

Quadratec® Dual Steering Stabilizer Kit

Installation Manual: for '97-'06 (TJ) Wrangler

#16116.0202



PARTS LIST:

Steering Damper - Qty 2
Black Boot & Boot Tie - Qty 2 (each)
Decal - Qty 2
Hourglass Bushing - Qty 2
Sleeve - Qty 1
Stud Kit:
Stud - Qty 1
7/16" Flat Washer - Qty 1
7/16" Lock Washer - Qty 1
7/16" Nut - Qty 1
1/2" Nut - Qty 1

PARTS LIST continued:

Mounting Bracket - Qty. 2
Stem Bushing - Qty. 4
Stem Washer - Qty. 4
Stem Nut - Qty. 2
5/16 x 1-1/4 x 2-1/4 U-Bolt - Qty. 2
5/16 x 1 x 2-1/4 U-Bolt - Qty. 2
5/16 Flat Washer - Qty. 8
5/16 Nylock Nut - Qty. 8

TOOLS REQUIRED:

Safety Glasses
1/2" Socket
11/16" Socket
14mm,15mm,18mm,19mm Sockets
18mm Wrench
Needle Nose Pliers
Side Cutters
Torque Wrench
Hammer
Penetrating Oil
Pickle Fork

⚠ WARNING ⚠

TO REDUCE RISK OF SERIOUS INJURY OR PROPERTY DAMAGE: READ ALL SAFETY MESSAGES AND UNDERSTAND ALL INSTRUCTIONS AND PROCEDURE NOTICES BEFORE ATTEMPTING TO INSTALL OR USE THIS PRODUCT. FOLLOW ALL INSTRUCTIONS AND WARNINGS WITH PRODUCT & VEHICLE OWNERS MANUAL.

⚠ CAUTION ⚠

RISK OF EYE INJURY! SAFETY GLASSES MUST BE WORN AT ALL TIMES WHILE INSTALLING OR MAINTAINING THIS PRODUCT. TORQUE AND RECHECK FASTENERS AFTER 100 MILES AND PERIODICALLY THEREAFTER. DO NOT USE IF DAMAGED.



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A Few Words About Product Safety:

Your Quadratec Suspension product is intended to enhance the utility and enjoyment of your off road capable vehicle. Before installation, please review the following safety information and installation recommendations.

Throughout these instructions important safety information is generally preceded by one of three signal words indicating the relative risk of injury, property damage or adverse consequence. **The signal words mean:**

⚠ WARNING ⚠

a hazardous situation which, if not avoided, could result in death or serious injury. You **CAN** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

⚠ CAUTION ⚠

a hazardous situation which, if not avoided, could result in minor or moderate injury. You **CAN** be moderately **HURT** and also may suffer property damage if you don't follow instructions.

NOTICE

Careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your Quadratec® product or other property may result if you don't follow instructions.

Before You Begin Installation:

Congratulations on your purchase of the Quadratec Steering Stabilizer Kit for Jeep® Wrangler Vehicles. When unpacking, check to make sure all

parts are included and not damaged due to shipping. If any part is missing or broken, please call Customer Service at 800-745-6037 as soon as possible.

Steering Stabilizer Removal

⚠ CAUTION ⚠

PARK THE VEHICLE ON FLAT, LEVEL GROUND AND SET EMERGENCY BRAKE. POSITION WITH FRONT WHEELS AND TIRES STRAIGHT FORWARD.

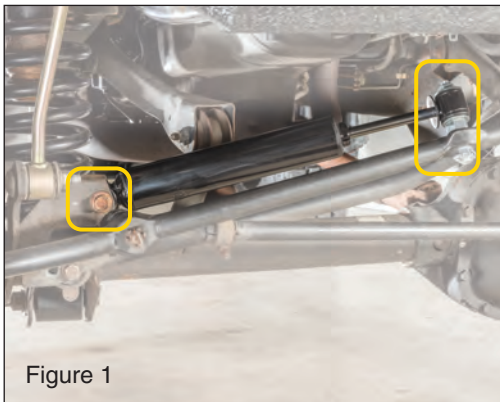


Figure 1

After securing vehicle as directed above, Put on Safety Glasses. First remove the axle end bolt and nut using a 15mm socket and 18mm wrench. Save hardware for later use. Remove drag link stud cotter pin using needle nose pliers. Remove castle nut using a 19mm socket. (see FIG 1) The stud is a tapered press fit and may be difficult to remove. We recommend using a penetrating oil and a pickle fork. A hammer may be used to tap on the end of the stud to help break it loose.



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Primary Steering Stabilizer Installation



Figure 2

Install supplied boot over new stabilizer and secure using the boot tie. Install one supplied hourglass bushing and sleeve into the body end of the stabilizer. (see FIG 2)

Install one hourglass bushing into shaft end of stabilizer. Install onto axle



Figure 4

Install the new tapered stud into original position using the 1/2" nut, torque to 53ft lbs using a 19mm socket. (see FIG 4)

Slide shaft end of stabilizer over stud and secure with the 7/16" flat washer,



Figure 3

bracket using the original hardware, loosely at this time. (see FIG 3)

Note: Be sure to install so the cylinder body is mounted to the axle side as shown. If mounted opposite way damage can occur to new stabilizer.

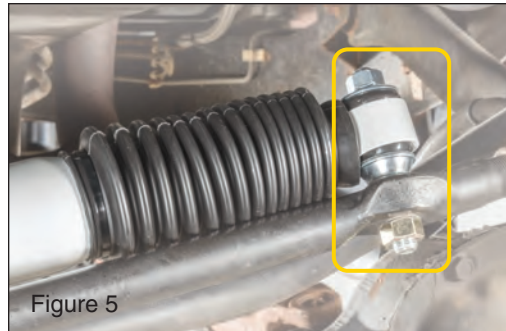


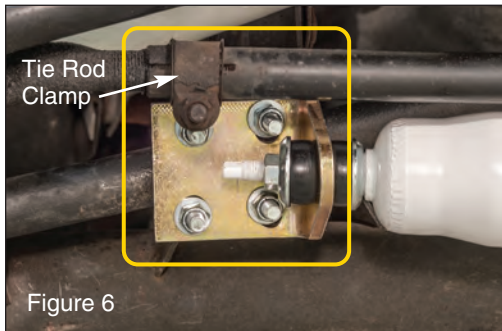
Figure 5

lock washer and nut using a 11/16" socket. (see FIG 4) Tighten until lock washer is compressed, bushings start to collapse and expand in diameter so there is pressure on it. Finally Torque axle end hardware to 55ft lbs.



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Secondary Steering Stabilizer Installation



Install supplied boot over secondary stabilizer and secure using the boot tie. Install the secondary stabilizer brackets loosely onto each end of stabilizer using the stem bushings, washers and nuts.



(FIG 6 & 7) Install nuts using a 14mm socket, loosely at this time. Make sure the stem bushing lips are towards the mounting hole in the brackets.

CAUTION

PULL THE STABILIZER SHAFT EXACTLY HALF WAY OUT. STABILIZER MUST BE KEPT OUT EXACTLY HALF WAY DURING INSTALLATION TO ALLOW FULL RANGE OF STEERING MOTION.

Mount stabilizer to track bar (see FIG 6) and tie rod (see FIG 7). Install 1.25" U-Bolts around track bar and 1" U-Bolts around tie rod using flat washers and nylock nuts using a 1/2" socket, but do not tighten yet.

Note: Be sure the passenger bracket is located directly below the tie rod clamp (see FIG 6) Once the brackets are into position torque to 15ft lbs.

Tighten the stabilizer stem nuts until the bushings start to collapse and expand in diameter so there is pressure on them.

After installation be sure to cycle steering and check for adequate clearance. In most cases it will be necessary to rotate the stabilizer bracket on the tie rod down slightly to allow for clearance.



Cycle steering again fully left to right and check for proper clearance. After the first 100 miles check all of the hardware for proper torque and periodically thereafter.

See separate sheet for Limited Warranty.

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Quadratec® Exclusive Limited Lifetime Warranty

Your Quadratec® branded accessories are covered by the following **Limited Warranty** provided exclusively by Quadratec, Inc., 1028 Saunders Lane, West Chester PA 19380.

This Limited Warranty is the only warranty made in connection with your purchase. Quadratec neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or Limited Warranty. This Limited Warranty does not apply and is not cumulative to any accessory or part distributed by Quadratec for which the Manufacturer provides a separate written warranty.

What is Covered: Subject to the terms, exclusions and limitations herein and with respect only to Quadratec branded accessories first sold in the United States, Quadratec warrants to the initial retail purchaser only that your Quadratec accessory shall be free of defects in material and workmanship: **for as long as the original purchaser owns the vehicle. The Warranty on bushings and other serviceable wear items (including shock absorbers) is limited to 1 year from date of retail purchase.** This Limited Warranty is not assignable and shall terminate upon sale of the vehicle upon which the Quadratec accessory is installed or other transfer third persons.

All other warranties are hereby disclaimed, except to the extent prohibited by applicable law in which case any implied warranty of merchantability or fitness for a particular purpose on this limited to **for as long as the original purchaser owns the vehicle.** Quadratec reserves the rights to: (a.) require invoice or other proof your accessory is within the terms of this Limited Warranty as a condition of warranty service and, (b.) make future revisions to this product and Limited Warranty without prior notice or obligation to upgrade your product.

What is Not Covered:

Your Quadratec Limited Warranty does not cover products or parts Quadratec determines to have been damaged by or subjected to: (a.) installation damage, alteration, modification, combination with other parts, failure to maintain or improper repair or service, (b.) defects or use which pre-dates installation of Quadratec® accessory

or suspension kit by authorized dealer or shop, (c.) normal wear & tear or gradual reduction in expected performance of vehicle or components, (d.) emissions control or electronic stability systems or components, (e.) cosmetic damage or damage from moisture or water immersion, (f.) fleet, rental or commercial use, (g.) Acts of God, accidents, misuse, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (h.) theft, vandalism or other intentional damage. (i.) use in competition or racing.

Other Exclusions: Surface finish of exposed suspension components is not covered under this Limited Warranty.

Remedy Limited to Repair/Replacement:

The exclusive remedy provided hereunder shall, upon Quadratec inspection and at Quadratec's option, be either repair or replacement of product or parts (new or refurbished) covered under this Limited Warranty. Customers requesting warranty consideration should first contact Quadratec to obtain a RGA number (610-701-3336). All labor, removal, shipping and installation costs are customer's responsibility.

Other Limitations - Exclusion of Damages - Your Rights Under State Law:

In consideration of the purchase price paid, neither Quadratec nor any independent Quadratec distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy hereunder for covered parts is repair/replacement as described above.

This Limited Warranty gives you specific rights. You may also have other rights that vary from state to state. For example, some states do not allow limitations of how long an implied warranty lasts and /or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

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