

# 1994-97 Miata High Flow Air Inlet Assembly

Part No. 56501

**If your Miata is not equipped with cruise control, start at Step 2.**

1. If your car is equipped with cruise control, loosen the retaining bolts and remove the cruise control actuator from the chassis. Disconnect the electrical connector and remove the chassis harness from the cruise control bracket. Do NOT remove the vacuum hose or the throttle cable connector from the actuator. See Photo 1.

2. Unbolt and remove the stock air filter box assembly completely from the chassis. (It is not necessary to unplug the electrical connector from the side of the air meter.) Separate the air meter from the air filter box by removing the two screws and gently pulling them apart. Also remove the plastic inlet duct from the brake master cylinder area. Replace the bolt that secured the end of the stock air inlet duct.

3. Remove the air filter support bracket from the flat "shelf" near the exhaust heat shield. See Photo 2.

4. Next, remove the small "body-colored" stud/bracket at the front of the shock tower brace (it was used to support the outboard side of the air filter box). See Photo 2.

**If your car is equipped with cruise control:**

A) Install one of the supplied "Z" shaped brackets using the bolt you removed in Step 4 at the same location. Lightly snug the bolt with the bracket extending upward and toward the driver's side of the vehicle at a 45 degree angle. See Photo 3.

B) Remove the gold colored bracket from the "cable" end of the cruise control actuator (do not touch the jam nuts on the cable housing - just remove the two nuts that hold the brackets to the actuator and maneuver the gold bracket out of position, then position the "U" bracket back in place. See Photo 4.

C) Now install the actuator outboard stud into the "Z" bracket and secure it and the "U" bracket with the two original nuts. See Photo 5. Note: You may need to slightly bend the "Z" bracket to position the cruise control actuator.

D) The bracket on the forward end of the actuator should be attached to the 6mm threaded hole on the flat shelf alongside the headlight actuator (if your car is equipped with power steering, remove the bolt that secures the rear end of the reservoir to this hole and slip the cruise control actuator bracket under the reservoir bracket, then reassemble). See Photo 6.

E) Tighten all four fasteners and re-connect the electrical harness.

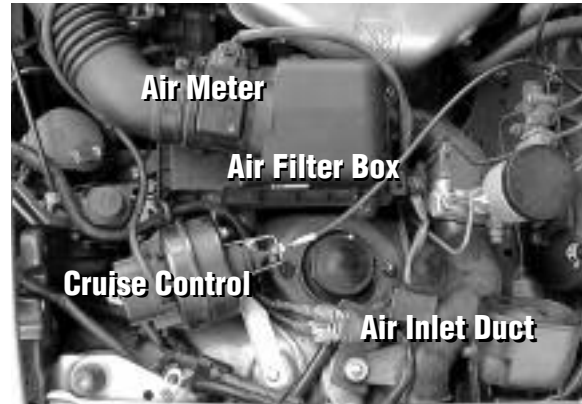


Photo 1

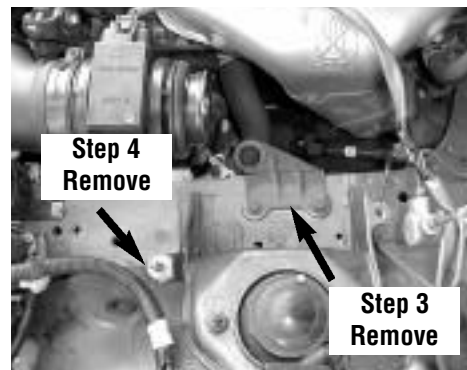


Photo 2

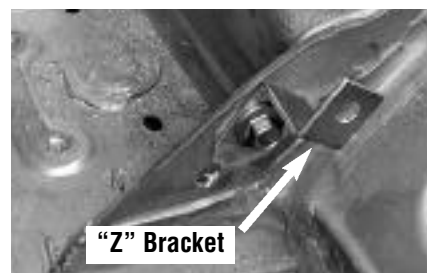


Photo 3 (Step 4A)

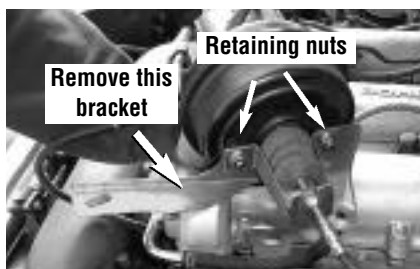


Photo 4 (Step 4B)

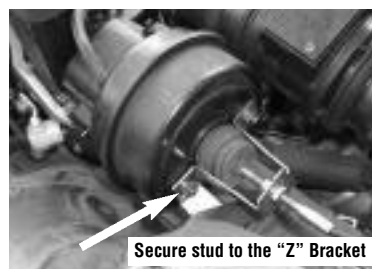


Photo 5 (Step 4C)

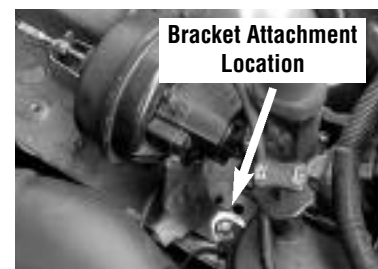


Photo 6 (Step 4D)

5. Install the air filter element onto the aluminum inlet duct and tighten the hose clamp. Install a “Z” bracket on the underside of the aluminum duct with one (1) of the short screws provided. See Photo 7. Note: If your Miata is not equipped with cruise control, there will be an additional “z” bracket that will not be used for this installation.

6. Attach the air meter to the aluminum duct using the flat, 5” steel strap supplied. Use the two original bolts to mount the strap to the air meter. Mount the duct to the strap by first placing one (1) short bolt (use one (1) lock washer) into the hole position on the aluminum duct which is closest to the air meter. Leave the second hole on the duct open for the moment. (See Photo 8 for the position of this strap.)

7. Hook the “Z” bracket installed in Step 5 over the shock mount stud (do not remove the existing nut), secure the bracket with one (1) 8mm nut provided. See Photo 8.

8. Orient the long steel support leg provided so that it extends down from the rearward hole at the air meter/aluminum duct joint and secure it with one (1) bolt and one (1) lock washer provided. Attach the lower end of the leg to the appropriate hole on the flat shelf. Tighten all hardware. See Photo 9.

9. Gently lower the hood while observing the clearance between the hood and air filter assembly (the forward end of the air filter element should aim down a bit). Bend the steel supports slightly if necessary.

#### Care Of the Air Filter:

Your Air Inlet Assembly has been equipped with a low restriction K&N air filter. If cared for properly, this air filter should last indefinitely. To care for your filter, obtain the K&N Recharger Kit to clean and re-oil your filter. This inexpensive kit contains everything you will need to clean and re-oil your filter.

Use these Racing Beat part numbers to order these accessories:

K&N Recharger Kit	Part No. 55019
K&N Replacement Filter	Part No. 56520

#### California Emission Equipped Vehicles:

##### Air Resources Board (CARB) Exemption Decal

This air intake has received an exemption from CARB for all 1994-97 California emissions-equipped Miatas. During a vehicle “smog check”, this exemption decal will be of interest to the testing technician.

Place the provided decal in a prominent area in the engine compartment of the Miata. We suggest either under the hood (next to the factory emissions decal) or in a visible area next to the intake.



Photo 7

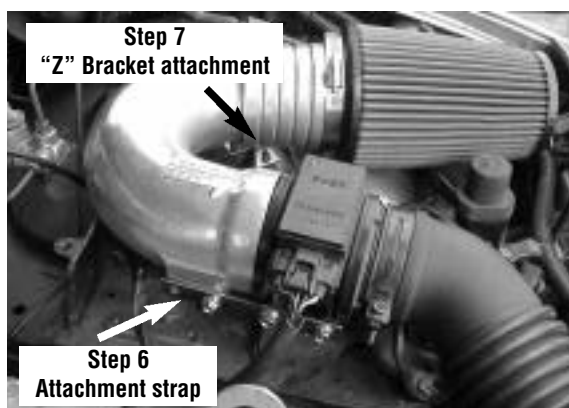


Photo 8



Photo 9

If during the installation of this product you are experiencing difficulties or have a technical question, contact Racing Beat for further assistance.

## California Air Resources Board (CARB) Emission Exemption Decal

Sections 27156 and 38391 of the California Vehicle Code charge the Air Resources Board (ARB) with the responsibility of ensuring that aftermarket parts used on emission-controlled motor vehicles do not have an adverse impact on the vehicle's emissions. To ensure that these parts do not have an adverse impact on emissions, the ARB has developed a program to test and evaluate "add-on" or "modified parts". By meeting the requirements of this program, a manufacturer can receive an exemption from the prohibition(s) of Sections 27156 and 38391, thereby allowing the sale and use of such exempted parts in California.

The supplied decal applies to a specific Racing Beat product that has successfully passed the emission testing program. The Executive Order number that is indicated on this decal applies **ONLY** to the specific part that subjected to emission testing.

The supplied decal is required to aid in passing the California Smog Check program. This decal must be displayed in **one** of the following ways:

- 1) This decal should be placed in an area in close proximity to the Racing Beat part in a location that is visible to a smog check technician.
- 2) This decal should be placed on the Racing Beat part in a location that is visible to a smog check technician.
- 3) This decal should be placed under the vehicle's hood, next to the manufacturer's emission decal.



CARB EO D-450-1