INSTALLATION INSTRUCTIONS

	FTS71002	TIE ROD KIT
2	FT20211	TIE ROD ASSEMBLY
1	FT71002i	INSTRUCTIONS
1	FTLOCK	THREAD LOCKING COMPOUND

	FTS71005	TIE ROD KIT
2	FT20529	TIE ROD ASSEMBLY
1	FT71002i	INSTRUCTIONS
1	FTLOCK	THREAD LOCKING COMPOUND

	FTS71006	TIE ROD KIT
2	FT20509	TIE ROD ASSEMBLY
1	FT71002i	INSTRUCTIONS
1	FTLOCK	THREAD LOCKING COMPOUND

2001-2010 GM 2500/3500HD 2003-2008 H2

TIE ROD KIT

FTS71002

2011-2023 GM 2500/3500HD

STOCK/3.5" LIFT

TIE ROD KIT

FTS71005

2011-2023 GM 2500/3500HD

6" RTS LIFT

TIE ROD KIT

FTS71006

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

- 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.

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.

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 -

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- INSTRUCTIONS -

1. Disconnect the negative terminal on the battery. Jack up the rear end of the vehicle and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front wheels/tires.

2. Starting on the driver's side of the truck, remove the nut securing the tie rod end to the spindle. Using a large hammer strike the spindle to break loose the tie rod end. Save the factory hardware. **USE CARE TO NOT HIT THE THREADS OF THE TIE ROD END. SEE FIGURE 1**

FIGURE 1 - STEP 2

3. Locate the inner tie rod end nut were it connects to the center link. Using a large Crescent wrench remove the inner tie rod end from the center link and remove the inner and outer tie rod end from the truck as one piece.

4. With the tie rod off the truck measure the overall length of the inner and out Tie Rod assembly. Record the length.

   Driver_____Passenger _____

5. Repeat steps two through four on the passenger side of the truck.

6. Using a clean rag and a grease dissolving solvent clean all the grease out from the threads were the inner tie rod ends connect to the center link. **SEE FIGURE 2**

FIGURE 2 - STEP 6

7. Locate inner and outer Tie rod pieces. Connect them together, make sure to assemble the jam nut onto the inner tie rod end before assembling the outer tie rod to it. Adjust the tie rod assembly to the previously recorded tie rod lengths. Assemble the supplied grease fitting to the top of the outer tie rod end.

8. Working from the drivers side if the truck, attach the previously assembled inner/outer tie rod assembly to the factory center link. When installing the inner Tie Rod end you will need to put a small amount of the supplied thread locking compound on the threads on the inner Tie Rod end before installing it to the center link. You will need use a large Crescent wrench to tighten the new tie rod end to the center link. Torque to 100 ft. lbs. **SEE FIGURE 3**

FIGURE 3 - STEP 8

9. Slide the outer Tie Rod end into the spindle and torque the nut to 35 ft-lbs.

10. Repeat steps eight and nine on the passenger side of the truck.

11. **USING A GREASE GUN, GREASE THE TIE ROD ENDS.**

12. With both sides of the truck completely finished and the truck still off the ground, cycle the steering left to right from stop to stop. Make sure there is plenty of clearance between the ABS lines and all other components.

13. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications.

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

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

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

17. Review all included warnings and warranties.

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

- 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