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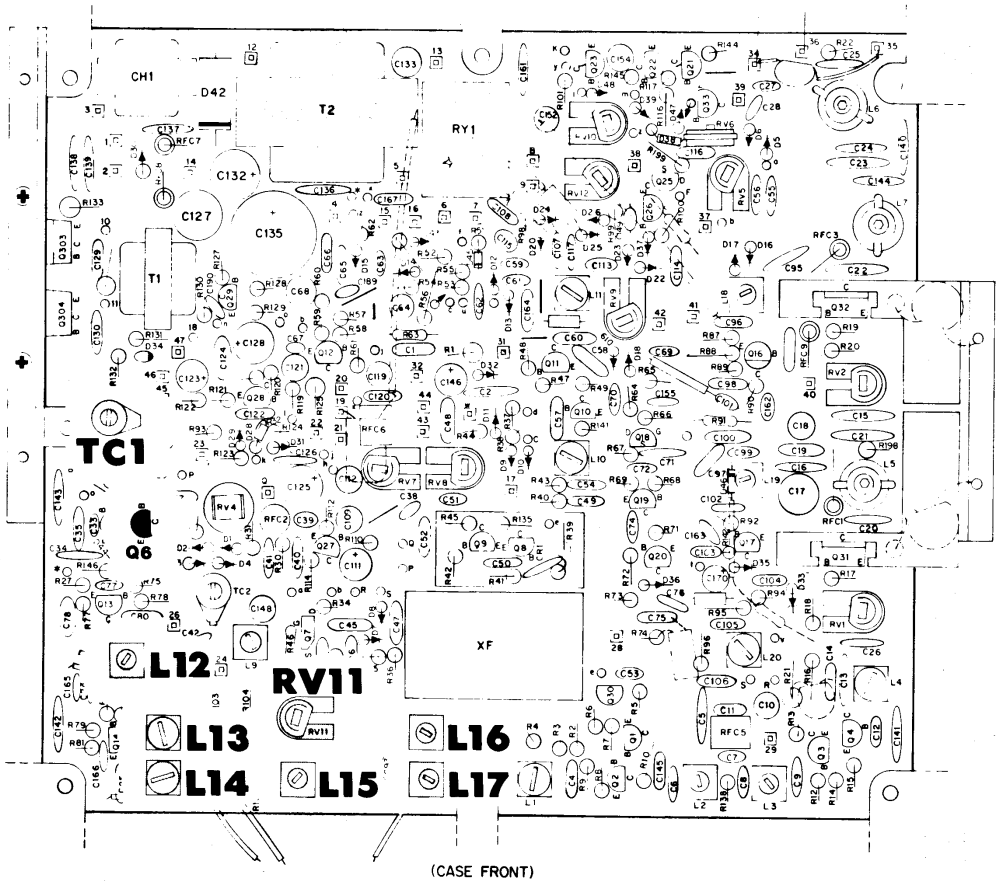

Figure 3-3

Components Adjusted for Synthesizer Alignment

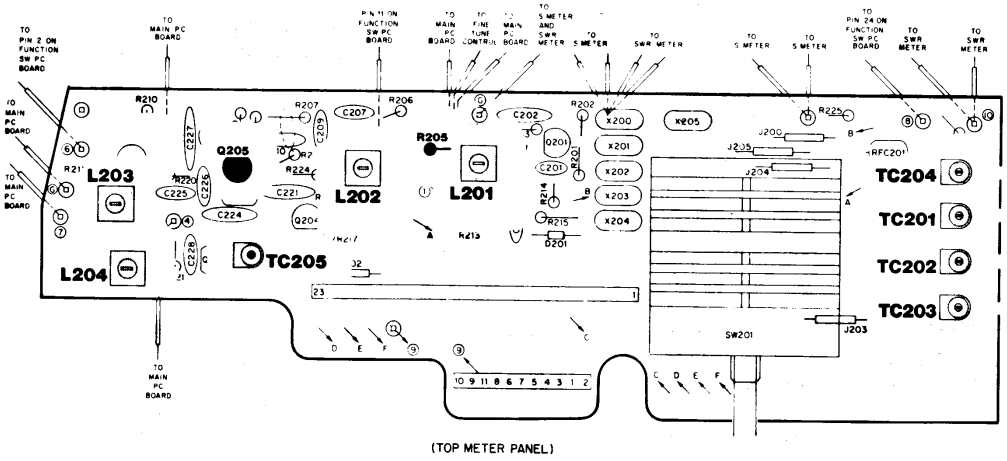

Figure 3-4

Components Adjusted for Synthesizer Alignment

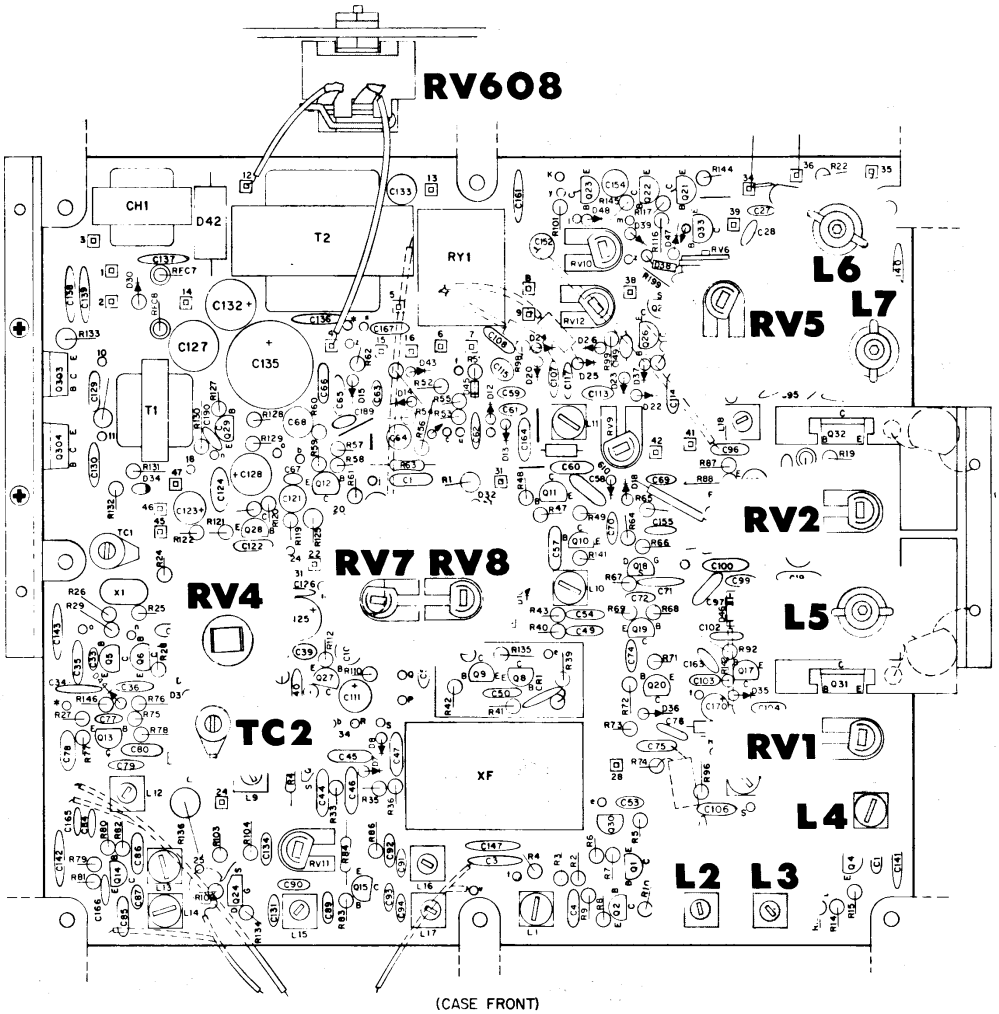

Figure 3-5

Components Adjusted for Transmitter Alignment

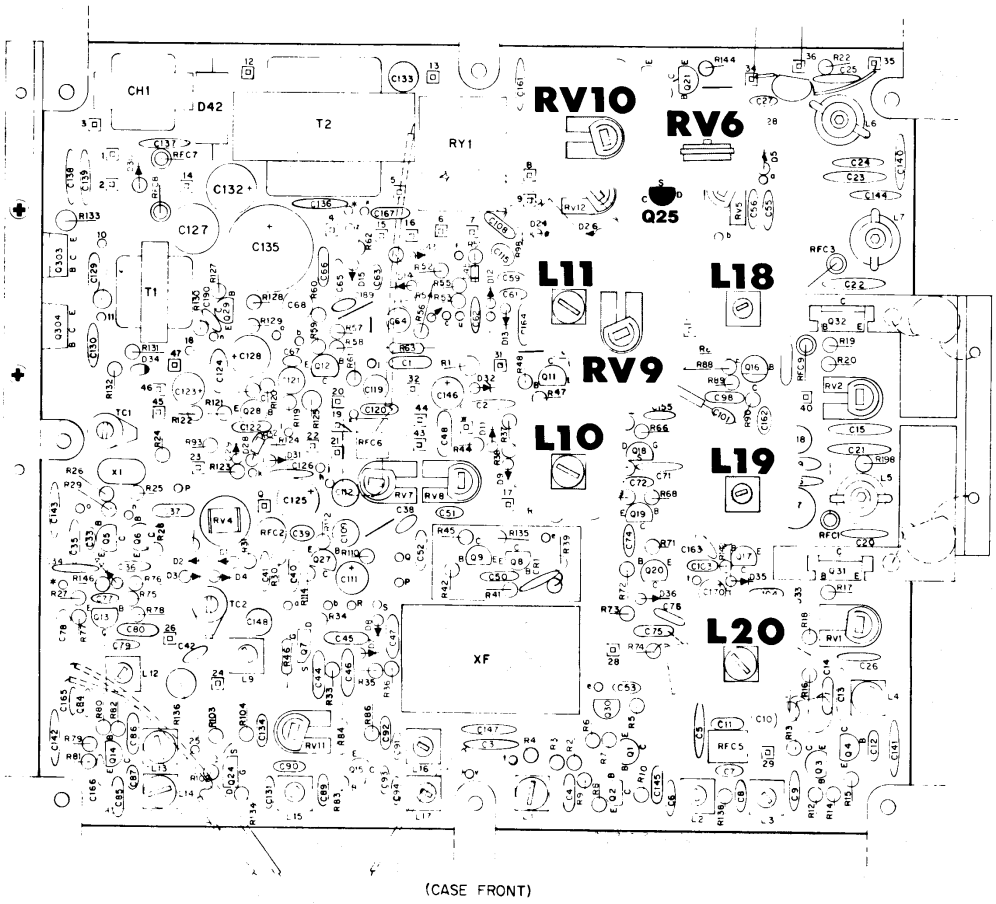

Figure 3-6

Components Adjusted for Receiver Alignment

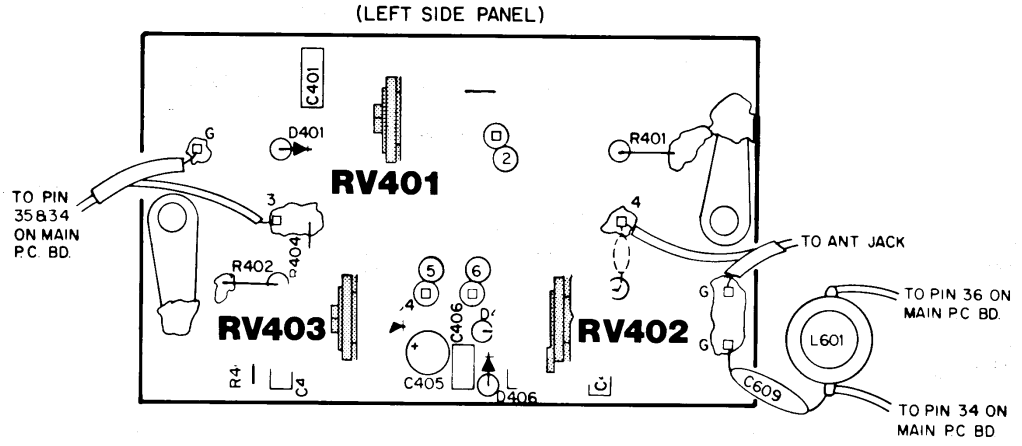

Figure 3-7

Components Adjusted for Meter Alignment

CHAPTER 4 — CHARTS AND DRAWINGS

VOLTAGE MEASUREMENT CHART

Main P.C. Board

Reference Designator	Mode	AM			USB			LSB		
		E	B	C	E	B	C	E	B	C
Q1	TX	.96	1.4	12,4	.95	1.45	12.9	1.1	1.47	12.9
	RX	0	o	o	o	o	o	o	o	o
Q2	TX	.96	1.4	12.4	.97	1.47	12.9	1.09	1.47	12.8
	RX	0	0	0	0	0	0	0	0	0
Q3	TX	2.15	2.6	12.8	2.1	2.7	13.2	2.08	2.7	13.2
	RX	0	0	0	0	0	0	0	0	0
Q4	TX	1.76	2.15	12.5	1.43	2.09	13	1.42	2.09	13
	RX	0	0	0	0	0	0	0	0	0
Q5	TX	3.2	3.8	7.8	3.2	3.8	7.8	3.2	3.8	7.8
	RX	3.85	4.2	8.55	3.25	3.8	7.8	3.2	3.8	7.8
Q6	TX	4.7	2.7	7.8	4.7	2.7	7.8	4.7	2.7	7.8
	RX	4.3	3.1	8.5	4.7	2.7	7.8	4.7	2.7	7.8
Q7	See Field Effect Transistor List									
Q8	TX	1.12	.06	8.3	1.2	1.5	8.4	1.2	1.5	8.4
	RX	.98	1.34	8.6	.8	1.13	8.7	.8	1.13	8.7
Q9	TX	1.12	1.47	8.3	1.2	0	8.4	1.2	0	8.4
	RX	0	.98	8.6	0	.8	8.7	0	.8	8.7
Q10	TX	-.65	0	-.26	0	0	0	0	0	0
	RX	.65	0	1.67	.65	0	1.67	.65	0	1.67
Q11	TX	-.26	0	-.08	0	0	0	0	0	0
	RX	1.67	.94	6.6	1.67	.94	6.6	1.67	.94	6.6
Q12	TX	0	0	-.06	0	0	0	0	0	0
	RX	.46	.9	7.0	.5	.9	6.9	.5	.9	6.9
Q13	TX	0	0	-.06	0	0	-.06	1.12	1.49	8.8
	RX	0	0	-.06	0	0	-.06	1.12	1.49	8.8
Q14	TX	0	0	-.06	0	0	-.06	1.0	1.48	8.8
	RX	0	0	-.06	0	0	-.06	1.0	1.48	8.8
Q15	TX	0	0	-.06	0	0	-.06	1.27	1.50	8.8
	RX	0	0	-.06	0	0	-.06	1.27	1.50	8.8
Q16	TX	.25	.14	1.05	.02	.24	1.38	.02	.24	1.38
	RX	.5	.88	7.5	.42	.80	7.6	.42	.80	7.6
Q17	TX	1.0	0	.9	1.3	.15	1.4	1.3	.15	7.4
	RX	.4	.75	7.6	.3	.7	7.6	.3	.7	7.6
Q18	See Field Effect Transistor List									
Q19	TX	0	0	0	0	0	0	0	0	0
(NB-ON)	RX	7.4	6.7	2.1	7.4	6.7	2.1	7.4	6.7	2.1
Q20	RX	0	0	0	0	0	0	0	0	0
(NB-ON)	RX	.27	0	0	.27	0	0	.27	0	0
Q21	unsquelch	0	0	.6	0	0	.6	0	0	.6
	squelched	0	.55	0	0	.55	0	0	.55	0
Q22	unsquelched	0	.6	0	0	.6	0	0	.6	0
	squelched	0	0	7	0	0	7	0	0	7
Q23	unsquelched	0	0	8.2	0	0	8.2	0	0	8.2
	squelched	6.9	7	8.2	6.9	7	8.2	6.9	7	8.2
Q24	See Field Effect Transistor List									
Q25	See Field Effect Transistor List									
Q26	TX	0	0	.55	0	0	.55	0	0	.55
	RX	0	0	0	0	0	.55	0	0	.55
Q27	TX	0	0	.5	7.3	4.7	10.5	7.3	4.7	10.5
	RX	0	0	0	0	0	0	0	0	0

Reference Designator	Mode	AM			USB			LSB		
		E	B	C	E	B	C	E	B	C
Q28	TX	4.7	0	0	4.9	0	0	4.9	0	0
	RX		2.5	8	3	2.5	8	3	2.5	8
Q29	TX	1.4	1.9	8.2	0	0	0	0	0	0
	RX	1.5	2.0	8.	1.5	2.0	8.6	1.5	2.0	8.6
Q31	TX	0	.1	6.5	0	.6	12	0	.6	12
	RX	0	0	12	0	0	0	0	0	0
Q32	TX	0	-0.2	6.4	0	.55	12	0	.55	12
	RX	0	0	12	0	0	0	0	0	0
Q33	TX	.25	.15	0	.45	0	0	.45	0	0
	RX	2.1	1.3	0	1.8	1.2	0	1.2	0	
Q60I	TX	0	.6	11.5	0	0	0	0	0	0
	RX	0	.6	12.2	0	.6	12.2	0	.6	12.2
Q602	TX	0	.6	11.5	0	0	0	0	0	0
	RX	0	.6	12.2	0	.6	12.2	0	.6	12.2

Synthesizer/Oscillator P.C. Board

Reference Designator	AM			USB			LSB		
	E	B	C	E	B	C	E	B	C
Q201	2.78	1.73	8.80	2.76	1.70	8.76	2.83	1.68	8.74
Q202	See Field Effect Transistor List								
Q203	1.56	2.17	8.95	1.55	2.17	8.92	0	0	0
Q204	2.40	3.02	8.85	2.38	3.05	8.84	2.37	3.04	8.82
Q205	5.25	5.53	9.29	5.20	5.51	9.26	5.19	5.50	9.24
Q206	0	.72	.01	0	.14	.44	0	.14	/45

Field Effect Transistors

Reference Designator	Mode	AM			USB			LSB		
		G	D	S	G	D	S	G	D	S
Q202	TX	0	8.77	.98	0	8.79	.98	0	0	0
	RX	0	8.82	1.01	0	8.81	.98	0	0	0
Q7	TX	-1.5	.45	0	0	10.5	.45	0	10.5	.45
	RX	0	0	0	0	0	0	0	0	0
Q18	TX	0	0	0	0	0	0	0	0	0
(UB-ON)	RX	0	5.1	2.1	0	5.1	2.1	0	5.1	2.1
Q24	TX	0	0	0	0	0	0	0	8.3	.9
	RX	0	0	0	0	0	0	0	8.3	.9
Q25	TX	.07	/2	.2	.07	.2	.2	.07	.2	.2
	RX	0	0	0	0	7.6	3	0	7.6	3

AVR

Reference Designator	Mode	AM			USB			LSB		
		E	B	C	E	B	C	E	B	C
Q501	RX	.24	.62	.62	.23	.60	.60	.23	.60	.60
Q502	RX	0	0	.61	0	0	.60	0	0	.60
Q603	RX	0	.23	.61	0	.23	.60	0	.22	.60

Mode Switch

Reference Designator		AM			USB			LSB		
	Mode	E	B	C	E	B	C	E	B	C
Q301	TX	0	0	0	0	0	0	0	0	0
	RX	0	0	0	0	0	0	0	0	0

Reference Designator		Pin No						
	Mode	1	2	3	4	5	6	7
IC301	TX	1.2	0.46	0	0	.64	5.4	8.4
	RX	0	0	0	0	0	0	0