

This board allows you to connect two or more parallel Centronics type printers to one computer. It is designed to be used with my PBUFF printer buffer board and BP10 (back panel input/output) board. It uses the standard PBUFF bus system as detailed in my BP10 advertising. This board is designated P2C1 (Printers 2, Computer 1). A DB25 female connector is soldered to the edge of the P2C1 board and used for mounting to the rear panel. A small cutaway is required in the rear panel, so that this board can be mounted component side up, and as near as possible to the bottom right hand side of the rear panel. (Looking from the rear.)

Two by 26 pin dual row male headers are soldered into the board at positions J1 and J2. J1 is used to connect this board to your PBUFF, Serial, or computer switch. J2 is used to jumper to your BP10 board, or other printer switches.

The overlay of the board, and component values are shown below, and I feel that this board is that simple, you should be able to assemble it in 10-15 minutes without any further constructional information.

The PBUFF board supplies the +5 Volt power for this board.

P2C1 outputs to either printer A, or printer B. Printer B appears on pins 1 to 13 of J2. Printer A appears at the DB25F connector. A standard IBM PC type printer cable is used to connect this new printer output to your second printer.

Printer B is the default printer selected. To select printer A, short out pads A and B. Pad A is a ground, so by grounding pad B, printer A is selected. By using this method, multiple boards can be daisy chained together, one board for every extra printer needed. A rotary switch can be used to ground the B pad on the selected board. With no ground switched, the BP10 board becomes the selected printer.

In combination with the serial board, the P2C1 board gives you the following configurations:-

Serial in to one serial, and one parallel printer.
 Serial in to two parallel printers.
 Parallel in to one serial, and one parallel printer.

On the DB25 connector pins 1 to 11 are the standard Centronics type signals and these pin numbers line up with Centronics numbers, as well as PBUFF pin numbers. Pins 12 to 17 are not connected on the DB25 socket and pins 18 to 25 are grounded.

If for any reason you need to use the 12 to 17 connections, you will need to know the standard IBM pinout for 12 to 17 so that things like printer init can be jumpered between DB25 connectors. (IE:- Perhaps you need to reset all printers together) DB25 pins 12, 13 and 14 are the same as Centronics 12, 13 and 14.

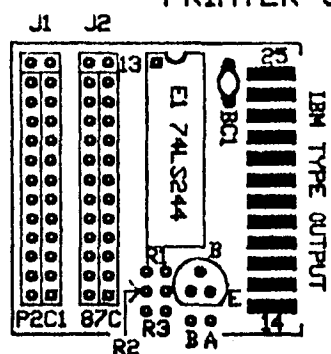
DB25/15 = Centronics 32 (ERROR), DB25/16 = Centronics 31 (INIT), and DB25/17 = Centronics 36. (SELECT INPUT.)

A stand alone printer switch can be built as follows:- Build up a BP10 and a P2C1 board and mount them into a case. Connect them together with approx. eight inches of 26 wire flat ribbon cable that has a female IDC header crimped onto each end. This header connects to J2 on the P2C1 end. Instead of connecting a PBUFF to J1, jumper the following pins of J1 together.

1 to 14, 2 to 15, 3 to 16, etc, right up to 11 to 24. This connects the PBUFF bus straight through without a buffer. A low current source of +5 volts is all that is needed to power this setup. Your existing Centronics printer cable connects to the input of the BP10 board, and two new IBM type cables are used for the 2 printers.

The "P2C1 SHORT FORM KIT" CONSISTS OF :- One bare double sided plated through printed circuit board, and this sheet of paper. You provide all other parts and labour. Check my ORDER FORM for current prices.

PRINTER SWITCH P2C1 PRO



J1 STANDARD PBUFF BUS

J2 PINS 14 TO 25
 PBUFF INPUT

J2 PINS 1 TO 13
 PRINTER B

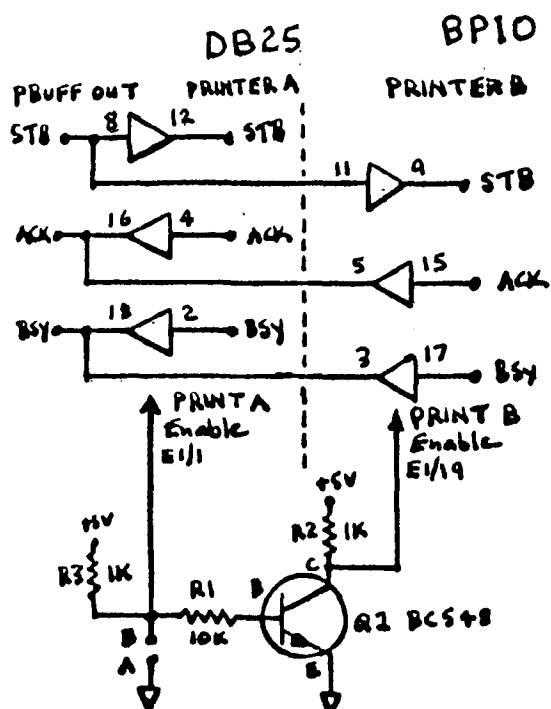
DB25F PRINTER A

R1 10K

R2 1K

R3 1K

BC1 .01uF Ceramic
 TRANSISTOR BC548



DON'S GOOF, YOUR GAIN !!!!!

Just had 100 of these boards produced and found mistakes in the artwork, however they are easily fixed. Because they aren't 100% correct, I have made them available at 33% off the normal retail price. (Fixing Instructions included.)
 QUOTE Cat ID. P2C1PRO (PRO for prototype)
 Just \$8.00 until stocks run out.