



## INSTALLATION INSTRUCTIONS

51165

### REAR ANTI SWAY BAR

93-96 MAZDA RX-7

**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 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 set
- Safety Glasses

**Note: It is very helpful to have an assistant available during installation.**

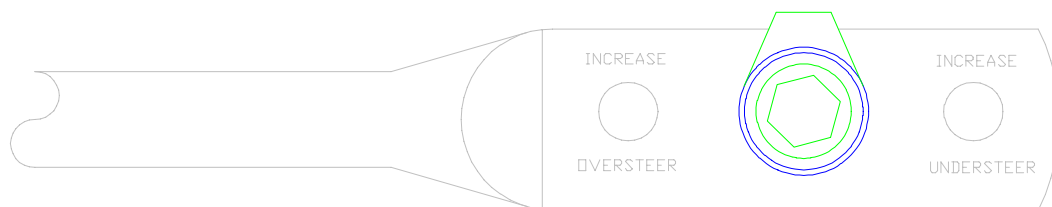
**SAFETY REMINDER: PROPER USE OF SAFETY EQUIPMENT AND EYE/FACE/HAND PROTECTION IS ABSOLUTELY NECESSARY WHEN USING THESE TOOLS TO PERFORM PROCEDURES!**

#### **KIT INSTALLATION**

1. Open the hardware kit and remove all of the contents. Refer to the part list (Page 3) to verify that all parts are present.
2. Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the FRONT 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).
3. Using a properly rated floor jack, lift the REAR 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.

4. 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.
5. 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.
6. Locate the end-links at the ends of the bars and disconnect from the anti-sway bar. Mark on each side of the chassis directly above the anti-sway bar, right past the bushings and between the 90-degree bends where the bar bends forward. The chassis is spot welded together and the metal that hangs down directly above the bar needs to be trimmed upwards to make clearance for the new larger diameter Suspension Techniques anti-sway bar. Mark the location before you remove the bar. The cutting can be done after the bar has been removed. See diagram.
7. Locate and remove bushing brackets from the center portion of the anti-sway bar. Remove the original equipment anti-sway through the driver's side. A little twisting and turning of the bar will be needed to remove the bar.
8. Thoroughly lubricate the **inside** of your new hyper-thane bushing using a high-grade lithium or silicone-based grease with moly (molybdenum disulfide). Place lubricated bushing on your new Suspension Techniques anti-sway bar. Refer to the original equipment anti-sway bar for proper bushing location.
9. Insert the suspension Techniques anti-sway bar from the driver's side. Position your new anti-sway bar in the factory location and fasten center portion using the brackets provided in kit and the original equipment bolts. For clearance with the bushing bracket it might be necessary to unbolt the gas tank support bracket on the drivers side, bolt the anti-sway bar bushing bracket to the chassis first then retighten the gas tank support bracket. It might be necessary to grind off corner of the muffler heat shield mounting bracket for bushing clearance on the passenger side of the vehicle.
10. With the center portion properly fastened, connect the ends of the anti-sway bar to the original equipment end links.

11. **\*This bar is adjustable:**



12. All hardware being fastened to the vehicle's original fastening points should be torqued to the proper specifications. To prevent chassis damage, never over-torque the hardware.
13. Attach the stock end links to the new anti-sway bar, tighten end link to 20ft. lbs.

14. Check that all components and fasteners have been properly installed, tightened and torqued.
15. Check brake hoses, and other components for any possible interference.
16. Lift vehicle and remove support stands. Carefully lower vehicle to ground.
17. 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.
18. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.
19. We highly recommend installing the appropriate matching Suspension Techniques front Anti-sway Bar to maintain proper handling characteristics and performance. See the current Suspension Techniques Application Guide or contact you nearest Suspension Techniques Dealer for the appropriate part number for your application.

### PART LIST FOR 51165 REAR ANTI-SWAY BAR KIT

Part Number	Quantity	Description
51165-300	1	Rear ASB
113030	2	Pivot Bushing
114030	2	Bushing Bracket
55000-10	1	Grease Pack

