

Item	Qty	Ref	Value	Descr.	Source
1	6	C3,C13,C14,C15,C16,C17	0.1uF (100n)	Ceramic cap (.1sp)	Any
2	2	C2,C20	0.1uF (100n)	Polyester cap (.1/.2sp)	Any
3	4	C8,C9,C10,C11	33pF (33p)	Ceramic cap (.1sp)	Any
4	1	C21	.001uF (1n)	Polyester cap (.1/.2sp)	Any
5					
6	1	C12	33uF/25V	Electrolytic cap	Any
7	4	C4,C5,C6,C7	1uF/25V	Electrolytic cap	Any
8	1	C23	not used		
9	1	D1	1N4148 (alt 1N914)	Small Signal Diode	Any
10	3	D2,D3,D4	1N4006 (alt 4001-4007)	Rectifier Diode	Any
11	5	LED1,LED2,LED3,LED4,LED5		LED	Any
12	1	J1		2.1mm Power Jack	Digikey (PJ-002AH)
13	7	J2,J3,J4,J5,J6,J7,J8		3.5mm Phone Jack	Digikey (CP-3502MJ-ND)
14	1	P1	DB-9 Female	90 degr. Pcb mount	Any
15	2	K1,K2	Omron GV5 or equiv.	5 or 12vdc DPDT Relay	Any
16	3	Q1,Q2,Q3	2N2222A	TO-18 or TO-92 NPN	Any
17	1	Q4	2N7000	(Optional FET)	Any
18	1	R1	4.7K	1/ 4 Watt Resistor	Any
19	3	R3,R4,R5	100k	"	
20	3	R6,R8,R15	680	"	
21	2	R14,R7	100	"	
22	3	R10,R12*,R13*	1k	"	
23	1	R16	120k	"	
24	2	R9,R17	50k	Trimpot	Digikey (EVN-D8A)
25	1	U1 +	16F84 (-4,-10,-20)	PIC Ucontroller	Digikey
26	1	U2 +	HT9170B (MT8870)	DTMF Decoder	Any
27	1	U3 +	74HC04	Hex Inverter	Any
28	1	U4 +	MAX232E (HIN232)	RS-232 Level Shifter	Any
29	1	U5	MC7805CT	5 Volt Regulator	Any
30	1	Y1	4.0 MHZ	Crystal	Any
31	1	Y2	3.579 MHZ	Crystal	Any

* Use 680 ohm resistors at R12 and R13 when using 5 volt relays.

+ IC Sockets are included with kits and built units.