

## Software:

The AIC1 is programmed with the R4 Fuel Controller Software. When the software is launched an identification screen will appear that says Split Second. After four seconds, the main menu will appear. If this is a new application, select **File** then **New Customer** to create a new customer. Type in the customer name and save. The default location for customer names is My Documents. When you return to the main screen, select **File** and **Open Customer** to open the customer file that you just created. Once the customer is open, the **Maps**, **View**, **Options** and **Help** tabs become active. Whenever you write new data to the AIC1, all settings and mapping will automatically be saved under the current customer name. You can fill in the various fields such as name, address etc. if you like.

## Connections:

Select the proper com port for the serial connector on your computer. Remove the lid on the AIC1. Connect the AIC1 to the computer using a 9-pin serial cable. The cable must have a male plug on one end and a female on the other. Once the serial cable is plugged in and the AIC1 is powered up, you may connect to the AIC1 by selecting the **Connect to ECU** icon. Once communication has been established with the ECU, the **Real Time** pull down becomes active.

There are two map tables that can be used. Table A drives the injectors controlled by the Tan wires. These injectors can be either low or high impedance. Table B drives the injectors controlled by the Tan/Black wires. These can only be high impedance.

## Programming:

Use the **Options** pull down and **Engine Settings** to select the number of cylinders of the engine. Use **Options** and **System Settings** to select Additional Injector Controller and the correct pressure reading. If you have a gauge pressure sensor, select gauge pressure. If you have an absolute sensor, select either absolute pressure or vacuum/pressure.

Use the **Maps** pull down to access the fuel map tables. The numbers entered into the cells on the map represent the injector on time in milliseconds. Whenever a cell is highlighted, the injector pulse width is shown in the upper left hand corner of the table.

You can click and drag to highlight an area of cells. Once highlighted, you can use the icons across the top of the window to fill all the selected cells with a value. For example, if you fill the selected cells with the value 10, whenever the manifold pressure and RPM match one of those cell locations, the injectors will be pulsed for 10 milliseconds.

A highlighted area of cells can also be changed by a percentage by using the **Change By** button. To increase a highlighted area of cells by 10 percent for example, select the cells, click on the **Change By** button and enter 10. To reduce by 50 percent, enter -50.