

How to Program Your ComAidSystem

What You Need

- The programming module (has five long colored wires sticking out one end and a serial port on the other end),
- the Serial-to-USB adapter if your computer does not have a serial port,
- and of course, the system box.

Procedure

1. Turn on your computer if it is not already on. Make sure it is connected to the internet for a later driver download.
2. Unscrew and open the system box.
3. Take the five colored wires from the programming module and connect them as follows:
 1. Connect the **black** wire to anywhere on the ground row **Y** (the row closest to you).
 2. Connect the **red** wire to anywhere on the power row **X** (the back row).
 3. Connect the **yellow** wire to the microcontroller's **2** pin. This means connecting the wire to **Row G,H,I or J of Column 2**.
 4. Connect the **green** wire to the microcontroller's **3** pin. This means connecting the wire to **Row G,H,I or J of Column 3**.
 5. The fifth wire is not used.
4. Connect the USB or serial connector to your computer.
5. With the power switches facing towards you, turn the black switch in the center of the breadboard **to the left**.
6. Turn on the power to the box (note that you will need a functioning battery unless you are doing this in a car). The LCD screen should show eight solid blocks followed by all blanks. This indicates that you are in programming mode.
7. If your computer does not already have a driver installed for the programming module, it should be installing one now. After the installation is complete, go to your computer's Device Manager and find the ,..... COM port ... " ". This is the COM port of your USB/serial connection. You will need this in order to program.
8. Compile your program with make (as described in the makefile documentation).
9. Once compilation and downloading is complete, turn the power to the system off (you do not need to unplug the programmer).
10. Turn the switch on the breadboard **to the right**.
11. All done!