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TOYOTA STEERING STABILIZER INSTALLATION INSTRUCTIONS 1986-1996 4RUNNER, PICKUP 1993-1998 T100

SS KIT# 6177
SSV KIT# 7177

⚠ WARNING

Before you install this kit, read and understand all instructions, warnings, cautions, and notes in this instruction sheet and in the vehicle owner's manual.

⚠ CAUTION

Proper installation of this kit requires knowledge of the factory recommended procedures for removal and installation of original equipment components. We recommend that the factory shop manual and any special tools needed to service your vehicle be on hand during the installation. Installation of this kit without proper knowledge of the factory recommended procedures may affect the performance of these components and the safety of the vehicle. We strongly recommend that a certified mechanic familiar with the installation of similar components install this kit.

⚠ WARNING

This kit should only be installed on a vehicle that is in good working condition. Before you install the kit, thoroughly inspect the vehicle for corrosion or deformation of the sheet metal. If the vehicle is suspected to have been in a collision or misused, do not install this kit. Off-road use of your vehicle with this kit installed may increase the stress applied to the factory components. Failure to observe this warning may result in serious personal injury and/or severe damage to your vehicle.

⚠ WARNING

The installation of larger tires may reduce the effectiveness of the braking system.

⚠ WARNING

Before you install this kit, block the vehicle tires to prevent the vehicle from rolling.

⚠ WARNING

Always wear eye protection when operating power tools.

Before Starting Installation

NOTE

Kit parts are prefaced by the word *kit* and appear in **bold print**.

1. Carefully read all warnings and instructions completely before beginning.
2. Verify all parts have been received in this kit by checking the parts list at the end of this document.
3. **Only install this kit on the vehicle for which it is specified.** If anytime during the installation you encounter something different from what is outlined in the instructions, call technical support at (928) 636-3175.
4. Park vehicle on a clean, dry, flat, level surface and block tires so vehicle cannot roll in either direction.
5. Measure stroke of **kit stabilizer**.
 - a. Length of **kit stabilizer** fully extended _____
 - b. Length of **kit stabilizer** fully retracted _____
 - c. One-half (1/2) extended length equals:
Value (a.) - Value (b.) / 2 _____

NOTE

Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the factory service manual. When re-assembling the vehicle it is recommended by the vehicle manufacturer that certain fasteners are replaced in order to maintain proper retention characteristics. This system may not include all replacement hardware as recommended by the factory service manual. Additional replacement hardware should be obtained prior to installation of this system to meet the requirements of the factory service manual.

Torque Specifications

See factory service manual for torque values when re-using OE fasteners.

Bolt Size	Grade 5 (ft.-lbs.)	Grade 8 (ft.-lbs.)
1/4"-20	10	10
1/4"-28	10	12.5
5/16"-18	17	22.5
5/16"-24	20	25
3/8"-16	30	40
3/8"-24	35	45
7/16"-14	50	65
7/16"-20	55	70
1/2"-13	75	100
1/2"-20	55	70
9/16"-12	105	135
9/16"-18	115	150
5/8"-11	150	195
5/8"-18	160	210
3/4"-16	175	225

Engine Compartment

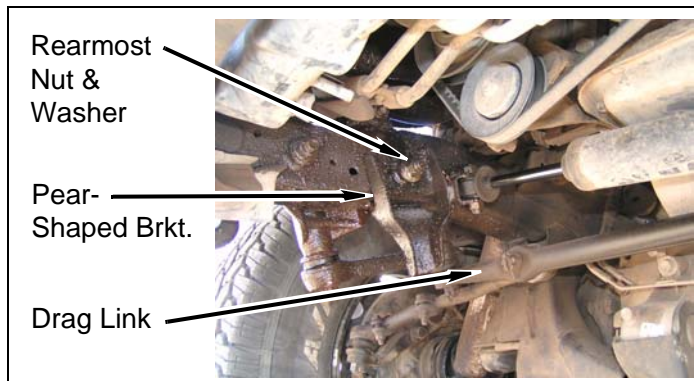
1. Disconnect both battery cables. Disconnect negative cable first, then positive cable.

Prepare to Install Steering Stabilizer

1. Set steering wheel and front wheels straight.
2. Remove hardware and original equipment steering stabilizer if equipped.

Install Steering Stabilizer

1. Remove nut and thick washer from passenger side, rearmost bolt and steering idler bracket.



2. Install *kit bracket* (frame) onto rearmost bolt, through 1/2" hole in *kit bracket* (frame) with nut. Center *kit bracket* (frame) within pear-shaped bracket. DO NOT TIGHTEN NUT.
3. Using *kit bracket* (frame) as a template, drill 3/8" hole through pear-shaped bracket.
4. From 3177BAG: Install *kit bracket* (frame) onto pear-shaped bracket with *kit bolt* (3/8" x 2-1/2") and *kit nut* (3/8" Nylock).\
5. TIGHTEN rearmost nut and bolt, and *kit bolt* (3/8" x 2-1/2").
6. From 3177BAG: Install *kit bracket* (tie rod) onto passenger side tie rod with two *kit u-bolts*, four *kit washers* (1/4" USS), and four *kit nuts* (5/16" Nylock). DO NOT TORQUE.
7. Install *kit boot* onto *kit stabilizer* with *kit tie*.
8. **From SHABG70 & 145098:** Install body end of *kit stabilizer* onto *kit bracket* (frame) with two *kit washers* (stem cup), two *kit bushings* (stem), and *kit nut* (3/8"). DO NOT TIGHTEN.
9. **From SHBAG70 & 145098:** Install piston end of *kit stabilizer* onto *kit bracket* (tie rod) with two *kit washers* (stem cup), two *kit bushings* (stem), and *kit nut* (3/8"). DO NOT TIGHTEN.
10. Set *kit stabilizer* to previously measured 1/2 of extended length.
11. Turn steering wheel from lock-to-lock and adjust *kit brackets* and/or *kit stabilizer* to ensure proper clearance between all steering, suspension, and frame components.
12. TORQUE *kit u-bolts* to specification.
13. TIGHTEN two *kit nuts* (3/8") until *kit bushings* (stem) are slightly compressed.

⚠ CAUTION

DO NOT overtighten *kit nuts* (3/8") or damage may occur to *kit bushings* (stem).

14. Install two *kit nuts* (3/8" jam) onto *kit stabilizer*.

After Completing Installation

1. Ensure proper clearance between all moving and static steering, suspension, and frame components with *kit brackets* and *kit stabilizer*. Adjust *kit brackets* and/or *kit stabilizer* if necessary.

Engine Compartment

1. Connect both battery cables. Connect positive cable first, then negative cable.

Miscellaneous

1. Apply *kit label* (warning) onto dashboard in plain sight of all vehicle occupants.
2. Check all fasteners to ensure they are tight.
3. Ensure all wires, hoses, cables, etc. are properly connected and there is ample slack.

Dynamic Vehicle Check

1. Check steering and suspension in all positions to ensure that there is no bind and adequate clearance between all moving, fixed, and heated members. Check operation of clutch, brake system, and parking brake. Check operation of transmission and transfer case. Ensure there is full engagement in all gears and 4WD ranges. Check battery connections and electrical component operations. Test-drive vehicle.

⚠WARNING

Retorque all fasteners after 500 miles and after off road use. All suspension lift components should be visually inspected and fasteners retorqued during routine vehicle servicing.

⚠CAUTION

Performance Automotive Group does not recommend any particular wheel and tire combinations for use with its suspension lifts and cannot assume responsibility for the customer's choice of wheels and tires. Refer to your owner's manual for recommended tire sizes and warnings related to the use of oversized tires. Larger wheel and tire combinations increase stress and wear on steering and suspension components, which leads to increased maintenance and higher risk for component failure. Larger wheel and tire combinations also alter speedometer calibration, braking effectiveness, center of gravity, and handling characteristics. Consult an experienced local off road shop to find what wheel and tire combinations work best with your vehicle.

NOTE

All warranty information, instruction sheets, and other documents regarding the installation of this product must be retained by the vehicle owner. Information contained in the instructions and on the warranty card will be required for any warranty claims. The vehicle owner needs to understand the modifications made to the vehicle and how they affect vehicle handling and performance. Failure to provide the customer with this information can result in damage to the vehicle and severe personal injury.

Kit Parts List

Qty. Description

1 **Boot**
1 **Bracket (frame)**
1 **Bracket (tie rod)**
1 **Label (logo)**
1 **Stabilizer**
1 **Tie**

1 3177BAG (Hardware Bag Kit)

1 **Bolt (3/8" x 2-1/2")**
1 **Nut (3/8" Nylock)**
4 **Nut (5/16" Nylock)**
2 **U-bolt (5/16" x 1-1/4" x 2")**
4 **Washer (1/4" USS)**

2 SHBAG70 (Stem Bushing Bag Kit)

2 **Bushing (stem)**
1 **Nut (3/8" jam)**

2 145098 (Stem Washer Bag Kit)

2 **Washer (stem cup)**
1 **Nut (3/8")**

NOTE

Depending on the vehicle configuration some parts may not be used.