

Pre-installed Components

C1	1000p	SMT	1206	C42	0.1u	SMT	805
C2	2000p	SMT	1206	C43	1.0u	SMT	805
C3	680p	SMT	1206	C44	0.1u	SMT	805
C4	3300p	SMT	1206	C45	0.01u	SMT	805
C6	390p	SMT	805	C46	1000p	SMT	1206
C7	3300p	SMT	805	C47	1000p	SMT	805
C8	3300p	SMT	805	C48	0.1u	SMT	805
C9	390p	SMT	805	C49	0.1u	SMT	805
C10	0.1u	SMT	805	C50	1200p	SMT	1206
C11	0.1u	SMT	805	D1	1N914	SMT	SOD323
C12	470p	SMT	805	D2	1N914	SMT	SOD323
C13	1.0u	SMT	805	D3	1N914	SMT	SOD323
C14	1.0u	SMT	805	D4	1N914	SMT	SOD323
C15	1500p	SMT	1206	D7	1N914	SMT	SOD323
C17	0.1u	SMT	805	D8	1N914	SMT	SOD323
C18	100p	SMT	805	D9	1N914	SMT	SOD323
C19	0.047u	SMT	805	D10	1N914	SMT	SOD323
C20	1.0u	SMT	805	Q4	MMBT3904	SMT	SOT-23
C21	1000p	SMT	805	Q5	2N7002	SMT	SOT-23
C22	1000p	SMT	805	Q6	2N7002	SMT	SOT-23
C23	0.1u	SMT	805	Q7	2N7002	SMT	SOT-23
C24	0.01u	SMT	805	Q8	2N7002	SMT	SOT-23
C26	0.01u	SMT	805	Q9	MMBT3904	SMT	SOT-23
C27	470p	SMT	805	Q10	MMBT3906	SMT	SOT-23
C28	0.1u	SMT	805	Q13	MMBT3906	SMT	SOT-23
C29	0.1u	SMT	805	Q14	2N7002	SMT	SOT-23
C30	0.1u	SMT	805	Q16	MMBT3904	SMT	SOT-23
C32	1.0u	SMT	805	Q17	MMBT3904	SMT	SOT-23
C33	0.01u	SMT	805	U1	NJM2113	SMT	SOIC-8
C34	47p	SMT	805	U2	TLC274	SMT	SOIC-14
C35	0.001u	SMT	805	U4	LM317L	SMT	SOT-89
C36	220p	SMT	805	U6	Si5351	SMT	MSOP-10
C37	0.01u	SMT	805	U7	LM317L	SMT	SOT-89
C38	0.1u	SMT	805	U8	74AC04	SMT	SOIC-14
C39	0.1u	SMT	805	U9	LM317L	SMT	SOT-89
C40	1.0u	SMT	805	X4	27M	SMT	

Pre-Installed Components (continued)

R1	1.0k	SMT	805		R31	47	SMT	805
R2	100k	SMT	805		R32	2.7k	SMT	805
R3	1.0k	SMT	805		R33	10k	SMT	805
R4	10k	SMT	805		R34	100k	SMT	805
R5	75k	SMT	805		R35	10k	SMT	805
R6	1.0k	SMT	805		R36	470	SMT	805
R7	36k	SMT	805		R37	1.0M	SMT	805
R8	1.0k	SMT	805		R38	10k	SMT	805
R9	1.0k	SMT	805		R39	1.0k	SMT	805
R10	10k	SMT	805		R40	10k	SMT	805
R12	1.0k	SMT	805		R41	22k	SMT	805
R13	220	SMT	805		R42	100	SMT	805
R14	1.0k	SMT	805		R43	1.0k	SMT	805
R15	30k	SMT	805		R44	27k	SMT	805
R16	10k	SMT	805		R45	10k	SMT	805
R17	360	SMT	805		R46	1.0M	SMT	805
R18	18k	SMT	805		R47	3.3k	SMT	805
R19	10k	SMT	805		R48	10k	SMT	805
R20	2.2k	SMT	805		R49	1.0M	SMT	805
R21	10k	SMT	805		R50	150k	SMT	805
R22	18k	SMT	805		R51	470	SMT	805
R23	10k	SMT	805		R52	1.0k	SMT	805
R24	180	SMT	805		R53	3.3k	SMT	805
R26	680	SMT	805		R54	390	SMT	805
R27	1.0k	SMT	805		R55	220	SMT	805
R28	1.0k	SMT	805		R56	680	SMT	805
R29	1.0k	SMT	805		R57	470	SMT	805
R30	18k	SMT	805		R58	470	SMT	805

Contents of Electronic Parts Kit

Contents of Hardware Kit

√	Qty	Value	Ref Des	Type	√	Qty	Part
	1	10u	C5	Electrolytic		1	14-DIP Socket
	2	2200u	C16, C25	Electrolytic		3	Heat Sink
	2	100u	C31, C41	Electrolytic		3	Heat Sink Pads
	1	LED	D5	Red, T 1-3/4		1	5.5x2.1mm power plug
	1	SB240	D6	axial		9	6-32x3/8 black round head screw
	1	BNC	J1	BNC		4	6-32x0.25x1.5" aluminum hex standoff
	1	Power Jack	J2	5.5x2.1mm		4	6-32x 0.25 spacer
	2	Audio Jack	J3, J4	3.5mm		4	6-32x5/8" black round head screw
	2	T50-2	L1, L2	red toroid		4	4-40x 5/8" round head screw
	2	T50-6	L3, L4	yellow toroid		7	6-32 hex nut
	2	IRF510	Q1, Q12	TO-220		4	#4x1/4" nylon spacer
	1	ZVN3310A	Q2	TO-92		4	4-40 nylon hex nut
	3	FQP7P06	Q3, Q11, Q15	TO-220		1	LED holder
	2	50k	R11, R25	Potentiometer		1	large knob
	1	Power	SW1	SPDT		2	small knob
	1	Rotary Encoder	SW2			7	#6 flat washer
	1	TA7642	U3	TO-92		7	#6 lock washer
	1	PIC16F18324-I/P	U5	DIP-14		4	rubber feet
	3	2.0M	X1, X2, X3	Ceramic Resonator		1	6", 4-conductor ribbon cable
						1	12" 22 AWG stranded
						6'	22 AWG magnet wire
						1	microphone
						1	Speaker
						1	4 digit LED display