



## INSTALLATION INSTRUCTIONS

FTS21241 6" HD DUAL SHOCK KIT W/ PERF SHOCKS		
1	FT20784	UPPER SHOCK MOUNT (DRIVER)
1	FT20785	UPPER SHOCK MOUNT (PASSENGER)
1	FT20791	HARDWARE SUBASSEMBLY
4	FTS7338	PERFORMANCE SHOCK

FT20791 HARDWARE SUBASSEMBLY		
1	FT20789	HARDWARE KIT
1	FT21241i	INSTRUCTIONS
2	FT188	SPACER
1	FTAS12	STICKER FT BLUE 10X4 DIE CUT
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD

FT20789 - HARDWARE KIT		LOCATION
4	1/2-13 X 1-3/4 HEX BOLT	
2	1/2-13 X 1-3/4 BUTTON HEAD BOLT	
2	1/2-13 X 5-1/2 HEX BOLT	
8	1/2-13 C-LOCK NUT	
16	1/2" WASHER	
1	THREAD LOCKING COMPOUND	

FTS21244 6" HD DUAL SHOCK KIT W/ DLSS RESI SHOCKS		
1	FT20784	UPPER SHOCK MOUNT (DRIVER)
1	FT20785	UPPER SHOCK MOUNT (PASSENGER)
1	FT20795	RESERVOIR MOUNT (DRIVER)
1	FT20796	RESERVOIR MOUNT (PASSENGER)
1	FT20800	HARDWARE SUBASSEMBLY
2	FT801362D	2.25 DLSS W/RESI (DRIVER)
2	FT801362P	2.25 DLSS W/RESI (PASSENGER)

FT20800 HARDWARE SUBASSEMBLY		
1	FT20789	HARDWARE KIT
1	FT21241i	INSTRUCTIONS
2	FT188	SPACER
1	FTAS12	STICKER FT BLUE 10X4 DIE CUT
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD

FT86082 HARDWARE & BUSHING KIT 82		
8	FT1039	BUSHING HALF
4	FT107	SLEEVE .630 X .501 X 1.480
2	FT188	SPACER
8	FT89026	HOSE CLAMP
4	FTSP01029	HARDWARE BUSHING KIT

## 2011-19 GM 2500HD 6" DUAL SHOCK KIT FT21241i

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



## - TOOL LIST -

### *Required Tools (Not Included)*

Basic Hand Tools  
Floor Jack  
Jack Stands  
Assorted Metric and S.A.E sockets, and Allen wrenches  
Torque Wrench  
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.

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 -*

- Requires previous installation of Fabtech 6" RTS™ system

# - INSTRUCTIONS -

## FRONT SUSPENSION

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Remove the Driver and Passenger front factory fender wells. Save for reinstall at a later point. If you have the OEM position shock mounted remove and discard at this time. Release the tension on the torsion bars. Remove the upper control arm. Save hardware.
3. Mark the driver side upper shock mount like shown in **FIGURES 1-2**. Follow the factory bend around the front (do not cut off the factory hole where the factory shock mounts) down the front side that is attached to the frame.



FIGURE 1 - STEP 3

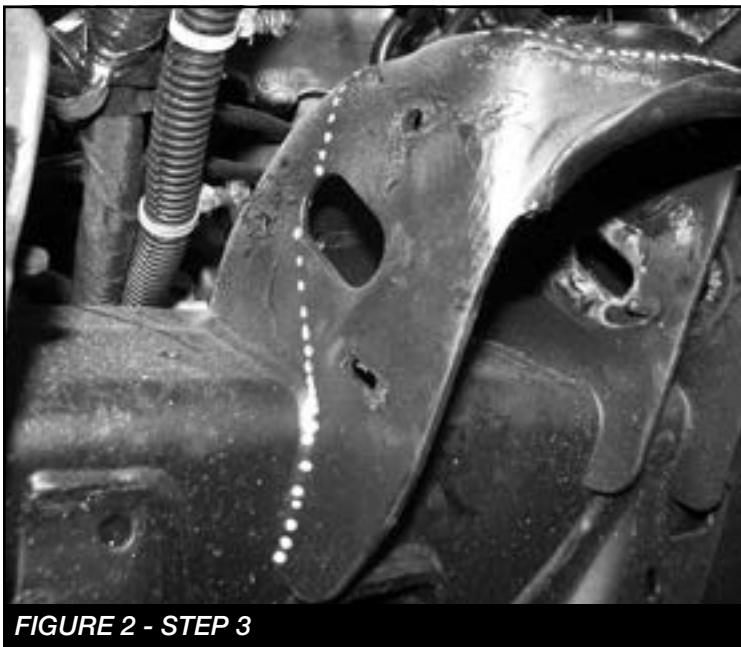


FIGURE 2 - STEP 3

4. Using a die grinder or cut off wheel. Carefully cut the upper shock mount. Sand to a smooth finish and paint all bare areas. **SEE FIGURES 3-5.**



FIGURE 3 - STEP 4



FIGURE 4 - STEP 4

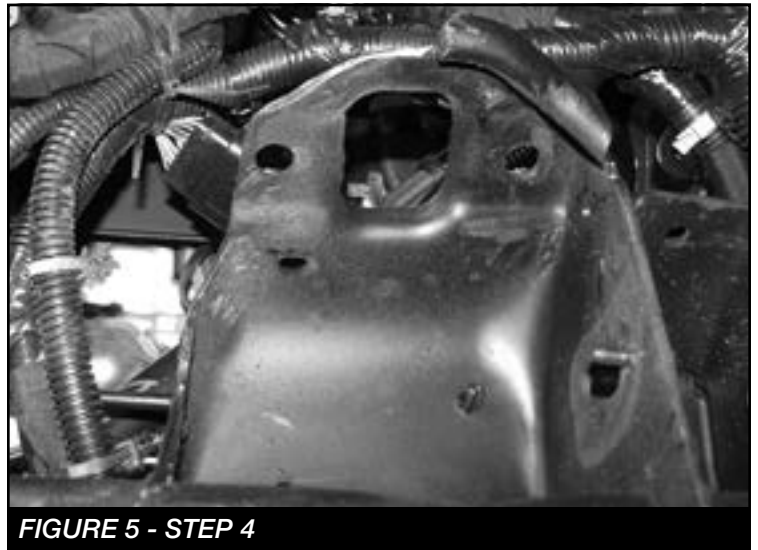


FIGURE 5 - STEP 4

5. Re-install the fender liner. Next, Install FT20784 (Upper shock mount Driver) to the factory upper shock mount using the 1/2" x 1-3/4" Hex bolt. With the bracket installed, mark the hole on the front control arm pocket. Remove the bracket and drill the hole out using a 1/2" drill bit. **SEE FIGURES 6-7**

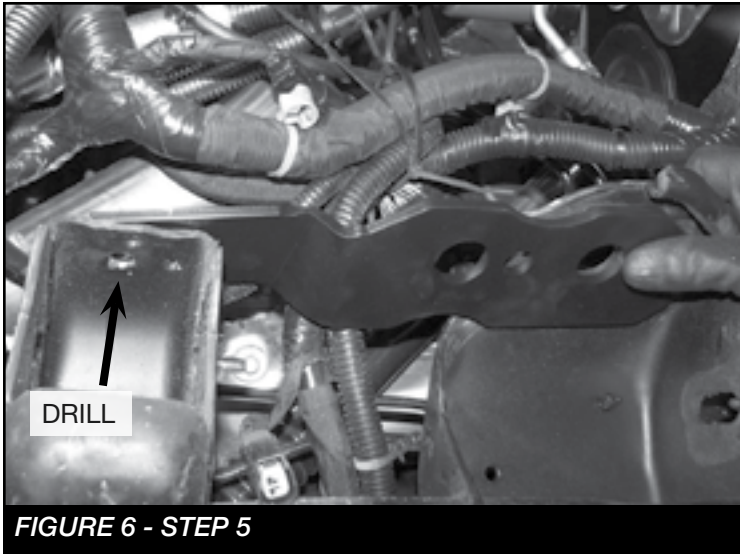


FIGURE 6 - STEP 5

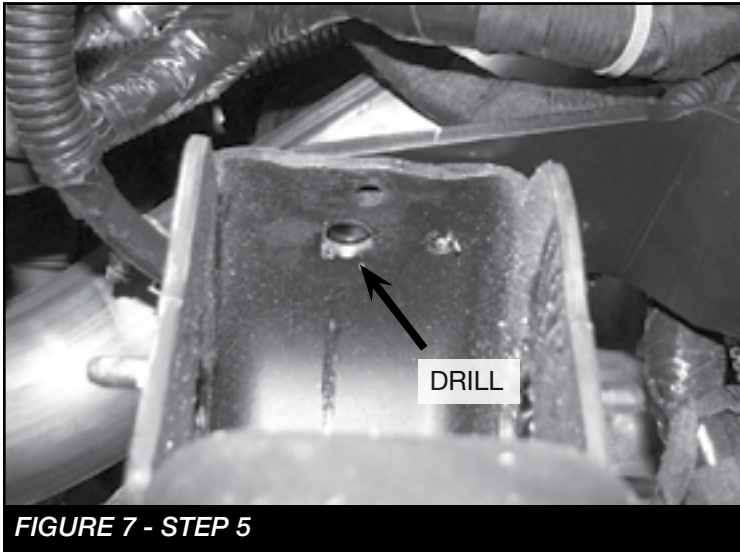


FIGURE 7 - STEP 5

6. Re-install the bracket using the supplied 1/2" hardware. **NOTE: Install the button head bolt at the control arm pocket location. Torque to 127 ft-lbs. IF INSTALLING RESI SHOCKS, MOUNT THE RESI MOUNT AT THIS TIME. FT20795 (Driver Resi Mount) SEE FIGURE 8.** Re-install the upper control arm. Torque to 160 ft-lbs.

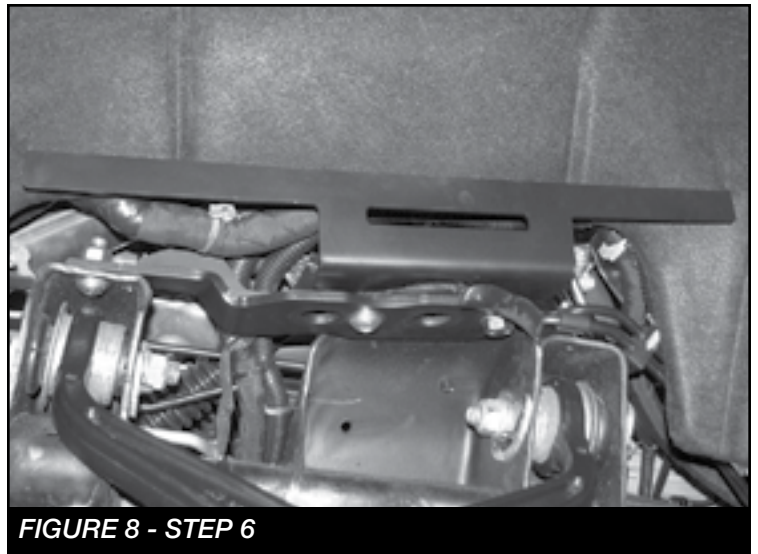


FIGURE 8 - STEP 6

7. Install the shocks at this time using the supplied upper hardware and 1/2" X 5-1/2" bolt and hardware for the lower mount. **NOTE: Install FT188 (spacer) into the middle section of the lower shock mount. SEE FIGURES 9-10**

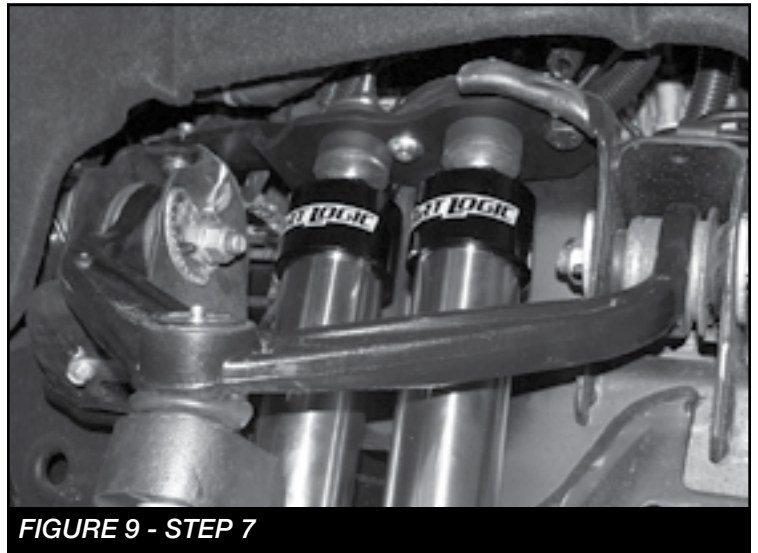


FIGURE 9 - STEP 7

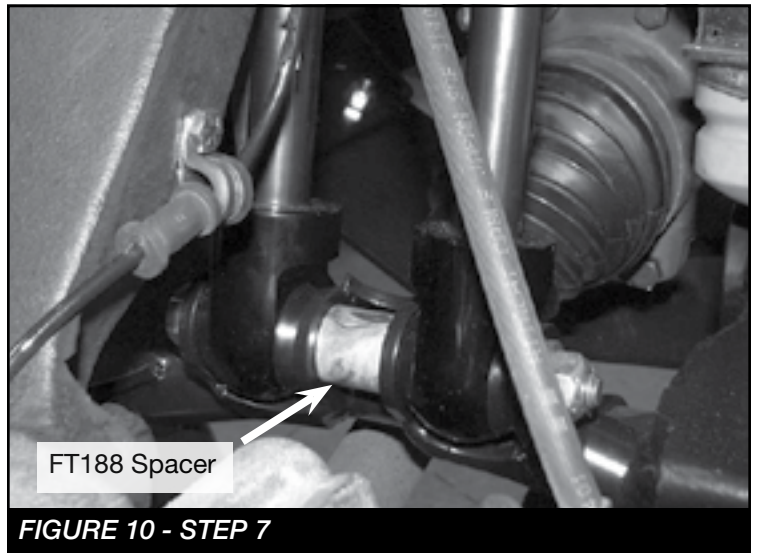


FIGURE 10 - STEP 7

8. If installing resi shocks refer to **FIGURE 11** for resi can placement using the supplied clamps.



**9. REPEAT STEPS 3-8 ON THE PASSENGER SIDE.**

10. 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.**
11. Check front end alignment and set to factory specifications. Re-adjust headlights.
12. Recheck all bolts for proper torque.
13. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
14. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.

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

**RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.**

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