

INSTALLATION INSTRUCTIONS

FTS22349 TIE ROD HEIM KIT		
2	FT31022	TIE ROD CLEVIS
1	FT31023	TIE ROD CENTER (DRIVER)
2	FT31024	BOOT
1	FT31025	HARDWARE SUBASSEMBLY
1	FT31039	TIE ROD CENTER (PASSENGER)

FT31025 HARDWARE SUBASSEMBLY		
4	FT31019	MISALIGNMENT (OUTER)
2	FT31020	SPACER
4	FT31021	MISALIGNMENT (INNER)
1	FT31026	HARDWARE KIT
2	FT90197	HOSE CLAMP 1.250"
2	FT90198	HOSE CLAMP 2.635"
2	FT94511	KNUCKLE PIN
2	FT95196	ROD END (RIGHTHAND)
2	FT95244	ROD END (LEFTHAND)
1	FTAS12	STICKER
1	FTAS16	DRIVER WARNING DECAL
1	FTREGCARD	REGISTRATION CARD
1	FT22349i	INSTRUCTIONS

FT31026 - HARDWARE KIT		LOCATION
2	3/4-16 JAM NUT RIGHTHAND	
2	3/4-16 JAM NUT LEFTHAND	
4	1/2-20 C-LOCK NUT	
2	1/2" WASHER	
2	7/16-20 X 2" BOLT	
4	7/16" WASHER	
2	7/16-20 JAM NUT	
2	M16-1.5 X 25 MM BOLT	
1	THREAD LOCKING COMPOUND	

2021-2024 FORD BRONCO 4WD

TIE ROD HEIM KIT

FTS22349

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 | 2213 Industrial Park Rd. Lancaster, SC 29720

Tech Line: 909-597-7800 | **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
- Hose clamp or pinch clamp tool

- 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. This suspension must be installed with Fabtech shock absorbers.

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.

NOTE- These tie rods use FK heims ends for offroad durability and are designed for race application. They may pass audible noise and road feel through the vehicle which is considered is normal and not a defect.

FOOTNOTES -

- Does not fit vehicles equipped with HOSS 3.0 package.
- Does not fit vehicles equipped with 5"/6" Fabtech suspension kit.

- INSTRUCTIONS -

- NOTE- These tie rods use FK heims ends for offroad durability and are designed for race application. They may pass audible noise and road feel through the vehicle which is considered is normal and not a defect.

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. Starting on the drivers side remove the factory tie rod from the steering rack and the knuckle.
3. Install FT31022 (Tie rod clevis) to the steering rack using the supplied M16 x 25mm bolt and thread locking compound. **NOTE: The opening will need to be installed vertically as well as the internal threads should be on the CV axle side. SEE FIGURES 1-2**

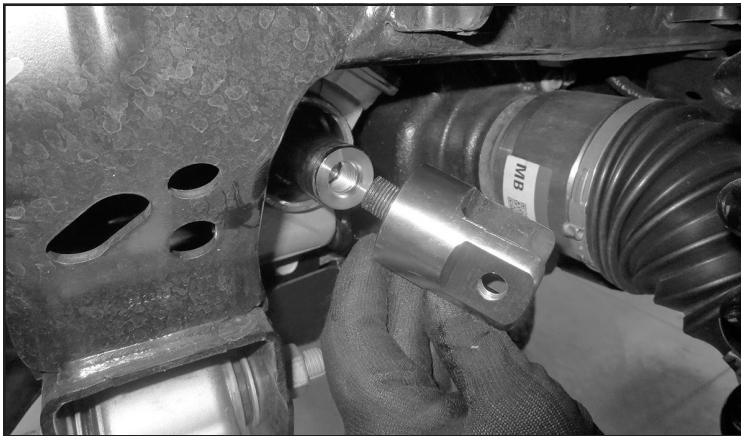


FIGURE 1 - STEP 3



FIGURE 2 - STEP 3

4. Install FT94511 (Knuckle Pin) to the knuckle using the supplied 1/2"-20 nut and washer on the bottom side. Torque to 85 ft-lbs. **SEE FIGURE 3**

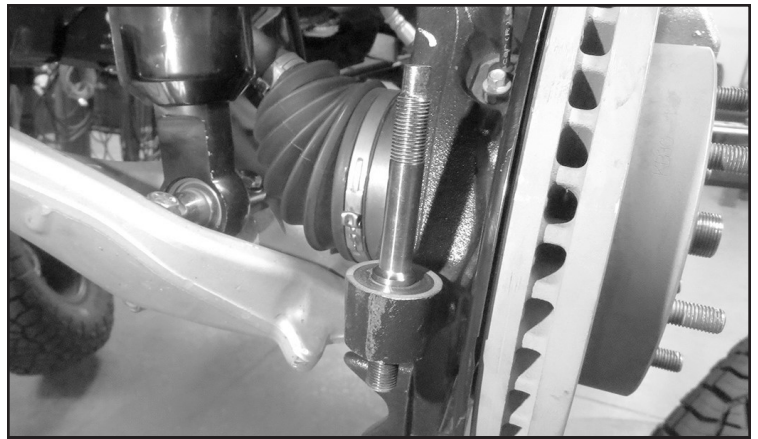


FIGURE 3 - STEP 4

5. Install FT31020 (Pin Spacer) onto the pin/knuckle. **SEE FIGURES 4-5**



FIGURE 4 - STEP 5



FIGURE 5 - STEP 5

6. Install FT31024 (Steering Boot) onto FT31023 (Driver tie rod center). Secure with the supplied 1.25" clamp. **SEE FIGURE 6**

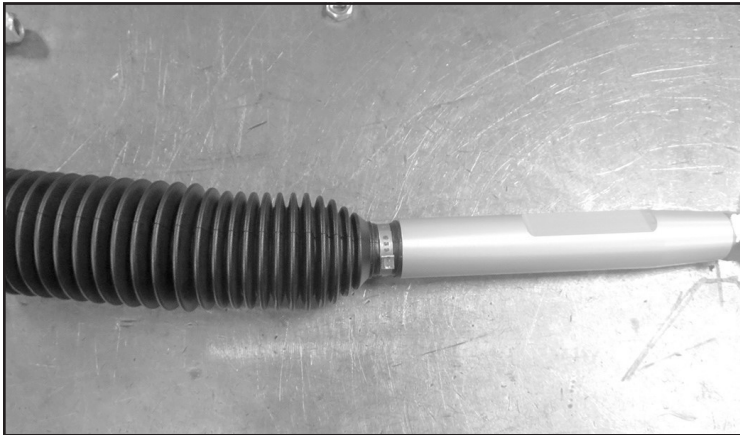


FIGURE 6 - STEP 6

7. Locate FT95196 (Rod End RH) & FT95244 (Rod End LH). Install the supplied 3/4" Jam nuts onto the rod ends. **NOTE: There are both left and right hand threaded rod ends as well as jam nuts.** Install the Rod ends into the tie rod center section you will have to compress the boot to install the one end. Leave 1/2" of thread from the jam nut. This is a starting point and will be adjusted at final alignment. **SEE FIGURES 7-8**



FIGURE 7 - STEP 7

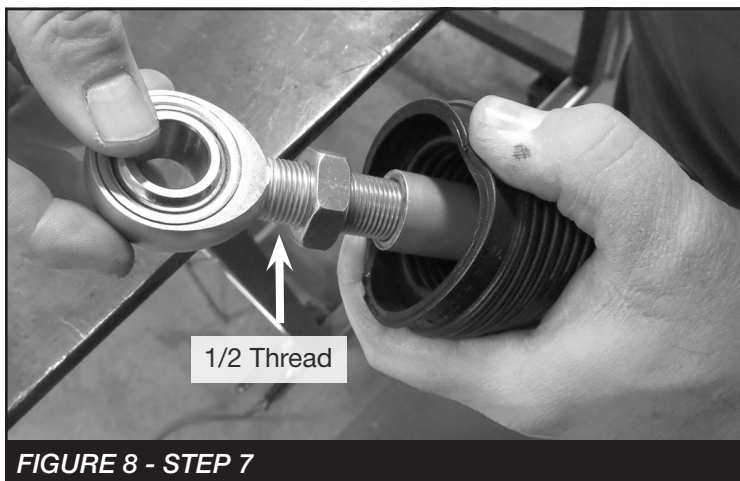


FIGURE 8 - STEP 7

8. Install two FT31021 (Clevis Misalignments) into the boot end of the tie rod section. **SEE FIGURE 9**



FIGURE 9 - STEP 8

9. Install the Tie rod to the clevis using the supplied 7/16" bolt and washers. **NOTE: The bolt will need to be installed so the bolt threads into the clevis.** **SEE FIGURE 10.** Torque to 60 ft-lbs. Then install the 7/16" Jam nut. **SEE FIGURE 11**



FIGURE 10 - STEP 9

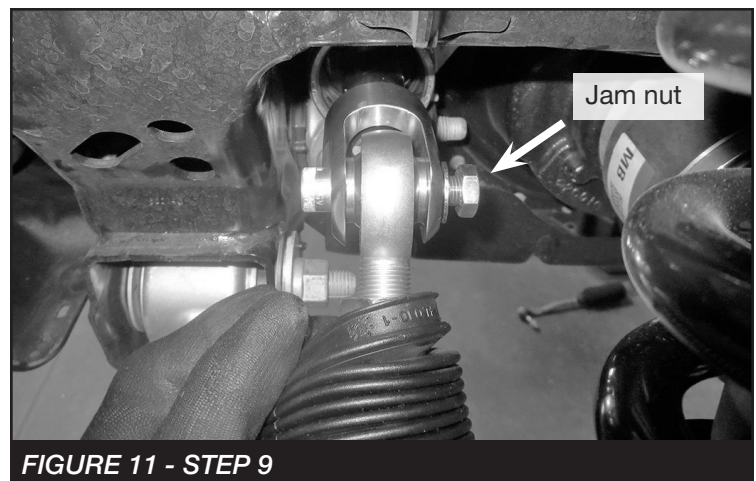


FIGURE 11 - STEP 9

10. Install two FT31019 (Misalignments) to the outer rod end. Then install the rod end to the knuckle pin using the supplied 1/2" hardware. Torque to 95 ft-lbs. **SEE FIGURES 12-13**



FIGURE 12 - STEP 10

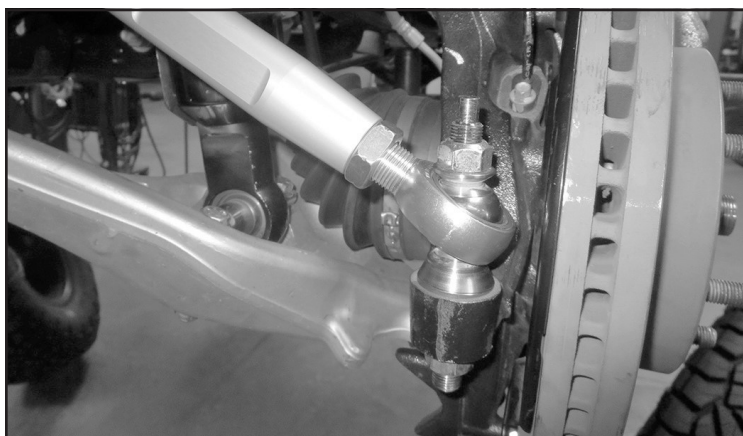


FIGURE 13 - STEP 10

11. Install the tie rod to the factory knuckle. Torque to 42 ft-lbs.
12. Repeat steps on the passenger side.
13. Check front end alignment and set to factory specifications.
14. Slide the boot over the clevis onto the steering rack then secure to the factory steering rack using the supplied 2.625 clamp.

15. 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.
16. Recheck all bolts for proper torque. **RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER UNTIL TORQUE VALUES ARE RETAINED.**
17. Check ball joints, uniballs bearings, bushings and all steering components every 2500-5000 miles for wear and replace as required.
18. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.
19. Review all included warnings and warranties with consumer

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