

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.
(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



PANASONIC MODEL RJ-3200

MODEL RJ-3200

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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6CY370

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
L1, L2, L3, L5, T1, T2	9440
L9, L13, L14, L16, L17, L18, L21	9300
T3, T4, T5	5000, 8290
L19	9295

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Input of RF VTVM to TP4, common to ground.	21	L5		Short TP3 to ground. Turn core clockwise to bottom of bobbin. Turn core counterclockwise to maximum, then back 1/2 turn. Remove TP3 short.
	21	L9		Short TP5 to ground. Turn core clockwise to bottom of bobbin. Turn core counterclockwise to peak, back off 11% of peak value. Remove TP5 short.

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil. Adjustments made with 14-volt DC input. Adjust volume control to obtain suitable reading. Set generator output low enough to prevent AGC limiting.				
SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to TP6, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	T3,T4,T5	Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation.	13	C11,L,L2, L3,T1,T2	Adjust for maximum.

RECEIVER ADJUSTMENTS

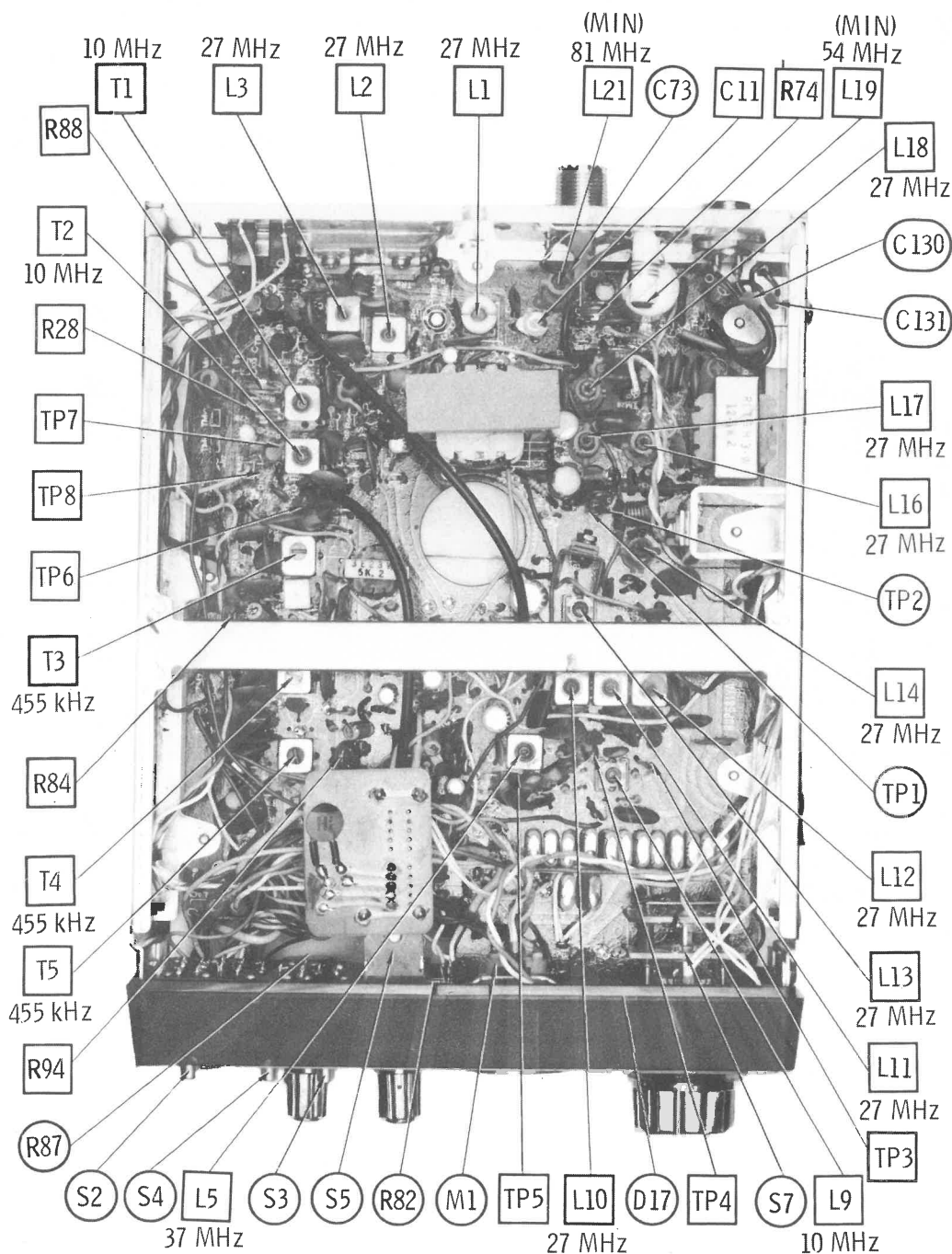
Connect an AC VTVM or AF Wattmeter across speaker voice coil. These adjustments made with 14-volt DC input. Adjust volume control to obtain a suitable reading.				
SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 320uV.	13	R88	Set squelch control fully clockwise. Adjust R88 so that audio is 500mV.
NOISE BLANKER Input of VTVM to TP7, low side to TP8.		13	R28	Adjust R28 for .5V $\pm$.1V.
S METER High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 320uV.	13	R84	Adjust R84 so that S meter indicates S9.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector. Adjustments made with 14-volt DC input.		
INDICATOR	ADJUST	REMARKS
MIXER, BUFFER, DRIVER, FINAL Input of RF Wattmeter to antenna jack, common to ground.	L10,L11,L12, L13,L14,L16, L17,L18	Channel selector to Ch. 13. Key transmitter. Adjust for maximum.
OUTPUT POWER Input of RF Wattmeter to antenna jack, common to ground.	L16,L17,L18	Key transmitter. Adjust for 3.4 $\pm$.35 watts output.
TVI TRAP TV (Ch. 2)	L19	Key transmitter. Adjust for MINIMUM interference on TV.
81MHz TRAP Input of spectrum analyzer to antenna jack, common to ground.	L21	Adjust for 81MHz MINIMUM.

TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector. Adjustments made with 14-volt DC input.		
INDICATOR	ADJUST	REMARKS
PANEL MODULATION LIGHT Input of oscilloscope or modulation indicator connected to antenna jack, common to ground.	R94	Inject a 1000Hz audio signal at mic input. Key transmitter. Adjust R94 so that at 50% modulation indicator begins to light.
RF PANEL METER Input of RF Wattmeter to antenna jack, common to ground.	R74	Key transmitter. Adjust so that needle is in the middle of red area.

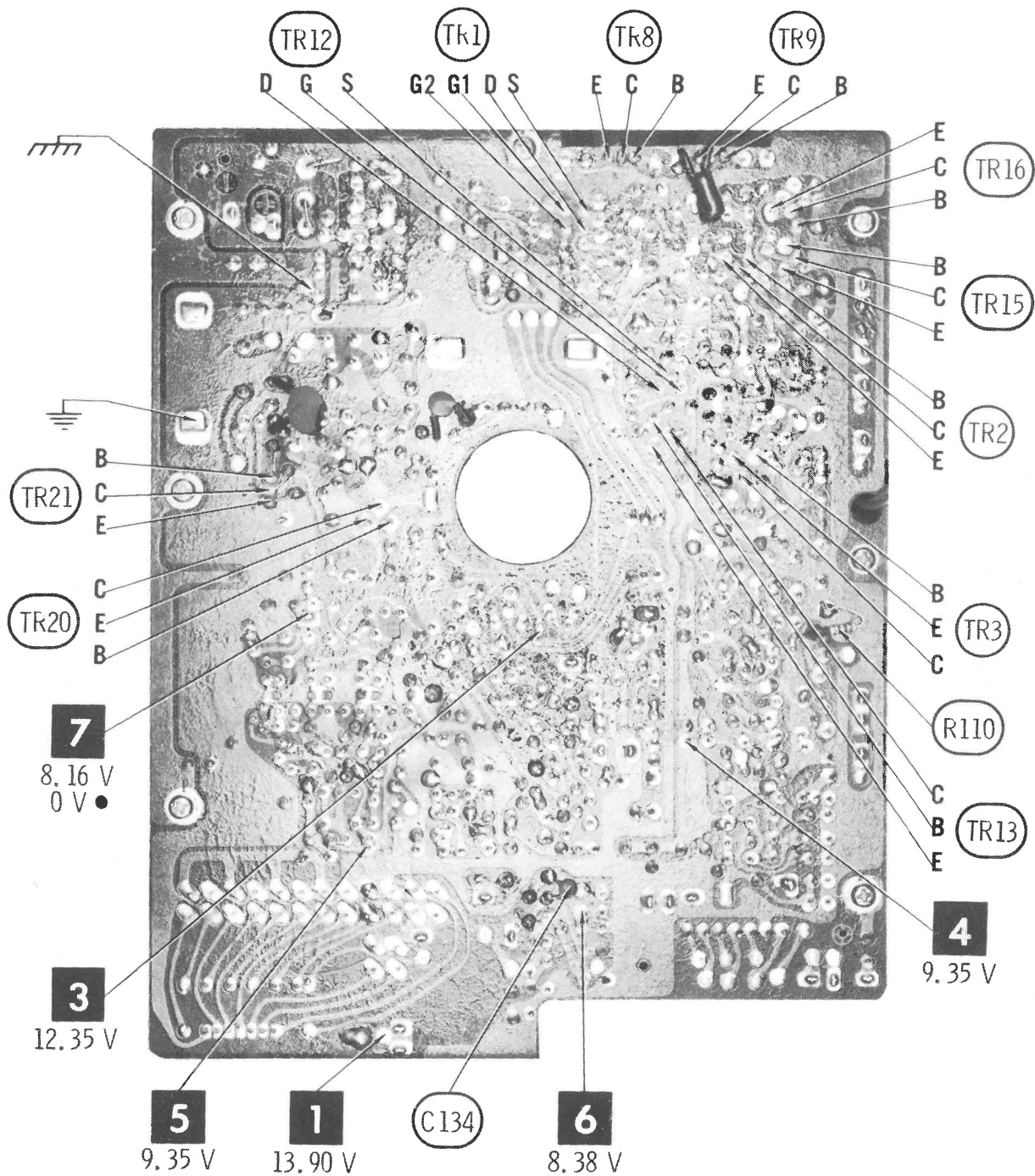


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PANASONIC MODEL RJ-3200

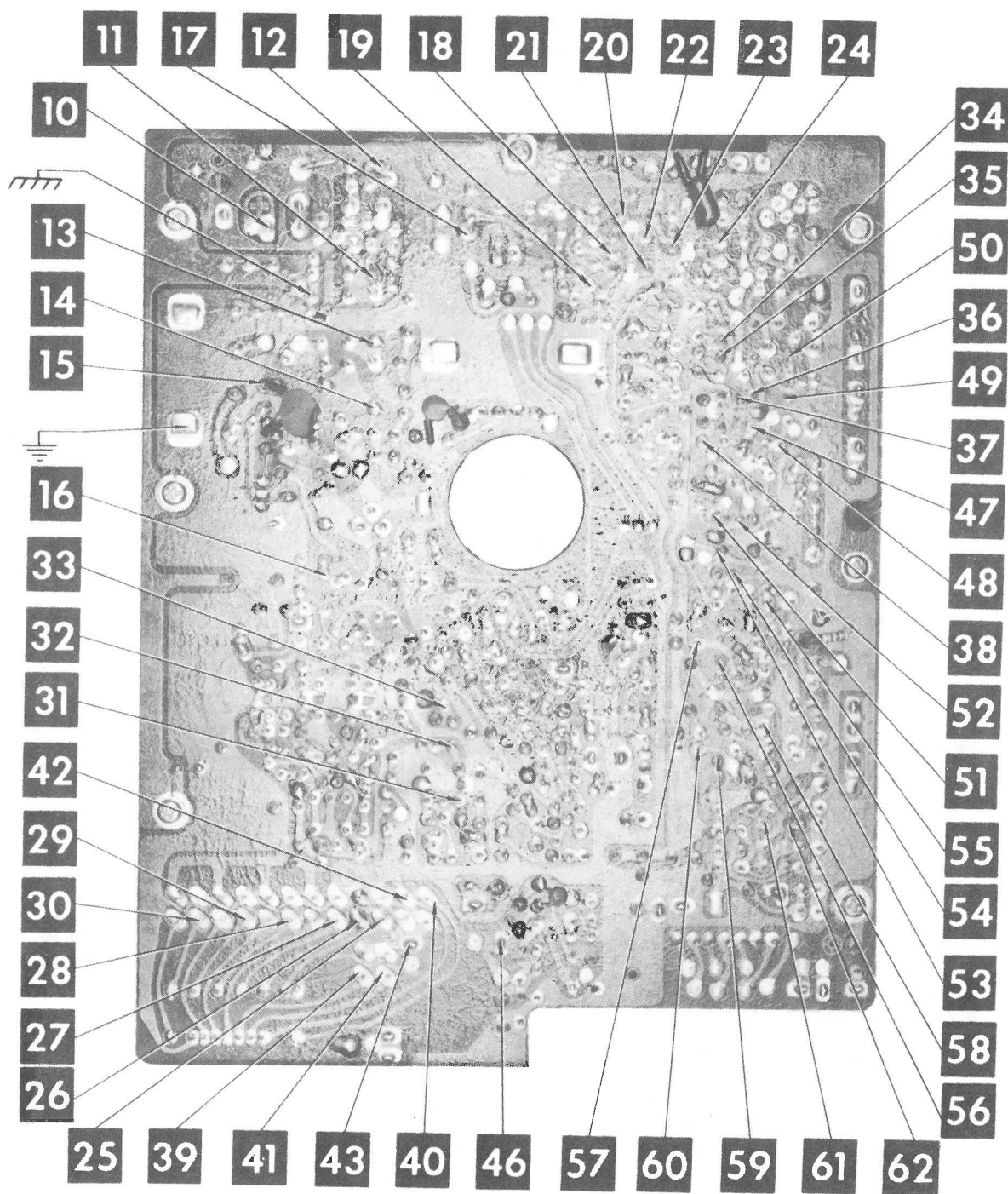


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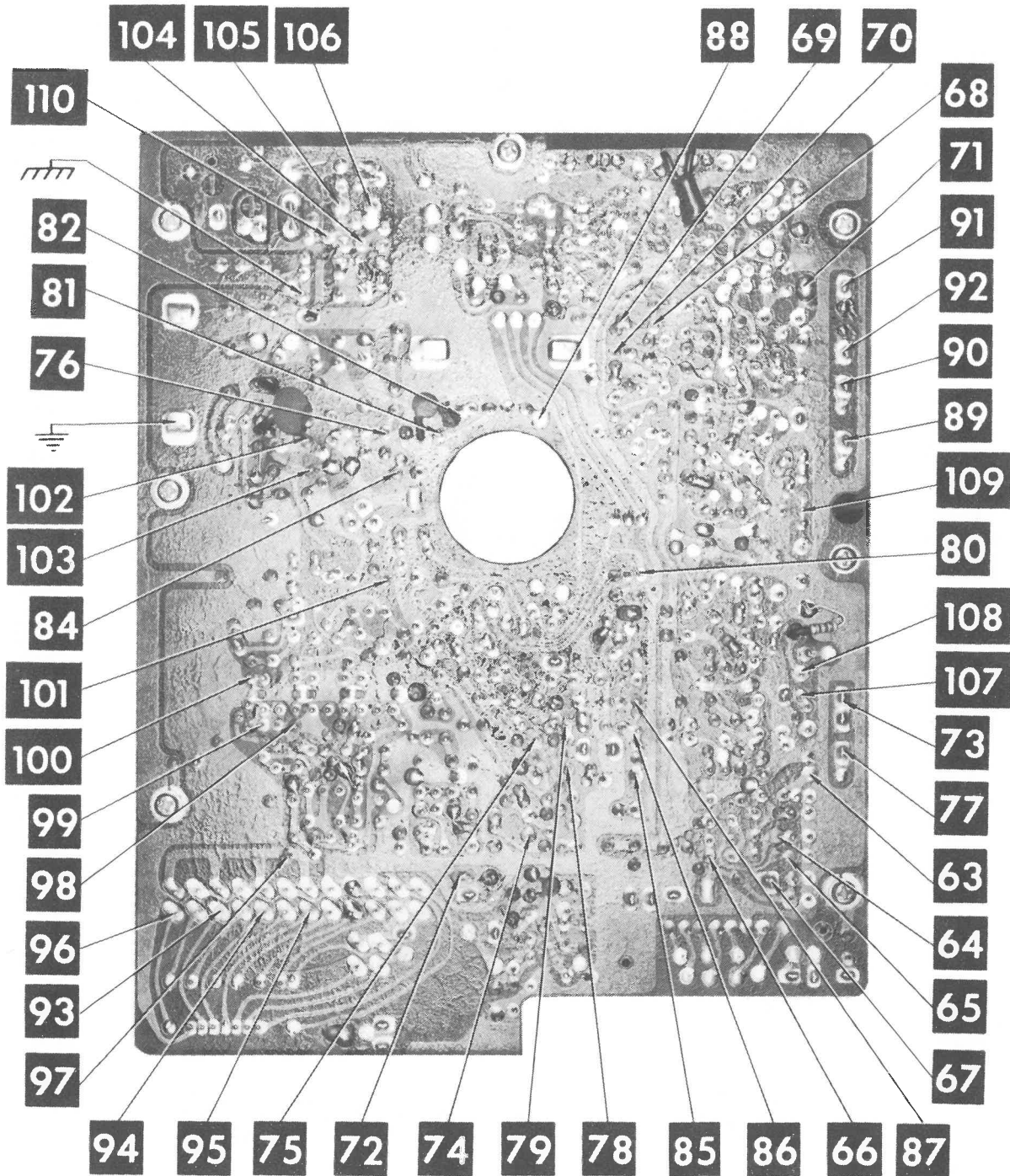


• Transmit

MAIN BOARD

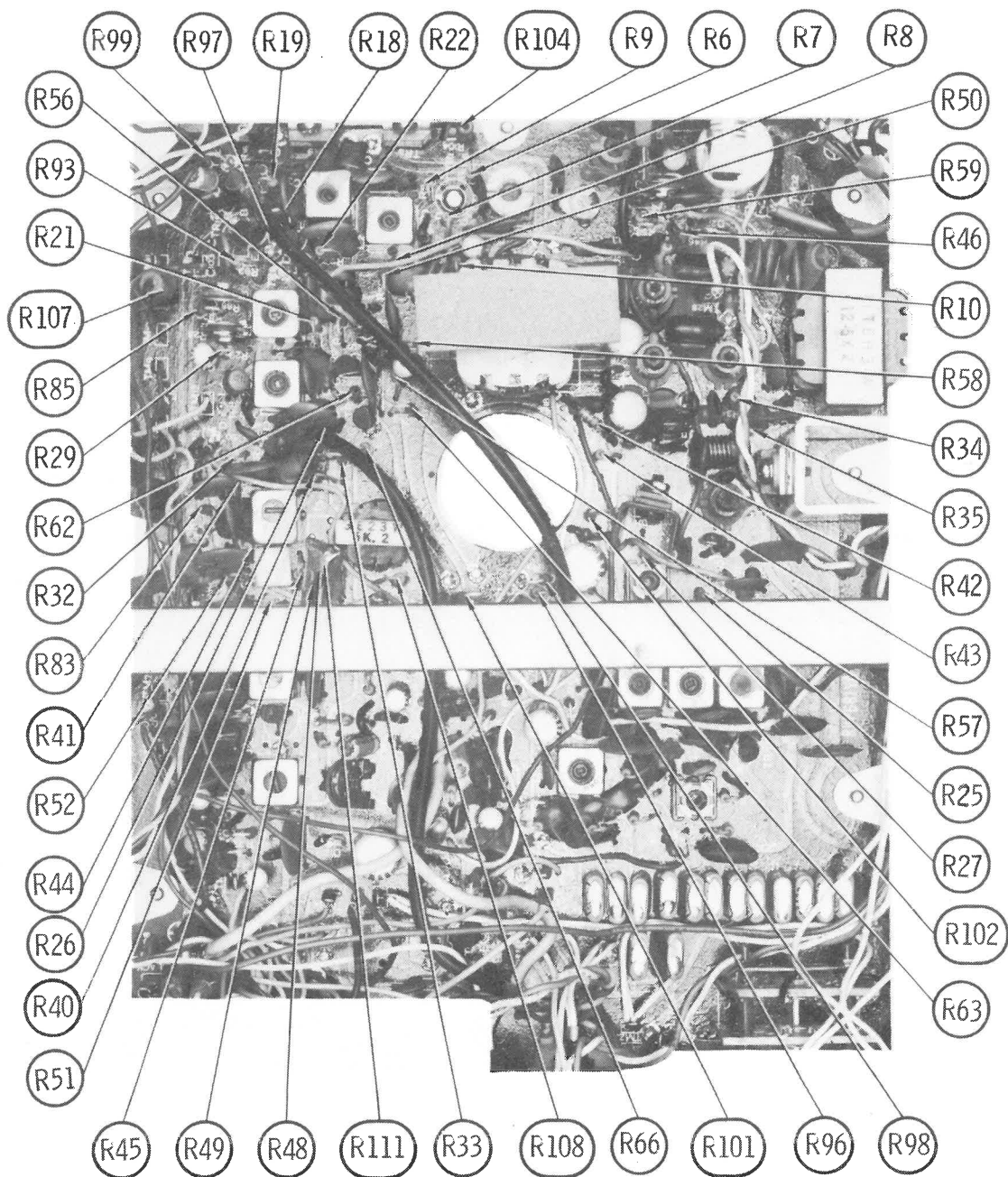


MAIN BOARD

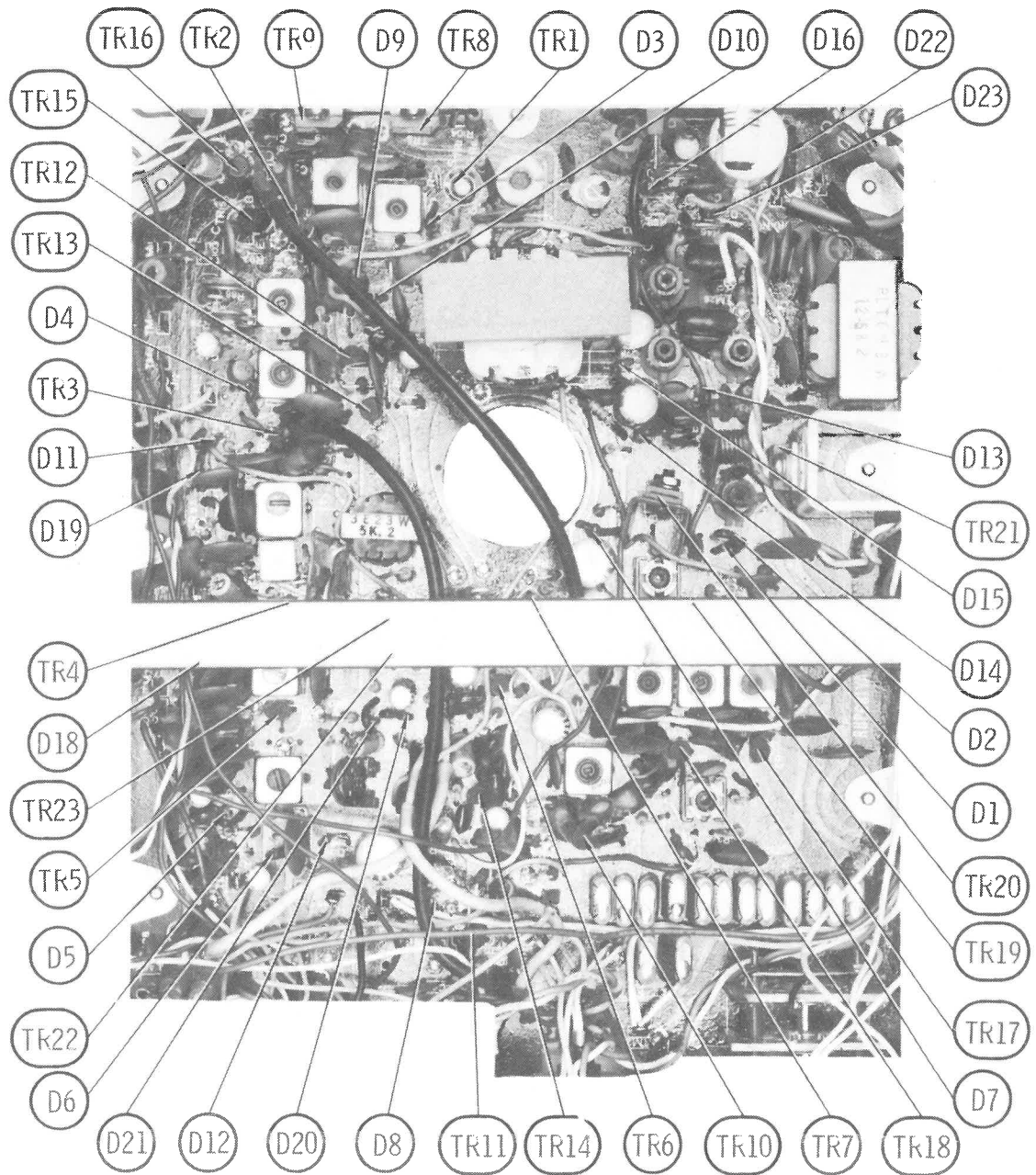


PANASONIC MODEL RJ-3200

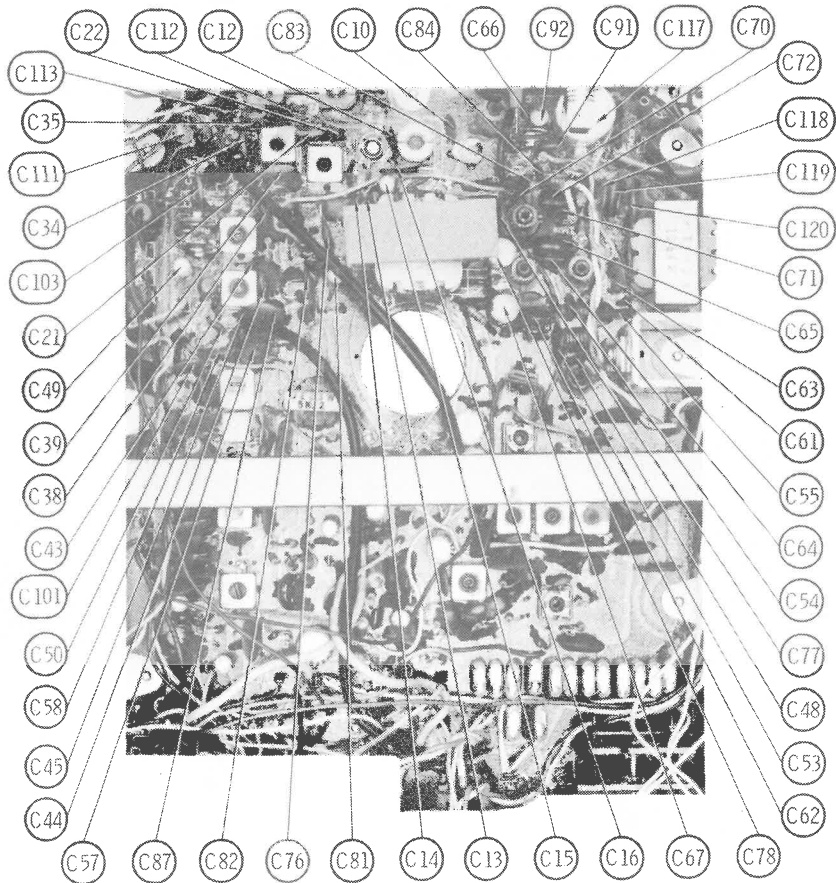
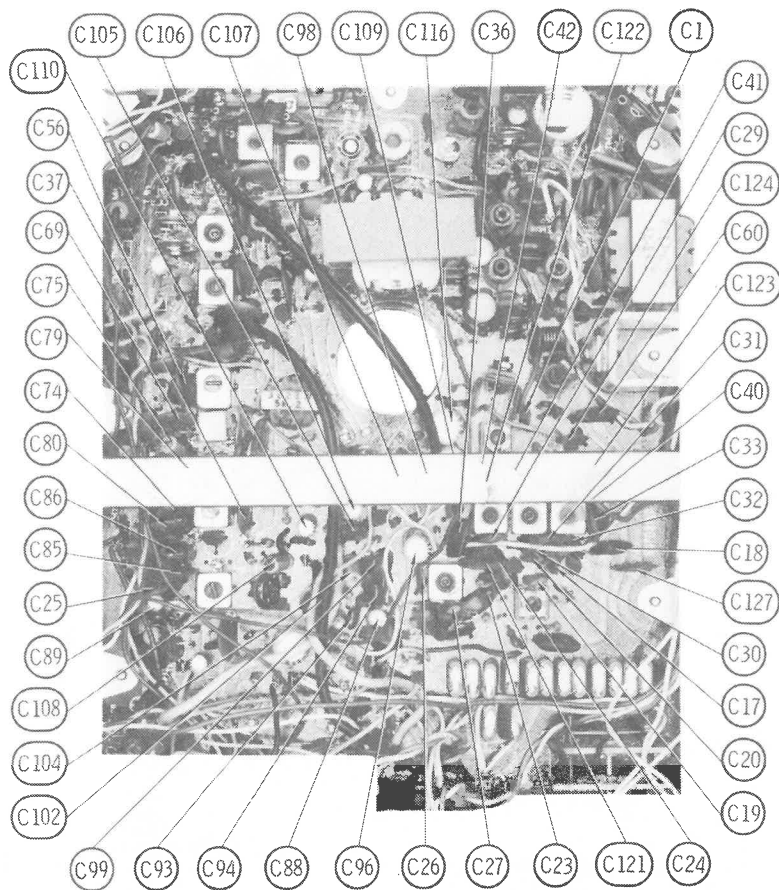
MAIN BOARD



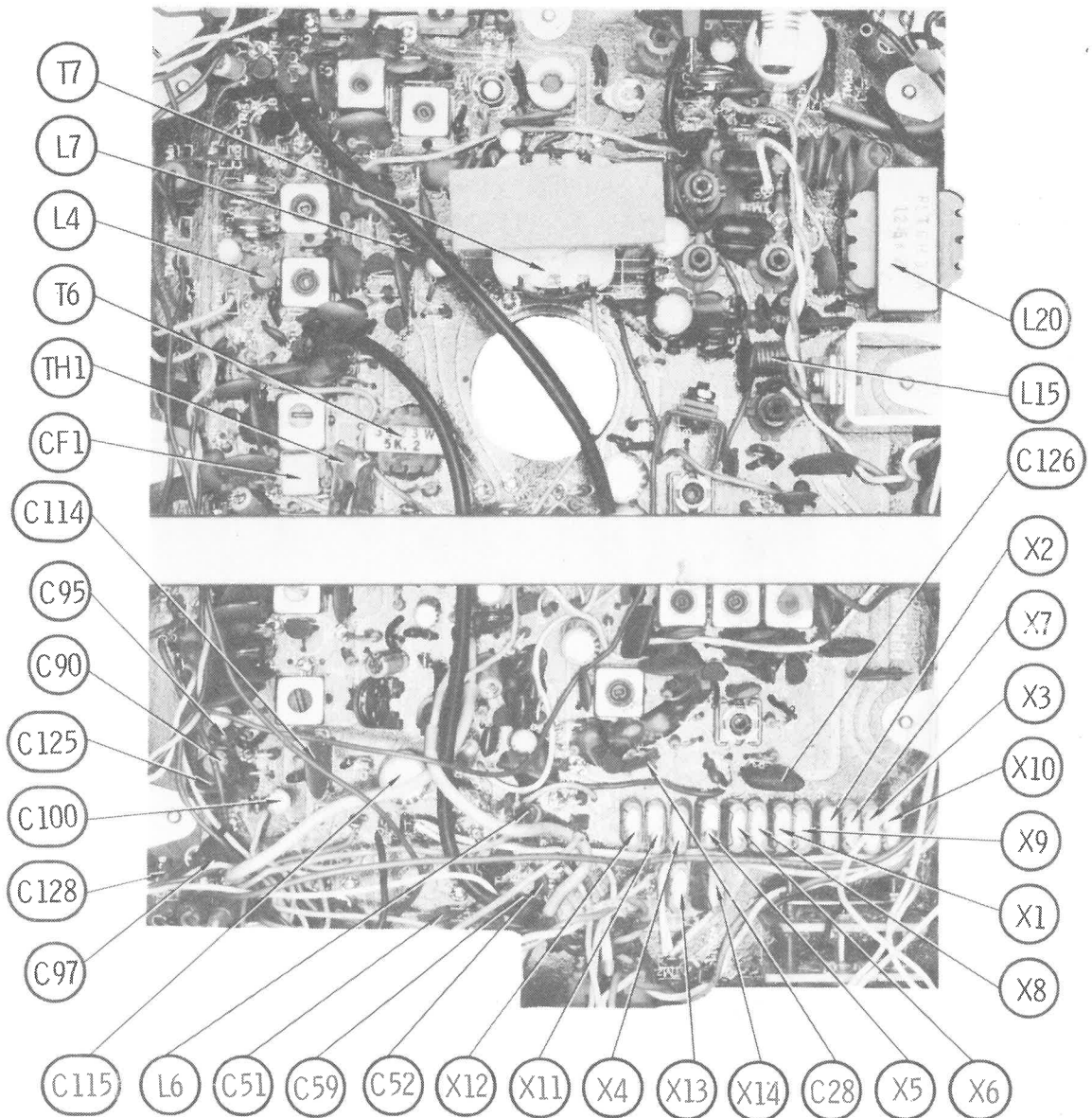
MAIN BOARD



MAIN BOARD

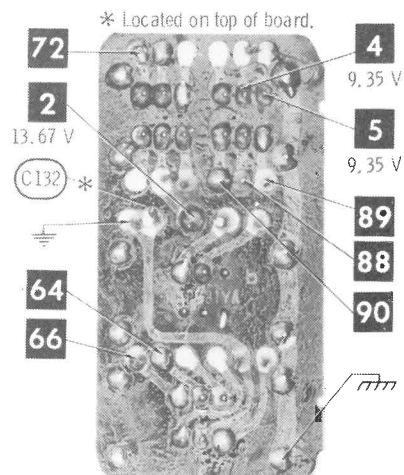


MAIN BOARD



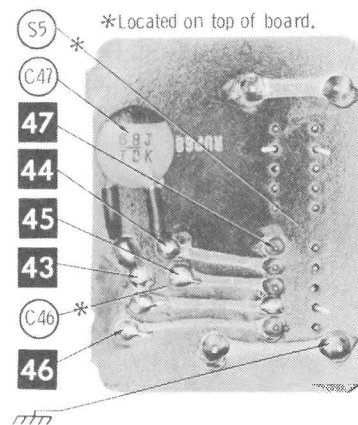
MAIN BOARD

A Howard W. Sams **CIRCUITRACE®** Photo



SWITCH BOARD

A Howard W. Sams **CIRCUITRACE®** Photo



DELTA TUNE BOARD

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D4	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	0A90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D7	1S1209									
D8	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D9	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D10	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	RVDRD9R1E		GE2D-9,1	Z1209	ZB9,1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D13	RVD10E1		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D14	RVD10E1		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D15	0A91		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D16	0A99		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D17	LN23									
D18	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D19	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D20	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D21	MA150		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D22	RVD10E1		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D23	0A90		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
TR1	3SK39R		GE-FET-4		PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR2	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR3	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR4	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR5	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR6	2SC828R		GE-61	(IR)2SC828A	PTC132	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR7	2SC1318Q	(10)	GE-210	TR-25	PTC123	HEPS0015	RE 17	SK3122	RT-172	ECG297
TR8	2SC1226Q	(10)	GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3192	RT-197	ECG186A
TR9	2SC1226Q		GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3192	RT-197	ECG186A
TR10	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR11	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR12	2SK49		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
TR13	2SC828R		GE-61	(IR)2SC828A	PTC132	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR14	2SC828R		GE-61	(IR)2SC828A	PTC132	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR15	2SC828R		GE-61	(IR)2SC828A	PTC132	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR16	2SA564R		GE-21	(IR)2SA564A	PTC127	HEPS0019	RE 193	SK3114	RT-126A	ECG234
TR17	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR18	2SC829B		GE-20	(IR)2SC829B	PTC136	HEPS0011	RE 9	SK3018	RT-105	ECG229
TR19	2SC478D		GE-219	TR-63	PTC179	HEPS0034	RE 79	SK3047	RT-182	ECG195A
TR20	2SC1957				PTC180					ECG295
TR21	2SC1909		GE-215	(IR)2SC828A	PTC186	HEPS0015	RE 203	SK3197	RT-107A	ECG235
TR22	2SC828R		GE-61	(IR)2SC828A	PTC132	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR23	2SC1317Q		GE-210	TR-21	PTC136	HEPS0025	RE 17	SK3122	RT-114	ECG289

(10) Rating, 10 watts @ 3.0 amps.

PANASONIC MODEL RJ-3200

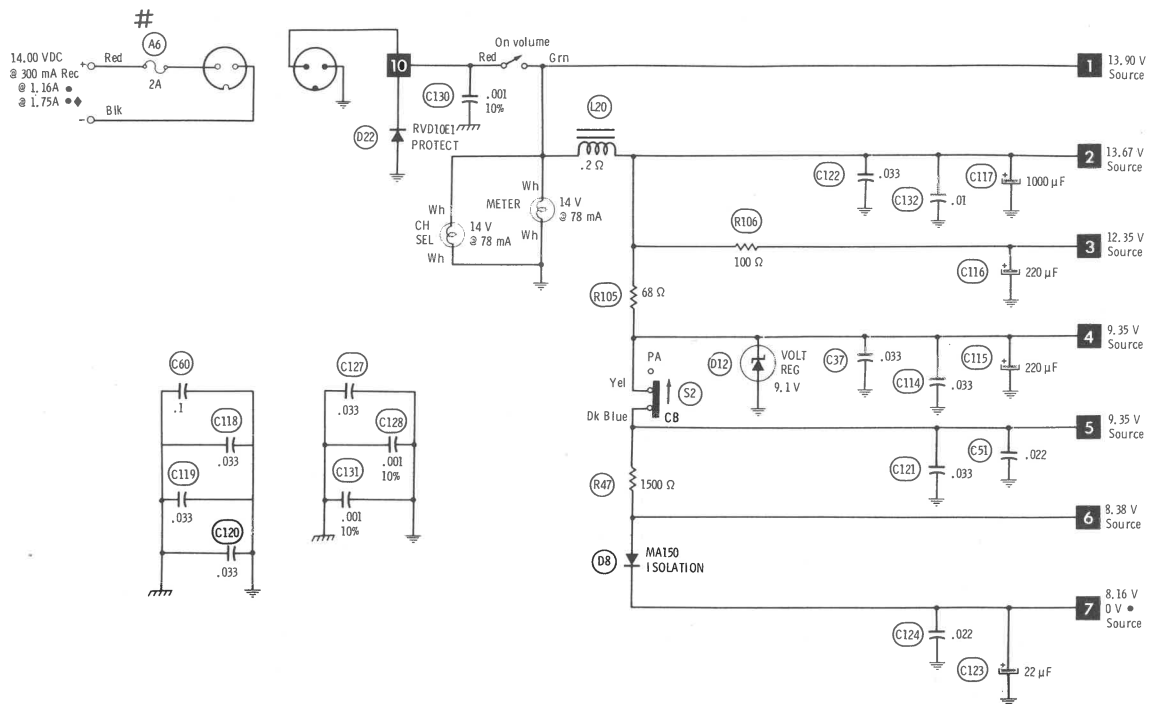
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C15	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C49	2.2 25V	ECEA50V2R2	PC2-100	VTT2R2A50	EV-1317
C67	33 25V	ECEA25V33	PC30-25	VTT3D25	EV-1325
C75	4.7 25V	ECEA35V4R7	PC5-50	VTT4R7A50	EV-1319
C78	33 25V	ECEA25V33	PC30-25	VTT3D25	EV-1325
C81	3.3 25V	ECEA50V3R3	PC5-50	VTT3R3A50	EV-1318
C88	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C89	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C90	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C92	2.2 25V	ECEA50V2R2	PC2-100	VTT2R2A50	EV-1317
C96	47 16V	ECEA16V47	PC50-16	VTT47D16	EV-1226
C98	.47 50V	ECEA50VR47LM	PC1-50	VTT47B63	EV-1610
C100	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C104	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C106	33 16V	ECEA16V33	PC30-25	VTT3D25	EV-1325
C107	.47 50V	ECEA50VR47LM	PC1-50	VTT47B63	EV-1610
C108	1 50V	ECEA50V1	PC1-50	VTT1B63	EV-1615
C109	47 16V	ECEA16V47	PC50-16	VTT47D16	EV-1226
C110	10 16V	ECEA16V10	PC10-25	VTT10A25	EV-1222
C111	2.2 25V	ECEA50V2R2	PC2-100	VTT2R2A50	EV-1317
C115	220 16V	ECEA16V220	PC250-25	VTT220G16	EV-1240
C116	220 16V	ECEA16V220	PC250-25	VTT220G16	EV-1240
C117	1000 16V	ECEA16V1000	PC30-50	MTA30E50	EV-1525
C123	2.2 25V	ECEA50V2R2	PC2-100	VTT2R2A50	EV-1317

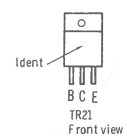
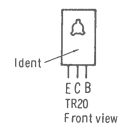
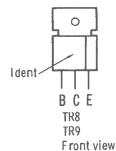
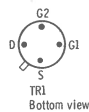
CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	22 5% NPO		DTZ-22	NP022	CN0422	10TCC-Q22
C10	47 5% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C11	50					
C12	100 5% NPO					
		EVC1ZW40X32	DTZ-100	NP0100	CN0310	10TCC-T10

(CONTINUED ON PAGE 80)



Terminal Guides



For SAFETY use only equivalent replacement part.

- ✕ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ✱ Nominal value
- ⊥ Ground
- Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:

- Squelch fully clockwise
- ◆ 100% modulation
- Transmit

Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates direction of advance.
Terminal identification may not be found on unit.
Resistors are 1/2W or less, 5% unless noted.
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE®

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Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X14, X10	7	X6, X12, X8	13	X4, X14, X10	19	X3, X12, X8
2	X1, X13, X9	8	X6, X11, X7	14	X4, X13, X9	20	X3, X11, X7
3	X1, X12, X8	9	X5, X14, X10	15	X4, X12, X8	21	X2, X14, X10
4	X1, X11, X7	10	X5, X13, X9	16	X4, X11, X7	22	X2, X13, X9
5	X6, X14, X10	11	X5, X12, X8	17	X3, X14, X10		
6	X6, X13, X9	12	X5, X11, X7	18	X3, X13, X9	23	X2, X11, X7

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C13	.022	ECCD1H680JR	UK50-223		MAG5012	
C14	.022		UK50-223		MAG5012	
C16	.033		DC-303	MGP03	GP130	TG-S30
C17	820 10%		DD-821	GP820	GP382	10TS-T82
C18	220 5%			CD15FD221J03	SX322	MWA-221
C19	68 5% N220				*	10TCR-Q68
C20	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C21	.01		UK50-103		MAG5011	
C22	12 NPO				CN0412	10TCC-Q12
C23	15 10%			CD15CD180J03		MS-418
C24	.01	ECCD1H390JR	UK50-103		MAG5011	
C25	.033		DC-303	MGP03	GP130	TG-S30
C26	.022		UK50-223		MAG5012	
C27	39 5% N220				*	10TCR-Q39
C28	100 5% NPO		DTZ-100	NP0100	CN0310	10TCC-T10
C29	100 5% N220				*	10TCR-T10
C30	2 NPO		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C31	100 5% N220				*	10TCR-T10
C32	3 NPO		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C33	150 5% N220				*	10TCR-T15
C34	.01	ECCD1H151JR	UK50-103		MAG5011	
C35	82 5% NPO		DTZ-82	NP082	CN0482	10TCC-Q82
C36	330 5%			CD15FD331J03	SX333	MWA-331
C37	.033		DC-303	MGP03	GP130	TG-S30
C38	.022		UK50-223		MAG5012	
C39	.022		UK50-223		MAG5012	
C40	150 10%			CD15FD151J03	SX315	MWA-151
C41	.033		DC-303	MGP03	GP130	TG-S30
C42	100 5% N220				*	10TCR-T10
C43	5 NPO		DTZ-4R7	NP04P7	CN0547	10TCC-V47
C44	.022	ECCD1H101JR	UK50-223		MAG5012	
C45	22 5% NPO		DTZ-22	NP022	CN0422	10TCC-Q22
C46	150 5%		DTZ-150		CN0315	10TCC-T15
C47	68 5% NPO		DTZ-68	NP068	CN0468	10TCC-Q68
C48	33 5% NPO		DTZ-33	NP033	CN0433	10TCC-Q33
C50	.001 10%		DD-102		GP210	10TS-D10
C51	.022		UK50-223		MAG5012	
C52	.001 10%		DD-102		GP210	10TS-D10
C53	180 5%			CD15FD181J03	SX318	MWA-181
C54	47 5% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C55	.1	ECCD1H151JR	CK-104		MAG5001	
C56	.033		UK50-333		MAG50133	
C57	470 5%			CD15FD471J03	SX347	424ME4700J501
C58	.022		UK50-223		MAG5012	
C59	180 5%			CD15D181J03	SX318	MWA-181
C60	.1		CK-104		MAG5001	
C61	12 NPO				CN0412	10TCC-Q12
C62	.039				M192P3939R8	192P3939R8
C63	.01		UK50-103		MAG5011	
C64	220 5%			CD15FD221J03	SX322	MWA-221
C65	300 5%	ECCD1H151JR		CD15FD271J03	SX327	MWB-271
C66	12 NPO				CN0412	10TCC-Q12
C69	.033		DC-303	MGP03	GP130	TG-S30
C70	3 NPO		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C71	100 5% NPO		DTZ-100	NP0100	CN0310	10TCC-T10
C72	150 10%			CD15FD151J03	SX315	MWA-151
C73	39 5%			CD15ED390J03	SX439	MWA-390
C74	.033		DC-303	MGP03	GP130	TG-S30
C76	150 5% N220				*	10TCR-T15
C77	.022	ECCD1H151JR	UK50-223		MAG5012	
C79	.033		DC-303	MGP03	GP130	TG-S30
C80	.033		DC-303	MGP03	GP130	TG-S30
C82	.033		DC-303	MGP03	GP130	TG-S30
C83	2 NPO		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C84	2 NPO		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C85	.1		CK-104		MAG5001	
C86	.01			WMF1S1	EW1A110	1PB-S10
C87	.01		UK50-103		MAG5011	
C91	.022		UK50-223		MAG5012	
C93	.022	ECCD1H151JR			M192P3939R8	192P3939R8
C94	.033				M192P3339R8	192P3339R8
C95	.01			WMF1S1	EW1A110	1PB-S10
C97	.022				M192P2239R8	192P2239R8
C99	.0047				M192P4729R8	192P4729R8
C101	.01		UK50-103		MAG5011	
C102	.039				M192P3939R8	192P3939R8
C103	.01		UK50-103		MAG5011	
C105	.047			DPMS2S47	EW1A147	1PB-S47
C112	.0068			WMF1D68	EW1A268	1PB-D68
C113	.0068	ECCD1H151JR		WMF1D68	EW1A268	1PB-D68
C114	.033		DC-303	MGP03	GP130	TG-S30
C118	.033		DC-303	MGP03	GP130	TG-S30
C119	.033		DC-303	MGP03	GP130	TG-S30
C120	.033		DC-303	MGP03	GP130	TG-S30
C121	.033		DC-303	MGP03	GP130	TG-S30
C122	.033		DC-303	MGP03	GP130	TG-S30
C124	.022		UK50-223		MAG5012	
C125	.01			WMF1S1	EW1A110	1PB-S10
C126	300 5%			CD15FD301J03	SX330	424ME3000J501
C127	.033	ECCD1H151JR	DC-303	MGP03	GP130	TG-S30
C128	.001		DD-102G	GP1000	GP210	5GA-D10
C129	.0015			DPMS6D15	EW16215	6PS-D15
C130	.001 10%		DD-102		GP210	10TS-D10
C131	.001 10%		DD-102		GP210	10TS-D10
C132	.01		UK50-103		MAG5011	
C134	12 NPO				CN0412	10TCC-Q12
C136	.001 10%		DD-102		GP210	10TS-D10
C137	68 5% NPO		DTZ-68	NP068	CN0468	10TCC-Q68

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R28	Noise Level	10K	EVLS1AA00B14				
R74	RF Meter	50K	EVLTOAA00B54				
R82	Volume/Switch	10K	EVHCBK30D14				
R84	S Meter	10K	EVLS1AA00B14				
R87	Squelch	10K	EVHCBK30B14				
R88	Squelch Range	1000	EVLTOAA00B13				
R94	Lamp Cal.	10K	EVLTOAA00B14				

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
TH1	68 Cold NTC		RRT103				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec. Ant. (27MHz)	RLA7R41-T			
L2	Rec. RF (27MHz)	RLA7C27-T			
L3	Rec. RF (27MHz)				
L4	RF Choke	RLQZ1511-Y			
L5	Synch Osc. (37MHz)	RL07C17-T			
L6	RF Choke	RLQZ2961-0			
L7	RF Choke	RLQZ6561-0			
L9	Xmit Osc. (10MHz)	RL07R20-T			
L10	Xmit Mixer (27MHz)	RLA7C29-T			
L11	Harmonic Suppressor (27MHz)	RLA7C29-T			
L12	Harmonic Suppressor (27MHz)	RLA7C28-T			
L13	Xmit Buffer (27MHz)	RLA7R42-T			
L14	Xmit Driver (27MHz)	RLA7Q10-T			
L15	Final Amp (27MHz)	RLQZ1131-0			
L16	Pi Filter (27MHz)	RLA7Q11-T			
L17	Pi Filter (27MHz)	RLA7Q11-T			
L18	Pi Filter (27MHz)	RLA7Q10-T			
L19	TVI Trap (54MHz)	RLA7Z1-0			
L21	TVI Trap (81MHz)	RLA7Q11-T			
T1	Rec. Mixer (10MHz)	RLD7C8-T			
T2	Rec. Mixer (10MHz)	RLD7C8-T			
T3	IF (455kHz)	RLI7C17-T			
T4	IF (455kHz)	RLI2C246-T			
T5	IF (455kHz)	RLI2C446-T			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L20	1.75A	.2	.6mH	RLT6H3-W			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T6	3	1		RLT3E23-W			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T7	32	8	RLT4I2-W			

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP	3" PM, 8 Ohms	EAS8P65G	30A05Z8	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA							
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	
F1	2A, Fast-acting	XBAT1E20NR5		AGC2	HDJ	312002	150145	FG2-2	

For SAFETY use only equivalent replacement part.

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA							
	MFR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black	
MIC	RJM128ZA	18-032	18-034	18-010	18-092	2	4	3	1	NC	4	

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1	37.600	RVCX37600Z3Z (1) RVCX37600Y3Z (2)	DA20W37.600	1,2,3,4	X5	37.700	RVCX37700Z3Z (1) RVCX37700Y3Z (2)	DA20W37.700	9,10,11,12
X2	37.850	RVCX37850Z3Z (1) RVCX37850Y3Z (2)	DA20W37.850	21,22,23	X6	37.650	RVCX37650Z3Z (1) RVCX37650Y3Z (2)	DA20W37.650	5,6,7,8
X3	37.800	RVCX37800Z3Z (1) RVCX37800Y3Z (2)	DA20W37.800	17,18,19,20	X7	10.625	RVCX10625Z1T (1) DB160W10.625 (2)	DB90W10.625	4,8,12,16,20,23
X4	37.750	RVCX37750Z3Z (1) RVCX37750Y3Z (2)	DA20W37.750	13,14,15,16	X8	10.615	RVCX10615Z1T (1) DB160W10.615 (2)	DB90W10.615	3,7,11,15,19
					X9	10.595	RVCX10595Z1T	DB160W10.595	2,6,10,14,18,22
					X10	10.635	RVCX10635Z1T	DB160W10.635	1,5,9,13,17,21
					X11	10.140	RVCX10140Z1R	DC90W10.140	4,8,12,16,20,23
					X12	10.160	RVCX10160Z1R	DC90W10.160	3,7,11,15,19
					X13	10.170	RVCX10170Z1R	DC90W10.170	2,6,10,14,18,22
					X14	10.180	RVCX10180Z1R	DC90W10.180	1,5,9,13,17,21

(1) Use when C126 is 150pF.

(2) Use when C126 is .0022uF.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Front Cover Assembly	RYPJ3200M	Knob, Control	RBN356ZK
Cabinet Cover Assembly	RYFJ3200MO	Knob, Channel Selector	RBN357ZK
Cabinet Cover, Upper Side	RKF134A0	Channel Indicator Assembly	RYDJ3200M
Rear Panel	RKF298Z8	Mounting Bracket	RKC33Z-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	EFCL455K40B1	455kHz
M1	Meter	RSM2305Z	S/RF
S2	Switch	RST2D01Z-P	CB/PA
S3	Switch	RST2B01Z-P	NB/ANL
S5	Switch	RSR3D03ZK-A	Delta Tune
S7	Switch	ESRN24RK30DE	Channel Selector
	Power Cord	1JFRJ3200M-1	DC
	Printed Circuit Board	RUP681Zb	NB/ANL, Tone
	Printed Circuit Board	RUP681Zc	On Air Lamp
	Printed Circuit Board	RUP681YA	Main

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord, 2-Wire	8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type)
	8237 Low-loss (RG-8/U)
	8240 (Solid) Miniature (RG-58/U)
	8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)