This page shows my home-brew BPROM programmer, constructed free-form on a bit of patchboard. The circuit itself is quite simple, using some leds to show the status of the BPROM outputs, and dip switches to enter the data and set the address lines.

A dual lab PSU providing +5V and +11V with 220mA was used to power the device, when the power switch (upper middle of the board) is set to +5V, then you can read the BPROM, when the switch is set to +11V you can program the device by pressing the ´prog´ button. Beforehand set your data and address lines, and then double check them, any mistakes cannot be rectified. Pressing the ´prog´ button for about 1 second seems to suffice.The ´disp´ switch enables or disables the led display.

This push-button delivers the programming pulse.

This switch selects +5V (VCC) for reading or +11V (VCC Prog) for programming.

Prog. SW5

VCC Prog (11V,220mA)

VCC

SW4

Switch

R21 1K5
R20 1K5
R19 1K5
R18 1K5
R17 1K5
R16 1K5
R15 1K5
R14 1K5

The data lines are set up with this DIP switch, I.e.: the bit pattern to be programed.

GND

SW1

1		16
2		15
3		14
4		13
5		12
6		11
7		10
8		9

SW DIP-8

R1 330R   U1   LED
R2 330R   U2   LED
R3 330R   U3   LED
R4 330R   U4   LED
R5 330R   U5   LED
R6 330R   U6   LED
R7 330R   U7   LED
R8 330R   U8   LED

IC1

2	A0	B0	18
3	A1	B1	17
4	A2	B2	16
5	A3	B3	15
6	A4	B4	14
7	A5	B5	13
8	A6	B6	12
9	A7	B7	11

19 Ē
1   DIR

74LS245

R9 3330R
R10 3330R
R11 3330R
R12 3330R
R13 3330R

VCC

IC2

16		VCC		
10	A0		Q1	1
11	A1		Q2	2
12	A2		Q3	3
13	A3		Q4	4
14	A4		Q5	5
			Q6	6
15	Ē		Q7	7
		GND	Q8	9

8

74s188

SW2

1		16
2		15
3		14
4		13
5		12
6		11
7		10
8		9

SW DIP-8

The address lines are set using this DIP switch.

SW3 Display

GND