# INSTALLATION INSTRUCTIONS

| | FTS24210 | DRAG LINK KIT |
|---|---|---|
| 1 | FT50578 | DRAG LINK |
| 1 | FT50705 | TIE ROD END |
| 1 | FT50649 | M29-1.5 RIGHT HAND THREAD JAM NUT |
| 1 | FT50650 | M33-1.5 LEFT HAND THREAD JAM NUT |
| 1 | FT50651 | HARDWARE SUBASSEMBLY |

| | FT50651 | HARDWARE SUBASSEMBLY |
|---|---|---|
| 1 | FT24210i | INSTRUCTIONS |
| 1 | FT50652 | STEERING KNUCKLE INSERT |
| 1 | 62000005152 | 5/8" USS FLAT WASHER |
| 1 | 62000005081 | 5/8" SAE WASHER |
| 1 | FTAS12 | STICKER FT BLUE 10X4 |
| 1 | FTAS16 | DRIVER WARNING DECAL |
| 1 | FTREGCARD | REGISTRATION CARD |

# 2018-2024 JEEP WRANGLER(JL)/GLADIATOR(JT)

## DRAG LINK KIT

### FTS24210

***NOTE: REFER TO OPTIONAL KIT BOX INSTRUCTIONS PRIOR TO INSTALLATION.***

**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
- Torque Wrench
- Assorted Metric and S.A.E sockets, and Allen wrenches
- Die Grinder w/ Cutoff Wheel or Sawzall
- Drill
- 1” Drill Bit

# - 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 -*

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# - INSTRUCTIONS -

## *FRONT SUSPENSION*

1. Jack up the front end of the vehicle and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.

2. Completely remove the factory drag link from the vehicle. Then disconnect the center link from the passenger side knuckle only. **SEE FIGURE 1**

*FIGURE 1 - STEP 2*

3. Using a 1” drill bit. Drill out the tapered hole on the knuckle where the factory drag link mounted. **SEE FIGURE 2-3**

*FIGURE 2 - STEP 3*

*FIGURE 3 - STEP 3*

4. Insert the FT50652 (Steering Knuckle Insert) into the knuckle to check it fits correctly and is flush with the bottom side. **SEE FIGURE 4**

*FIGURE 4 - STEP 4*

5. Locate the factory drag link. Loosen the adjuster and remove the rod end with the collar. **NOTE: There are two variances depending of the year of the vehicle. SEE FIGURE 5**

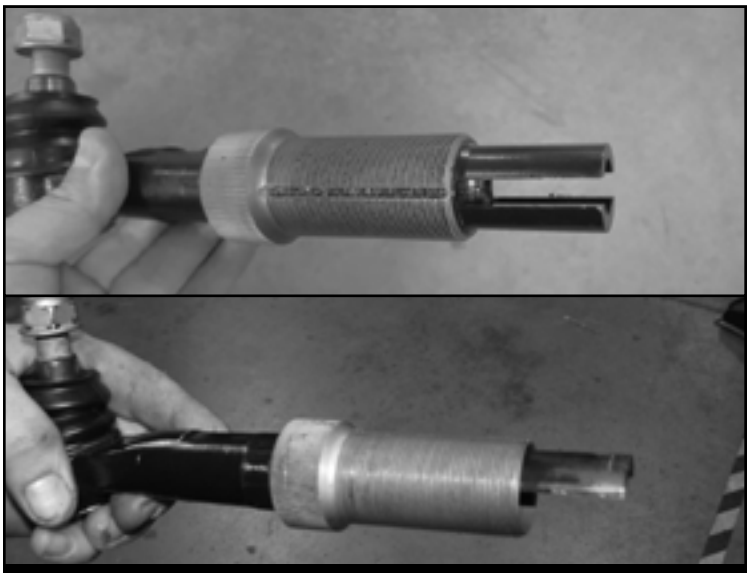

*FIGURE 5 - STEP 5*

6. Remove the collar from the rod end. The ear on the threaded end will need to be cut off flush. **SEE FIGURE 6**

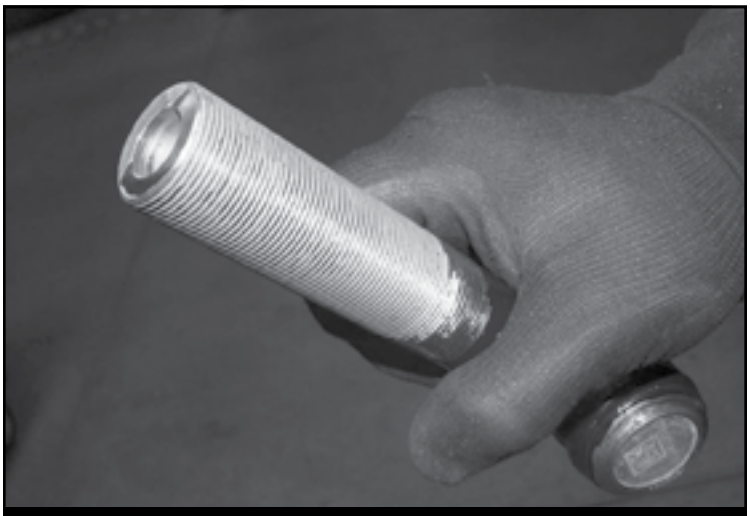

*FIGURE 6 - STEP 6*

7. Install the FT50650 (M33-1.5 Jam Nut) onto the factory adjuster. Next, install the adjuster into the FT50578 (Drag Link). **NOTE: When installing leave 3/8" space between the jam nut and the adjuster. This is a starting point, final adjustments will be made when alignment is made. SEE FIGURES 7-8**

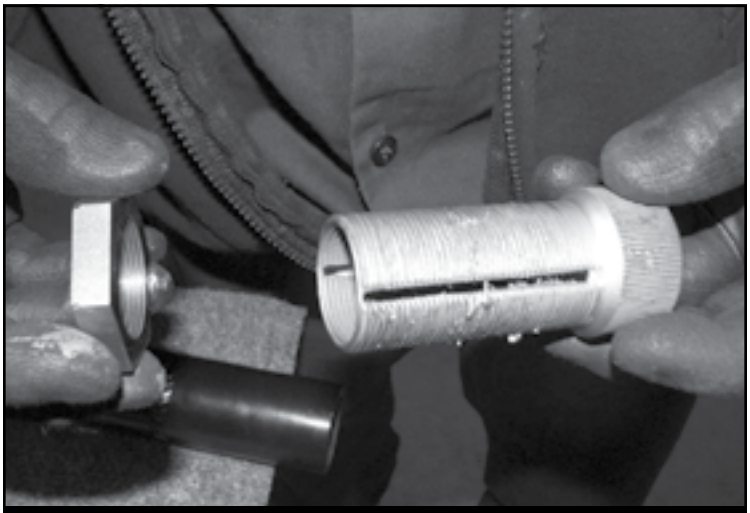

*FIGURE 7 - STEP 7*

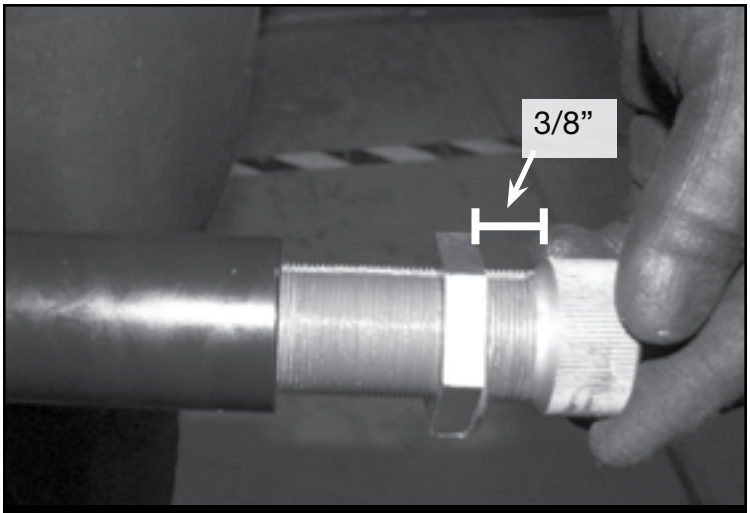


*FIGURE 8 - STEP 7*

8. Install FT50649 (M29-1.5 Jam Nut) onto the factory rod end. Next, install the rod end into the adjustor. **NOTE: When installing leave 3/8" space between the jam nut and the end of the thread on the rod end. This is a starting point, final adjustments will be made when alignment is made. SEE FIGURES 9-10 for installation and FIGURE 11 for final setup.**

*FIGURE 9 - STEP 8*

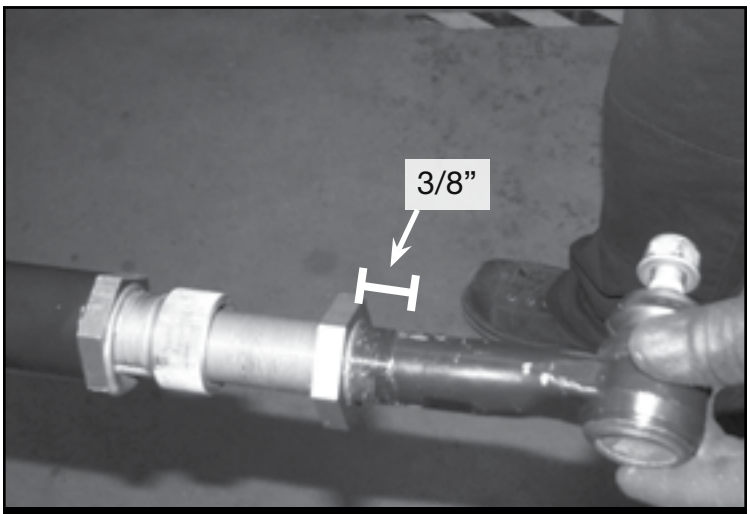


*FIGURE 10 - STEP 8*

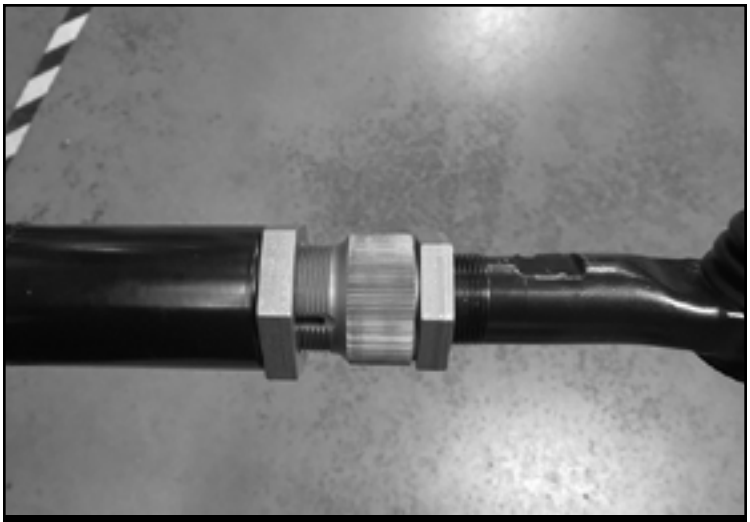

*FIGURE 11 - STEP 8*

9. Install the supplied Jam Nut on the FT50705 (Tie Rod End). **NOTE: When installing leave 1/2" space between the jam nut and the end of the thread on the rod end. This is a starting point, final adjustments will be made when alignment is made. SEE FIGURE 12.** Install the new rod end into the drag link.

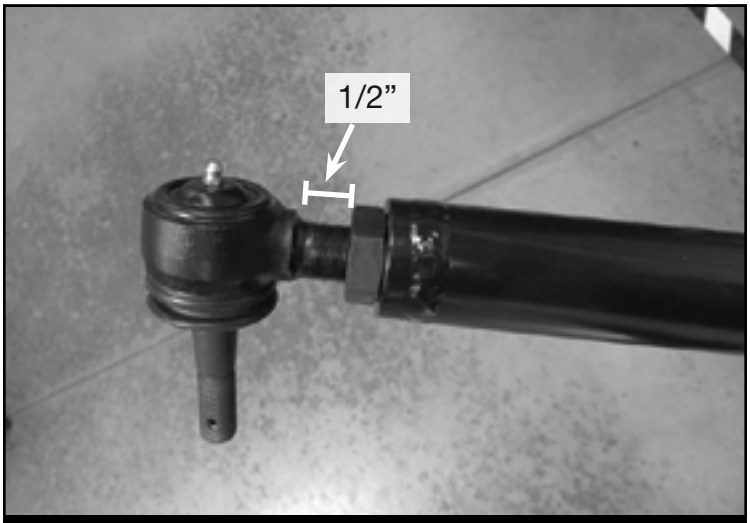


*FIGURE 12 - STEP 10*

10. Install the new drag link to the pitman arm and knuckle. Torque to 43 ft-lbs. **NOTE:** The straight end with the factory rod end will attach to the pitman arm. **SEE FIGURE 14**

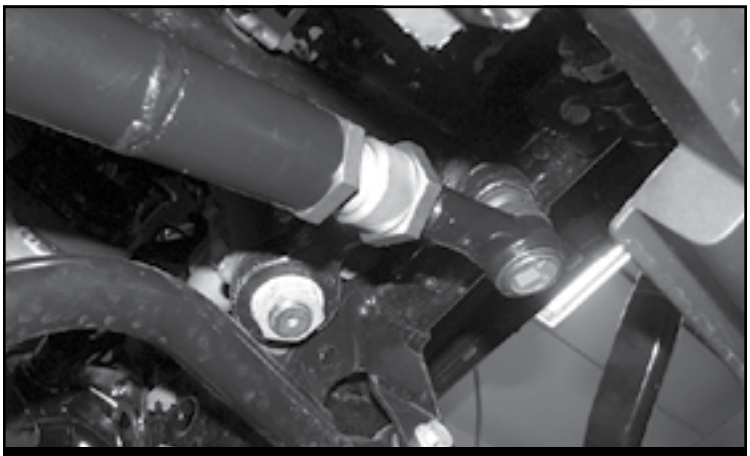

*FIGURE 13 - STEP 11*

11. Next, install the end with the new rod end to the knuckle like shown in **FIGURE 19** using the supplied 5/8" USS washer & 5/8" SAE washer on the bottom side. Torque to 43 ft-lbs then install cotter pin. **NOTE: Make sure the washer sits completely flush with the knuckle. Grind/ sand accordingly for proper fit. SEE FIGURE 15**

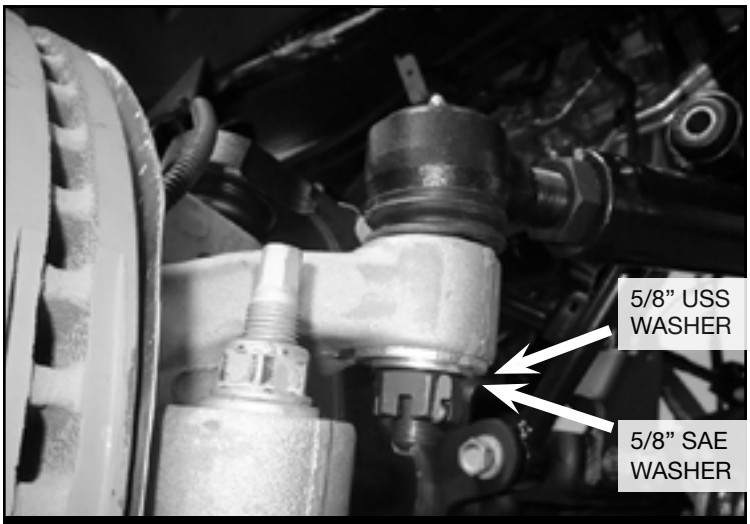


*FIGURE 14 - STEP 12*

12. Continue with the installation of optional kit boxes at this time.

13. 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.**

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 inconstancies 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