



## **INSTALLATION INSTRUCTIONS**

**1999-2006 GM 1500 6 LUG 4WD  
2.5" TORSION KEY LEVELING KIT**

**FT5100i**

**- PARTS LIST -  
2.5" 1999-2006 GM 1500 6LUG 4WD**

|   | <b>FTL5100</b> | <b>BOX</b>            |
|---|----------------|-----------------------|
| 2 | FT20659BK      | TORSION KEY           |
| 2 | FT20656BK      | LOWER SHOCK EXTENSION |
| 1 | FT20660        | HARDWARE KIT          |
| 1 | FT5100i        | INSTRUCTIONS          |
| 1 | FTAS12         | STICKER FT BLUE 10X4  |
| 1 | FTAS16         | DRIVER WARNING DECAL  |
| 1 | FTREGCARD      | REGISTRATION CARD     |

|   | <b>FT20660 - HARDWARE KIT</b> | <b>LOCATION</b> |
|---|-------------------------------|-----------------|
| 2 | M14-2.0 X 70MM HEX BOLT       |                 |
| 4 | M14 FLAT WASHER               |                 |
| 2 | M14-2.0 NYLOCK NUT            |                 |

***READ THIS BEFORE YOU BEGIN INSTALLATION -***

Check all parts to the parts list above before beginning installation.

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.

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.

***Required Tools (Not Included)***

- Basic Hand Tools
- Floor Jack
- Jack Stands
- Assorted Metric and S.A.E sockets, and Allen wrenches
- Torque Wrench
- Torsion Bar removal tool is required for installation

Prior to installing this kit, with the vehicle on level ground. Measure the height of your vehicle. This measurement can be recorded from the center of the wheel, straight up to the top of the inner fender lip. Record the measurements below.

**LF:** \_\_\_\_\_ **RF:** \_\_\_\_\_

**LR:** \_\_\_\_\_ **RR:** \_\_\_\_\_

# - 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. Locate and remove the torsion bar adjusting bolts. Save for re-installation. **SEE FIGURE 1**

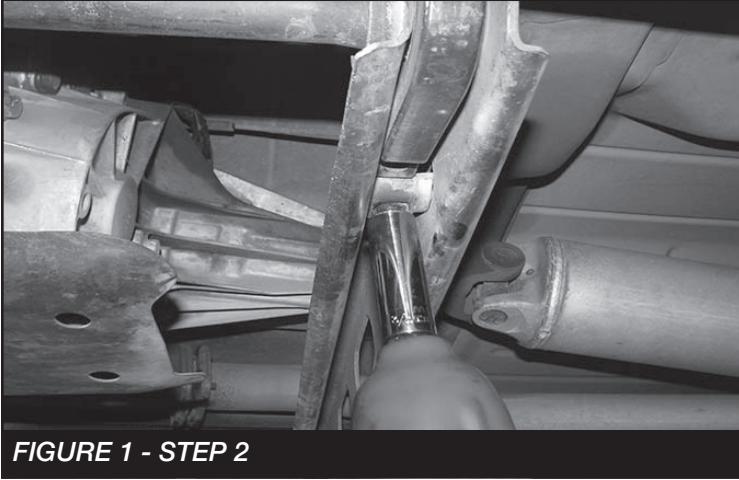


FIGURE 1 - STEP 2

3. Using a torsion bar removal tool, run the torsion key up and remove the torsion key adjusting block from the crossmember. **SEE FIGURES 2-3**

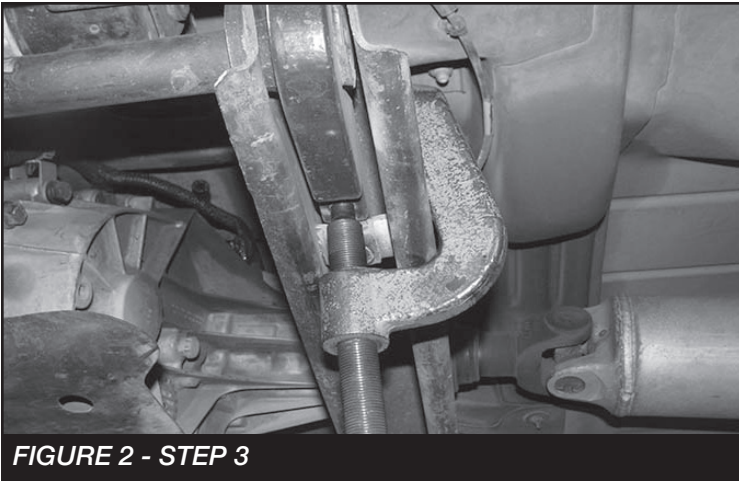


FIGURE 2 - STEP 3

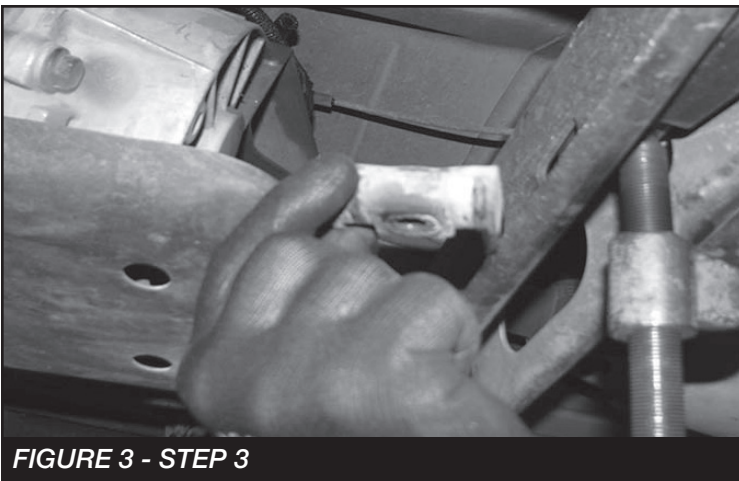


FIGURE 3 - STEP 3

4. Carefully unload the torsion key and tool. Next, slide the torsion bar forward (**note the key clocking position**) then remove the factory torsion key. **SEE FIGURE 4**



FIGURE 4 - STEP 4

5. Install the new torsion key (FT20659BK) into the original position. **SEE FIGURE 5**

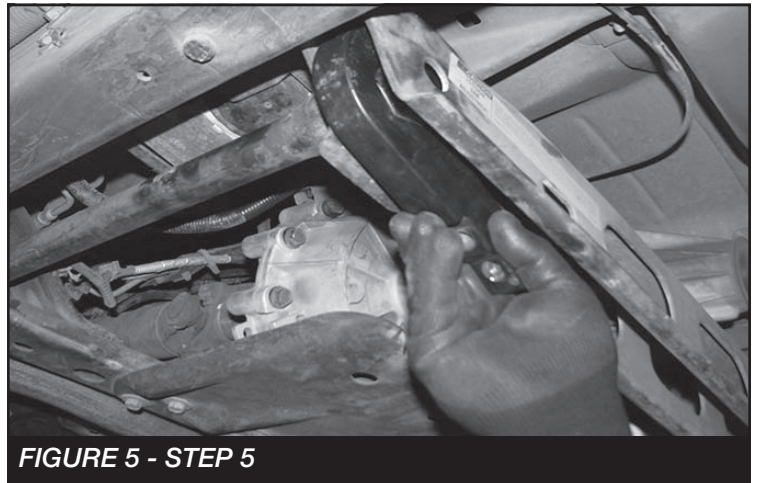


FIGURE 5 - STEP 5

6. Reinstall the torsion key tool and adjust upward enough to reinsert the adjustment block. Remove the tool and install the factory bolt so that it is flush with the bottom of the crossmember. **SEE FIGURE 6**

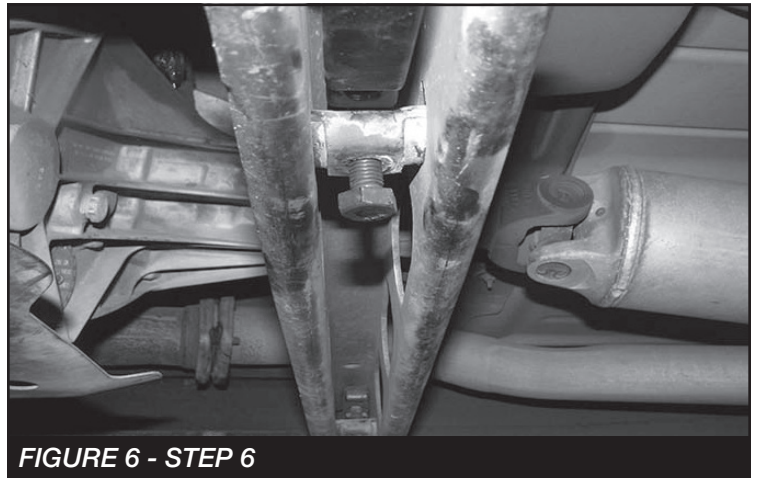
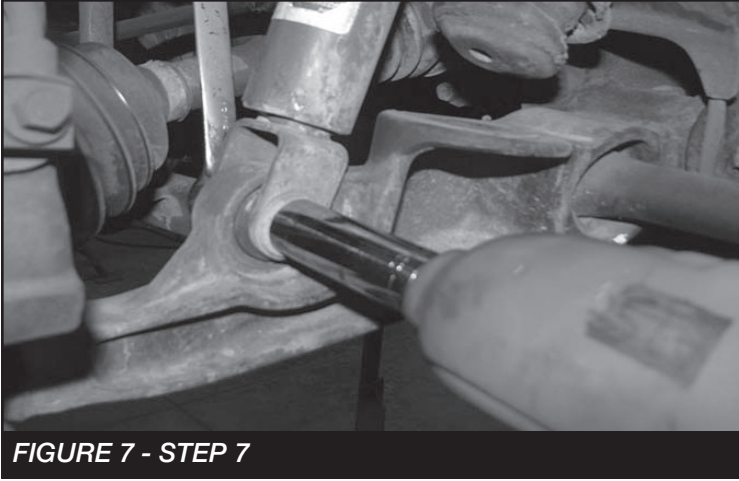


FIGURE 6 - STEP 6

7. Remove the lower shock bolt. Save for reinstallation. **SEE FIGURE 7**



**FIGURE 7 - STEP 7**

8. Install the Lower shock extension (FT20656BK) using the factory hardware and the provided M14 hardware. **NOTE:** Install the shock to fabtech bracket hardware first by running the bolt from the back side so the threaded end is wheel side. Torque to 140-ft lbs. **SEE FIGURE 8**



**FIGURE 8 - STEP 8**

9. 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.**
10. **NOTE: Initial height can now be set. Final adjustments of torsion bars may, and should be performed by the alignment shop.**
11. Check front end alignment and set to factory specifications. Readjust 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. 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.**
15. 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.**

**RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.**