



## INSTALLATION INSTRUCTIONS

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### 5445 FRONT ANTI-SWAY BAR 90-97 FORD RANGER

**Congratulations! You were selective enough to choose a SUSPENSION TECHNIQUES PRODUCT. We have spent many hours developing our line of products so that you will receive maximum performance with minimum difficulty during installation.**

- Note: Confirm that all of the hardware listed in the parts list is in the kit. **DO NOT** begin installation if any part(s) is missing. Read the instructions thoroughly before beginning this installation.
- Warning:** **DO NOT** work under a vehicle supported by only a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.
- Warning:** **DO NOT** drive vehicle until all work has been completed and checked. Torque all hardware to values specified.
- Reminder: Proper use of safety equipment and eye/face/hand protection is absolutely necessary when using these tools to perform procedures!
- Note: It is very helpful to have an assistant available during installation.

#### RECOMMENDED TOOLS:

- Properly rated floor jack, support stands, and wheel chocks
- Combination wrench set
- Ratcheting socket wrench and socket sets
- Safety Glasses

#### 1. KIT INSTALLATION

- A. Open the hardware kit and remove all of the contents. Refer to the part list (Page 2) to verify that all parts are present.
- B. Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the REAR wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1<sup>st</sup> gear (manual) or "Park" (automatic).
- C. Using a properly rated floor jack, lift the front wheels of the vehicle off the ground. Place support stands, rated for the vehicle's weight, and in the factory specified locations. Refer to the vehicle Owner's Manual. Prior to lowering the vehicle onto the stands, make sure the supports will securely contact the chassis.
- D. It is very important that the vehicle is properly supported during this installation to prevent personal injury and chassis damage! Make sure that the supports stands are properly placed prior to performing the following procedures. We **DO NOT RECOMMEND** using wheel ramps while performing this installation.
- E. Slowly lower the vehicle onto the stands and, before placing the vehicle's entire weight on them, again check that they properly and securely contact the chassis as described above. Check for possible interference with any lines, wires, cables, or other easily damaged components.

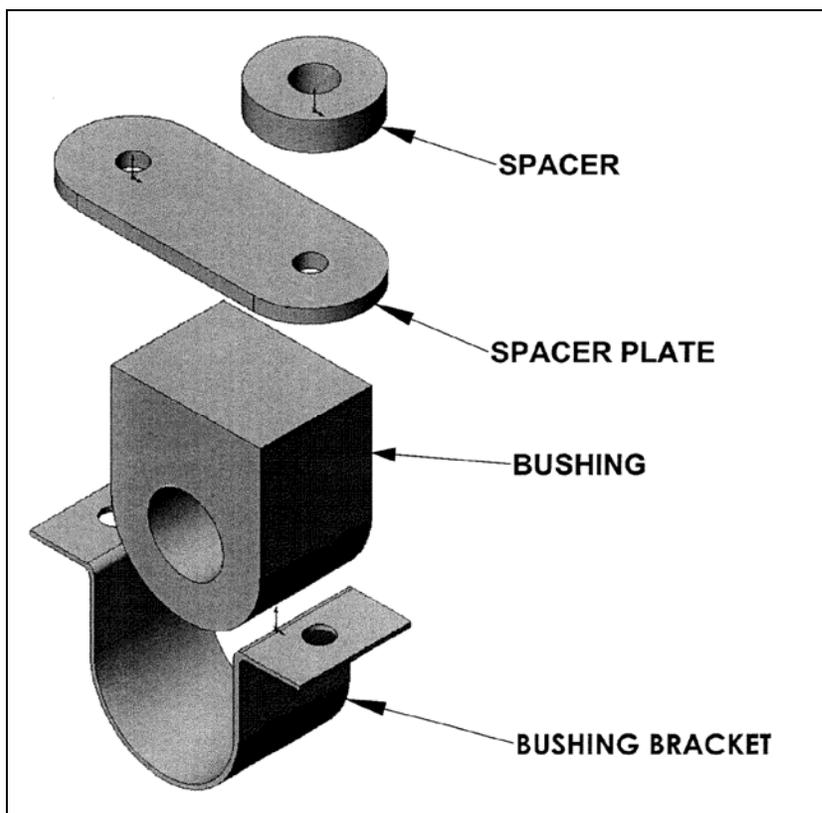
## 2. FRONT SWAY BAR REMOVAL

- A. Locate the front Anti-Sway Bar, located on the underside of the engine and behind the radiator, as seen in Photo 1.
  - B. Using an 18mm wrench on both sides, loosen and remove the mounting bolt and nut from where the Anti-Sway Bar attaches to the end links. (Photo 2).
  - C. Locate the bushing mounting brackets (Photo 3). Using an 18m wrench, loosen and remove all four mounting bolts that secure both mounting brackets.
  - D. Once all the mounting hardware has been removed, remove the original equipment Anti-Sway Bar from its mounts (Photo 4).
  - E. With the lubricant supplied with the kit, thoroughly lubricate the inside of the new polyurethane bushings (Photo 5), rotating the bushings slightly, too evenly spread the lubricant.
  - F. Place the new bushings in the same location the original bushings were located. Once both bushings have been located, place the new Anti-Sway Bar up to the original location (Photo 6).
  - G. With the new Anti-Sway bar in position, insert the mounting hardware that attaches the Anti-Sway Bar to the end links (Photo 7), one side at a time. Finger tight only. The new Anti-Sway Bar should now be located atop the steering arm at both ends.
  - H. Place the bushing brackets over each respective bushing. The u-shaped bracket slides over the new bushing with a spacer bar that is located between the legs of the bracket and the chassis.
    - On this particular Anti-Sway Bar kit, the left and right front (drivers' and passengers' side) sides, spacers are needed. Located between the spacer bar and the chassis, the rear mounting holes (towards the rear of the vehicle) is where the spacer should be located. (See Fig. 1)
  - I. Holding the new Anti-Sway Bar up, insert the mounting hardware and finger-tight, but do not tighten (Photo 7). Do this at both ends.
  - J. Rotating the ends of the new Anti-Sway Bar up to the stock end links, re-install the original mounting hardware.
  - K. Prior to tightening down all mounting hardware, make sure the new Anti-Sway Bar is centered. Once centrally located, tighten and torque the end link hardware to manufacturers' torque specifications(Photo 8)
  - L. It may be helpful to use a large size pry bar or screw driver for leverage(Photo 9), to move the bushing bracket to align the holes up to the chassis holes, holding it there while tightening the hardware.
- NOTE:** To prevent chassis damage, never over-torque mounting hardware.
- M. Tighten the mounting hardware for the bushing brackets using a
  - N. Check that all components and fasteners have been properly installed, tightened and torqued.
  - O. Check brake hoses, steering and other components for any possible interference.

- P. Lift vehicle and remove support stands. Carefully lower vehicle to ground.
- Q. Immediately test-drive the vehicle in a remote location so that you can become accustomed to the revised driving characteristics and handling. Be aware that the vehicle will handle substantially different now that it has been modified.
- R. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.

### PARTS LIST FOR ANTI-SWAY BAR KIT

PART No.	DESCRIPTION	QTY.
5445-200	FRONT SWAY BAR	1
113095	PIVOT BUSHING	2
114026	BUSHING BRACKET	2
110625	3/8 FLAT WASHER	4
114038	UNDER SUPPORT PLATE	2
2005-007	SPACER	2
112024	SKT.HCS 10mm-1.25 X 30mm	4
55000-010	GREASE PACK	1

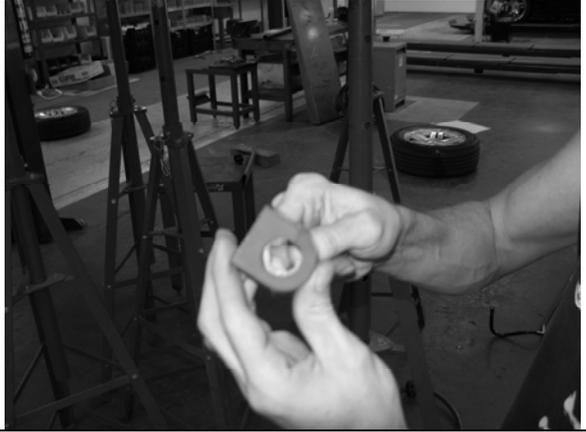


**FIG. 1**

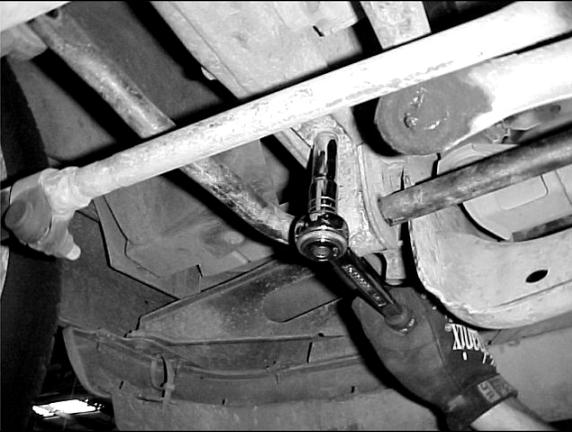
**PHOTO 1**



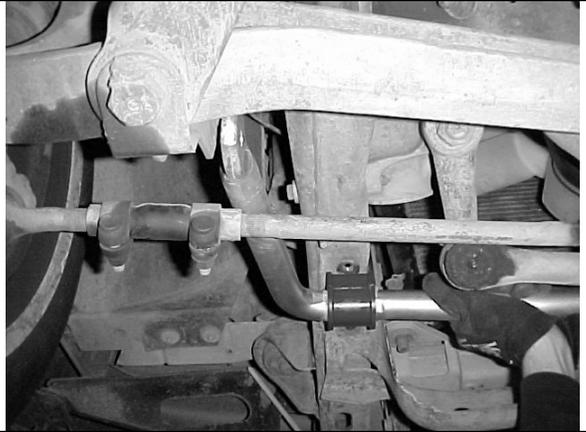
**PHOTO 4**



**PHOTO 2**

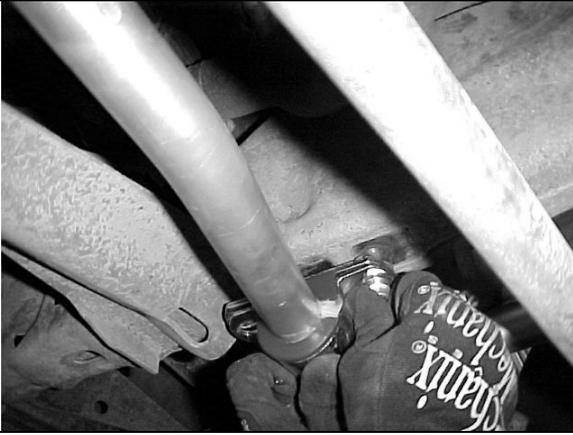


**PHOTO 5**

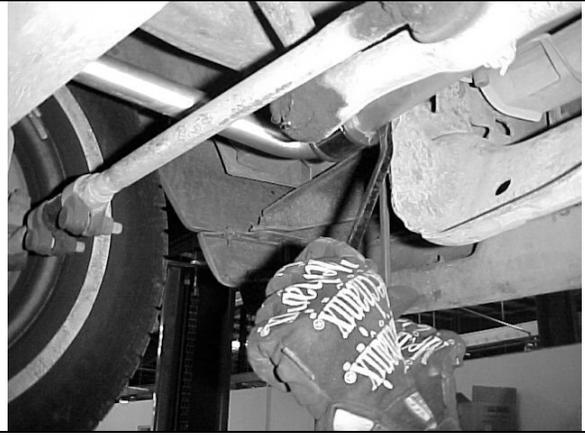


**PHOTO 3**

**PHOTO 6**



**PHOTO 7**



**PHOTO 9**



**PHOTO 8**

## **! SUSPENSION TECHNIQUES INSTALLATION TIPS**

### **LUBRICATION**

Pre-lubricating the inside of the bushing before it's installed is important because the lubrication will greatly reduce noise and it will increase bushing life. Suspension Techniques recommends you use Molybdenum disulfide. This will help protect the inside surface of the bushing and will last longer than most types of grease. Thoroughly lubricate the inside of the bushing with this grease.

### **BUSHING INSTALLATION**

Make sure an amount of 1/32" to 1/16" of the bushing is showing when you install it onto the bracket. See the diagram above. If the bushing is showing more than 1/16" than use a sander or a sheet of coarse grit sand paper to shave it down to the proper height. In most applications when installing the new bushings on your Suspension Techniques Anti-Sway Bar you may refer to your original equipment Anti-Sway Bar to locate the proper location.

### **END LINK INSTALLATION**

It is not required that you use lubricant on the end links since there is no rotational movement.