

BASIC PARTS FOR THE PRINTED CIRCUIT BOARD

To prevent assembly mistakes, lay the parts on this sheet and hold them in position with a bit of tape. Doing this will ensure that you have all of the parts, and will eliminate most errors in assembling the PC board. The 3-digit capacitor markings give the value with the first 2 digits, and the number of added zeros for picofarads with the 3rd digit. 273=27000pf. Move the decimal point 6 places to the left for microfarads, .027uf. The 5% resistors have 4 color bands with the last one gold.

Printed Circuit Board	C2, 1uf 50V, (marked 105, brown color)
C3, 330pf ceramic, (marked 331, blue color)	C4, 1uf 35V (or 16V) tantalum, (marked + & 1u0)
C5, 47pf 50V, (marked 47)	C6, 0.1uf 50V, (marked 104)
C7, 0.22uf (marked 224, brown color)	
D1-3,5,7-14, 1N914 or 1N4148, (may be marked 4148, all have a band) (12)	D4, 1N4001 power diode (marked 1N40xx plus a band)
R1, 330 Ohms, (orange, orange, brown, gold)	R2,3,9, 100k Ohms (brown, black, yellow, gold) (3)
R5,7,10k Ohms, (brown, black, orange, gold) or for 1%, (brown, black, black, red, brown) (2)	R6,12,14, 1megohm, (brown, black, green, gold) (3)
R8, 47 Ohms, (yellow, violet, black, gold) or for 1% (yellow, violet, black, gold, brown)	R10, 82k Ohms, (gray, red, orange, gold)
R11, 150k Ohms, (brown, green, yellow, gold)	R13, 1000 Ohms, (brown, black, red, gold)
DIP socket, 8 pins, Align notch as shown. Pin 1 is left of the notch.	U1: LF412 (preferred) or LF353, DIP-8 package