

## Sway Bar Adjustable End Link Kit

1999-05 Miata- Front

Part No. 54201

### Installation Instructions

#### Sway Bar End Links (Options):

- 1) The stock end links may be used with the **Racing Beat Tubular Sway Bar** if no modifications are made to the lower control arm end link attachment bracket.
- 2) The **Racing Beat Tubular Sway Bar** (or any other aftermarket sway bar) can be used with our **Heavy Duty Sway Bar End Link Kit (Part No. 54201)** if the modifications to the lower control arm attachment bracket have not been made. However, we strongly recommend the addition of the **Lower Control Arm Reinforcement Flange Kit (Part No. 54111)**.
- 3) If the **Lower Control Arm Reinforcement Flanges** are added to the lower control arm attachment bracket, then our **Heavy Duty Sway Bar End Link Kit (Part No. 54201)** MUST be used.

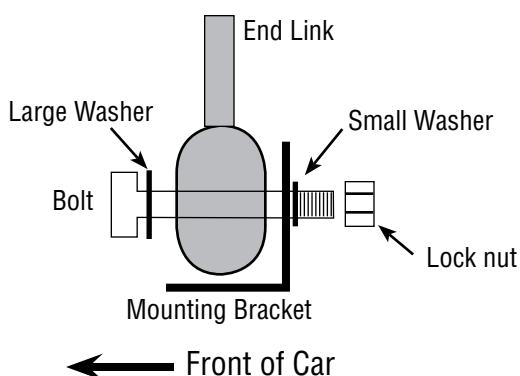
Before you start the installation process, please read through the following steps thoroughly.

#### Installation Procedures:

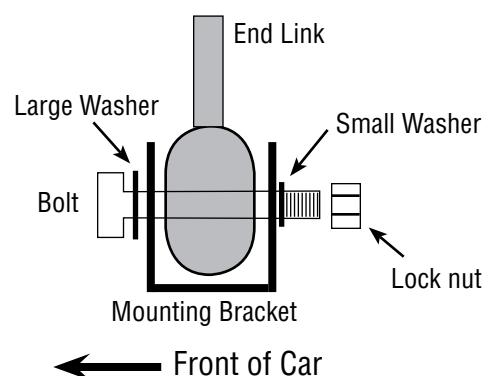
It is not necessary to remove the front wheels to complete the installation of these end links, however, removing the wheels will provide better access for this installation procedure. If you do decide to remove the front wheels, loosen the lug nuts before placing the front of the car on jack stands.

1. Jack up the front of the car and place on safety stands. DO NOT work under a car supported only by a jack!
2. If the wheels are on the car, simply turn the wheels to allow access to the end links.
3. Remove the stock links.

End link attachment on **stock**  
lower control arm bracket



End Link attachment on **reinforced**  
lower control arm bracket



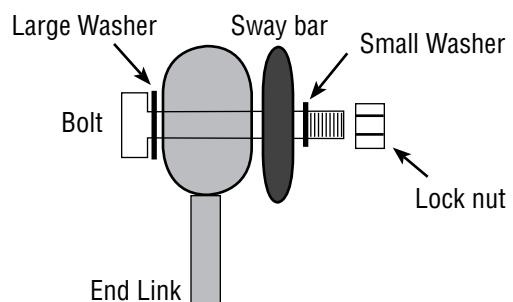
4. Assemble the Racing Beat links as shown in Figure 1 below, and adjust the to match the length and alignment of the stock links. Do not tighten the jam nuts at this time.

5. Install the Racing Beat links as described below using the supplied bolts and washers and lock nuts. (**Mount the link to the INNER side of the sway bar.**) Tighten both bolts on each side to 27 ft lbs. Mounting bolt MUST be oriented as shown below to avoid possible contact with the steering arm.

6. Firmly tighten the jam nuts on the Racing Beat links.

7. Re-install the wheels. Lower the car and tighten the lug nuts.

### End Link attachment to sway bar

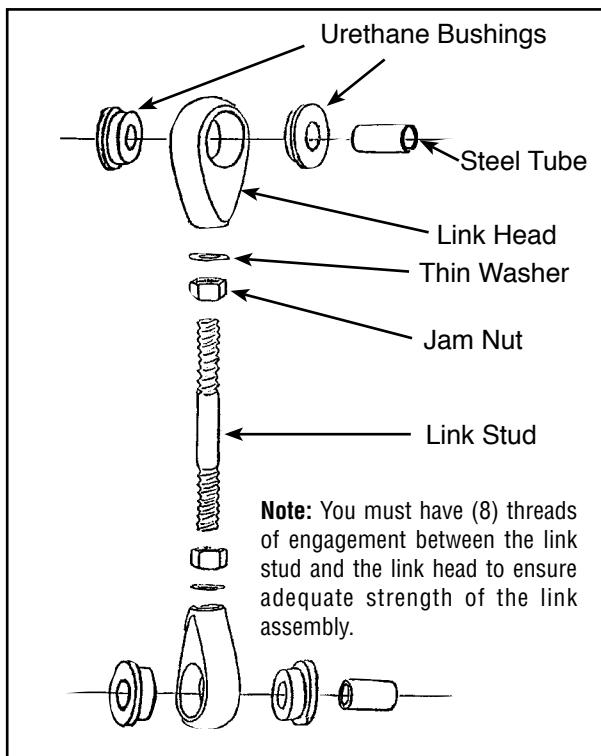


### Application Tips

If you are particularly sensitive to the handling of your car, you may wish to make the extra effort of setting the "neutral" position of the sway-bar links - see below. This is accomplished by parking the car on a perfectly level surface and adjusting the length of one of the links on each bar so that there is no load on the sway-bar. We recommend that you make this adjustment by shortening the links rather than lengthening them. In extreme cases it may be necessary to shorten the link studs to prevent the stud tips from being screwed into the urethane bushings.

It is also possible to "jack" weight from one corner of the car to another by intentionally mismatching the length of the links. We do not recommend weigh "jacking" for street use. If you have adjusted the Racing Beat links to a non-stock length, you must check carefully to ensure that the sway-bar and links will not strike any part of the chassis, brake lines, suspension, differential, radiator or any other portion of the car.

**Figure 1**  
**Link Assembly**



### Suggested Installation & Adjustment Method

Assemble and fully install one (1) link at the front and one (1) at the rear at the nominal length and tighten completely.

Install one end of the remaining links (front and rear) with the link set to the nominal length (that is, one end torqued and the other not installed). Now let the car down onto a flat surface, roll the vehicle back-and-forth to settle the suspension, and reach into the suspension area at one end of the car and attempt to install the free end of the link into its hole.

Loosen or tighten the end link housing on the stud as necessary until the end fits in place without preload. Repeat this process on the other end of the car. Now raise the car and tighten the remaining nuts.