

## Sway Bar Adjustable End Link Kit

Part No. 54200

### Installation Instructions

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

#### Installation Procedures for Front or Rear Sway Bar:

1. Loosen the lug nuts then raise the car and place on safety stands. DO NOT work under a car supported only by a floor jack!
2. Remove the wheels.
3. Remove the stock sway bar end links.
4. Assemble the Racing Beat links as shown in Figure 1, and adjust 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 following the suggested method on the next page.

#### 1990-97 Miata - Front & Rear

(Must use PN 54201 for 1999-05 Miata Front)

Use the supplied mounting bolts, washers and nuts. Install the bottom bolt first, using one each of the supplied small and large washers and locknuts. (See Figure 2) Install one of the large, heavy washers on the upper bolt and insert the bolt through the link into the sway-bar. Install one of the small supplied washers and a locknut on the bolt. Tighten both bolts on each side to 27 ft lbs.

#### 1999-05 Miata - Rear

Use the supplied mounting bolts, washer and nuts. First, install the bottom bolt as shown in Figure 3, using one of the supplied small and large washers and locknuts. Install one of the large, heavy washers on the upper bolt and insert the bolt through the link into the sway-bar. Install one of the small washers and a locknut on the bolt. Tighten both bolts on each side to 27 ft lbs.

6. Firmly tighten the jam nuts on the Racing Beat links.
7. Re-install the wheels. Lower the car.

Figure 2  
1990-97 Miata - Front & Rear

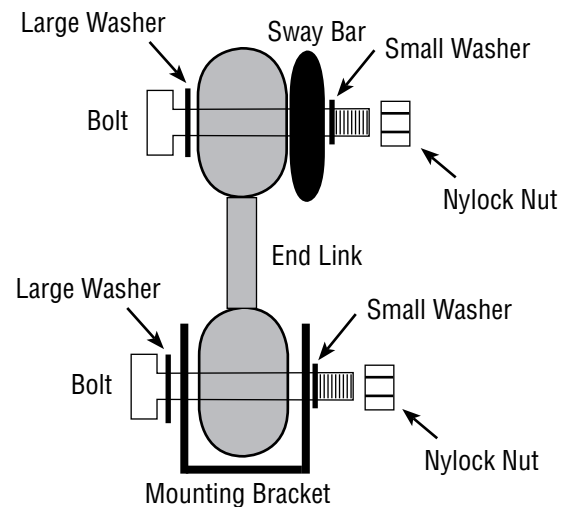
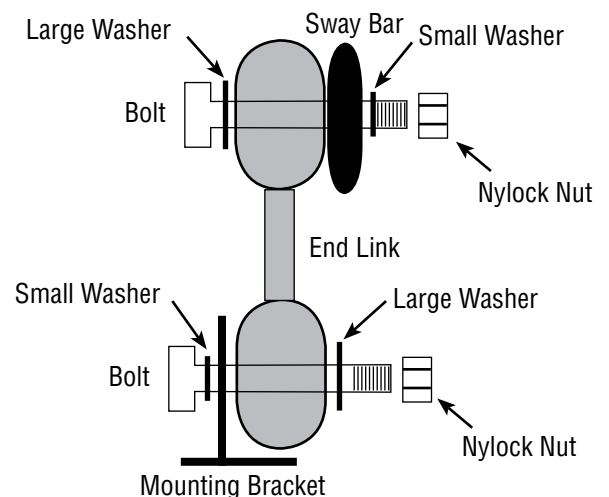


Figure 3  
1999-05 - Rear



### 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.

### 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.

Figure 1  
Link Assembly

