

Cold Air Duct

(for use with the Racing Beat High Flow Intake Assembly, Part No. 56502)

For installation of this Duct with the High Flow Intake Assembly Kit,
refer to the High Flow Kit instructions (I-56502)

OR

To install this Cold Air Duct with a previously installed High Flow Assembly Kit, follow these steps:

Read these instructions thoroughly before beginning the installation. **These instructions assume that you have already installed the Racing Beat High Flow Intake Assembly onto your car.**

Shock Tower Brace:

If your car is also equipped with the Racing Beat Mounting Bracket for the Mazda shock tower brace, begin with these steps:

1999-00- Remove the two (2) nuts that secure the top of the shock assembly to the driver's side shock tower. Loosen the bolt that retains the bracket to the cross brace

2001-05 Remove the two (2) nuts that secure the top of the shock assembly to the driver's side shock tower. Loosen the two (2) bolts that retain the bracket to the cross brace.



Figure 1



Figure 2



Figure 3

1. Removal- Loosen the hose clamp and disconnect the plastic hose from the outlet of the air meter. Loosen the hose clamp from the filter element and remove the filter from the duct. Remove the electrical relays from the RB intake support bracket. Remove the two (2) bolts that secure the RB intake support bracket to the chassis. Remove the retaining nut from the forward shock mount. Unplug the air meter electrical connector and air temperature sensor (and wire) from the duct assembly , then remove the duct assembly from the chassis. Loosen the 6mm bolt that attaches the oblong bracket to the underside of the duct.

ABS equipped cars: Locate the ABS sensor wire that extends through a chassis-mounted rubber grommet located under the junction of the filter element and RB aluminum duct . Follow this wire inside the engine compartment to the electrical connector, and unplug this connector. Position the end of this connector towards the rear of the car, and temporarily tape it into place. (This will keep the connector out of the way during the installation of the carbon fiber duct.)

2. Electrical Relay Positioning- Using the 2.5" long oblong bracket supplied with the Duct Kit, mount the relays together back-to-back to either end of the oblong bracket using one of the nuts and bolts that originally attached the relays to the car. (See Figure 1) Attach the relays to the inner fender wall as shown in Figure 2 using the short bolt that attached the electrical relays in Step 1. Note: If you have additional relays, use the supplied tie wraps to secure them to the wire bundle.

3. Assembly- Slip the "narrow width" hose clamp supplied with this Cold Air Duct Kit over the inlet end of the aluminum duct. Refer to Figure 3 and position the air filter inside the carbon fiber duct as shown and push the filter onto the inlet of the aluminum duct. (Make certain that the air filter is seated in the recess on the inlet end of the duct.) Slide this new "narrow width" hose clamp into place against the carbon fiber duct, and tighten.

If your car is NOT equipped with ABS, place the small rubber grommet into the opening on the side of the carbon fiber intake duct to seal the hole.

4. Installation- Place the complete duct assembly into the chassis while hooking the oblong bracket over the forward shock mount stud. Position the fan wire bundle underneath the recess located in the forward lower edge of the cold air duct. (Use this recess to route any other accessory wires that would otherwise become "pinched" under the duct. Secure wires using the supplied tie wraps.)

ABS equipped cars: Do not route the ABS wire under the duct. This wire will be routed through the opening in the side of the duct at a later step.

Secure the cold air duct to the chassis using the two (2) supplied bolts. Tighten the two original intake support bracket bolts to secure the RB intake support bracket to the chassis (72 in/lbs).

5. Reattach the plastic intake hose, removed in Step 1, to the outlet of the air meter, and tighten. Route the air temperature sensor wire as shown in Figure 4, and re-insert the sensor into the duct. Reconnect the electrical connector to the air meter. Tighten the bolt that attaches the oblong bracket to the underside of the duct. Tighten the forward retaining nut on the shock tower to 22-26 ft/lbs.

ABS equipped cars: Route the connector end of the ABS wire through the opening in the side of the duct. Place the small rubber grommet over the wire, and insert the grommet in the opening in the carbon fiber duct. See Figure 5. Connect the ends of the ABS electrical connectors in the area shown in Figure 6.

Shock Tower Brace:

1999-00: Tighten the shock mount nuts (22-26 ft/lbs), the cross brace-to-mounting bracket bolt & nut (28 ft/lbs).

2001-05: Tighten the shock mount nuts (22-26 ft/lbs), shock tower brace bolts (15-17 ft/lbs).

5. Gently latch the hood of the car. If the hood appears to be "raised" in the area between the fender and headlight, raise the hood and adjust the hood "stop". (See Figure 7A & 7B) Adjust the stop by rotating it clockwise, which lowers the hood accordingly.

This completes the installation of this intake kit. Retain these instructions for later reference when removing the air filter element for cleaning.

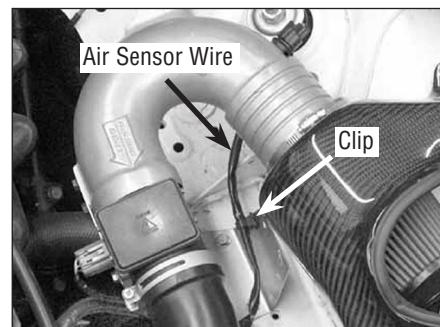


Figure 4



Figure 5

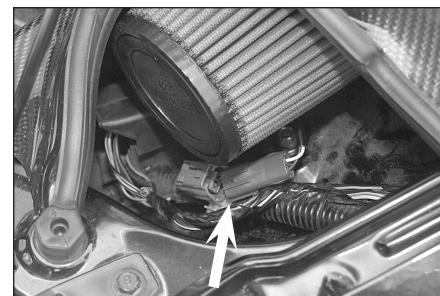


Figure 6

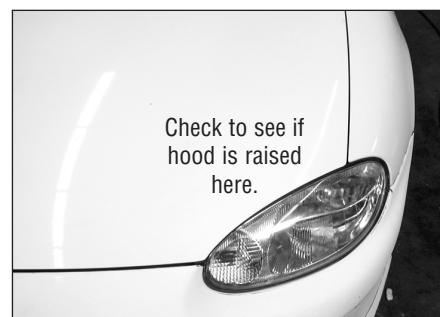


Figure 7A



Figure 7B

California Air Resources Board (CARB)

Emission Exemption Decal

1999-2005 High Flow Intake and/or Carbon Fiber Duct

EO # D-450-6

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 the **1999-2005 Racing Beat High Flow Intake** and/or **Carbon Fiber Intake Duct**, which has successfully passed the emission testing program. The Executive Order number that is indicated on this decal applies ONLY to the specific model years that were 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-450-6