



Installation Bulletin		Anthony Woodford Racing Vista, CA
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Subject:	Miata Sway Bar Bracket Installation
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APPLICABLE MODELS

MAZDA MIATA 1990-1997 & 1999-2004

PRODUCT

Sway Bar Bracket Kit, part number 0000-04-5101-BK, 0000-04-5101-CD, 0000-04-5101-03, & 0000-04-5101-PS



History:

These front sway bar brackets were designed to replace the stock factory brackets that are susceptible to fracturing under extreme loads. This situation is aggravated when a larger front bar is installed.

This bracket is manufactured from steel, TIG welded and powder coated gloss black or gold cadmium and designed to accept the loads that the sway bar sends through it. These loads are then correctly transferred to the chassis as it was intended.

You may have found that you have already installed a larger front sway bar and did not accomplish the results that you intended to resolve. The reason behind this is that the factory brackets are inadequate at best and flex when suspension loads are sent through them. When a larger bar is installed, these loads are increased and the flex factor of the factory bracket is exaggerated. The brackets will fracture and you may even find that the frame has cracked around the bolt holes

INSTALLATION INSTRUCTIONS

STEP 1 – Jack up the car

Jack the front of the car up into the air and safely support it on jack stands. Remove the splash guard. Disconnect the sway bar from the factory brackets and let it hang down. It is not necessary to disconnect the end links.

STEP 2 – Remove Radiator

It is easier to access the inside bolts of the mounts with the radiator removed, especially if the factory spot welds still need to be drilled out. Some people have been able to remove the brackets without removing the radiator, but save your self the headache and remove the radiator. It is not difficult.

STEP 3 – Remove AC Condensor bolts

The brackets that support the AC Condensor cover the inboard bolts of the sway bar mounts. Remove the bolts that attach these brackets to the chassis. This will expose the inside bolts of the sway bar mount.

STEP 4 – Drill out spot welds

Each bracket is held in place by 4 bolts and 2 spot welds. The spot welds must be drilled out. You may find that the spot welds are already fractured. The spot welds are found between the two bolts on each side of the mount. Do not drill completely through the frame – just far enough to weaken the weld.

Take a cold chisel hammer and safety glasses and tap the spot weld from the back side to relieve it the rest of the way. If you have drilled through far enough, the weld will pop easily. If you have access to a roto-broach, then all the better. Once the bracket is removed, dress the remaining area on the chassis with a grinder to make it smooth again.

STEP 5 – Inspect area, begin installation

Inspect the area around the bolt holes to determine if the chassis may need a slight tack weld to repair any stress cracks. If so, now is the time to do it. If not, then proceed with bracket installation. You will find a bend in the leading edge of each bracket. These bent areas are installed to clear the AC brackets. These bent areas are to face forward and inward. You may need to tap the bracket with a rubber mallet to seat it firmly against the frame rail. Install the 4 bolts and tighten them to approximately 18 ft-lbs.

STEP 6 – Power Steering clearance. (if any)

The new bracket does not need to be spot welded. You may need to carefully bend the power steering lines around the bracket for clearance, or disconnect the power steering lines and pass them through the new bracket (0000-04-5101-PS) if so desired.

STEP 7 – Reconnect Sway Bar

Reconnect the front sway bar. Now may be a good time to replace the sway bar bushings or clean the old, lubricate and install.

STEP 8 – Reinstall parts

Reinstall the SC bracket, radiator and splash guard. Refill the radiator. Start the car, check for leaks. Remove car from jack stands.

STEP 9 – Road Test

Road test the car and enjoy!

FURTHER INFORMATION

If you have any questions regarding this unit or installation, please call AWR at 760-598-9782 or e-mail specific questions to awrracing@aol.com.

CONSUMER NOTICE: The information and instructions in this bulletin are intended to be helpful instructions for the knowledgeable mechanic. If you do not feel comfortable with these instructions, AWR recommends that you have items professionally installed by technicians utilizing the proper tools and equipment. AWR offers installation services for all items that we manufacture.