



Installation instructions for your new PowerAdder modular air intake system:

<p>1. Remove stock intake tube, filter box and mounting bracket. Also remove the plastic panel with the two relays attached. You will need to remove the two relays from the panel first.</p>	<p><i>Use needle nose pliers to squeeze catches holding wiring to outside of air box. And unplug both connectors.</i></p>
<p>2. Find a location for the relays – for instance you can zip-tie them to the support bracket in the fender.</p> <p><i>You could just stuff them into an open space, but you really need to position them so that no water can collect in the connector area.</i></p>	
<p>3. Piece together the components of your new intake; starting on the left with the 90 degree elbow, then the 6 inch straight piece, then the 4 inch straight piece, then one of the 60 degree elbows.</p> <p><i>Tip: apply a thin film of oil or grease to the O-rings between each component to help hold them in place until you can get the clamp in place.</i></p>	<p><i>Don't tighten these parts in place yet, just fit them together so you can see how everything fits.</i></p>
<p>4. To connect the 90 degree elbow to the intake port use a # 875X Reducing coupler.</p>	

5. Now mark the location of the vacuum line so you know where to drill the hole in the 6-inch straight section. Drill using the hole saw provided in the Vacuum/Sensor adapter kit. Pick an appropriate sized grommet and plastic nipple that will mate with the rubber vacuum line.



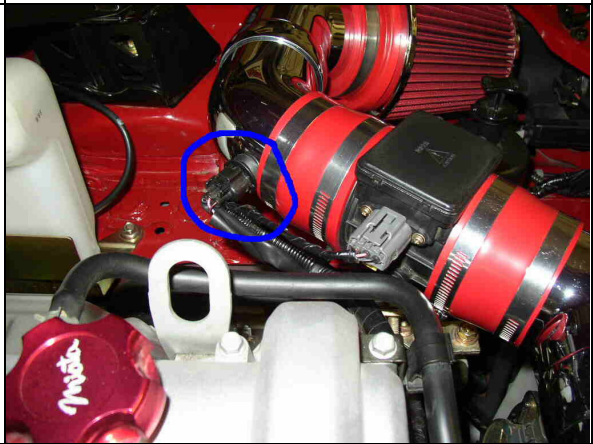
6. Next remove the mass airflow sensor from the stock assembly and connect it to the 60 degree elbow. Connect it with # 877X Couplers on each end.

Note: pay attention to the arrow on the side indicating direction of airflow.

7. To the right is the next 60-degree elbow, then another 60-degree elbow.

8. Next you need to decide where you will locate the other sensor that you removed from the stock intake. It can go anywhere between the air filter and the mass air flow sensor. Pay attention to how much wire you have available (should be plenty to enable placing anywhere).

The photo at right shows an example of where it *might* be located.



9. Drill a 13/16" diameter hole; insert the grommet from the stock system and the sensor into the grommet.

10. Install the 813X filter.

11. Lastly install the support bracket between the last two 60 degree elbows, and insert one of the 6mm bolts left over from the stock intake through the bottom bracket into the captive nut in the flat area below. You may want to drill an additional 1/4" hole in the bracket to more accurately locate it in relation to the intake.

You will likely want to do some final twisting of various couplers to get everything lined-up the way you want it. Then check to be sure all clamps are snug. But **DO NOT over tighten!**



That's it you're done! Now go check-out the new power you've just added to your Miata. Mine gained at least another couple of (seat-of-the-pants) horsepower. And it makes it *sound* really cool.