

Bill Of Materials for EMU_1000.sch on Mon Jun 12 13:35:28 2000

Item	Qty	Reference	Part Name	Description	VALUE
1	1	U7	2501	2501 PHOTOCOUPLER IC	
2	1	U12	7805		
3	1	Q4	8550	PNP Transistor	8550
4	1	Q5	8550	PNP Transistor	8550
5	1	D1	1N4001		1N4001
6	1	D13	1N4001		1N4001
7	1	D3	1N4004		1N4004
8	1	D4	1N4004		1N4004
9	1	D7	1N4004		1N4004
10	1	D8	1N4004		1N4004
11	1	D2	1N4148		1N4148
12	1	D5	1N4148		1N4148
13	1	D6	1N4148		1N4148
14	1	D11	1N4148		1N4148
15	1	U5	24C04		
16	1	Q1	2SC945	NPN Small signal Transistor	2SC945
17	1	Q2	2SC945	NPN Small signal Transistor	2SC945
18	1	Q3	2SC945	NPN Small signal Transistor	2SC945
19	1	Q7	2SC945	NPN Small signal Transistor	2SC945
20	1	Q10	2SC945	NPN Small signal Transistor	2SC945
21	1	Q11	2SC945	NPN Small signal Transistor	2SC945
22	1	Q12	2SC945	NPN Small signal Transistor	2SC945
23	1	Q13	2SC945	NPN Small signal Transistor	2SC945
24	1	Q14	2SC945	NPN Small signal Transistor	2SC945
25	1	Q15	2SC945	NPN Small signal Transistor	2SC945
26	1	Q6	9012G	PNP Small signal Transistor	9012G
27	1	Q8	9012G	PNP Small signal Transistor	9012G
28	1	Q9	9012G	PNP Small signal Transistor	9012G
29	1	J4	ANT		
30	1	J3	BATTERY		???
31	1	BZ1	BUZZ	BUZZ	
32	1	C2	CAP		104
33	1	C3	CAP		223
34	1	C4	CAP		103
35	1	C5	CAP		472
36	1	C6	CAP		22P
37	1	C7	CAP		104
38	1	C8	CAP		104
39	1	C9	CAP		103
40	1	C10	CAP		103
41	1	C11	CAP		104
42	1	C12	CAP		270P
43	1	C14	CAP		104
44	1	C20	CAP		104
45	1	C21	CAP		473
46	1	C22	CAP		104
47	1	C23	CAP		104
48	1	C25	CAP		4700P
49	1	C26	CAP		104
50	1	C29	CAP		4700P
51	1	C33	CAP		223
52	1	C34	CAP		103
53	1	C35	CAP		104

54	1	C36	CAP		104
55	1	C37	CAP		683
56	1	C38	CAP		104
57	1	C40	CAP		104
58	1	C41	CAP		104
59	1	C42	CAP		104
60	1	C45	CAP		102
61	1	C46	CAP		392
62	1	C47	CAP		104
63	1	C49	CAP		104
64	1	C51	CAP		104
65	1	C54	CAP		104
66	1	C55	CAP		22P
67	1	C56	CAP		22P
68	1	C57	CAP		104
69	1	C58	CAP		104
70	1	C60	CAP		104
71	1	C61	CAP		104
72	1	C62	CAP		104
73	1	C63	CAP		104
74	1	C64	CAP		470p
75	1	C65	CAP		104
76	1	C68	CAP		223
77	1	C70	CAP		473
78	1	C71	CAP		224
79	1	C72	CAP		104
80	1	C73	CAP		224
81	1	C74	CAP		104
82	1	C75	CAP		104
83	1	C1	CAPM	(M)	474 250V
84	1	J2	DCJACK		
85	1	C13	ECAP25		22u
86	1	C15	ECAP25		2.2u
87	1	C16	ECAP25		2.2u
88	1	C17	ECAP25		47u
89	1	C18	ECAP25		4.7u
90	1	C19	ECAP25		220u
91	1	C24	ECAP25		47u
92	1	C27	ECAP25		2.2u
93	1	C28	ECAP25		2.2u
94	1	C31	ECAP25		470u
95	1	C39	ECAP25		3.3u
96	1	C43	ECAP25		10u
97	1	C50	ECAP25		1u
98	1	C59	ECAP25		47u
99	1	C66	ECAP25		22u
100	1	C67	ECAP25		22u
101	1	C30	ECAP35		100u
102	1	C32	ECAP35		47u
103	1	C44	ECAP35		220u
104	1	C48	ECAP35		220u
105	1	C52	ECAP35		220u
106	1	C53	ECAP35		1000u
107	1	C69	ECAP35		220u
108	1	U2	HT605L		
109	1	U3	HT9170A		

110	1	U4	HT9200B			
111	1	U15	JL-HB	AF TRANSFOMER	HBA-001 ANNET	HBA-001
112	1	L1	L			100uH
113	1	L2	L			100uH
114	1	L3	L			100uH
115	1	L4	L			100uH
116	1	L5	L			70mhH
117	1	D9	LED		LIGHT EMITTING DIODE	
118	1	D10	LED		LIGHT EMITTING DIODE	
119	1	D12	LED		LIGHT EMITTING DIODE	
120	1	U10	LM358		Dual Op Amp 8 pin	
121	1	U8	LM386			
122	1	U11	LM431			
123	1	U9	LM567			
124	1	U6	MC34118			
125	1	M2	MIC		MIC	
126	1	U1	PIC16C65B			
127	1	F1	PTC			TR250-120U
128	1	F2	PTC			TR250-120U
129	1	R1	R1/4W	RES BODY:100	CENTERS:500	30K
130	1	R2	R1/4W	RES BODY:100	CENTERS:500	680
131	1	R3	R1/4W	RES BODY:100	CENTERS:500	33K
132	1	R4	R1/4W	RES BODY:100	CENTERS:500	47K
133	1	R5	R1/4W	RES BODY:100	CENTERS:500	100K
134	1	R6	R1/4W	RES BODY:100	CENTERS:500	100K
135	1	R7	R1/4W	RES BODY:100	CENTERS:500	3K3
136	1	R8	R1/4W	RES BODY:100	CENTERS:500	33K
137	1	R9	R1/4W	RES BODY:100	CENTERS:500	4.7K
138	1	R10	R1/4W	RES BODY:100	CENTERS:500	20K
139	1	R11	R1/4W	RES BODY:100	CENTERS:500	120
140	1	R12	R1/4W	RES BODY:100	CENTERS:500	10K
141	1	R13	R1/4W	RES BODY:100	CENTERS:500	100K
142	1	R14	R1/4W	RES BODY:100	CENTERS:500	56K
143	1	R15	R1/4W	RES BODY:100	CENTERS:500	220K
144	1	R16	R1/4W	RES BODY:100	CENTERS:500	56K
145	1	R17	R1/4W	RES BODY:100	CENTERS:500	1.2k
146	1	R18	R1/4W	RES BODY:100	CENTERS:500	82R
147	1	R19	R1/4W	RES BODY:100	CENTERS:500	120K
148	1	R20	R1/4W	RES BODY:100	CENTERS:500	100K
149	1	R21	R1/4W	RES BODY:100	CENTERS:500	1K
150	1	R22	R1/4W	RES BODY:100	CENTERS:500	620
151	1	R23	R1/4W	RES BODY:100	CENTERS:500	1K
152	1	R24	R1/4W	RES BODY:100	CENTERS:500	20K
153	1	R25	R1/4W	RES BODY:100	CENTERS:500	20K
154	1	R26	R1/4W	RES BODY:100	CENTERS:500	180K
155	1	R27	R1/4W	RES BODY:100	CENTERS:500	33K
156	1	R28	R1/4W	RES BODY:100	CENTERS:500	180K
157	1	R29	R1/4W	RES BODY:100	CENTERS:500	10K
158	1	R30	R1/4W	RES BODY:100	CENTERS:500	10K
159	1	R31	R1/4W	RES BODY:100	CENTERS:500	100K
160	1	R32	R1/4W	RES BODY:100	CENTERS:500	820
161	1	R33	R1/4W	RES BODY:100	CENTERS:500	10R
162	1	R34	R1/4W	RES BODY:100	CENTERS:500	2k7
163	1	R35	R1/4W	RES BODY:100	CENTERS:500	20K

164	1	R36	R1/4W	RES	BODY:100	CENTERS:500	10K
165	1	R37	R1/4W	RES	BODY:100	CENTERS:500	390K
166	1	R38	R1/4W	RES	BODY:100	CENTERS:500	100K
167	1	R39	R1/4W	RES	BODY:100	CENTERS:500	10
168	1	R40	R1/4W	RES	BODY:100	CENTERS:500	20K
169	1	R41	R1/4W	RES	BODY:100	CENTERS:500	2.4K
170	1	R42	R1/4W	RES	BODY:100	CENTERS:500	4.7M
171	1	R43	R1/4W	RES	BODY:100	CENTERS:500	200k
172	1	R44	R1/4W	RES	BODY:100	CENTERS:500	180k
173	1	R45	R1/4W	RES	BODY:100	CENTERS:500	180k*
174	1	R46	R1/4W	RES	BODY:100	CENTERS:500	130k*
175	1	R47	R1/4W	RES	BODY:100	CENTERS:500	82k
176	1	R48	R1/4W	RES	BODY:100	CENTERS:500	470k
177	1	R49	R1/4W	RES	BODY:100	CENTERS:500	2.2M
178	1	R50	R1/4W	RES	BODY:100	CENTERS:500	4.7k
179	1	R51	R1/4W	RES	BODY:100	CENTERS:500	4.7K
180	1	R52	R1/4W	RES	BODY:100	CENTERS:500	200K
181	1	R53	R1/4W	RES	BODY:100	CENTERS:500	4.7K
182	1	R54	R1/4W	RES	BODY:100	CENTERS:500	10
183	1	R55	R1/4W	RES	BODY:100	CENTERS:500	3K9
184	1	R56	R1/4W	RES	BODY:100	CENTERS:500	1
185	1	R57	R1/4W	RES	BODY:100	CENTERS:500	10K
186	1	R58	R1/4W	RES	BODY:100	CENTERS:500	47K
187	1	R59	R1/4W	RES	BODY:100	CENTERS:500	10K
188	1	R60	R1/4W	RES	BODY:100	CENTERS:500	100K
189	1	R62	R1/4W	RES	BODY:100	CENTERS:500	100K
190	1	R63	R1/4W	RES	BODY:100	CENTERS:500	100K
191	1	R64	R1/4W	RES	BODY:100	CENTERS:500	1M
192	1	R65	R1/4W	RES	BODY:100	CENTERS:500	20M
193	1	R66	R1/4W	RES	BODY:100	CENTERS:500	20K
194	1	R67	R1/4W	RES	BODY:100	CENTERS:500	150K
195	1	R68	R1/4W	RES	BODY:100	CENTERS:500	56K
196	1	R69	R1/4W	RES	BODY:100	CENTERS:500	20K
197	1	R70	R1/4W	RES	BODY:100	CENTERS:500	20K
198	1	R71	R1/4W	RES	BODY:100	CENTERS:500	4.7K
199	1	R72	R1/4W	RES	BODY:100	CENTERS:500	1K
200	1	R73	R1/4W	RES	BODY:100	CENTERS:500	3K
201	1	R74	R1/4W	RES	BODY:100	CENTERS:500	1K
202	1	R75	R1/4W	RES	BODY:100	CENTERS:500	56R
203	1	R76	R1/4W	RES	BODY:100	CENTERS:500	270R
204	1	R77	R1/4W	RES	BODY:100	CENTERS:500	2.7k
205	1	R78	R1/4W	RES	BODY:100	CENTERS:500	680k
206	1	R79	R1/4W	RES	BODY:100	CENTERS:500	1.8k
207	1	R80	R1/4W	RES	BODY:100	CENTERS:500	22R
208	1	R82	R1/4W	RES	BODY:100	CENTERS:500	22k
209	1	R83	R1/4W	RES	BODY:100	CENTERS:500	8.2k
210	1	R84	R1/4W	RES	BODY:100	CENTERS:500	4.7k
211	1	R85	R1/4W	RES	BODY:100	CENTERS:500	20K
212	1	R86	R1/4W	RES	BODY:100	CENTERS:500	10k
213	1	R87	R1/4W	RES	BODY:100	CENTERS:500	100R
214	1	R88	R1/4W	RES	BODY:100	CENTERS:500	20
215	1	R89	R1/4W	RES	BODY:100	CENTERS:500	10k
216	1	R90	R1/4W	RES	BODY:100	CENTERS:500	1.2K
217	1	R91	R1/4W	RES	BODY:100	CENTERS:500	82K
218	1	U13	RF371				
219	1	RL1	RLY-DPDT	GENERIC	DUAL	RELAYS	???
220	1	U21	SPK				8 OHM

221	1	SW1	SW		
222	1	SW2	SW		
223	1	J1	TELEJACK		
224	1	J5	TELEJACK		
225	1	R61	VR	VR	10K
226	1	RV1	VR1		270V
227	1	RV2	VR1		270V
228	1	Y1	XTAL	CRYSTAL	3.58M
229	1	Z1	ZD		4.7V
230	1	Z2	ZD		4.7V
231	1	Z3	ZD		4.7V