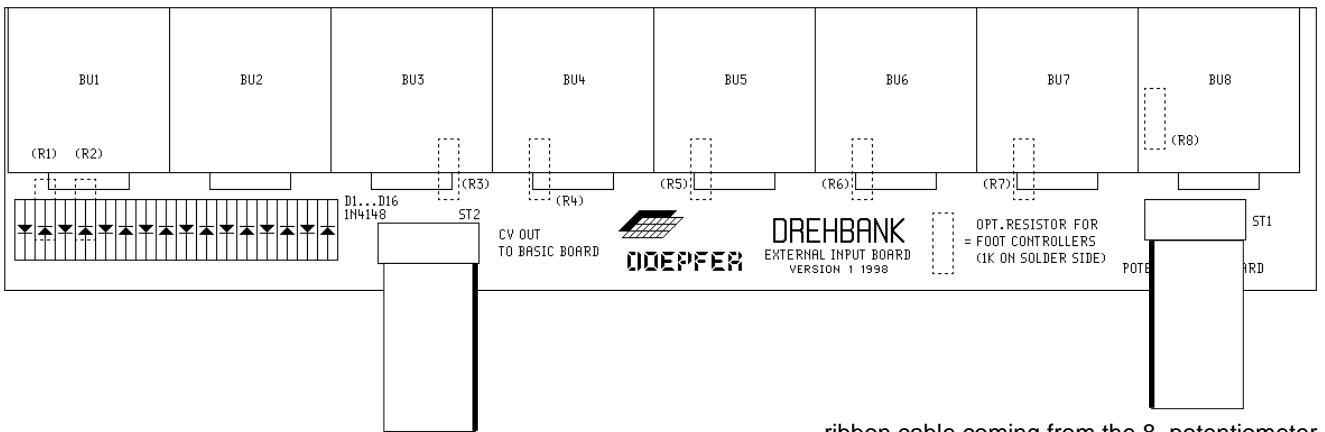


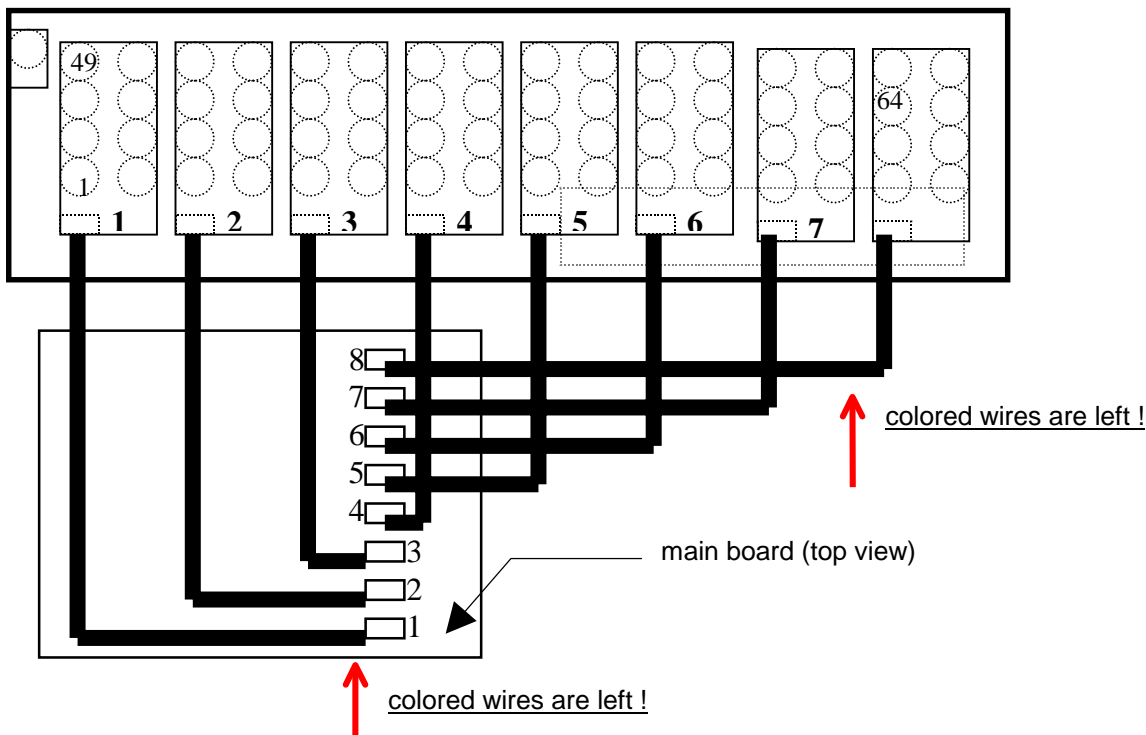
DREHBANK: Installing the CV option

- Disconnect the DREHBANK power supply
- Open the case by removing the 6 sheet screws with a suitable cross-slotted screwdriver (2 at the bottom, 2 at each side)
- Remove the top very carefully. Pay attention that none of the 10 pin ribbon cables connected to the main board (located at the bottom) is disconnected. Pay attention not to scratch the surface of the case.
- Remove the 10 pin ribbon cable leading from the most right potentiometer board to the main board. This is the uppermost pin header on the main board, i.e. no 8 in the sketch below. Connect this ribbon cable to the pin header labelled "CV IN FROM POTENTIOMETER BOARD" of the CV board. Pay attention to the correct polarity of the red (or other color) wire of the ribbon cable. If the polarity is wrong this may destroy the electronics.
- One end of the 10 pin ribbon cable delivered together with the CV board is connected to the pin header labelled "CV OUT TO BASIC BOARD" on the CV board. The other end is connected to pin header no 8 on the main board that has become free (see above). Pay attention to the correct polarity of the red (or other color) wire of the ribbon cable. If the polarity is wrong this may destroy the electronics.
- Remove the 8 plastic caps at the rear of DREHBANK and screw the CV board into the 8 holes with the nuts of the ¼" jack sockets.
- Carefully arrange all ribbon cables inside the DREHBANK so that they go away to the right from the main board and that that the cable bundles are not too big. Otherwise the case cannot be closed or the main board is bended too much and may break.
- Close the case by putting the top carefully to the bottom (reverse sequence as opening) and screw both parts together with the 6 sheet screws . Pay attention not to squeeze one of the cables or to hurt them with the screws.

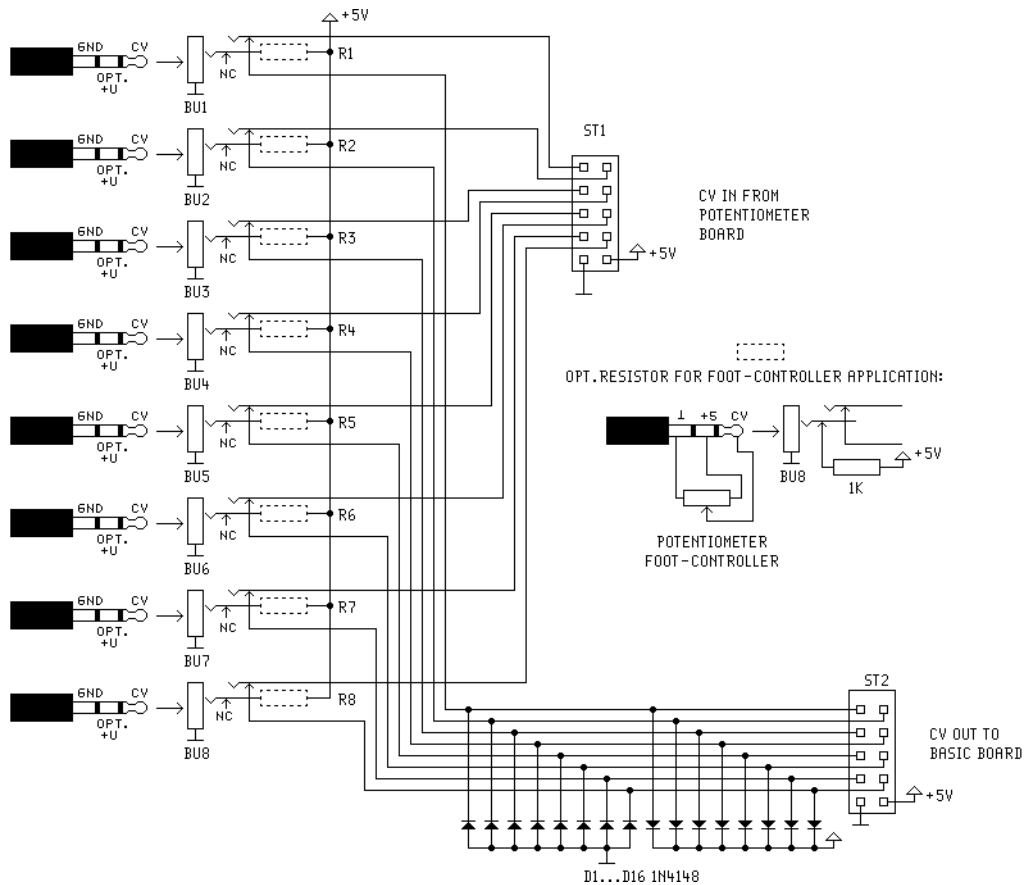


ribbon cable leading to the main board (colored wire is right !)

ribbon cable coming from the 8. potentiometer board (colored wire is left !)



Schematics External CV Board



Changing the CV inputs to foot controller resp. control voltage mode

On the silk screen of the CV board 8 resistors (R1...R8) are drawn with broken line. These resistors determine if the corresponding input is a control voltage input (resistor removed) or a foot controller input (resistor assembled). In the sketch below these resistors are encircled.

- If the resistor (about 1k) *assembled* the corresponding input is used for **foot controllers**. The resistor connects one of the middle pin of the jack sockets to +5V so that the potentiometer inside the foot controller is able to generate a variable voltage appearing at the tip of the jack socket.
- If the resistor is *removed* the corresponding input is used as **control voltage input**. There is no connection to +5V of the middle pin of the jack sockets to +5V as the external CV source generates a voltage (typ. 0...+5V) by itself, e.g. a A-100 module.

The resistors have to be soldered at the underside of the pc board. The value range is about 470 Ohm ... 2k2.

