

1: SYNTH MODULE BOARD Revised: Sunday, April 09, 2000
 2: Revision: A
 3:
 4: Jim Patchell
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11:	12: Item	12: Quantity	12: Reference	12: Part
13:				
14:				
15: 1	2	C1,C2	.01uF	
16: 2	2	C3,C4	.047uF	
17: 3	11	C5,C6,C18,C21,C24,C26,	CAP	
18:		C27,C29,C243,C248,C249		
19: 4	2	C7,C8	.022uF	
20: 5	2	C9,C10	1000pF	
21: 6	11	C11,C16,C19,C22,C25,C30,	100pF	
22:		C241,C242,C244,C252,C253		
23: 7	4	C12,C13,C14,C15	.001	
24: 8	4	C17,C20,C23,C28	2200nF	
25: 9	213	C31,C32,C33,C34,C35,C36,	.1uF	
26:		C37,C38,C39,C40,C41,C42,		
27:		C43,C44,C45,C46,C47,C48,		
28:		C49,C50,C51,C52,C53,C54,		
29:		C55,C56,C57,C58,C59,C60,		
30:		C61,C62,C63,C64,C65,C66,		
31:		C67,C68,C69,C70,C71,C72,		
32:		C73,C74,C75,C76,C77,C78,		
33:		C79,C80,C81,C82,C83,C84,		
34:		C85,C86,C87,C88,C89,C90,		
35:		C91,C92,C93,C94,C95,C96,		
36:		C97,C98,C99,C100,C101,		
37:		C102,C103,C104,C105,C106,		
38:		C107,C108,C109,C110,C111,		
39:		C112,C113,C114,C115,C116,		
40:		C117,C118,C119,C120,C121,		
41:		C122,C123,C124,C125,C126,		
42:		C127,C128,C129,C130,C131,		
43:		C132,C133,C134,C135,C136,		
44:		C137,C138,C139,C140,C141,		
45:		C142,C143,C144,C145,C146,		
46:		C147,C148,C149,C150,C151,		
47:		C152,C153,C154,C155,C156,		
48:		C157,C158,C159,C160,C161,		
49:		C162,C163,C164,C165,C166,		
50:		C167,C168,C169,C170,C171,		
51:		C172,C173,C174,C175,C176,		
52:		C177,C178,C179,C180,C181,		
53:		C182,C183,C184,C185,C186,		
54:		C187,C188,C189,C190,C191,		
55:		C192,C193,C194,C195,C196,		
56:		C197,C198,C199,C200,C201,		
57:		C202,C203,C204,C205,C206,		
58:		C207,C208,C209,C210,C211,		
59:		C212,C213,C214,C215,C216,		
60:		C217,C218,C219,C220,C221,		
61:		C222,C223,C224,C225,C226,		
62:		C227,C228,C229,C230,C231,		
63:		C232,C233,C234,C235,C236,		
64:		C237,C238,C239,C240,C245,		

65:			C250,C251	
66:	10	2	C246,C247 10uF	
67:	11	51	D1,D2,D3,D4,D5,D6,D11, 1N914	
68:			D12,D13,D14,D15,D16,D17,	
69:			D18,D19,D20,D21,D22,D23,	
70:			D24,D25,D26,D27,D28,D29,	
71:			D30,D31,D32,D33,D34,D35,	
72:			D36,D37,D38,D39,D40,D41,	
73:			D42,D43,D48,D49,D50,D53,	
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75:			D64,D65	
76:	12	14	D7,D8,D9,D10,D44,D45,D46, 1N751	
77:			D47,D51,D52,D56,D57,D61,	
78:			D62	
79:	13	17	JP1,JP2,JP3,JP4,JP5,JP6, HEADER 10X2	
80:			JP7,JP8,JP10,JP11,JP12,	
81:			JP13,JP14,JP15,JP16,JP17,	
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83:	14	1	JP9 HEADER 13X2	
84:	15	3	J1,J2,J3 5PINDIN	
85:	16	34	Q1,Q2,Q3,Q5,Q6,Q7,Q10, 2N3906	
86:			Q12,Q14,Q16,Q18,Q20,Q23,	
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91:	17	20	Q4,Q8,Q9,Q11,Q13,Q15,Q17, 2N3904	
92:			Q19,Q21,Q22,Q35,Q36,Q41,	
93:			Q43,Q46,Q50,Q54,Q58,Q61,	
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95:	18	4	Q37,Q38,Q39,Q40 NPN DAR	
96:	19	4	Q45,Q49,Q53,Q57 2N4391	
97:	20	2	R1,R26 3K	
98:	21	41	R2,R4,R5,R27,R29,R30,R52, 1K	
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100:			R132,R135,R136,R140,R141,	
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102:			R210,R226,R238,R254,R298,	
103:			R304,R310,R316,R322,R328,	
104:			R418,R588,R589,R592,R593,	
105:			R653,R656,R663,R664	
106:	22	2	R3,R28 12K	
107:	23	88	R6,R7,R8,R9,R14,R15,R25, 10.0K	
108:			R31,R32,R33,R34,R39,R40,	
109:			R50,R51,R53,R79,R80,R82,	
110:			R86,R87,R89,R93,R94,R100,	
111:			R103,R104,R109,R119,R158,	
112:			R161,R162,R186,R189,R190,	
113:			R214,R217,R218,R242,R245,	
114:			R246,R258,R260,R261,R262,	
115:			R263,R264,R272,R273,R274,	
116:			R276,R279,R283,R284,R288,	
117:			R289,R295,R301,R307,R313,	
118:			R319,R325,R330,R331,R334,	
119:			R335,R336,R337,R338,R342,	
120:			R346,R352,R354,R359,R363,	
121:			R368,R373,R377,R401,R408,	
122:			R410,R413,R415,R422,R425,	
123:			R427,R669,R670	
124:	24	240	R10,R20,R35,R45,R55,R62, 100K	
125:			R65,R70,R83,R90,R99,R110,	
126:			R122,R123,R129,R130,R131,	
127:			R133,R137,R138,R139,R143,	
128:			R144,R145,R146,R147,R148,	

129:			R149,R150,R151,R152,R153,	
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133:			R177,R178,R179,R180,R181,	
134:			R183,R184,R185,R187,R188,	
135:			R191,R194,R195,R197,R199,	
136:			R200,R201,R202,R203,R204,	
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138:			R211,R212,R213,R215,R216,	
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141:			R233,R234,R235,R236,R237,	
142:			R239,R240,R241,R243,R244,	
143:			R247,R250,R251,R253,R255,	
144:			R256,R265,R266,R275,R280,	
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149:			R320,R321,R323,R324,R326,	
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152:			R382,R398,R399,R400,R402,	
153:			R403,R404,R405,R406,R407,	
154:			R416,R424,R430,R431,R435,	
155:			R436,R437,R440,R442,R444,	
156:			R449,R451,R453,R456,R457,	
157:			R468,R469,R471,R472,R475,	
158:			R476,R478,R479,R487,R488,	
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162:			R530,R531,R539,R540,R541,	
163:			R544,R546,R548,R553,R555,	
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165:			R575,R576,R579,R580,R582,	
166:			R583,R590,R591,R594,R595,	
167:			R599,R600,R601,R604,R606,	
168:			R608,R613,R615,R617,R620,	
169:			R621,R632,R633,R635,R636,	
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171:			R658,R661,R662	
172:	25	2	R11,R36	4.99K
173:	26	6	R13,R38,R391,R393,R395,	5.1K
174:			R397	
175:	27	6	R17,R42,R443,R495,R547,	1.00M
176:			R607	
177:	28	6	R18,R43,R452,R504,R556,	15K
178:			R616	
179:	29	138	R21,R46,R61,R63,R64,R112,	R
180:			R168,R196,R224,R252,R257,	
181:			R259,R268,R270,R271,R278,	
182:			R282,R287,R292,R329,R332,	
183:			R333,R339,R340,R343,R344,	
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185:			R362,R365,R370,R372,R409,	
186:			R412,R419,R428,R433,R434,	
187:			R438,R439,R446,R447,R448,	
188:			R450,R458,R459,R460,R461,	
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190:			R467,R470,R474,R477,R481,	
191:			R482,R483,R485,R486,R490,	
192:			R491,R498,R499,R500,R502,	

193:			R510,R511,R512,R513,R514,	
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195:			R522,R526,R529,R533,R534,	
196:			R535,R537,R538,R542,R543,	
197:			R550,R551,R552,R554,R562,	
198:			R563,R564,R565,R566,R567,	
199:			R568,R569,R570,R571,R574,	
200:			R578,R581,R585,R586,R587,	
201:			R597,R598,R602,R603,R610,	
202:			R611,R612,R614,R622,R623,	
203:			R624,R625,R626,R627,R628,	
204:			R629,R630,R631,R634,R638,	
205:			R641,R645,R646,R647,R650,	
206:			R659,R660	
207:	30	10	R22,R47,R56,R66,R84,R91,	2K
208:			R101,R111,R358,R374	
209:	31	4	R23,R48,R98,R108	20K
210:	32	2	R24,R49	120K
211:	33	19	R54,R81,R88,R165,R193,	68K
212:			R221,R249,R267,R269,R277,	
213:			R281,R286,R291,R341,R345,	
214:			R360,R376,R414,R426	
215:	34	9	R57,R67,R85,R92,R102,	150K
216:			R361,R375,R420,R429	
217:	35	16	R58,R68,R164,R192,R220,	10K
218:			R248,R383,R384,R385,R386,	
219:			R387,R388,R389,R651,R665,	
220:			R666	
221:	36	7	R60,R69,R113,R115,R116,	220
222:			R117,R118	
223:	37	14	R71,R72,R73,R74,R75,R76,	100
224:			R77,R78,R445,R497,R549,	
225:			R609,R667,R668	
226:	38	2	R95,R105	1.5K
227:	39	13	R96,R97,R106,R107,R378,	200
228:			R379,R380,R381,R390,R392,	
229:			R394,R396,R417	
230:	40	1	R114	270
231:	41	13	R121,R432,R473,R480,R484,	POT
232:			R525,R532,R536,R577,R584,	
233:			R596,R637,R644	
234:	42	1	R127	301K
235:	43	2	R134,R128	10
236:	44	2	R411,R652	1M
237:	45	1	R421	2.2K
238:	46	1	R423	20.0K
239:	47	5	R441,R493,R545,R605,R655	3.3K
240:	48	8	R454,R455,R506,R507,R558,	30K
241:			R559,R618,R619	
242:	49	1	R648	910K
243:	50	1	R649	6.8K
244:	51	1	R654	390K
245:	52	5	U1,U5,U10,U15,U18	DG211I
246:	53	11	U2,U14,U26,U48,U53,U57,	CA3280E
247:			U61,U64,U69,U72,U83	
248:	54	24	U3,U16,U22,U24,U25,U27,	LF347
249:			U47,U49,U50,U51,U52,U54,	
250:			U55,U56,U66,U67,U82,U84,	
251:			U93,U103,U114,U117,U124,	
252:			U128	
253:	55	19	U4,U11,U29,U30,U42,U58,	TL072
254:			U62,U65,U85,U86,U91,U96,	
255:			U99,U102,U106,U113,U118,	
256:			U119,U126	

257:	56	4	U6,U8,U12,U13	74HC00
258:	57	1	U7	74HC139
259:	58	2	U39,U17	74HC04
260:	59	2	U19,U21	MAX514
261:	60	3	U28,U90,U112	lm13700
262:	61	1	U31	74HC573
263:	62	1	U32	GENERIC RAM X8
264:	63	1	U33	74HC574
265:	64	1	U34	AT90S8515
266:	65	2	U35,U36	74HC138
267:	66	1	U37	PC900
268:	67	1	U38	74HC05
269:	68	4	U40,U43,U45,U46	AD633
270:	69	5	U41,U89,U100,U110,U122	LM336
271:	70	8	U59,U60,U63,U68,U70,U71,	TL071
272:			U74,U127	
273:	71	1	U73	THAT120
274:	72	4	U76,U77,U78,U79	THAT140
275:	73	5	U80,U94,U104,U115,U125	CA3046
276:	74	1	U81	LF356
277:	75	4	U87,U97,U107,U120	CA3140
278:	76	4	U88,U98,U108,U121	LM111
279:	77	2	U92,U111	MAT04
280:	78	2	U95,U116	LF353
281:	79	1	Y1	CRYSTAL
282:				