



INSTALLATION INSTRUCTIONS

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51228 Rear Anti-Sway Bar Scion FR-S / Subaru BRZ / Toyota GT86

Thank you! You were selective enough to choose a ST Suspensions 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.

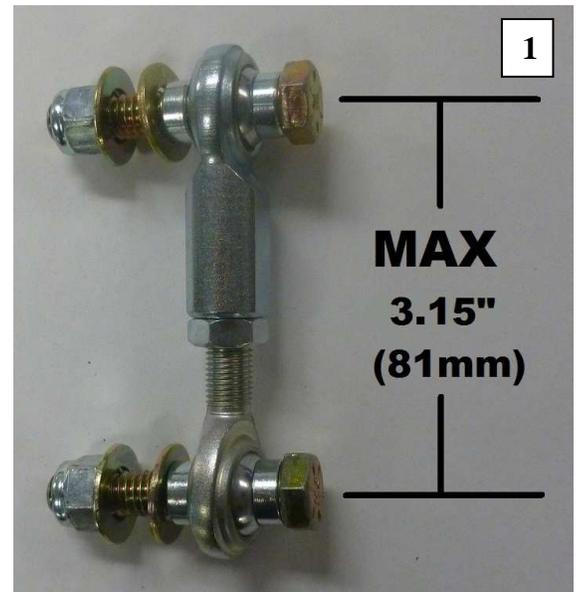
RECOMMENDED TOOLS:

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

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 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 1st 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.
- ! 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.
4. 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.
 5. Unbolt and remove OE anti-sway bar, pivot bushings & brackets and OE end links.

6. Install the ST endlink bracket into the control arm using the OE bolts, note the direction of this bracket is inward from the hole in the control arm. Photo 2
7. Grease the new polyurethane bushings and install on the ST anti-sway bar. Using the supplied 8mm bolts, washers, bushing brackets, and bushing backing plates, install the ST anti-sway bar onto the vehicle. Tighten the bushing bracket bolts while pushing upward on the bushing brackets.
8. Assemble the endlinks as shown in photo 1. Select a hole and install the endlinks on the ST anti-sway bar. The 1st hole at the end of the bar is slightly stiffer than the OE anti-sway bar, the 3rd hole from the end is the stiffest. Bolt the endlink to the bracket in the hole that is closest. Adjust the length of the end link so that when the car is on the ground, the ST anti-sway bar end is level with the ground. Never exceed 3.15" (81mm) from the centers of the bolt, photo 1.
9. Install split collars on the inside of the bushings, touching the bushings. Make sure there is a small amount of grease in between the bushing and collar.
10. Check that all components and fasteners have been properly installed, tightened and torqued.
11. Check brake hoses, cable, wiring and other components for any possible interference.
12. Lift vehicle and remove support stands. Carefully lower vehicle to ground. Double check the endlink adjustment length is correct.
13. 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.
14. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.



PARTS LIST
Anti-Sway Bar 51228

PART NUMBER	DESCRIPTION	QTY.
51228-300	REAR ANTI-SWAYBAR	1
113192	PIVOT BUSHING	2
114020-95	PIVOT BUSHING BRACKET	2
114042-95	BUSHING BACKING PLATE	2
112004	8mm BOLTS	4
110635	8mm WASHERS	4
112244	HEIM JOINT, MALE	2
112242	HEIM JOINT, FEMALE	2
112316	JAM NUT	2
112412-95	SPACER	8
112102	BOLT, 3/8-16 X 2	4
110255	LOCK NUT 3/8	4
110625	WASHER 3/8	8
51228-001-99	ENLINK BRACKET	2
113901	SPLIT COLLARS	2
55000-10	GREASE PACK	1