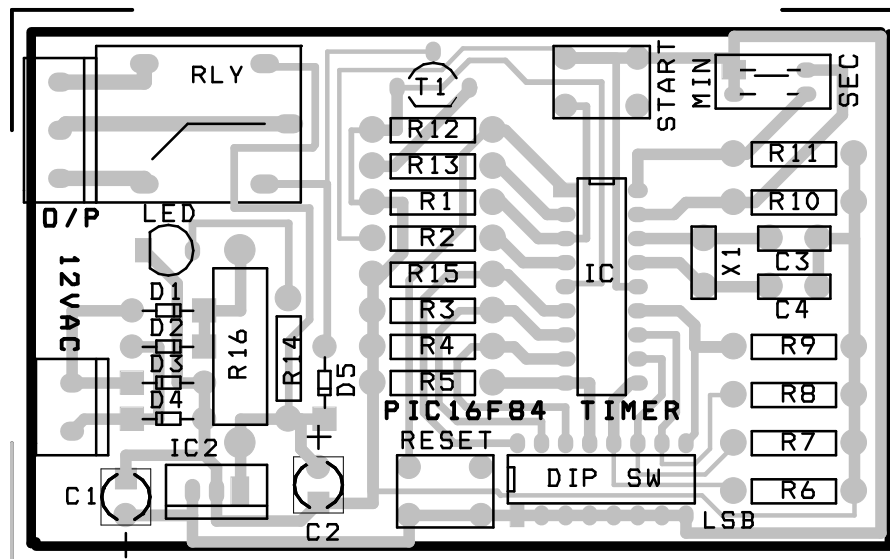
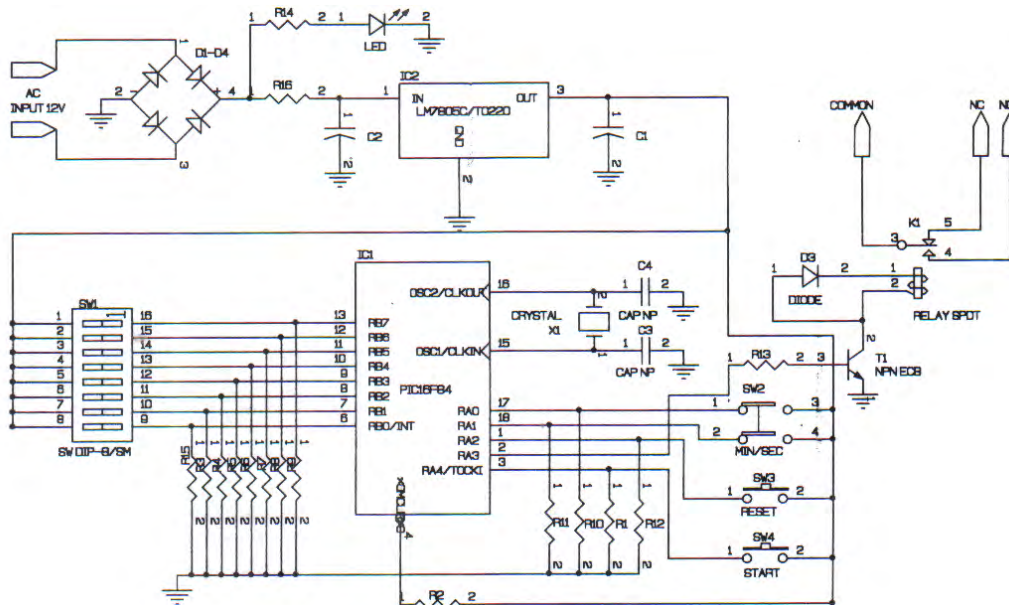


PIC16F84 TIMER

GE 175



Bill of Materials

* R1-R15 : 10 KOhm (BROWN-BLACK-ORANGE)	* IC1 : PIC 16F84 (MICRO-CONTROLLER)
* R3-->R12 : 10 KOhm (BROWN-BLACK-ORANGE)	* IC2 : LM 7805 (REGULATOR)
* R2-R14 : 1 KOhm (BROWN-BLACK-RED)	* IC SUPPORT (18 PINS)
* R13 : 4.7 KOhm (YELLOW-VIOLET-RED)	* LD1 : LED 5mm (RED)
* R16 : 22 Ohm (RED-RED-BLACK)	* RYL : 12V DC RELAY
* C1 : 10uF/16V (ELECTROLYTIC CAPACITOR)	* SW1 : DIP SWITCH (8SW)
* C2 : 220uF/25V (ELECTROLYTIC CAPACITOR)	* SW2 : NINI SWITCH (2 STATES)
* C3-C4 : 22pF/50V (NONPOLAR CAPACITOR)	* SW3-SW4: TACT SWITCHES (4 PINS)
* D1-->D5 : 1N4004 (DIODE)	* 2 SCREW JUNCTION
* T1 : C945 (NPN TRANSISTORS)	* 3 SCREW JUNCTION
* X1 : 4MHZ (CRYSTAL)	

S1	S2	S3	S4	S5	S6	S7	S8	S/M	S1	S2	S3	S4	S5	S6	S7	S8	S/M	S1	S2	S3	S4	S5	S6	S7	S8	S/M	S1	S2	S3	S4	S5	S6	S7	S8	S/M	S1	S2	S3	S4	S5	S6	S7	S8	S/M	
0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	51	0	1	1	0	0	1	1	0	102	1	0	0	1	1	0	0	1	153	1	1	0	0	1	1	0	0	204
0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	1	0	0	52	0	1	1	0	0	1	1	1	103	1	0	0	1	1	0	1	0	154	1	1	0	0	1	1	0	1	205
0	0	0	0	0	0	0	1	0	2	0	0	1	1	0	1	0	1	53	0	1	1	0	1	0	0	0	104	1	0	0	1	1	0	1	1	155	1	1	0	0	1	1	1	0	206
0	0	0	0	0	0	0	1	1	3	0	0	1	1	0	1	1	0	54	0	1	1	0	1	0	0	1	105	1	0	0	1	1	1	0	0	156	1	1	0	0	1	1	1	1	207
0	0	0	0	0	1	0	0	0	4	0	0	1	1	0	1	1	1	55	0	1	1	0	1	0	1	0	106	1	0	0	1	1	1	0	1	157	1	1	0	1	0	0	0	0	208
0	0	0	0	0	1	0	1	0	5	0	0	1	1	1	0	0	0	56	0	1	1	0	1	0	1	1	107	1	0	0	1	1	1	1	0	158	1	1	0	1	0	0	0	1	209
0	0	0	0	0	1	1	0	0	6	0	0	1	1	1	0	0	1	57	0	1	1	0	1	1	0	0	108	1	0	0	1	1	1	1	1	159	1	1	0	1	0	0	1	0	210
0	0	0	0	0	1	1	1	0	7	0	0	1	1	1	0	1	0	58	0	1	1	0	1	1	0	1	109	1	0	1	0	0	0	0	0	160	1	1	0	1	0	0	1	1	211
0	0	0	0	1	0	0	0	0	8	0	0	1	1	1	0	1	1	59	0	1	1	0	1	1	1	0	110	1	0	1	0	0	0	0	0	161	1	1	0	1	0	1	0	0	212
0	0	0	0	1	0	0	1	0	9	0	0	1	1	1	1	0	0	60	0	1	1	0	1	1	1	1	111	1	0	1	0	0	0	1	0	162	1	1	0	1	0	1	0	1	213
0	0	0	0	1	0	1	0	0	10	0	0	1	1	1	1	0	1	61	0	1	1	1	0	0	0	0	112	1	0	1	0	0	0	1	1	163	1	1	0	1	0	1	1	0	214
0	0	0	0	1	0	1	1	1	11	0	0	1	1	1	1	1	0	62	0	1	1	1	0	0	0	1	113	1	0	1	0	0	1	0	0	164	1	1	0	1	0	1	1	1	215
0	0	0	0	1	1	0	0	0	12	0	0	1	1	1	1	1	1	63	0	1	1	1	0	0	1	0	114	1	0	1	0	0	1	0	1	165	1	1	0	1	1	0	0	0	216
0	0	0	0	1	1	0	1	0	13	0	1	0	0																																

1MIN=60SEC ***** 1HOUR=60MIN ***** 255SEC=4MIN+25SEC ***** 255MIN=4HOURS+25MIN