

Main Board Build List - Build in order below, check work after each section and again before applying power after fully built.

Be extra careful of placement of Transistors, 2 x 105 1uF Caps, Electrolytic Caps, Diodes, IC orientation before applying power!

Part	Location	Total	Comments
1K temperature controlled resistors	R100A R100B	2	<b>Pre-Soldered Tempco</b>
<a href="#">220hm</a>	R150	1	
<a href="#">1000hm</a>	R95 R130 R132 R136 R152	5	
<a href="#">1K</a>	R137 R161	2	<b>Resistor Begin</b> (board photos linked)
<a href="#">2.2K</a>	R67-71 R98 R104 R107-8 R124-126 R133	14	
<a href="#">4.7K</a>	R135	1	
<a href="#">22K (1%)</a>	R45 R60	2	
<a href="#">22K (5%)</a>	R110-R111 R117 R120 R129 R134 R146 R151	1	
<a href="#">24K (1%)</a>	R106	1	
<a href="#">33K</a>	R159	1	Resistors all include at least 1 spare.
<a href="#">47K</a>	R46 R119 R127 R155	4	
<a href="#">68K</a>	R138	1	
<a href="#">10K (1%)</a>	R34 R36 R101 R105	4	
<a href="#">10K (5%)</a>	R47 R61 R64-65 R94 R96-97 R109 R112	88	
	R115-6 R142-R145 R148-149 R157-R158 R160 R201-R234 R237-R-270		
<a href="#">100K (1%)</a>	R35 R59 R92-R93 R102 R118	6	
<a href="#">100K (5%)</a>	R66 R72-73 R99 R113-114 R122 R139-R141 R153-154		
	R156 R165		
<a href="#">200K (1%)</a>	R74-R90	17	
<a href="#">220K (1%)</a>	R103	1	
<a href="#">220K (5%)</a>	R62-63 R121 R128 R131 R235-236	7	
<a href="#">1M (1%)</a>	R91		
<a href="#">1M (5%)</a>	R200	1	
<a href="#">1.5M</a>	R123	1	<b>Resistor End</b>
<b>Check Placement Solder &amp; Trim</b>			
2A102J/K (J=10%, K=5%)	C34 C100-101	3	<b>Poly Cap Begin</b>
2A103J/K	C10 C20-21 C33 C46	5	
2A104J/K	C25 C27 C41	3	
2A682J/K	C47	1	

2A683J/K	C45							1
2A183J/K	C18							1
2A333J/K	C19	C24	C26	C36				4
2A224J/K	C35							1
2A473J/K	C45							1 Poly Cap End

**Solder & Trim**

104 1uF	C103-104	C106-113						10 Tant Cap End
105 1uF (+/-)	C42	C62						2 Tant Cap End
Crystal 16Mh	XTL1							1
TP502 (5K)	TM5							1 Trim Pot Begin
TP503 (50K)	TM4							1
TP504 (500K)	TM3							1 Trim Pot End

**Check Placement/Orientation Solder & Trim**

2C536-E/F/G (Q indented)	Q3-5	Q11	Q13-20	Q23-25	Q29-30	Q32	Q34-35	Transistor (Q) Begin
	Q37	Q40-41						23
2SA733-K/AP	Q1-2	Q8-10	Q27	Q31	Q33	Q36	Q38	10 Orientation Indented Sides Match
2SK30A-Y (2SK118-Y)	Q3S							1
2SK30A-O (2SK118-O)	Q28							1
2SC2291-F/G	Q22							1
2SC1583-F/G	Q12	Q21	Q26					3 Transistor (Q) Begin

**Check Placement/Orientation Solder & Trim**

10V 1000uF (+/-)	C43							1 Electrolytic Caps Begin
10V 100uF (+/-)	C48-49	C102						3
16V 47uF (+/-)	C28	C44	C53	C55				4
25V 10uF (+/-)	C16	C30-32	C37	C40	C50	C52	C72	9
50V 1uF (+/-)	C11	C13-15	C17	C22-23	C29	C38	C56	13
	C58	C59	C105					
50V 2.2uF (+/-)	C51							1 Electrolytic Caps End
1N4148 (+/-)	D1-10	D24-37						24 Diode

**Check Placement/Orientation Solder & Trim**

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AN6562 (IC indented)	Q3-5	Q11	Q13-20	Q23-25	Q29-30	Q32	Q34-35	IC Begin (Take Static Precautions)
LA4140	IC14							1
BA6110	IC15B							1 Orientation Indented Sides Match
4066BP	IC12							1

