2.2 Unpacking your DIY kit

When opening the box, you've already found this manual. Below the manual are a few plastic bags, and a tube. One bag contains the mechanical components: plugs, sockets, push-buttons, and power connector. The second bag contains all discrete electronic components: resistors, capacitors, diodes, transistors, etc. A third bag contains the displays and the micro controller. There is also a plastic tube, containing the ICs (Integrated Circuits). **Do not unpack the ICs until you are told to do so**. Please note that ICs are sensitive to static discharge. Always handle these devices with care and ensure to discharge yourself, e.g. by touching the metal of the central heating, prior to handling them.

At the bottom of the box is the PCB. Be careful when handling it. Although it is a professional quality double sided board, you may easily damage the tracks on it. Finally, you'll find the certificate, containing your serial number, either below the PCB or at the back of this manual.

Now take the components out of the plastic bags and place them on the table before you. Before we start building the main PCB, we would like you to identify each component first. This way you may avoid to mount the wrong component in the wrong place. As it's difficult to remove the components once they are soldered, you **must** do it right first time.

Your kit should contain the following:

1 Manual (this document)
2 PCB (printed circuit board)
3 Certificate containing your serial number
4 Lamp film
5 Circuit diagram (A3 size sheet, double sided)
6 Component refs and values (A3 size sheet, double sided)
7 Plastic bag containing mechanical parts
8 Plastic bag containing electronic components
9 Protective bag containing displays, micro processor, IC socket and resistor pack
10 Plastic tube containing 12 ICs
11 Two pieces of wire

On the following pages, each component is listed in a table. To the left of each box is an image that will help you to identify the component. The centre part of each box gives a description of the component and the identification number(s) used on the PCB. At the right hand side are three boxes. The topmost one shows how many pieces of this component you should have received. The other two boxes are for your own use. Please tick the middle box when the items have been located and counted. The lower box should be ticked once these components have been fitted.