

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.



MODEL RJ-3600

MANUFACTURER'S SPECIFICATIONS

PANASONIC MODEL RJ-3600

Power Source

120 V (60 Hz), AC
13.8 V, DC

Receiver Section

Frequency Range: 26.965 MHz to 27.405 MHz
Sensitivity: Less than -6 dB (0.5 mV) for 10 dB S/N at 1 kHz, 30% modulation
Selectivity: Bandwidth 5 kHz min. for 6 dB
Adjacent Channel Rejection: 55 dB
Audio Distortion at 1 kHz: Less than 10% at 2 W
Cross Modulation Rejection: Better than 45 dB

Transmitter Section

Frequency Range: 26.965 MHz to 27.405 MHz
Power Output at 13.8 V, DC: 4 W max.
Modulation: Less than 100%
Emission (Class D Operation): 6A3
Spurious Emission: -60 dB
Frequency Tolerance: $\pm 0.005\%$

Speaker: 4" (10 cm) PM Dynamic Speaker
Dimensions: $13\frac{5}{8}"$ (Wide) $\times$ $5\frac{1}{4}"$ (High) $\times$ $8\frac{1}{8}"$ (Deep) (337 $\times$ 133 $\times$ 220 mm)
Weight: 10 lb. 6 oz. (4.7 kg) with Microphone
Impedance: Microphone Jack 700 Ω
Speaker 8 Ω
EXT Speaker Jack 8 Ω
Antenna Jack 50 Ω

Courtesy of the Manufacturer

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

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9CE991

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.
Adjust R171 for 13.8-volts DC output at TP14 (TR33 emitter).
Connect low sides of test equipment to ground unless specified otherwise.
Connect 50-ohm dummy load or antenna before keying transmitter.
Suggested Alignment Tools: GC Electronics:
T1 thru T14.....5000,5009,8276,8728,9089
L7,L10,L11.....8606,9091,9440
FL1.....9300,9302,9304
C28,C37,C88.....5000,8276,9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP12 (TR22 emitter).	Ch. 19		Check for 10.240MHz $\pm$ 650Hz.
Input of oscilloscope to TP6 (T13 secondary).	Ch. 19	T13	Adjust for maximum RF (210mV p-p typical). (See Figure 1.)
Input of frequency counter to TP6 (T13 secondary).	Ch. 19	C89	Adjust for 35.7400MHz $\pm$ 300Hz.
Input of DC meter to TP5 (Junction of R132 and R22).	Ch. 40	C28	Adjust for 3.00 volts $\pm$.1 volt. Check for approximate 1.00 volt on channel 1.
Input of frequency counter to TP13 (IC4 Pin 13).	Ch. 1		Check for 1.920MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP4 (T4 secondary).	Ch. 19	T4	Adjust for maximum RF (60mV p-p Typical) (See Figure 2.)
Input of frequency counter to TP4 (T4 secondary).	Ch. 1		Check for 37.660MHz. If necessary readjust C89 for correct frequency. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP11 (CF1 Pin 1).	Ch. 19, XMT	C37	Adjust for 10.695MHz $\pm$ 300Hz.
Input of frequency to antenna input.	Ch. 1, XMT		Check for 26.965MHz $\pm$ 600Hz. If necessary readjust C37 for correct frequency. Check all channels. (See page 4 for channel frequencies.)

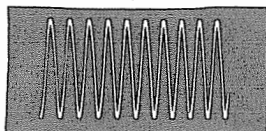


FIGURE 1

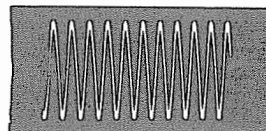


FIGURE 2

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting. Preset controls as follows, unless otherwise noted:
RF Gain Maximum, Squelch MINIMUM, NB/ANL Off, Preset Channel Off

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP2 (TR18 Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T14,T12,T11	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19	T8,T3,T2,T1	Adjust for maximum output. Readjust T11, T12 and T14 for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Preset controls as follows, unless otherwise noted:
RF Gain Maximum, Squelch MINIMUM, NB/ANL Off, Preset Channel Off

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 19, Squelch Maximum	R46	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 19	R143	SIGNAL METER Adjust for 9 on Signal scale of S/RF Power Meter.
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Volume Maximum	R163	VU METER Adjust for 8.5 on VU scale of VU/Mod Meter.

TRANSMITTER ALIGNMENT

Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input.	Ch. 19	T5,T6,T7, T9,T10,L7	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19	L10,FL1,L11	Adjust for 4.0 watts RF output maximum.

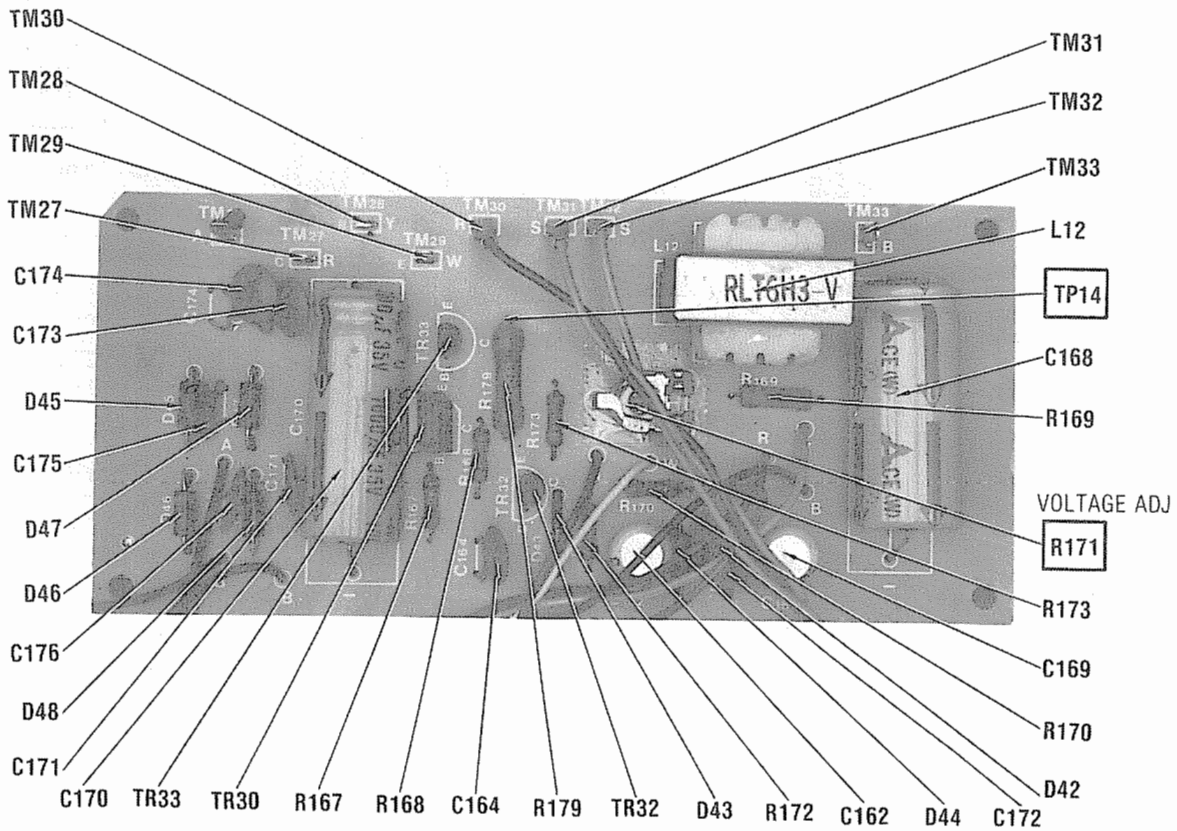
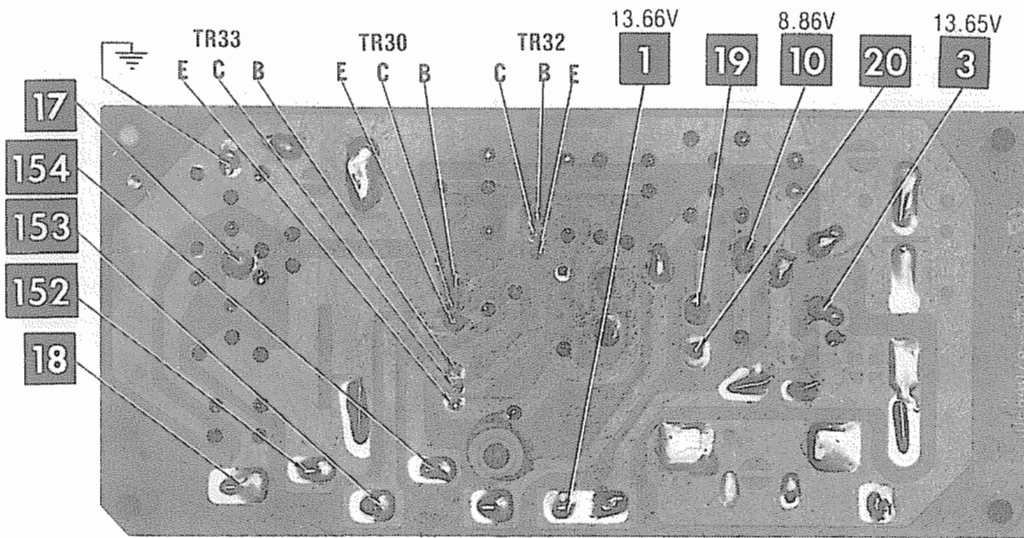
TRANSMITTER ADJUSTMENTS

Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of DC meter to TP10 (Junction of D11 and D12). Adjust in receive mode.	Ch. 19	R94	AMC Adjust for .75 volt $\pm$.02 volt.
Input of RF wattmeter to antenna input.	Ch. 19	R146	RF POWER METER Adjust so meter needle rests in the middle of red area on RF Power Scale of S/RF Power Meter.

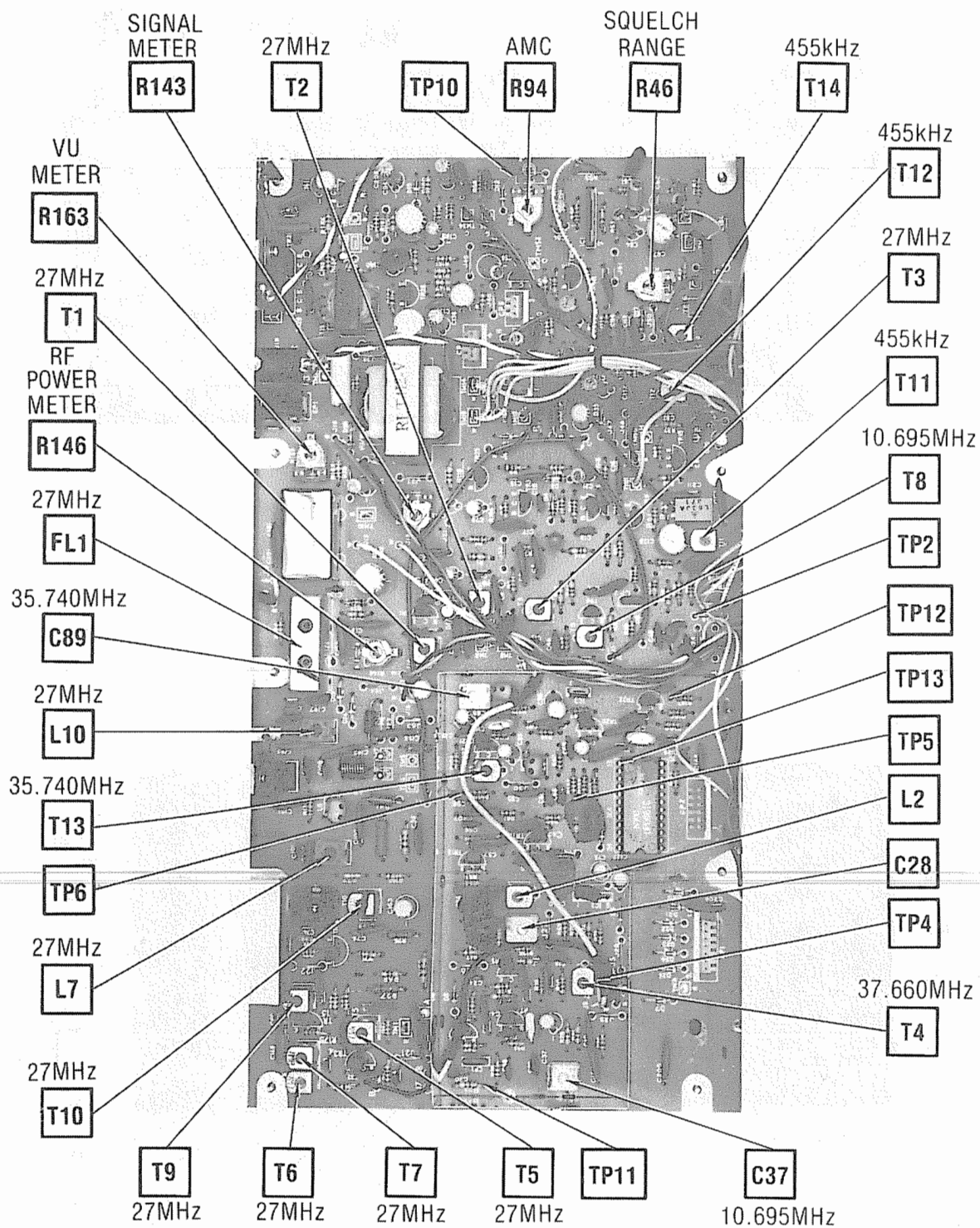
TRUTH CHART

C H A N N E L	1 = 5.00 Volts 0 = 0 Volts CHANNEL INPUT CODES IC4								DIVIDER INPUT IN MHz AT TP13	Rec and XMT VCO OUTPUT IN MHz AT TP4
	PINS									
	8	7	6	5	4	3	2	1		
1	1	1	0	0	0	0	0	0	1.920	37.660
2	1	1	0	0	0	0	0	1	1.930	37.670
3	1	1	0	0	0	0	1	0	1.940	37.680
4	1	1	0	0	0	1	0	0	1.960	37.700
5	1	1	0	0	0	1	0	1	1.970	37.710
6	1	1	0	0	0	1	1	0	1.980	37.720
7	1	1	0	0	0	1	1	1	1.990	37.730
8	1	1	0	0	1	0	0	1	2.010	37.750
9	1	1	0	0	1	0	1	0	2.020	37.760
10	1	1	0	0	1	0	1	1	2.030	37.770
11	1	1	0	0	1	1	0	0	2.040	37.780
12	1	1	0	0	1	1	1	0	2.060	37.800
13	1	1	0	0	1	1	1	1	2.070	37.810
14	1	1	0	1	0	0	0	0	2.080	37.820
15	1	1	0	1	0	0	0	1	2.090	37.830
16	1	1	0	1	0	0	1	1	2.110	37.850
17	1	1	0	1	0	1	0	0	2.120	37.860
18	1	1	0	1	0	1	0	1	2.130	37.870
19	1	1	0	1	0	1	1	0	2.140	37.880
20	1	1	0	1	1	0	0	0	2.160	37.900
21	1	1	0	1	1	0	0	1	2.170	37.910
22	1	1	0	1	1	0	1	0	2.180	37.920
23	1	1	0	1	1	1	0	1	2.210	37.950
24	1	1	0	1	1	0	1	1	2.190	37.930
25	1	1	0	1	1	1	0	0	2.200	37.940
26	1	1	0	1	1	1	1	0	2.220	37.960
27	1	1	0	1	1	1	1	1	2.230	37.970
28	1	1	1	0	0	0	0	0	2.240	37.980
29	1	1	1	0	0	0	0	1	2.250	37.990
30	1	1	1	0	0	0	1	0	2.260	38.000
31	1	1	1	0	0	0	1	1	2.270	38.010
32	1	1	1	0	0	1	0	0	2.280	38.020
33	1	1	1	0	0	1	0	1	2.290	38.030
34	1	1	1	0	0	1	1	0	2.300	38.040
35	1	1	1	0	0	1	1	1	2.310	38.050
36	1	1	1	0	1	0	0	0	2.320	38.060
37	1	1	1	0	1	0	0	1	2.330	38.070
38	1	1	1	0	1	0	1	0	2.340	38.080
39	1	1	1	0	1	0	1	1	2.350	38.090
40	1	1	1	0	1	1	0	0	2.360	38.100

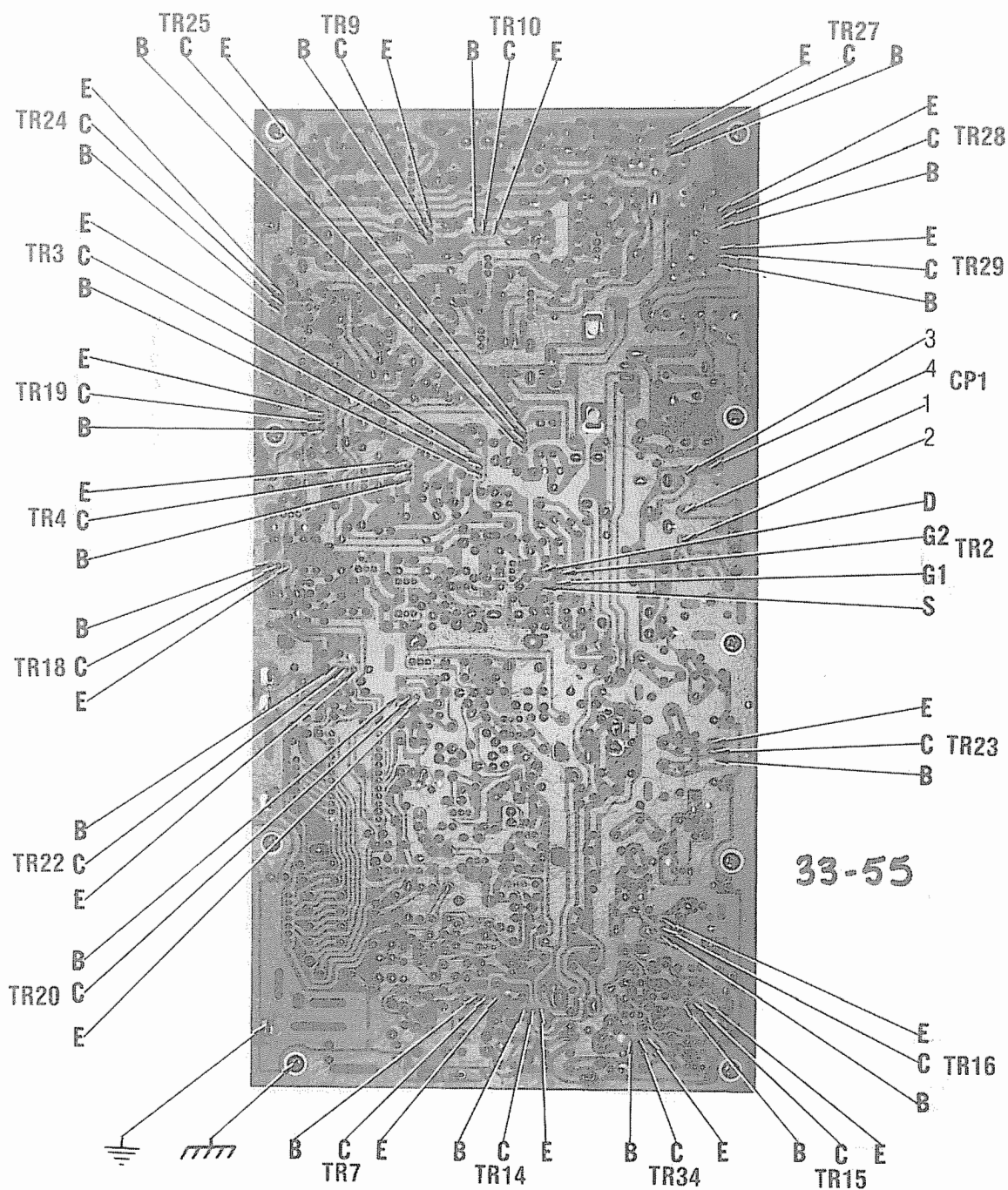


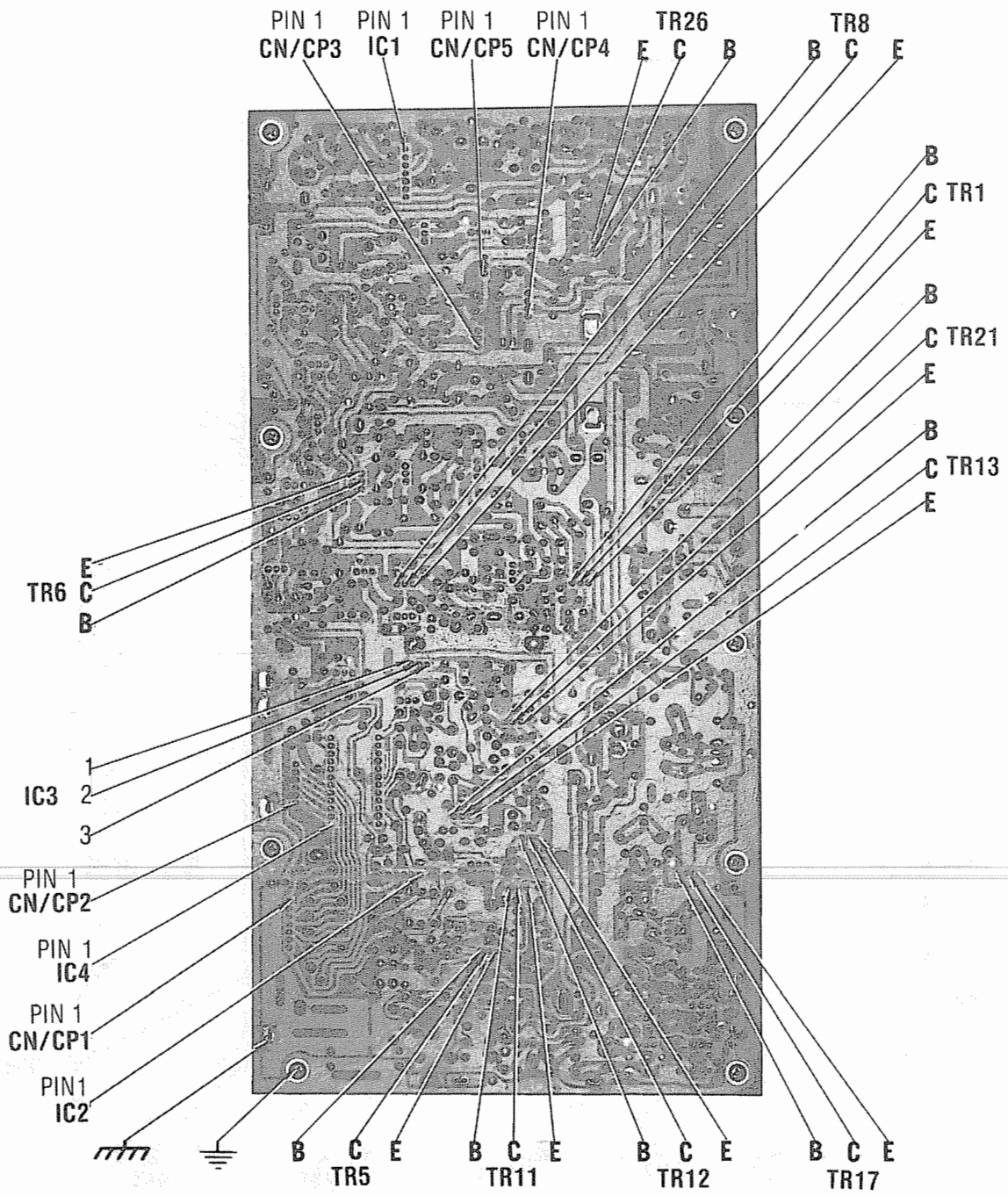
POWER SUPPLY BOARD

PANASONIC MODEL RJ-3600

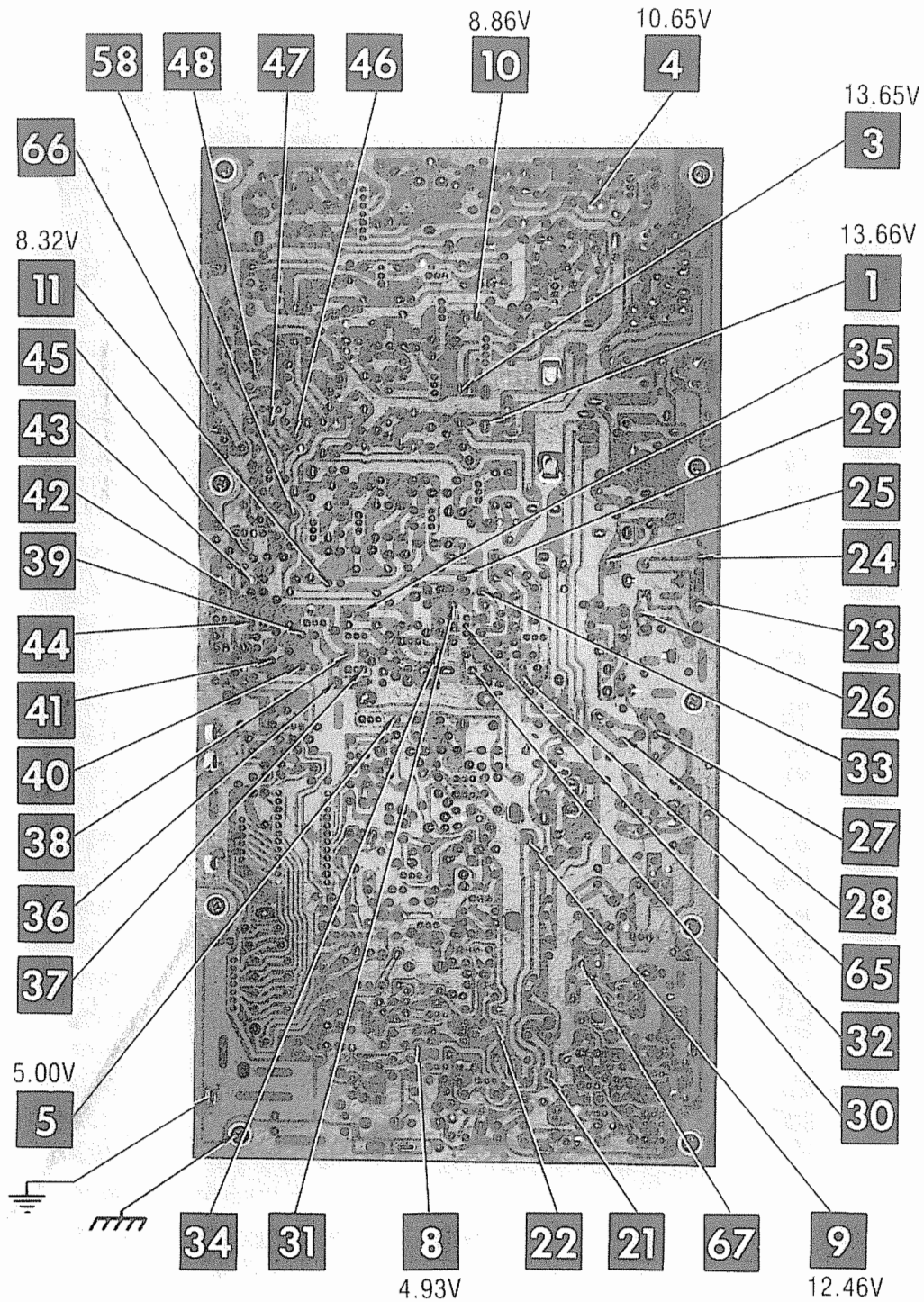


MAIN BOARD



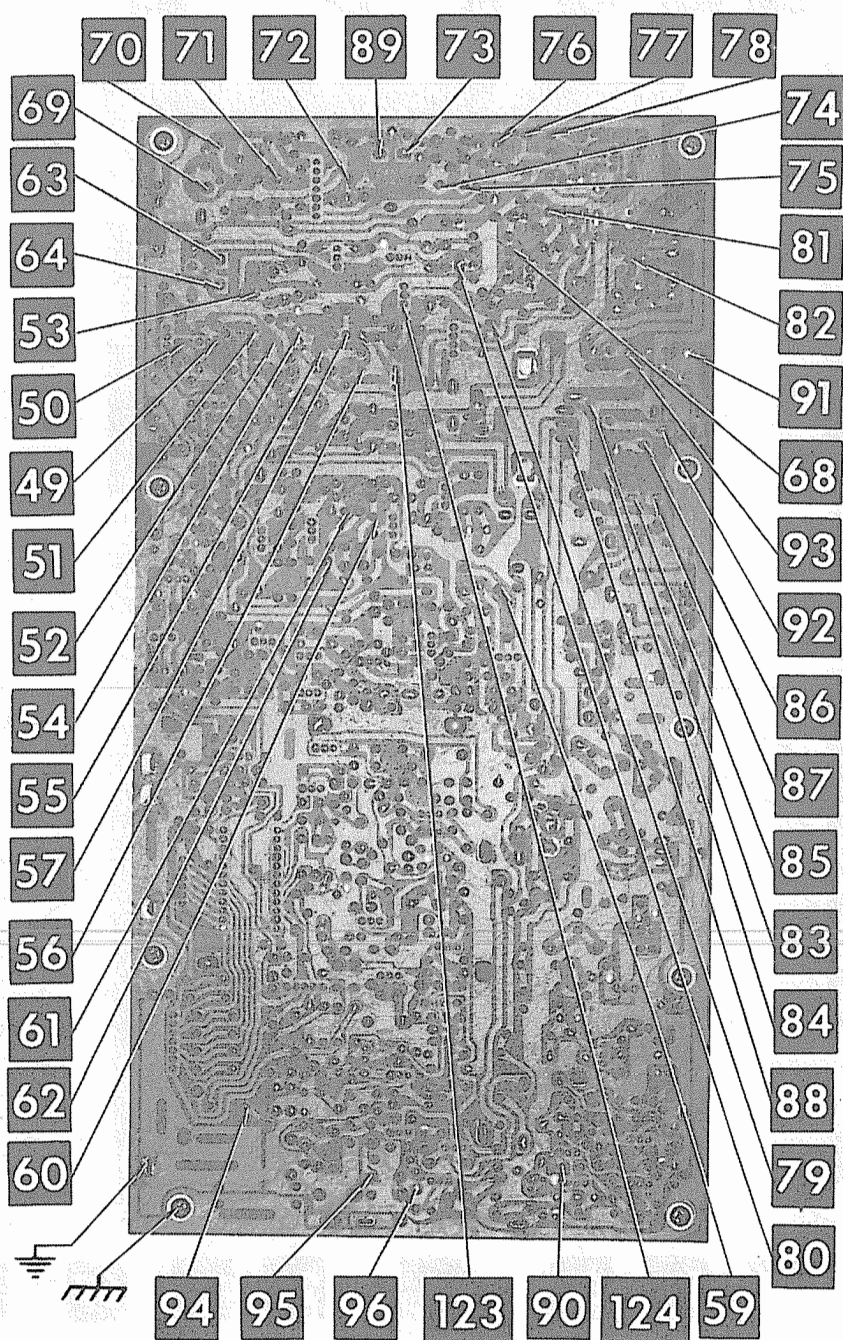


MAIN BOARD

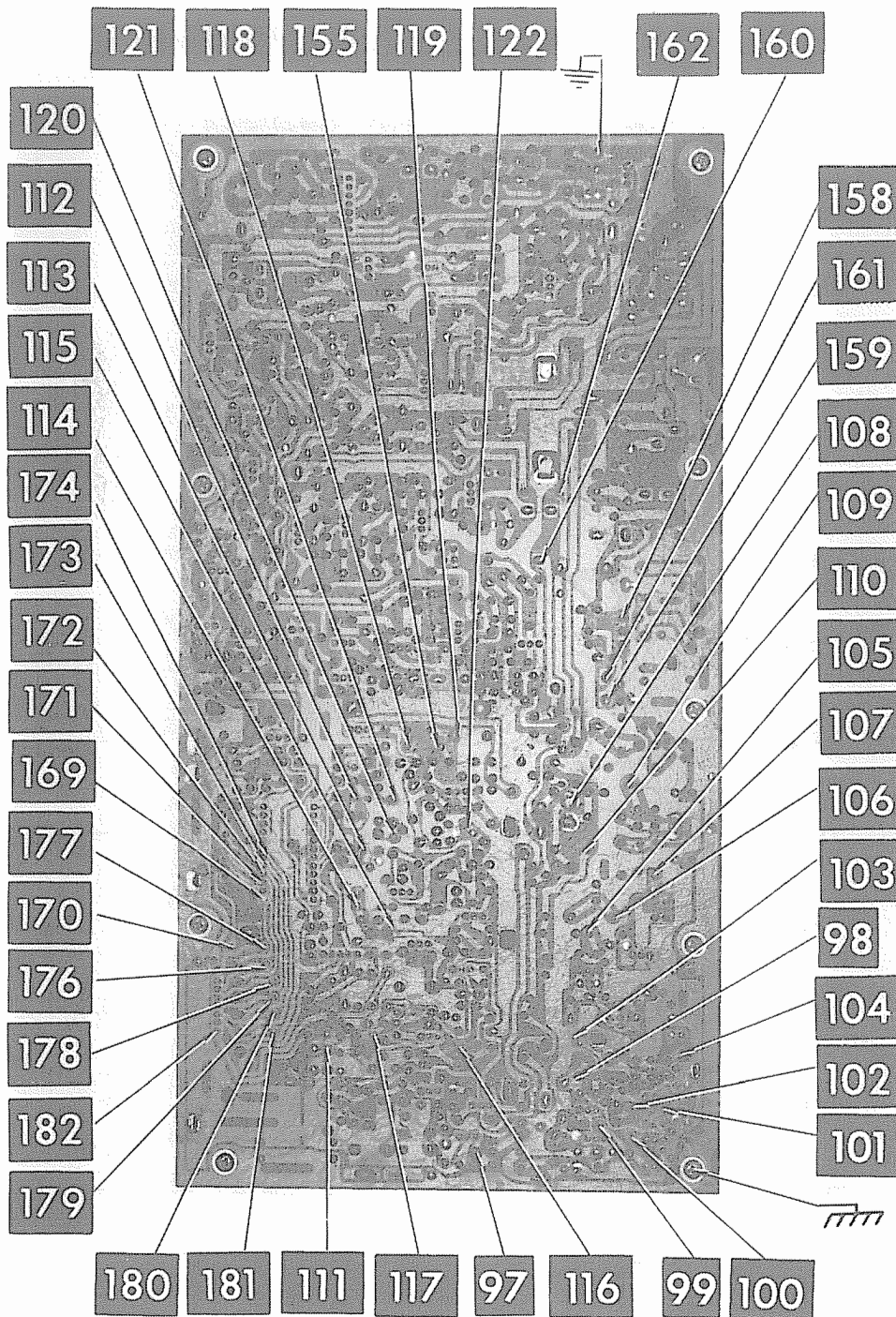


PANASONIC MODEL RJ-3600

MAIN BOARD

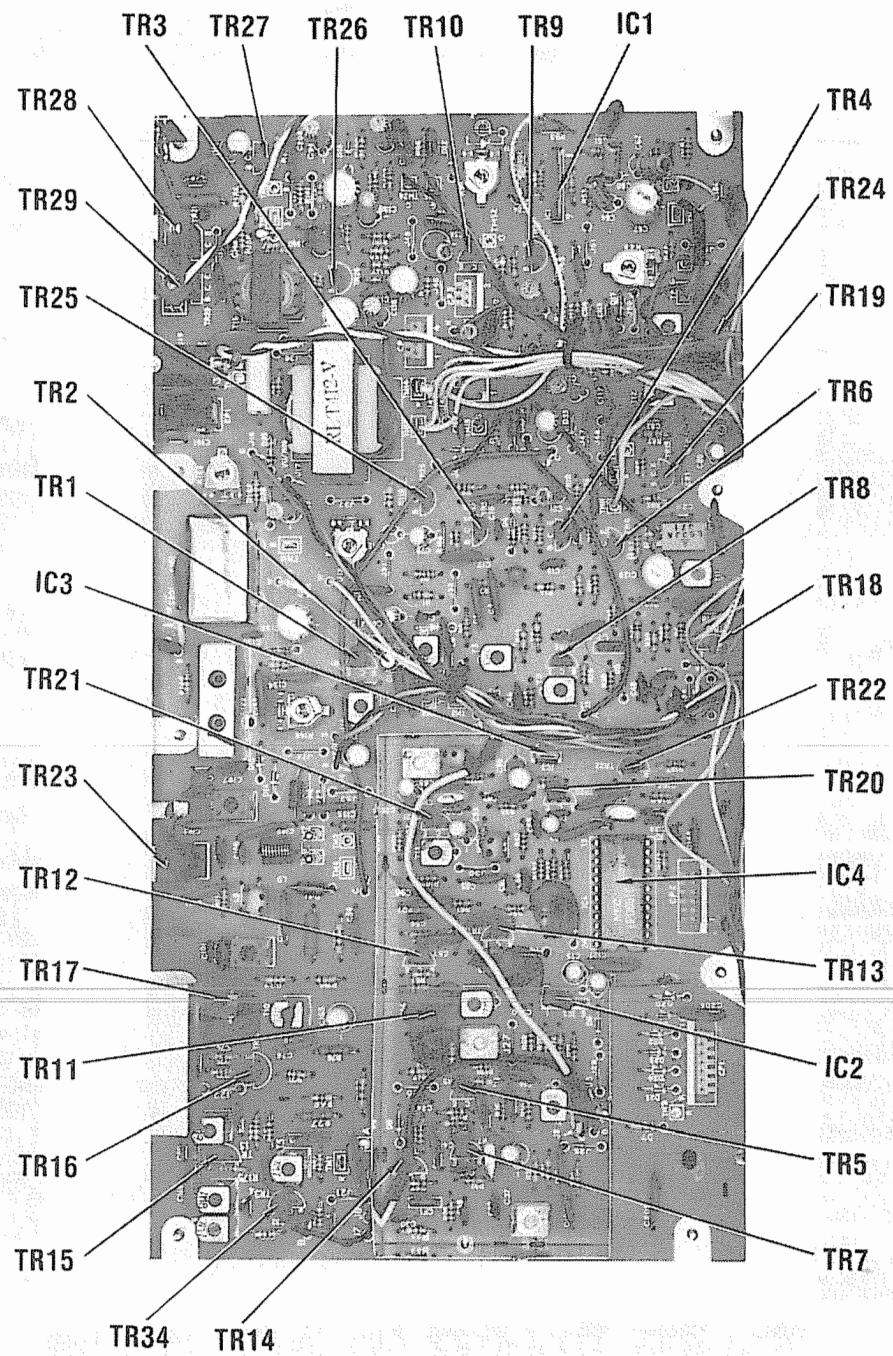


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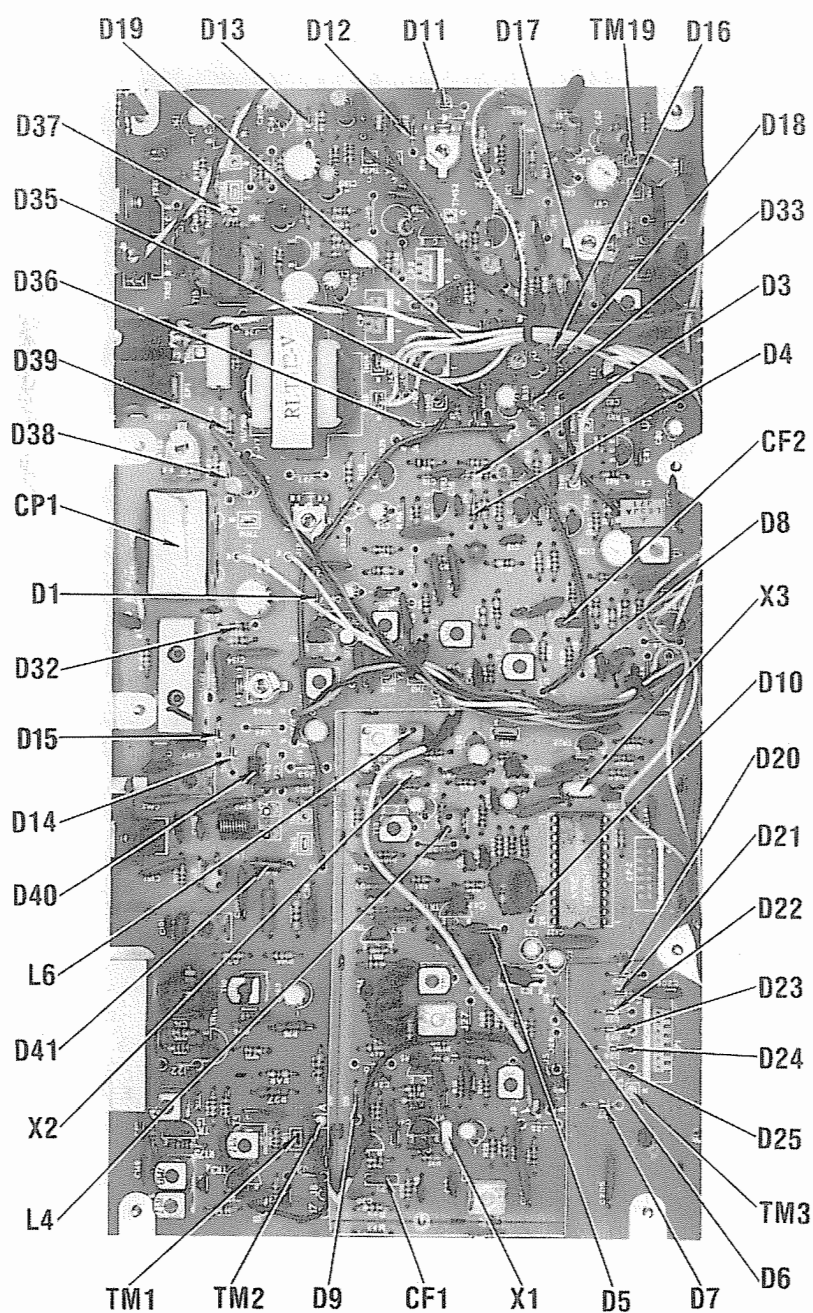


PANASONIC MODEL RJ-3600

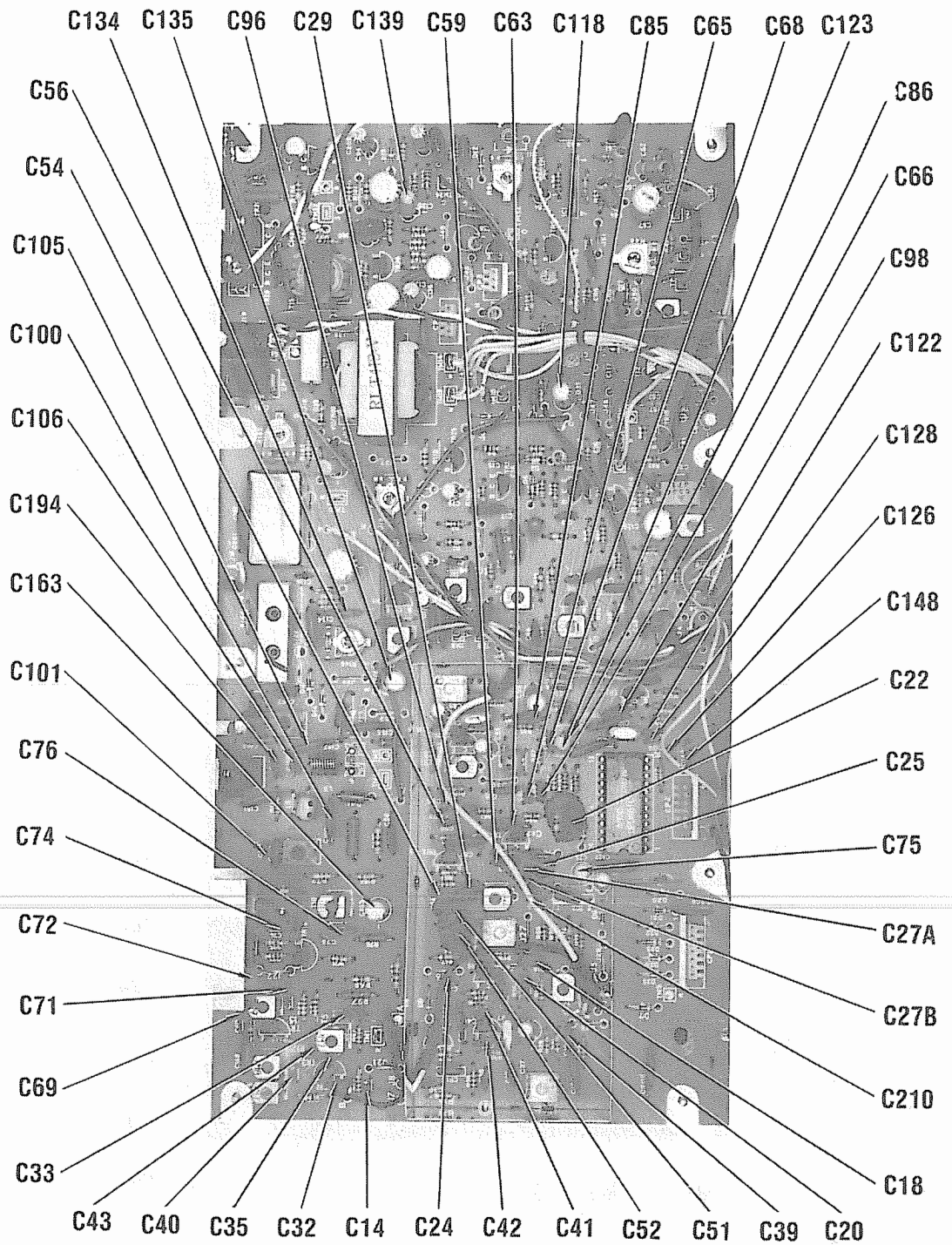
MAIN BOARD



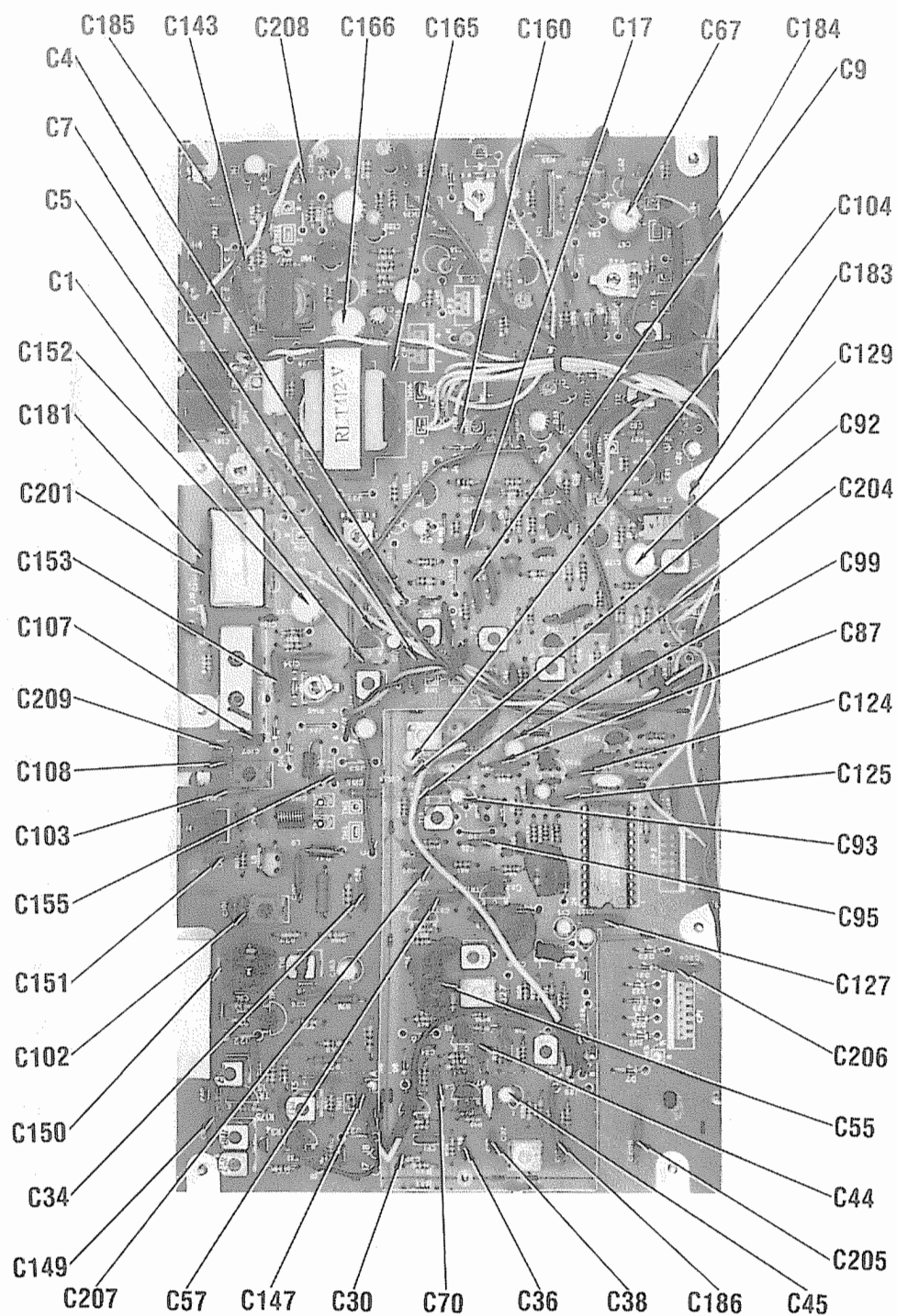
MAIN BOARD



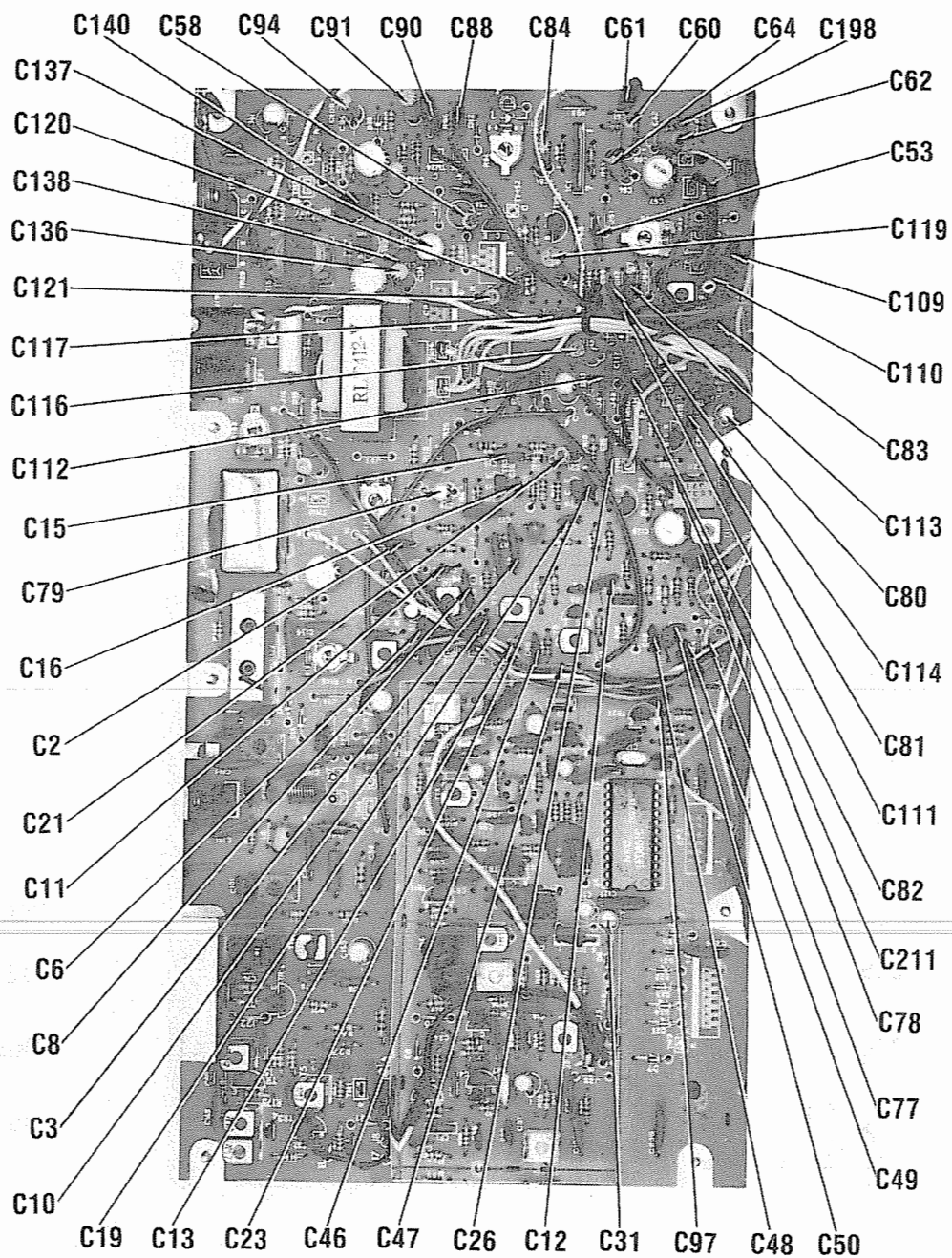
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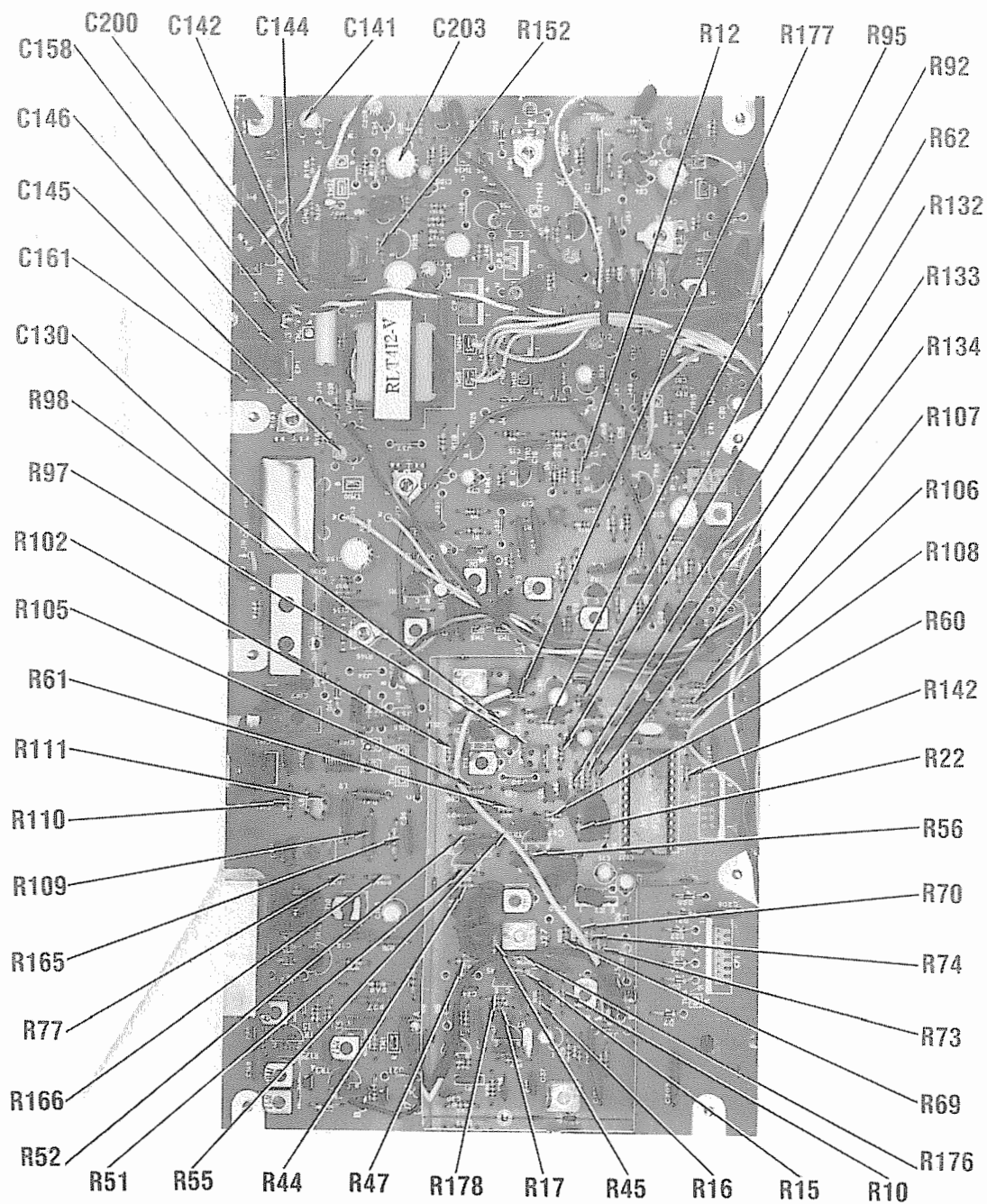
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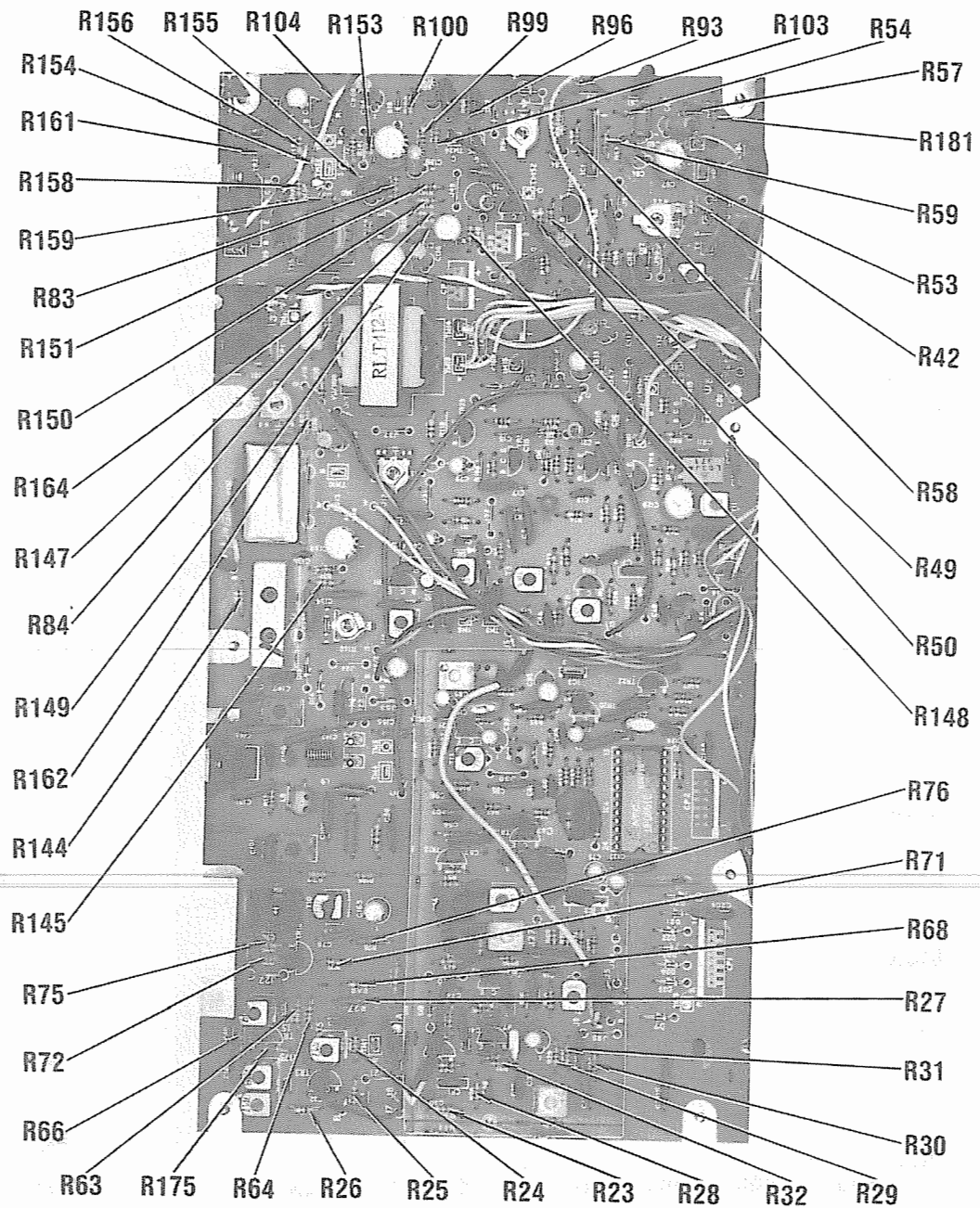
MAIN BOARD



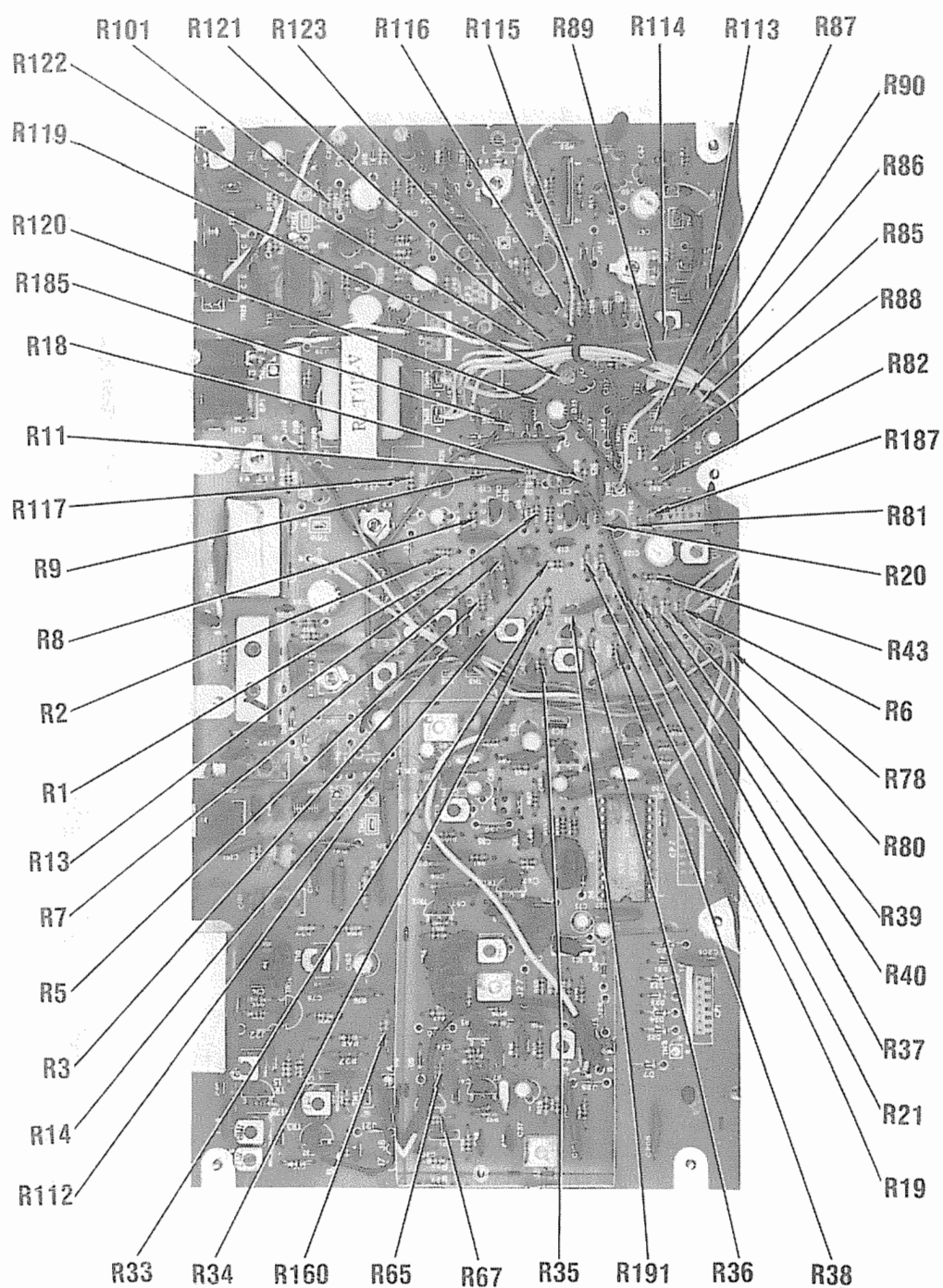
MAIN BOARD



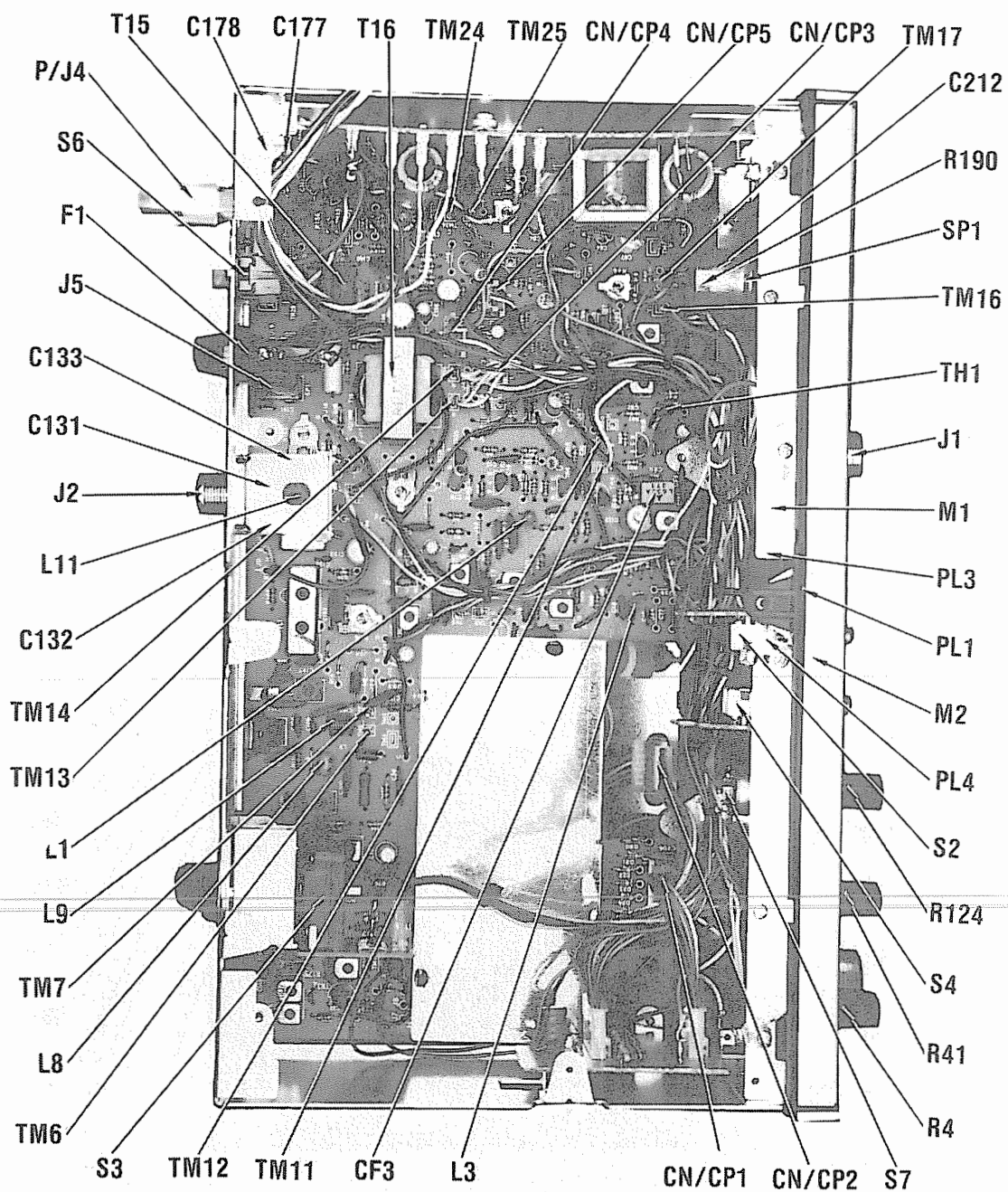
MAIN BOARD



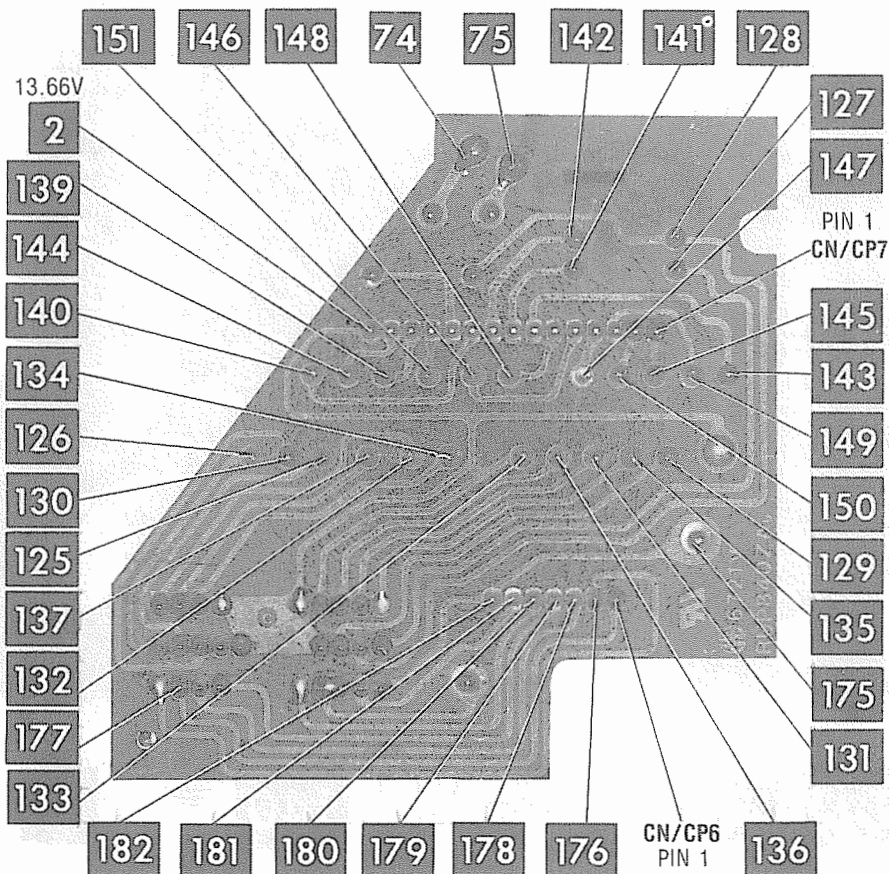
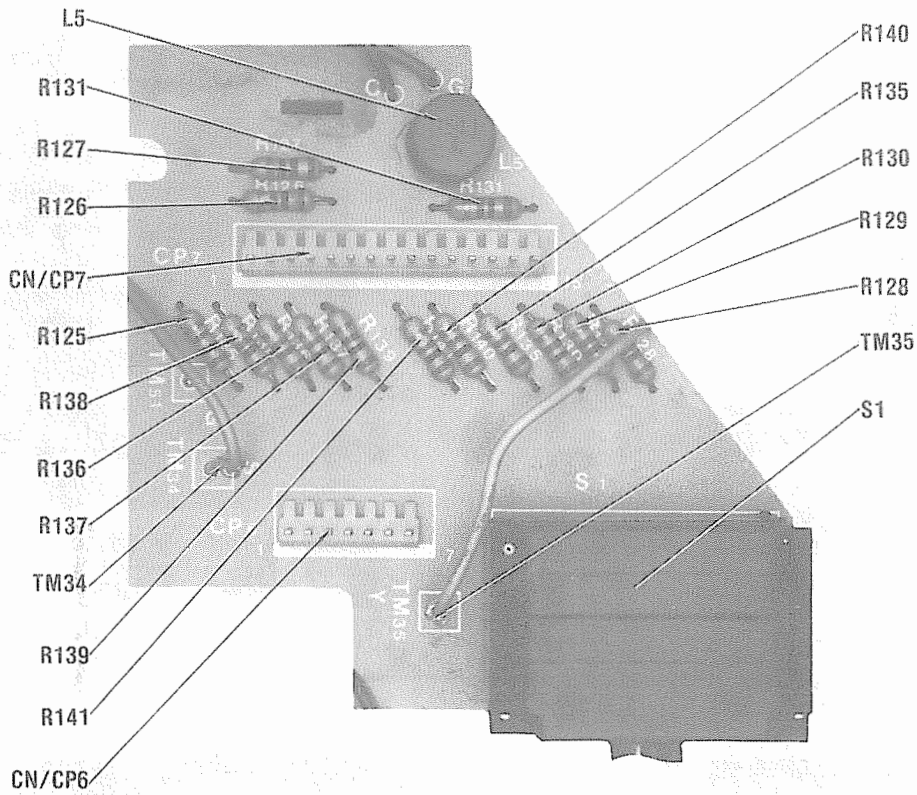
MAIN BOARD



MAIN BOARD

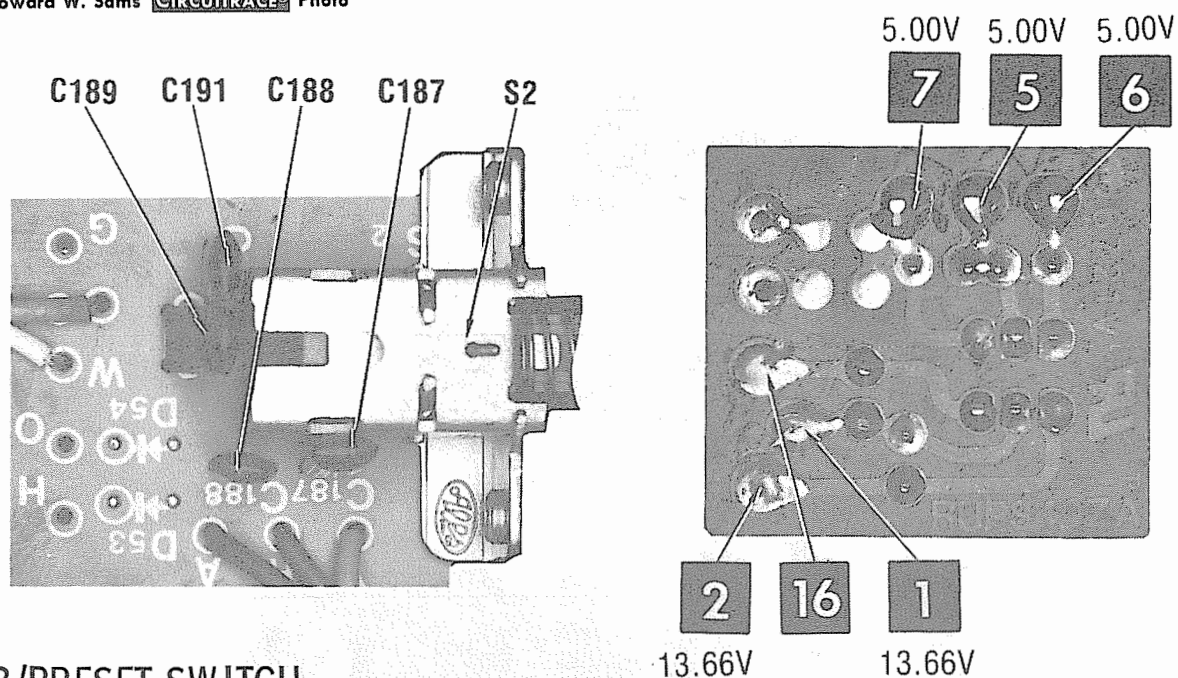


CHASSIS-BOTTOM

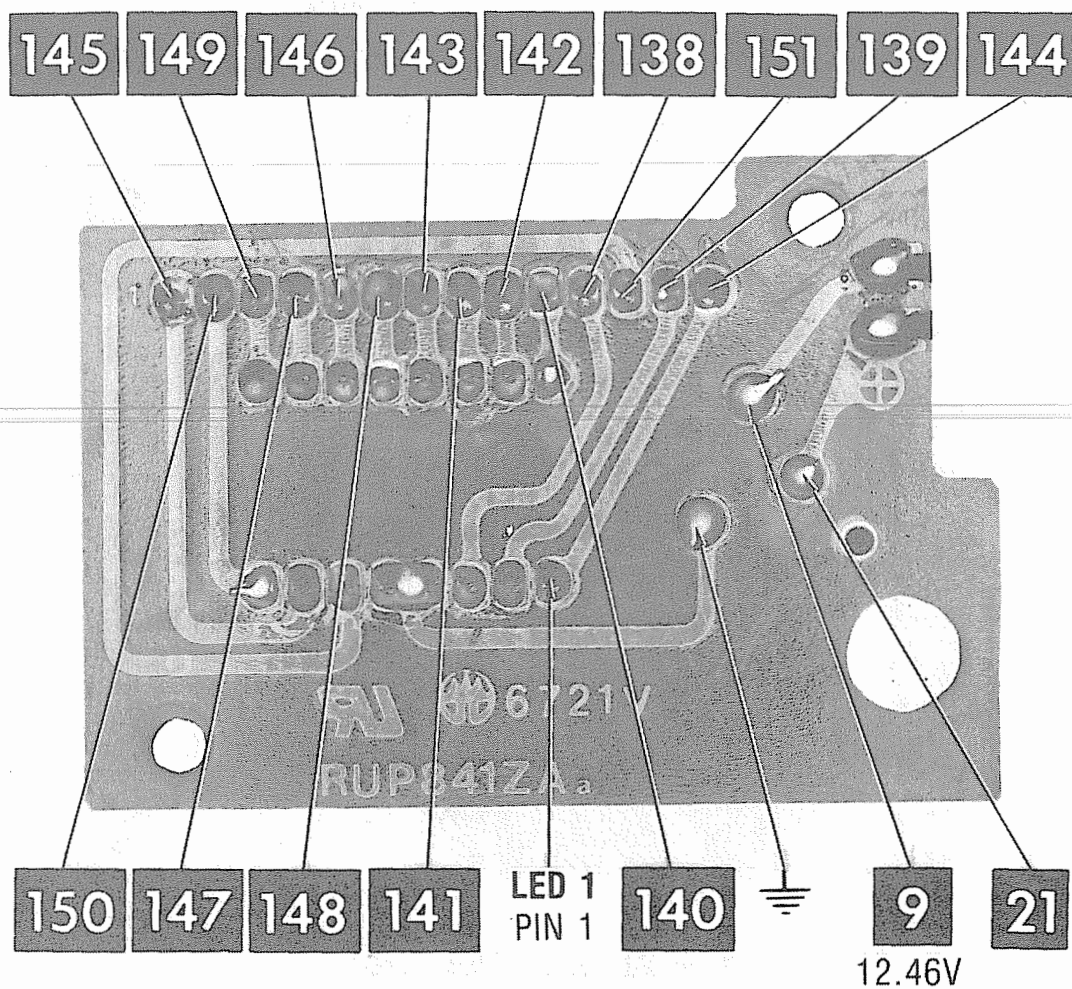


CHANNEL SELECTOR BOARD

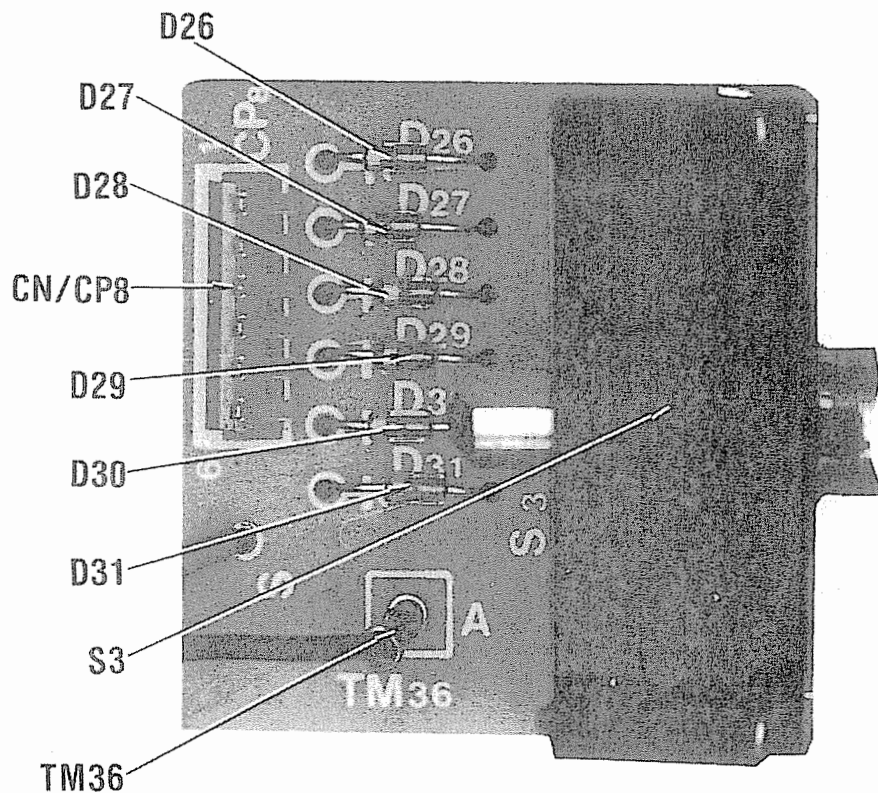
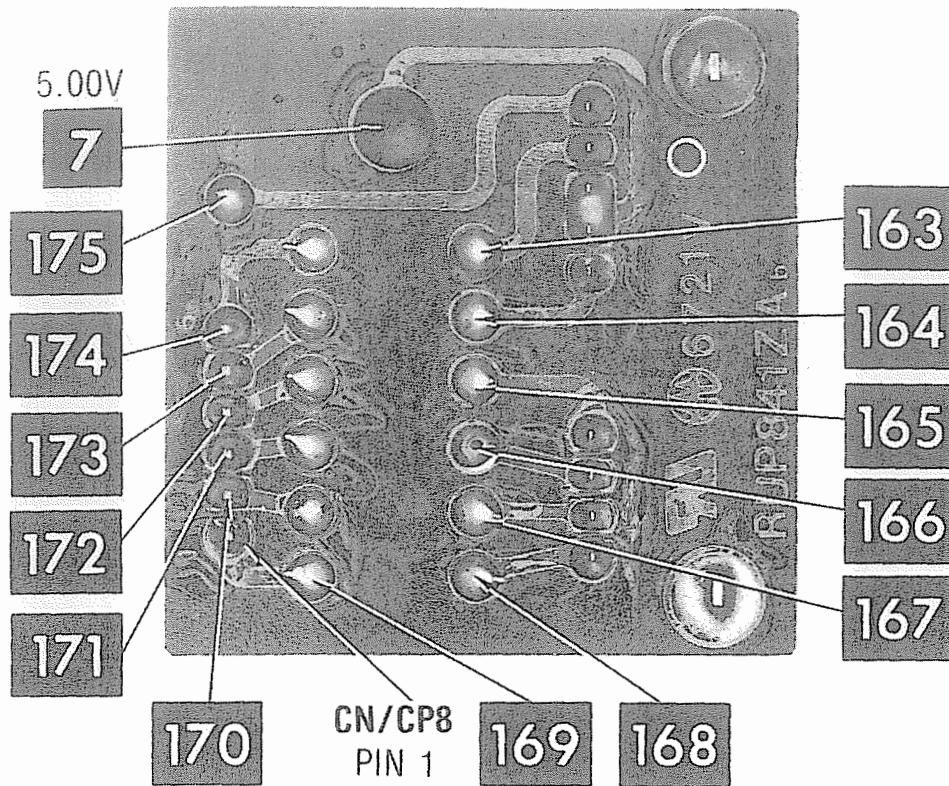
PANASONIC MODEL RJ-3600



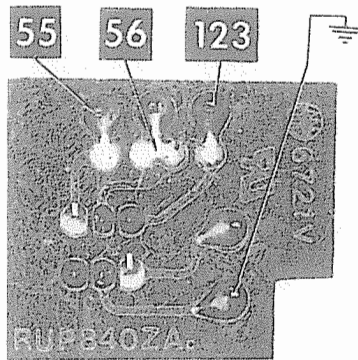
CB/PRESET SWITCH



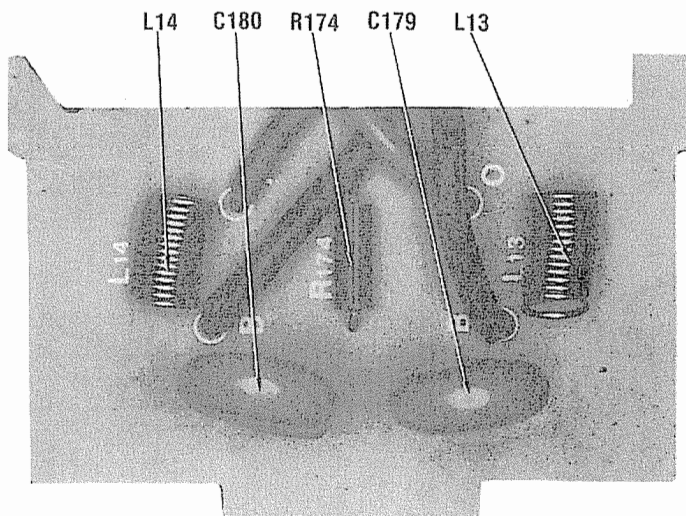
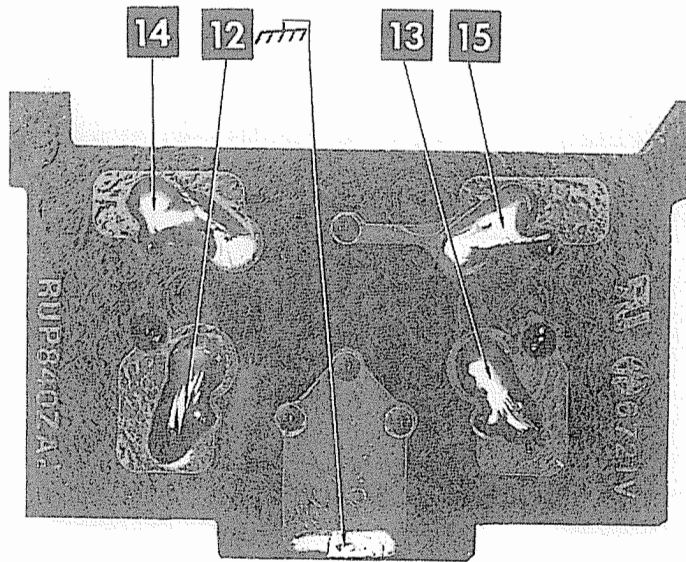
CHANNEL READOUT BOARD



PRESET CHANNEL SELECTOR BOARD



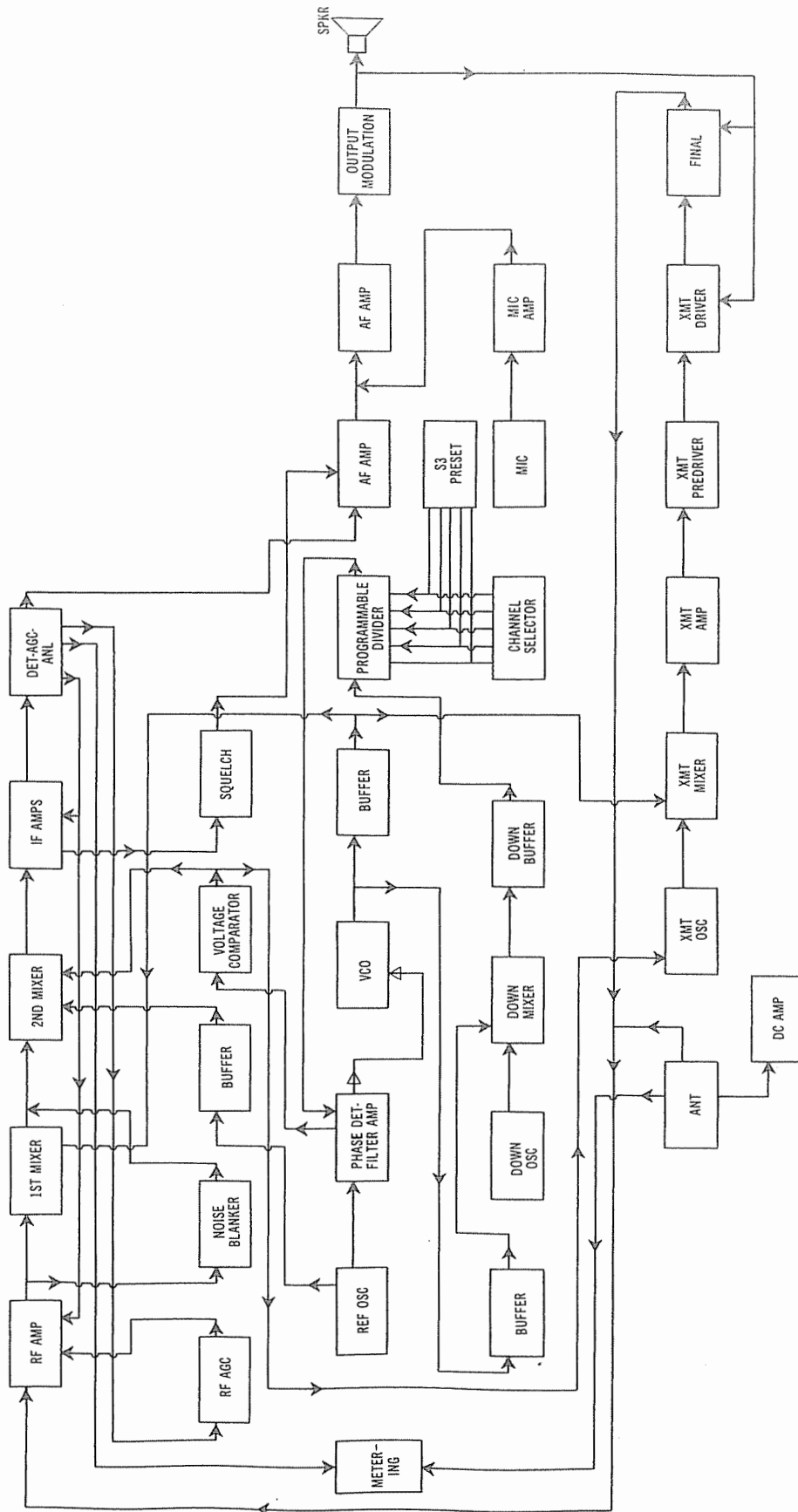
ANL/NOISE BLANKER SWITCH BOARD



AC LINE INPUT BOARD

SEMICO

ITEM No.	TY
D1	HA15
D3	OA9C
D4	OA9C
D5	1S26
D6	HA15
D7	HA15
D8	HA15
D9	HA15
D10	HA15
D11	HA15
D12	HA15
D13	HA15
D14	HA15
D15	HA15
D16	OA90
D17	OA90
D18	OA90
D19	VD11
D20	HA15
D21	HA15
D22	HA15
D23	HA15
D24	HA15
D25	HA15
D26	HA15
D27	HA15
D28	HA15
D29	HA15
D30	HA15
D31	HA15
D32	OA90
D33	HA15
D34	HA15
D35	HA15
D36	HA15
D37	VD11
D38	HA15
D39	OA90
D40	10E1
D41	10E1
D42	1N472
D43	R08R2
D44	10E1
D45	10E1
D46	10E1
D47	10E1
D48	10E1
IC1	UPC56
IC2	M5120
IC3	78L05
IC4	UP086
TR1	2SC13
TR2	3SK40
TR3	2SC82
TR4	2SC82
TR5	2SC82
TR6	2SC82
TR7	2SC13
TR8	2SC82
TR9	2SC82
TR10	2SA56
TR11	2SC13
TR12	2SC82
TR13	2SC13
TR14	2SA56
TR15	2SC13
TR16	2SC13



BLOCK DIAGRAM

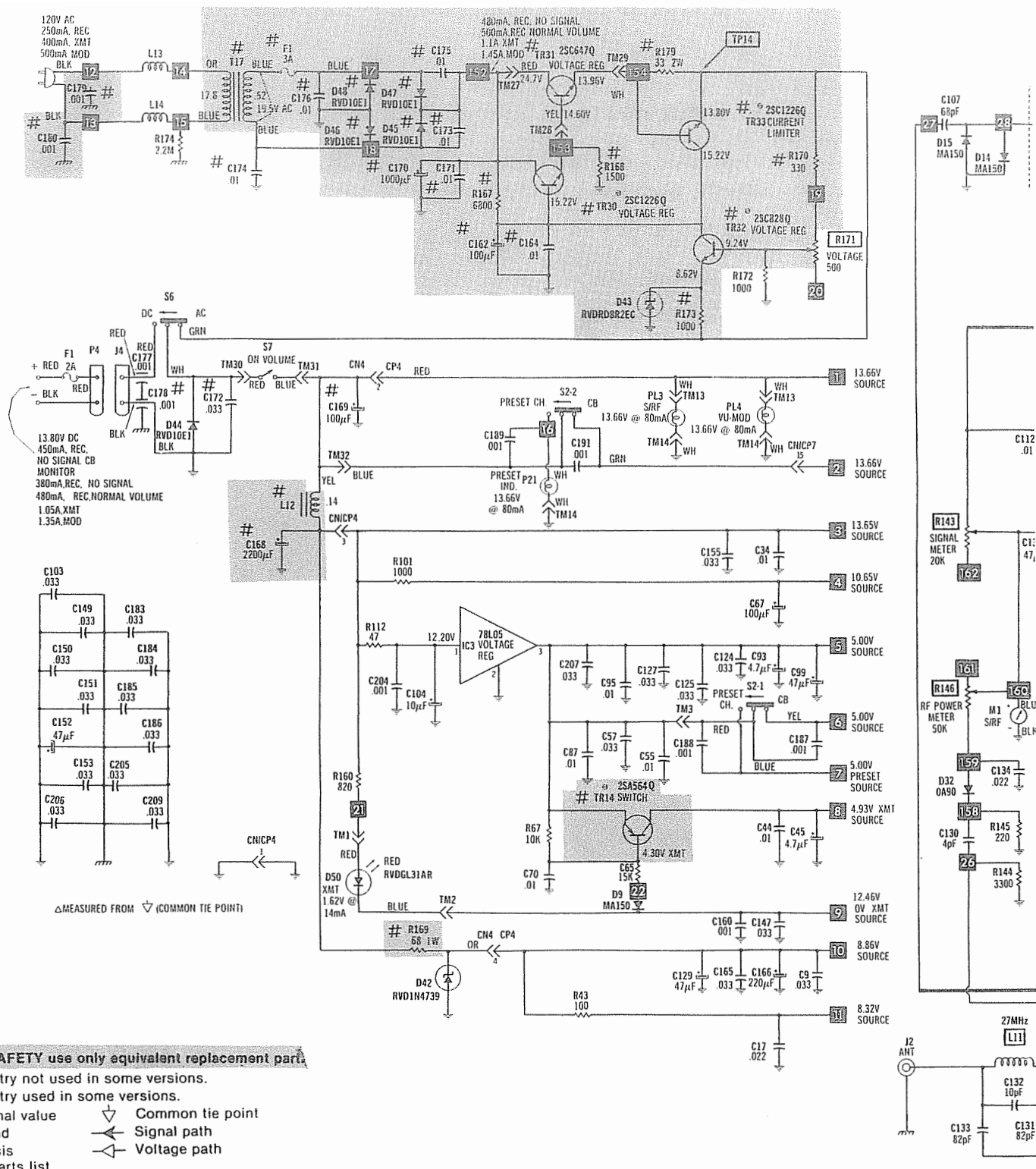
PARTS LIST AND DESCRIPTION (When ordering parts, state Model, Part Number, and Description.)

WIRING DATA

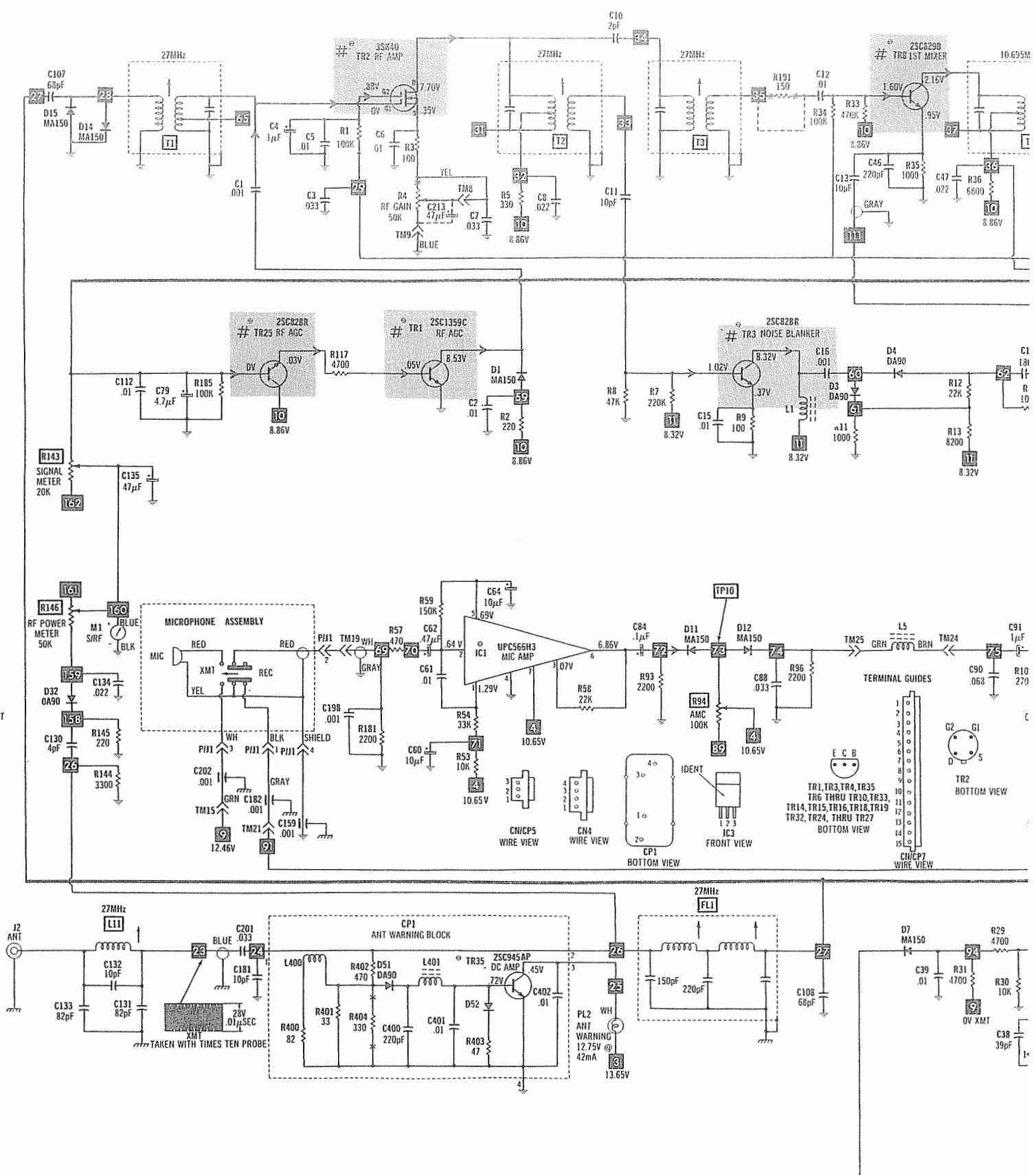
General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672	28AWG BELDEN No. 9466 (6')	
AC Power Cord	(6') BELDEN No. 17106	31AWG BELDEN No. 9468 (10')	
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG BELDEN No. 8415 (6')	
		5-conductor (1 shielded) 28AWG BELDEN No. 9467 (6')	
		BELDEN No. 9465 (7-1/2')	

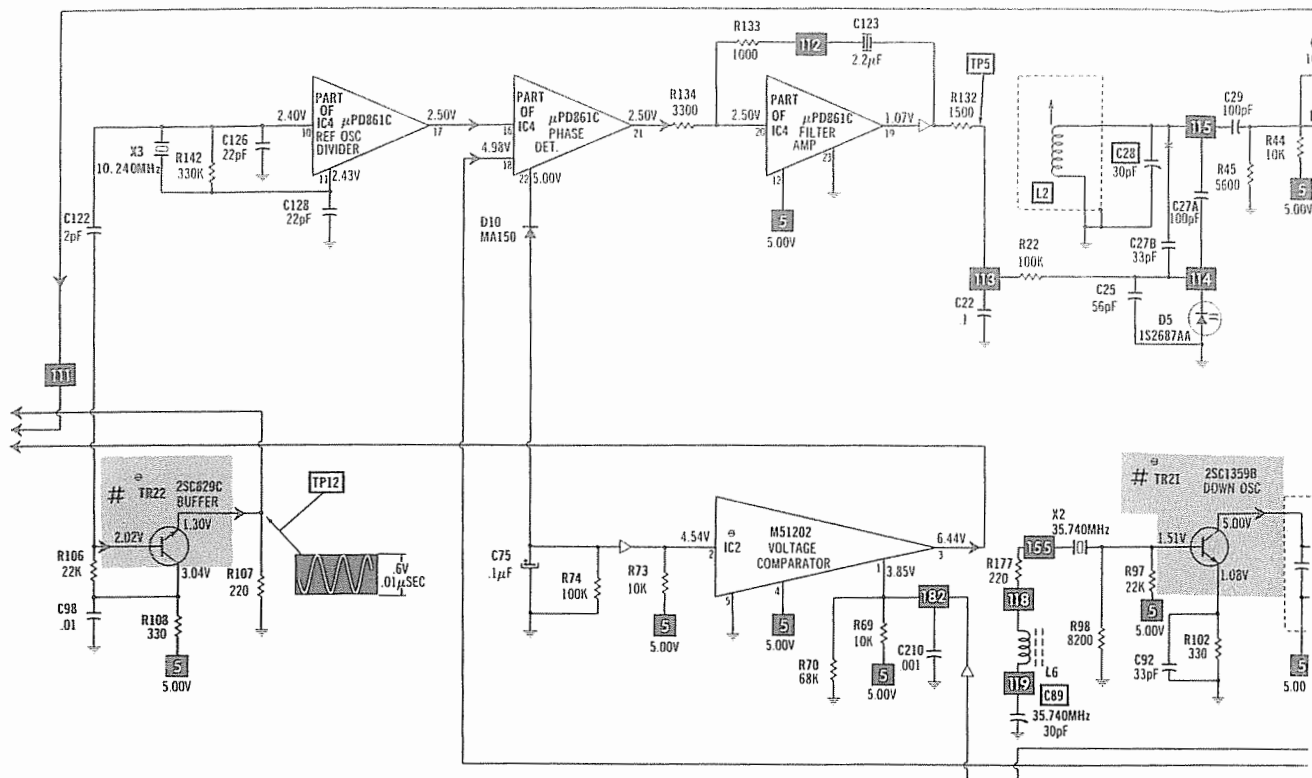
SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.	
D1	HA150	RVDV01150L	GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D3	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D4	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D5	1S26B7AA				REN 612			ECG612			103-176	
D6	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D7	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D8	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D9	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D10	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D11	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D12	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D13	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D14	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D15	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D16	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D17	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D18	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D19	VD1150L			PTC301	REN 601	SK3463		ECG601				
D20	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D21	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D22	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D23	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D24	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D25	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D26	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D27	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D28	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D29	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D30	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D31	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D32	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D33	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D34	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D35	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D36	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D37	VD1150L			PTC301	REN 601	SK3463		ECG601				
D38	HA150		GE-300	PTC214	REN 177	SK3100	RT-218	ECG177	TH177	WEP1062	103-131	
D39	OA90		1N60	PTC206	REN 109	SK3088	RT-263	ECG109	TH109/**	WEP134	103-29001	
D40	10E1	RVD10E1	GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
D41	10E1		GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
D42	1H4739		GEZD-9.1	ZB9.1A	REN 139	SK3060	RT-240	ECG139	TH139/**	WEP1109	103-272	
D43	RD8R2EC		GEZD-8.2	ZB8.2B	REN 5072	SK3136	RT-257	ECG5072A	TH5072/**	WEP1108		
D44	10E1	RVD10E1	GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
D45	10E1		GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
D46	10E1		GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
D47	10E1		GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
D48	10E1		GE-504A	PTC201	REN 116	SK3311	RT-213	ECG116	TH116	WEP156	212-76-02	
IC1	UPC566H3	RVIUPC566	GEIC-135		REN 1052	SK3249	TVCM-82	ECG1052	TH1052	WEP2082		
IC2	M51202							ECG977				
IC3	78L05				REN 977	SK3462						
IC4	UPD861C							ECG1254				
TR1	2SC1359C		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TH229*	WEP829	121-29021	
TR2	3SK40		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TH229*	WEP829	121-29021	
TR3	2SC828R		GE-FET-4	PTC182	REN 222	SK3065	RT-181	ECG222	TH222	WEP905	121-826	
TR4	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR5	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR6	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR7	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR8	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR9	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR10	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR11	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR12	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR13	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR14	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR15	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR16	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR17	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR18	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR19	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR20	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR21	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR22	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR23	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR24	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR25	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR26	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR27	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR28	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR29	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR30	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR31	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR32	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR33	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR34	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR35	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR36	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR37	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR38	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR39	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	
TR40	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TH199/**	WEP828	121-972	

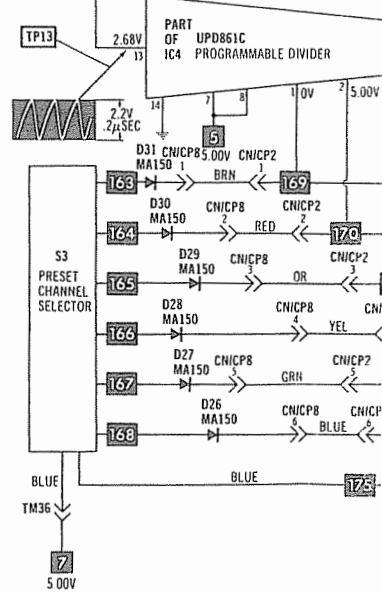
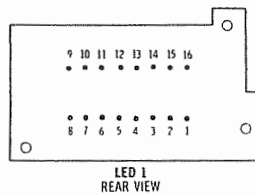
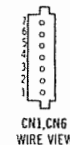
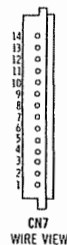
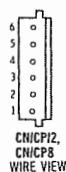
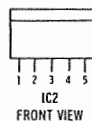


- 1 13.66V SOURCE
- 2 13.66V SOURCE
- 3 13.65V SOURCE
- 4 10.65V SOURCE
- 5 5.00V SOURCE
- 6 5.00V SOURCE
- 7 5.00V SOURCE
- 8 4.93V XMT SOURCE
- 9 12.46V 0V XMT SOURCE
- 10 8.36V SOURCE
- 11 8.32V SOURCE





TERMINAL GUIDES



For SAFETY use only equivalent replacement part.

— Circuitry not used in some versions.

--- Circuitry used in some versions.

⊗ Nominal value ∇ Common tie point

⊥ Ground ← Signal path

⏏ Chassis ↗ Voltage path

⊕ See parts list

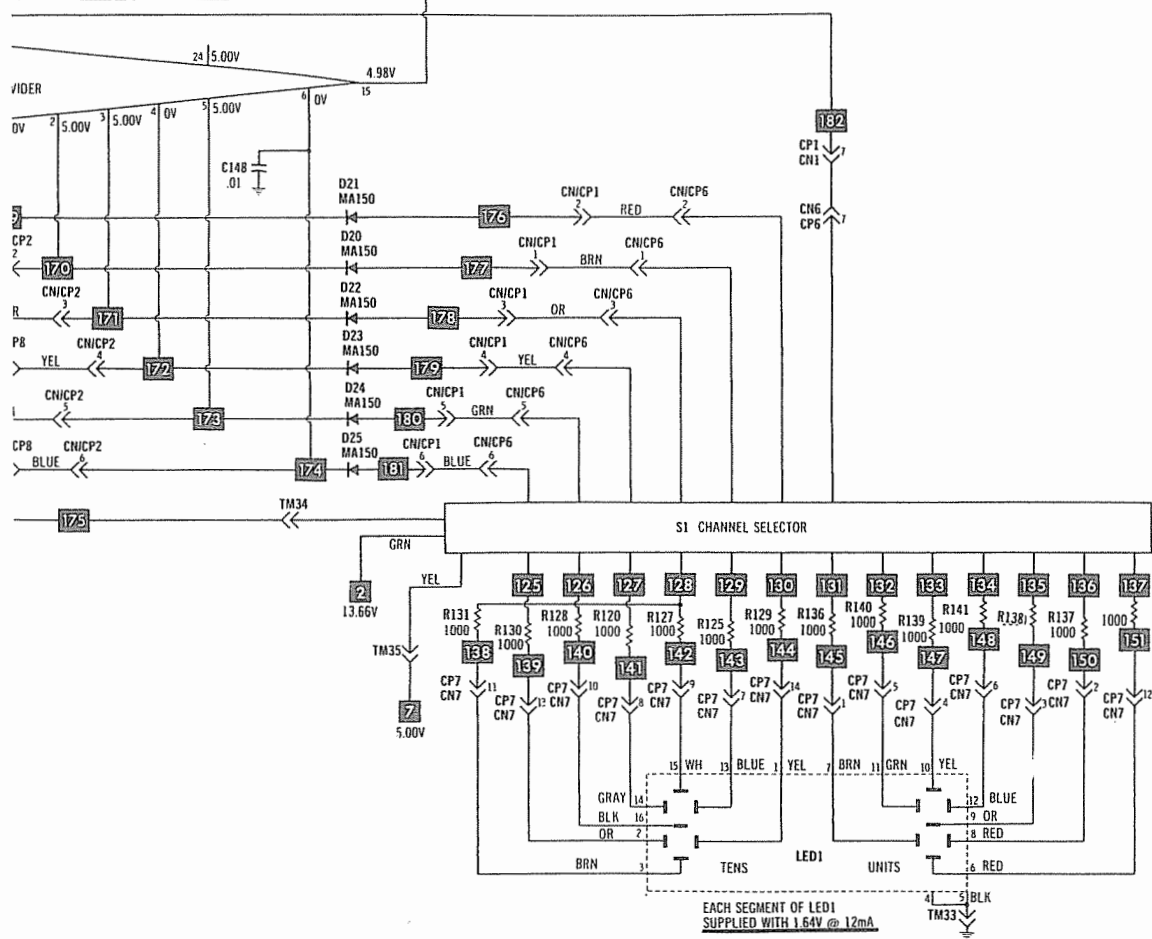
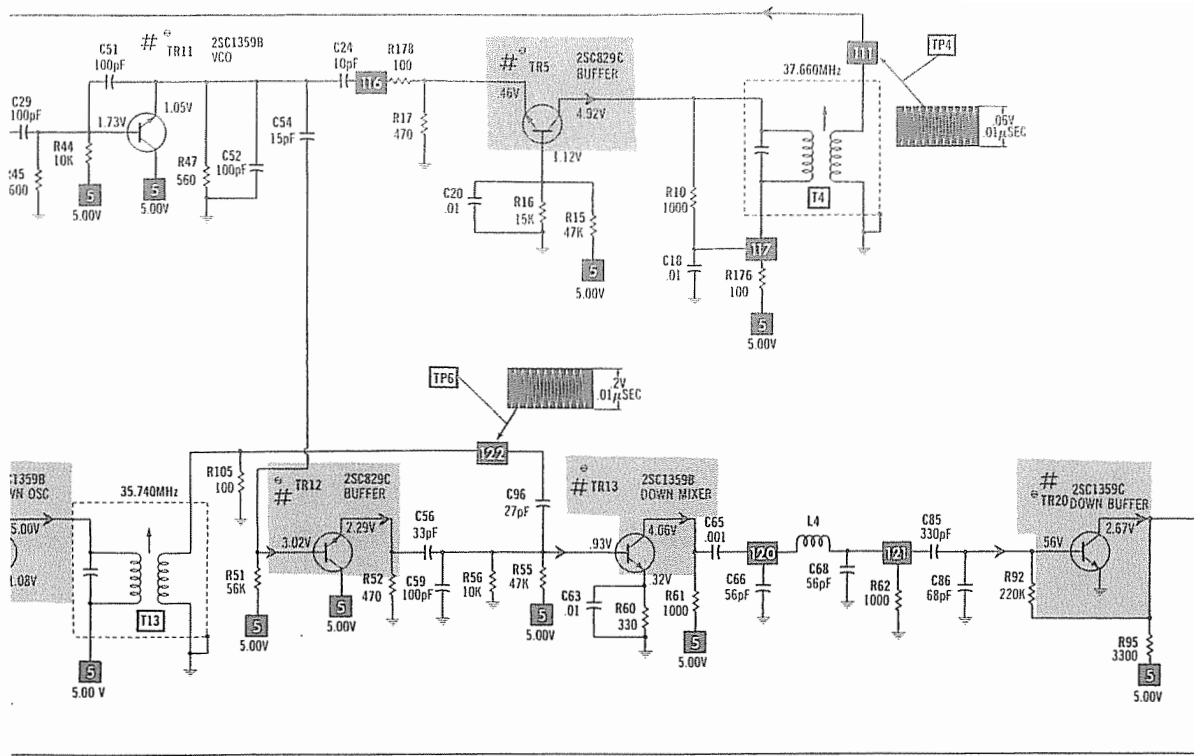
Waveforms and Voltages taken in Channel 19 with switching in receive unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions. Arrow head(s) at coils and transformers indicates accessibility of tuning slug(s).

A PHOTOFACT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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PLL &



'LL & CHANNEL SELECTOR SCHEMATIC

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA								
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
TR17	2SC1957		GE-270	PTC180	REN 295	SK3197		ECG295	TM295	WEP913	121-880
TR18	2SC829B		GE-20*	PTC139*	REN 229*	SK3122	RT-308	ECG229*	TM229*/**	WEP829	121-Z9000A*
	2SC829		GE-20*	PTC139*	REN 229*	SK3122	RT-308	ECG229*	TM229*/**	WEP829	121-Z9000A*
TR19	2SC829B		GE-20*	PTC139*	REN 229*	SK3122	RT-308	ECG229*	TM229*/**	WEP829	121-Z9000A*
	2SC829		GE-20*	PTC139*	REN 229*	SK3122	RT-308	ECG229*	TM229*/**	WEP829	121-Z9000A*
TR20	2SC1359C		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP829	121-Z9021
	2SC1359		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP829	121-Z9021
TR21	2SC1359B		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP829	121-Z9021
	2SC1359		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP829	121-Z9021
TR22	2SC828C		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
	2SC828		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
TR23	2SC1909		GE-215	PTC186	REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-Z9039
	2SC829B		GE-20*	PTC139*	REN 229*	SK3122	RT-308	ECG229*	TM229*/**	WEP829	121-Z9000A*
TR24	2SC829		GE-20*	PTC139*	REN 229*	SK3122	RT-308	ECG229*	TM229*/**	WEP829	121-Z9000A*
	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
TR25	2SC828		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
	2SC828R		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
TR26	2SC829		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
	2SC1384Q		GE-88	PTC143*	REN 293	SK3849	RT-302	ECG293	TM293	WEP914	121-Z9000
TR27	2SC1384		GE-88	PTC143*	REN 293	SK3849	RT-302	ECG293	TM293	WEP914	121-Z9000
	2SC1098		GE-28	PTC110	REN 186A	SK3197	RT-197	ECG186A	TM186A	WEP768	121-Z9008
TR28	2SC1098		GE-28	PTC110	REN 186A	SK3197	RT-197	ECG186A	TM186A	WEP768	121-Z9008
	2SC1226Q		GE-215	PTC186	REN 186A	SK3357	RT-166	ECG186A	TM186A/**	WEP751	121-Z9008
TR29	2SC1226		GE-215	PTC186	REN 186A	SK3357	RT-166	ECG186A	TM186A/**	WEP751	121-Z9008
	2SC647Q		GE-241	PTC154	REN 130	SK3561	RT-197	ECG130	TM130	WEP756	121-Z9011
TR30	2SC647		GE-241	PTC154	REN 130	SK3561	RT-197	ECG130	TM130	WEP756	121-Z9011
	2SC828Q		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
TR31	2SC828		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
	2SC828Q		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
TR32	2SC828		GE-61*	PTC139*	REN 199	SK3122	RT-302	ECG199	TM199/**	WEP828	121-972
	2SC1359A		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP829	121-Z9021
TR33	2SC1359		GE-212	PTC121*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP829	121-Z9021
	2SC945		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972

For SAFETY use only equivalent replacement part.
 * Lead configuration may vary from original.
 /** Also available as exact type replacement.

PANASONIC MODEL RJ-3600

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C4	.1 50V	ECEA50ZR1		TDC104M050EL	QDT1-2	SD50-R109
C21	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C31	4.7 25V	ECEA35V4R7	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C45	4.7 25V	ECEA35V4R7	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C58	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C60	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C62	.47 50V	ECEA50ZR47	PC1-50	VTT4R7A63	QV1-3	EV-1610
C64	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C67	100 16V	ECEA16V100	PC100-16	VTT100F16	QV1-95	EV-1231
C75	.1 50V	ECEA50ZR1		TDC104M050EL	QDT1-2	SD50-R109
C79	4.7 25V	ECEA35V4R7	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C80	4.7 25V	ECEA35V4R7	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C84	.1 50V	ECEA50ZR1		TDC104M050EL	QDT1-2	SD50-R109
C91	.1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C93	4.7 25V	ECEA35V4R7	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C94	.47 50V	ECEA50ZR47	PC1-50	VTT4R7A63	QV1-3	EV-1610
	4.7 50V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C99	47 6.3V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C104	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C116	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C117	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C118	47 10V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C119	47 6.3V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C121	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C123	2.2 HP 25V		WHP3-50	TCN503A	QEN1-63	TVAN-1302.1
C129	47 25V	ECEA16V47	PC50-25	VTT47E25	QV1-77	EV-1426.1
C135	47 6.3V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C136	.1 50V	ECEA50ZR1		TDC104M050EL	QDT1-2	SD50-R109
C137	100 10V	ECEA10V100	PC100-10	VTT100E10	QV1-93	EV-1131
C139	2.2 50V	ECEA25V2R2E	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C141	47 10V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C145	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C152	47 25V	ECEA16V47	PC50-25	VTT47E25	QV1-77	EV-1426.1
	.2 50V			TDC224M050EL	QDT1-10	SD50-R229
# C162	100 16V	ECEA16V100	PC100-16	VTT100F16	QV1-95	EV-1231
C163	33 16V	ECEA16V33	PC30-25	VTT33025	QV1-63	EV-1325
C166	220 16V	ECEA16V220	PC250-25	VTT220H16	QV1-117	EV-1240
# C168	2200 16V	ECEA6V2200	WBR2000-16	TC1520C	QEI-643	TVA-1175.3
C169	100 16V	ECEA16V100	PC100-16	VTT100F16	QV1-95	EV-1231
# C170	1000 35V	ECEA35V1000				
C203	100 16V	ECEA16V100	PC100-16	VTT100F16	QV1-95	EV-1231
C212	4.7 HP 25V	ECEA25H4R7L	WHP5-50	TCN505A	QEN1-113	TVAN-1303.1

For SAFETY use only equivalent replacement part.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.01 50V	RCV1PX30AG	UK50-103		MAG5011		
C2	.01 50V		UK50-103		MAG5011		
C3	.033 50V		UK50-333		MAG50133		
C5	.01 50V		UK50-103		MAG5011		
C6	.01 50V		UK50-103		MAG5011		
C7	.033 50V		UK50-333		MAG50133		
C8	.022 50V		DC-253	MGP025	TA125		TG-S25
C9	.033 50V		UK50-333		MAG50133		
C10	2 NPO 50V $\pm$.25PF						
C11	10 NPO 50V 10%		DTZ-10	NP010	CN0410		10TCC-010
C12	.01 50V		UK50-103		MAG5011		
C13	10 NPO 50V 10%		DTZ-10	NP010	CN0410		10TCC-010
C14	7 NPO 50V $\pm$.5%		DTZ-10	NP010	CN0410		10TCC-010
C15	.01 50V		UK50-103		MAG5011		
C16	.001 50V		DD-102		GP210		10TS-D10
C17	.022 50V		DC-253	MGP025	TA125		TG-S25
C18	.01 50V		UK50-103		MAG5011		
C19	180 50V 10%		DD-181		GP318		10TS-T18
C20	.01 50V		UK50-103		MAG5011		
C22	.1 50V			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C23	.01 50V		UK50-103		MAG5011		
C24	10 NPO 50V 10%		DTZ-10	NP010	CN0410		10TCC-010
C25	56 N750 50V 5%						
C26	.01 50V		UK50-103		MAG5011		
C27A	100 N750 50V 10%				*		10TCU-T10
C27B	33 NPO 50V 5%		DTZ-33	NP033	CN0433		10TCC-033
C28	30						
C29	100 50V 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C30	7 NPO 50V $\pm$.5%		DTZ-10	NP010	CN0410		10TCC-Q10
C32	.01 50V		UK50-103		MAG5011		
C33	.01 50V		UK50-103		MAG5011		
C34	.01 50V		UK50-103		MAG5011		
C35	1.5 NPO 50V $\pm$.25PF				CN0515		
C36	33 NPO 50V 5% .033		DTZ-33	NP033	CN0433		10TCC-033
C37	30PF	RCV1PX30AG	UK50-333		MAG50133		
C38	39 NPO 50V 10%						
C39	.01 50V		UK50-103		CN0439		10TCC-039
C40	1.5 NPO 50V $\pm$.25PF				CN0515		
C41	180 50V 10%		DD-181		GP318		10TS-T18
C42	100 NPO 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C43	220 50V 10%		DD-221		GP322		10TS-T22
C44	.01 50V		UK50-103		MAG5011		
C46	120 NPO 50V 5%		DTZ-120		CN0312		10TCC-T12
C47	.022 50V		DC-253	MGP025	TA125		TG-S25
C48	100 NPO 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C49	33 NPO 50V 5%		DTZ-33	NP033	CN0433		10TCC-033
C50	.001 50V		DD-102		GP210		10TS-D10
C51	100 50V 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C52	100 50V 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C53	.01 50V		UK50-103		MAG5011		
C54	15 NPO 50V 10%		DTZ-15	NP015	CN0415		10TCC-Q15
C55	.01 50V		UK50-103		MAG5011		
C56	33 NPO 50V 5%		DTZ-33	NP033	CN0433		10TCC-033
C57	.033 50V		UK50-333		MAG50133		
C59	100 NPO 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C61	.01 50V		UK50-103		MAG5011		
C63	.01 50V		UK50-103		MAG5011		
C65	.001 50V		DD-102		GP210		10TS-D10
C66	56 NPO 50V 5%				CN0456		10TCC-056
C68	56 NPO 50V 5%				CN0456		10TCC-056
C69	.01 50V		UK50-103		MAG5011		
C70	.01 50V		UK50-103		MAG5011		
C71	.01 50V		UK50-103		MAG5011		
C72	.001 50V		DD-102		GP210		10TS-D10
C74	.01 50V		UK50-103		MAG5011		
C76	.01 50V		UK50-103		MAG5011		
C77	330 50V 10%		DD-331	GP330	GP333		10TS-T33
C78	.033 50V		UK50-333		MAG50133		
C81	.033 50V		UK50-333		MAG50133		
C82	.033 50V		UK50-333		MAG50133		
C83	.033 50V		UK50-333		MAG50133		
C85	330 50V 10%		DD-331	GP330	GP333		10TS-T33
C86	68 50V 10%		DD-680	GP68	GP468		10TS-068
C87	.01 50V		UK50-103		MAG5011		
C88	.033 50V	RCV1PX30AG		DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C89	30						
C90	.068 50V			WMF1S68	EWFI1A168	QF1-195	1PB-S68
C92	33 NPO 50V 5%		DTZ-33	NP033	CN0433		10TCC-033
C95	.01 50V		UK50-103		MAG5011		
C96	27 NPO 50V 5%				CN0427		10TCC-Q27
C97	150 50V 10%		DD-151		GP315		10TS-T15
C98	.01 50V		UK50-103		MAG5011		
C100	.033 50V		UK50-333		MAG50133		
C101	33 NPO 50V 5%		DTZ-33	NP033	CN0433		10TCC-033
C102	220 50V 5%			CD15FD221J03	SX322	QW1-35	MWA-221
	180 50V 5%			CD15FD181J03	SX318	QW1-33	MWA-181
C103	.033 50V		UK50-333		MAG50133		
C105	.033 50V		UK50-333		MAG50133		
C106	.001 50V		DD-102		GP210		10TS-D10
C107	68 NPO 50V 5%		DD-680	GP68	GP468		10TS-068
C108	68 NPO 50V 5%		DD-680	GP68	GP468		10TS-068
C109	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA							
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.				
						Q-LINE	GENERAL LINE			
C110	.033 50V	ECCV1H020CC	UK50-333	HP0100	MAG50133	QFT2-149	10TCC-T10			
C111	100 NPO 50V 5%		DTZ-100		CN0310					
C112	.01 50V		UK50-103		MAG5011					
C113	.01 50V		UK50-103		MAG5011					
C114	.01 50V		UK50-103		MAG5011					
C120	.033 50V		ECCV1H040CC	DPM56S33	M192P3339R8	QFT2-149	1FT-S33			
C122	2 NPO 50V $\pm .25$ PF				CN0522					
C124	.033 50V				MAG50133					
C125	.033 50V				MAG50133					
C126	22 NPO 50V 5%				DTZ-22			CN0422		
C127	.033 50V	UK50-333		MAG50133	HP022	QFT2-149	10TCC-022			
C128	22 NPO 50V 5%	DTZ-22		CN0422						
C130	4 NPO 50V $\pm .25$ PF	DD-820		CN0547				HP022	QFT2-149	10TCC-022
C131	B2 50V $\pm 10\%$			GP482						
C132	10 NPO 50V $\pm 10\%$			CN0410						
C133	B2 50V $\pm 10\%$		DD-820	GP482						
C134	.022 50V		DC-253	TA125						
C138	.01 50V	UK50-103	MGP025	MAG5011	QFT2-215	1FT-P10				
C140	.1 50V	UK50-103	WMF05P1	EWFO5010						
C142	.01 50V		MAG5011	DPM52S22			QFT2-127	1FT-S22		
C143	.022 50V		M192P2239R8							
C144	.022 50V		M192P2239R8							
C146	.001 50V		GP210		DPM52S22	QFT2-127			10TS-D10	
C147	.033 50V	DD-102								
C148	.01 50V	UK50-333	MAG50133							
C149	.033 50V	UK50-333	MAG50133							
C150	.033 50V	UK50-333	MAG50133							
C151	.033 50V	UK50-333	UK50-333	MAG50133	QFT2-127	10TS-D10				
C153	.033 50V	UK50-333	UK50-333	MAG50133						
C155	.033 50V	UK50-333	UK50-333	MAG50133						
C158	.001 50V	DD-102	GP210	QFT2-127			10TS-D10			
C159	.001 50V	DD-102	GP210							
C160	.001 50V	DD-102	GP210							
C161	.001 50V	DD-102	GP210							
C164	.01 50V	UK50-103	MAG5011							
C165	.033 50V	UK50-333	MAG50133	QFT2-215	1FT-P10					
C171	.01 50V	UK50-103	MAG5011							
C172	.033 50V	UK50-333	MAG50133							
C173	.01 50V	UK50-103	MAG5011							
C174	.01 50V	UK50-103	MAG5011							
C175	.01 50V	UK50-103	MAG5011	QFT2-215	1FT-S22					
C176	.01 50V	UK50-103	MAG5011							
C177	.001 50V	ECKL1H102PF	ECKL1H102PF			MAG5011	QFT2-215	1FT-S22		
C178	.001 50V									
C179	.001 125V									
C180	.001 125V									
C181	10 NPO 50V 10%									
C182	.001 50V	ECKL1H102PF	DD-102	HP010	GP210	QFT2-127	10TS-D10			
C183	.033 50V				DD-102			GP210		
C184	.033 50V				DTZ-10			CN0410		
C185	.033 50V				DD-102			GP210		
C186	.033 50V				UK50-333			MAG50133		
C187	.001 50V		UK50-333	MAG50133	DPM56D1	QFT2-1	1FT-D10			
C188	.001 50V		UK50-333	MAG50133						
C189	.001 50V		UK50-333	MAG50133						
C191	.001 50V		UK50-333	MAG50133						
C194	100 NPO 50V 5%		DTZ-100	HP0100				CN0310	QFT2-1	10TCC-T10
C197	.001 50V	DD-102	GP210							
C198	.001 50V	DD-102	GP210							
C200	.033 50V	UK50-333	MAG50133							
C201	.033 50V	UK50-333	MAG50133							
C202	.001 50V	ECCV1H040CC	DD-102	DPM56D1	GP210	QFT2-1	10TS-D10			
C204	.001 50V				DD-102			GP210		
C205	.033 50V				UK50-333			MAG50133		
C206	.033 50V				UK50-333			MAG50133		
C207	.033 50V				UK50-333			MAG50133		
C208	.022 50V		DC-253	MGP025	TA125	QFT2-1	TG-S25			
C209	.001 50V		DD-102		GP210					
C210	.001 50V		DD-102		GP210					
C211	.01 50V		UK50-103		MAG5011					

#For SAFETY use only equivalent replacement part.

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

PANASONIC MODEL RJ-3600

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.	MALLORY PART No.	TRW PART No.
R4	RF Gain	50K	EVHMA087B54			
R41	Squelch	10K	EVHMA087C14			
R46	Squelch Range	2000	EVLS3AA00B23	T-2500(3)	MTC23L1(3)	U260R252R
R94	AMC	100K	EVLS3AA00B15	T-100K(3)	MTC15L1(3)	U260R104B
R124	Volume/Power Switch	10K	EVHMC087D14			
R143	Signal Meter	20K	EVLS3AA00B24	T-20K(3)	MTC24L1(3)	U260R253B
R146	RF Power Meter	50K	EVLS3AA00B54	T-50K(3)	MTC54L1(3)	U260R503B
R163	VU Meter	2000	EVLS3AA00B23	T-2500(3)	MTC23L1(3)	U260R252R
R171	Voltage Adjust	500	EVLS3AA00B52	T-500(3)	MTC52L1(3)	U260R501R

(3) For horizontal mounting, bend the two outside terminals to fit P.C. board. Use jumper to connect center terminal to P.C. board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
# R27	100 1/4W +5%	ERD25TJ101	22-1072	# R168	1.5K 1/4W +5%	ERD14FJ152	22-1100
# R76	100 1/4W +5%	ERD14FJ101	22-1072	# R169	68 1W +5%	ERG1ANJ680	22-3068
# R109	10 1W +5%	ERX1ANJ100	22-3048	# R170	330 1/4W +5%	ERD14FJ331	22-1084
# R161	.47 1W +5%	ERX1ANJR47		# R179	.33 2W +5%	ERWZPBJR33	
# R167	6.8K 1/4W +5%	ERD14FJ682	22-1116	TH1	980 Col'd NTC		

#For SAFETY use only equivalent replacement part.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke	RLA7M5	100	4622	
L2	VCO		7M5		
L3	RF Choke		100	4622	
L4	Pi Filter				
L5	RF Choke	RLD7M1	154J		
L6	RF Choke				
L7	Driver (27MHz)				
L8	RF Choke				
L9	RF Choke	RLQY30S2			
L10	Loading Final (27MHz)	RLD7M1			
L11	Antenna Matching (27MHz)	RLD7M2			
L13	RF Choke				
L14	RF Choke				
T1	Rec RF (27MHz)	FLA7M1	7M1		
T2	RF Amp (27MHz)	RLA7M2	7M2		
T3	RF Amp (27MHz)	FLA7M3	7M3		
T4	XMT Buffer (37.660MHz)	RLA7M4	7M4		
T5	XMT Mixer (27MHz)	RLA7M7	7M7		
T6	XMT Mixer (27MHz)	RLA7M7	7M7		
T7	XMT Mixer (27MHz)	RLA7M8	7M8		
T8	Mixer (10.695MHz)	RLI4M101	F1101		
T9	XMT Amp (27MHz)	RLA7M9	7M9		
T10	Predriver (27MHz)	RLA7M10	7M10		
T11	Mixer (455kHz)	RLI2M205	A1205		
T12	IF Amp (455kHz)	RLI2M205	A1205		
T13	Down Oscillator (35.740MHz)	RLA7M6	7M6		
T14	IF Amp (455kHz)	RLI2M402	A1402		

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.	
# L12	1.5A	.14	2.1mH	RLT6H3 FLT6H3-V(1)			(1) Number on unit.

#For SAFETY use only equivalent replacement part.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T15	1	1.1CT		RLT3F33 RLT3F33-T(1)			(1) Number on unit.

#For SAFETY use only equivalent replacement part.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T16	32	1 2 8 20.5	RLT412 RLT412-V(1)			(1) Number on unit.

#For SAFETY use only equivalent replacement part.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T17	120V AC @ .5A	19.50V AC @ 2.6A AC @ 1.5A DC	RLT5M330 RLT5M330A-W(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	4" PM 8 Ohms	EAS10P108S	4A1ZB	

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 Quick Acting	XBA1F20HV100	SJFA101	AGC2	HKP	312002	342013AL	FG2-2
# F2	2A Quick Acting	XBA1F20NB100		AGC2	HRK	312002	150145	FG2-2

#For SAFETY use only equivalent replacement part.

PANASONIC MODEL RJ-3600

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. 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	RJM128Z	18-032	18-034	18-010	18-092	2	4	3	1	NC	4

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	RVFCF10S12CR	(10.695MHz)
CF2	Filter	RVFCF10S12CR	(10.695MHz)
CF3	Filter	RVFCFW45SH4	(455kHz)
CP1	Component Combination	RLE5007	Directional Coupler
D50	LED	RYDGL31AR	Transmit Indicator (1.62V @ 12mA)
FL1	Component Combination	RLE5006	(27MHz) Lowpass Filter
J1	Jack	RJS2572	Microphone
J2	Jack	RJS258Z	Antenna
J4	Jack		DC Interlock
J5	Jack	RJJ76A-C	Extension Speaker
LED1	LED	RAD301ZE	Channel Readout, Tens & Units (Each segment 1.64V @ 12mA)
M1	Meter	RSM2305Z	S/R
M2	Meter	RSM2526Z-N	VU/Modulation
PL1	Lamp	XAMQ24S250	Preset Indicator (13.66V @ 80mA)
PL2	Lamp	XAMR48S250	Antenna Warning (12.75V @ 42mA)
PL3	Lamp	XAMQ24S250	S/R Meter (13.66V @ 80mA)
PL4	Lamp	XAMQ24S250	VU-Modulation Meter (13.66V @ 80mA)
S1	Switch	ESRN33TF25A	Channel Selector
S2	Switch	ESRN11TF20A	Preset Channel
S3	Switch	RSH2B02Z-A	Preset Channel Selector
S4	Switch		ANL On/Off
S6	Switch	ESD393T	AC/DC
S7	Switch		Power On/Off
X1	Crystal	RVCX10695R4Z	10.195MHz
X2	Crystal	RVCX35740R4Z	35.740MHz
X3	Crystal	RVCX10240R4Z	10.240MHz
	Cord	RJA10A	AC
	Cord	RXEJ3600M	DC Assembly
	Plug	RJP1192	7 Terminals, Channel
	Plug	RJP142Z	6 Terminals, Preset
	Plug	RJP137Z	3 Terminals, Volume/ANL
	Plug	RJP107Z	4 Terminals, Power Source
	Plug	RJP165Z	15 Terminals, Channel/On-Air
	Socket	RJS219Y-X	7 Terminals, Channel
	Socket	RJS112Y-X	6 Terminals, Preset
	Socket	RJS253Y-X	3 Terminals, Volume/ANL
	Socket	RJS216Y-X	4 Terminals, Power Source
	Socket	RJS131Z-X	15 Terminals, Channel/On-Air

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

ITEM	PART No.	ITEM	PART No.
Button NB/ANL	RBC121X	Grille Assembly	RYGJ3600M
Button, Preset	RBC121Y	Knob, Assembly (Preset)	RYTJ3600M
Cover, Upper Side	RKM465ZS	Knob, Channel	RBN360Z
Front Panel Assembly	RYMJ3600M	Knobs, Control	RBN413Z