into the factory shock mounts. **NOTE: Use FT120 spacer at the lower mount when installing FTS6192/FTS7192.** Torque the lower axle mount to 65 ft-lbs. **Note - This kit must utilize the FTS6192, FTS7192 or FTS810751.**

24. **DRIVER SIDE ONLY** - Reinstall factory brake module using factory hardware.

25. **DRIVER SIDE ONLY** - Reinstall the fender liner.

26. Reconnect Factory sway bar links.

27. Repeat steps 22-26 on the passenger side.

28. 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.**

29. Recheck all bolts for proper torque.

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

31. 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.**
32. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.
33. Check front end alignment and set to factory specifications. Readjust headlights.

Vehicles that will receive oversized tires should check ball joints, uniballs and all steering components every 2500-5000 miles for wear and replace as required.

**RETORQUE 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 inconsistencies 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