

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.



SUPERSCOPE MODEL AIRCOMMAND CB-340

MODEL AIRCOMMAND CB-340

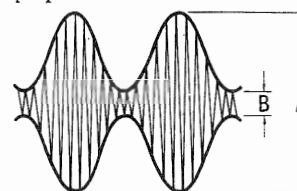
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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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. Adjustments made with 13.8 volt DC input. 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:
 L201, L203, L204, L301 thru L307,
 L402, L405 9440
 L308, L309, L310 5000, 5009, 8276, 8728, 8728A
 L406, L407, L409, L410 8728, 8728A, 9304
 C202, C375, C418 5000, 8276



$$\text{Modulation Ratio} = \frac{A - B}{A + B} \times 100 (\%)$$

FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1 (Junction of C332 and C371).	Ch. 19 Delta Tune Detent	C375	Adjust for 10.240MHz.
Input of DC meter to TP02 (Junction of R216 and R217).	Ch. 1	L201	Adjust for 1.80 volts. Check for approx. 2.80 volts on Ch. 40.
Input of oscilloscope to TP2 (L204 Secondary).	Ch. 19	L203, L204	Adjust for maximum RF. (1V p-p typical).
Input of frequency counter to TP2 (L204 Secondary).	Ch. 1 Delta Tune Detent	C202	Adjust for 17.180MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP3 (I201 Pin 13).	Ch. 1		Check for .910MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP4 Junction of R403 and R402.	Ch. 19, XMT	C418	Adjust for 9.785MHz.
Input of frequency counter to antenna input.	Ch. 19, XMT	R351	DELTA TUNE RANGE Adjust for 27.185MHz. Check all channels. (See page 4 for channel frequencies.)

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. RF Gain Max, Squelch MINIMUM, Off, ANL Off, Delta Tune Detent

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP5 (Q307 Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	L310, L309 L308	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L307, L306, L305, L304 L303	Adjust for maximum output. If necessary readjust L308, L309 and L310 for maximum.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Input of oscilloscope to TP6 (Q302 Base).	Ch. 19	L301, L302	Set generator output for 10db signal to noise plus noise ratio of receiver. Inject a 100pps, 1uSbc pulse width, signal at antenna input. Switch Noise Blanker on and adjust for maximum pulse amplitude.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
RF Gain Max, Squelch MINIMUM, NB Off, ANL Off, Delta Tune Detent

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation Output 1uV.	Ch. 19 Volume Max	R347	AGC Adjust for 2.00 volts RMS audio output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation Output 200uV.	Ch. 19 Squelch Maximum	R251	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	R242	INPUT SIGNAL METER Adjust for 9 on Input Signal scale of 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	L402,L403, L404,L405	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19	L406,L407, L409,L410	Adjust for 4.0 watts RF output maximum.

TRANSMITTER ADJUSTMENTS

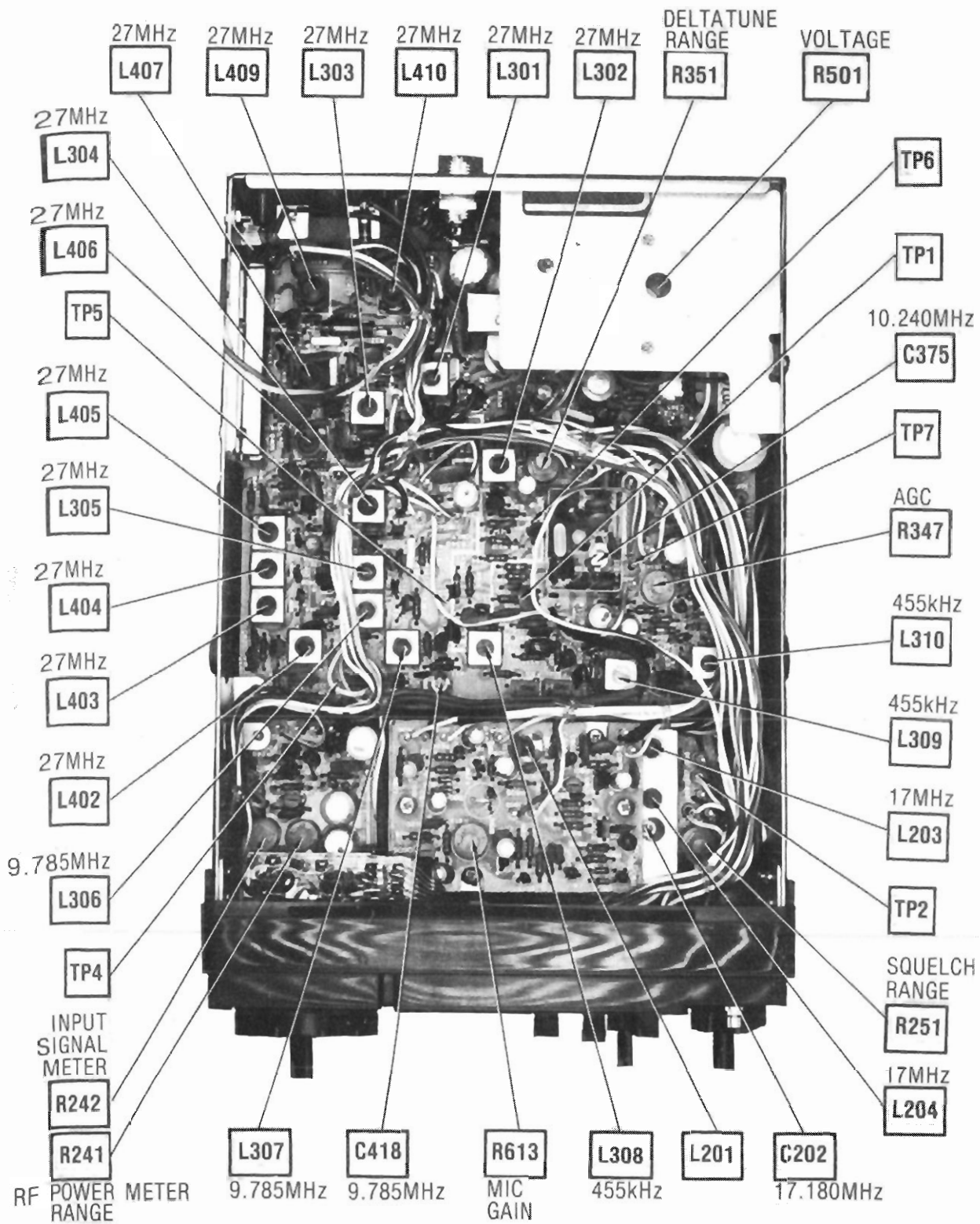
Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 20mV signal at Mic input.	Ch. 19	R613	MIC GAIN Adjust for 100% modulation maximum. (see Figure 1.)
Input of RF wattmeter to antenna input.	Ch. 19	R241	RF POWER METER Adjust so RF meter agrees with RF wattmeter.

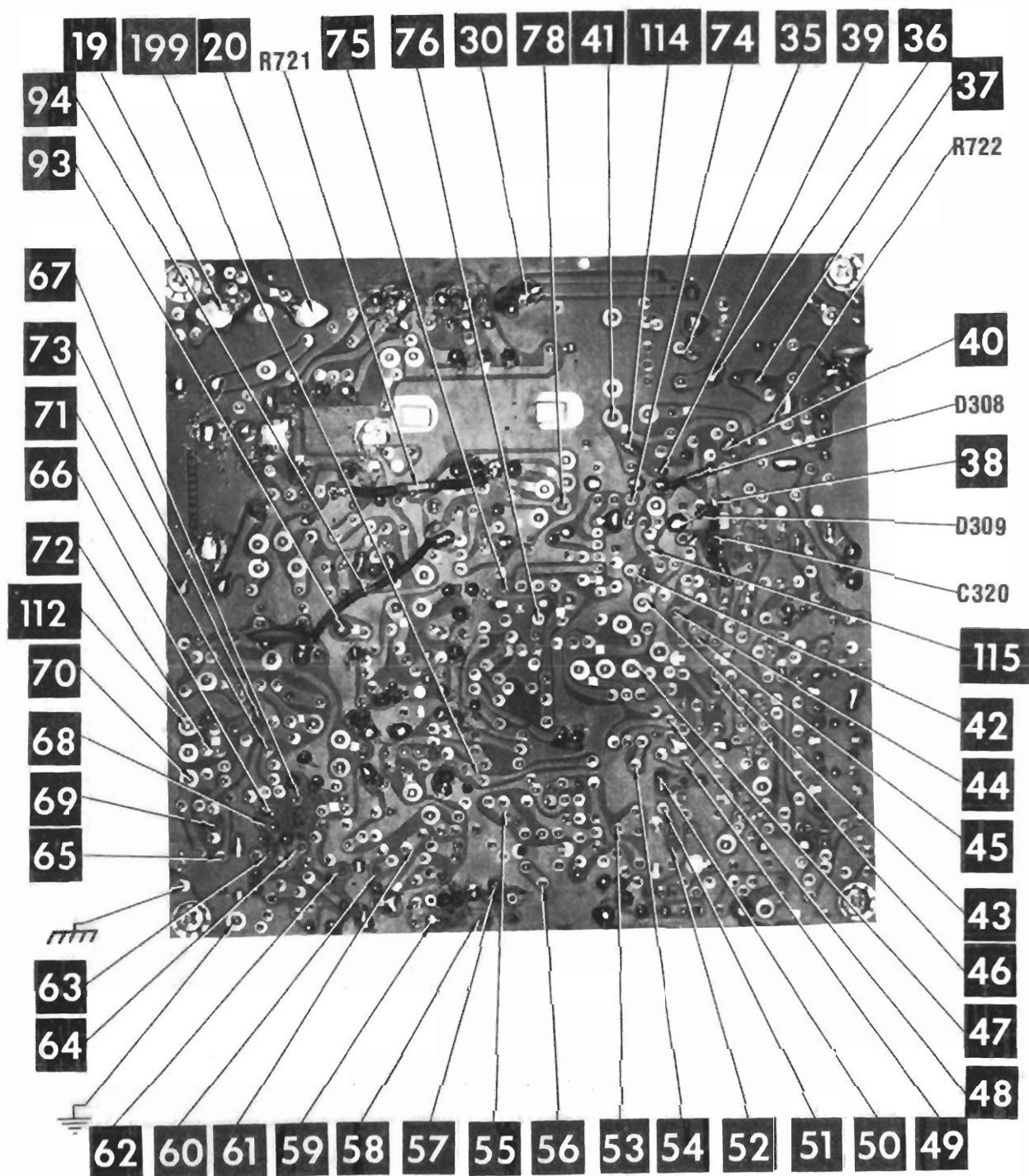
TRUTH CHART

1 = 4.60 Volts 0 = .15 Volts

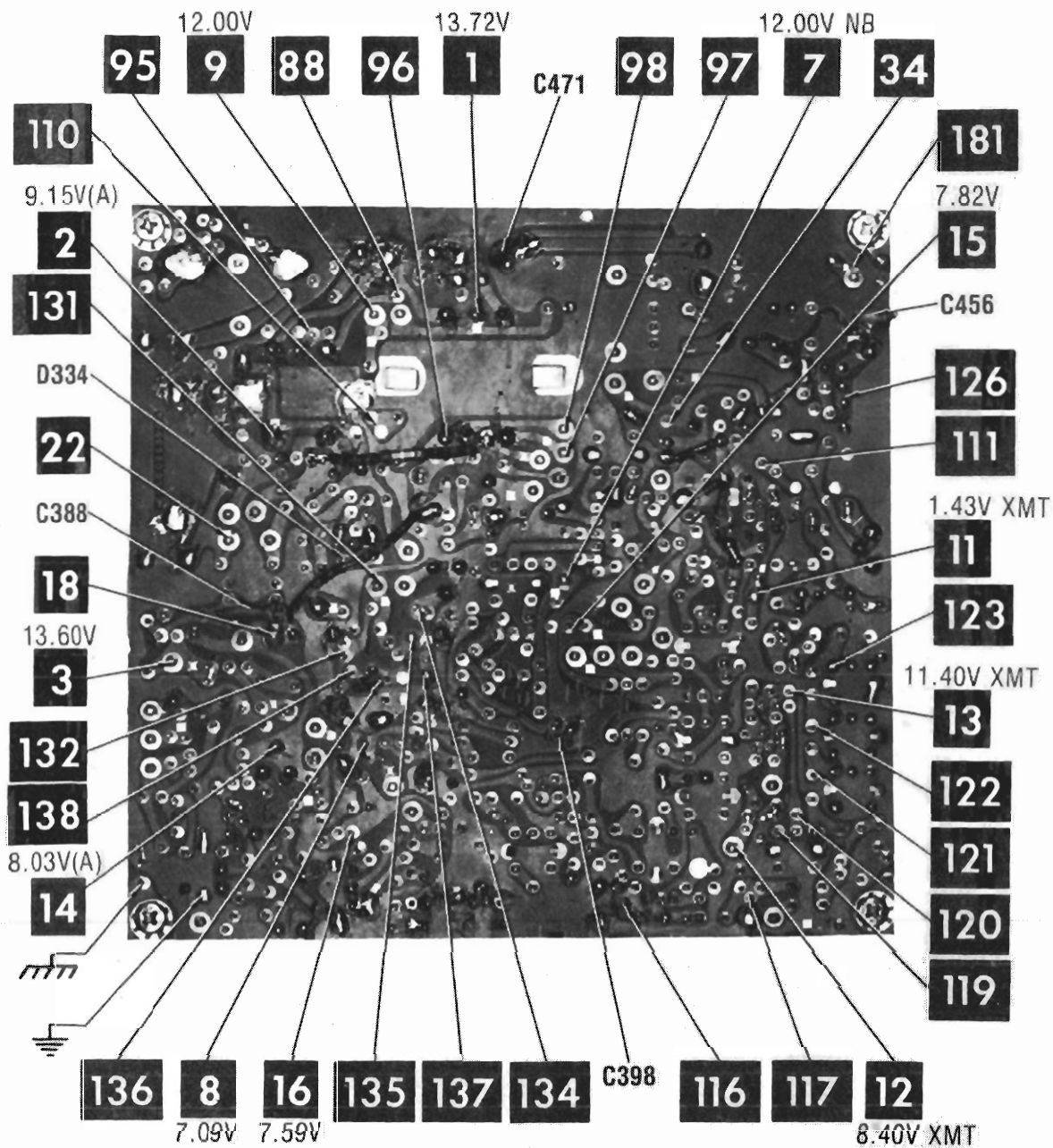
C H A N N E L	PROGRAM DIVIDER I201								REC and XMT VCO OUTPUT IN MHz AT TP2	DIVIDER INPUT IN MHz AT TP3	
	PINS										
	8	7	6	5	4	3	2	1			
1	0	1	0	1	1	0	1	1	17.180	.910	
2	0	1	0	1	1	1	0	0	17.190	.920	
3	0	1	0	1	1	1	0	1	17.200	.930	
4	0	1	0	1	1	1	1	1	17.220	.950	
5	0	1	1	0	0	0	0	0	17.230	.960	
6	0	1	1	0	0	0	0	1	17.240	.970	
7	0	1	1	0	0	0	1	0	17.250	.980	
8	0	1	1	0	0	1	0	0	17.270	1.000	
9	0	1	1	0	0	1	0	1	17.280	1.010	
10	0	1	1	0	0	1	1	0	17.290	1.020	
11	0	1	1	0	0	1	1	1	17.300	1.030	
12	0	1	1	0	1	0	0	1	17.320	1.050	
13	0	1	1	0	1	0	1	0	17.330	1.060	
14	0	1	1	0	1	0	1	1	17.340	1.070	
15	0	1	1	0	1	1	0	0	17.350	1.080	
16	0	1	1	0	1	1	1	0	17.370	1.100	
17	0	1	1	0	1	1	1	1	17.380	1.110	
18	0	1	1	1	0	0	0	0	17.390	1.120	
19	0	1	1	1	0	0	0	1	17.400	1.130	
20	0	1	1	1	0	0	1	1	17.420	1.150	
21	0	1	1	1	0	1	0	0	17.430	1.160	
22	0	1	1	1	0	1	0	1	17.440	1.170	
23	0	1	1	1	1	0	0	0	17.470	1.200	
24	0	1	1	1	0	1	1	0	17.450	1.180	
25	0	1	1	1	0	1	1	1	17.460	1.190	
26	0	1	1	1	1	0	0	1	17.480	1.210	
27	0	1	1	1	1	0	1	0	17.490	1.220	
28	0	1	1	1	1	0	1	1	17.500	1.230	
29	0	1	1	1	1	1	0	0	17.510	1.240	
30	0	1	1	1	1	1	0	1	17.520	1.250	
31	0	1	1	1	1	1	1	0	17.530	1.260	
32	0	1	1	1	1	1	1	1	17.540	1.270	
33	1	0	0	0	0	0	0	0	17.550	1.280	
34	1	0	0	0	0	0	0	1	17.560	1.290	
35	1	0	0	0	0	0	1	0	17.570	1.300	
36	1	0	0	0	0	0	1	1	17.580	1.310	
37	1	0	0	0	0	1	0	0	17.590	1.320	
38	1	0	0	0	0	1	0	1	17.600	1.330	
39	1	0	0	0	0	1	1	0	17.610	1.340	
40	1	0	0	0	0	1	1	1	17.620	1.350	



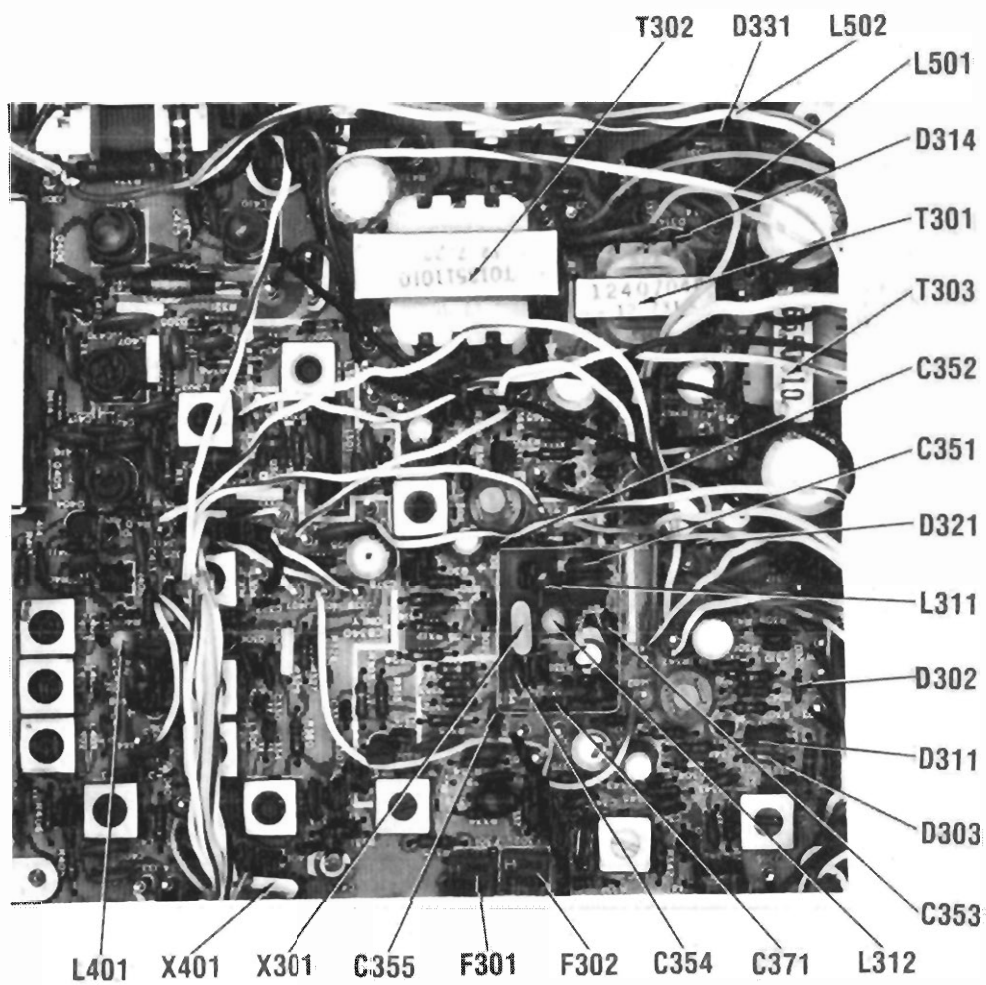
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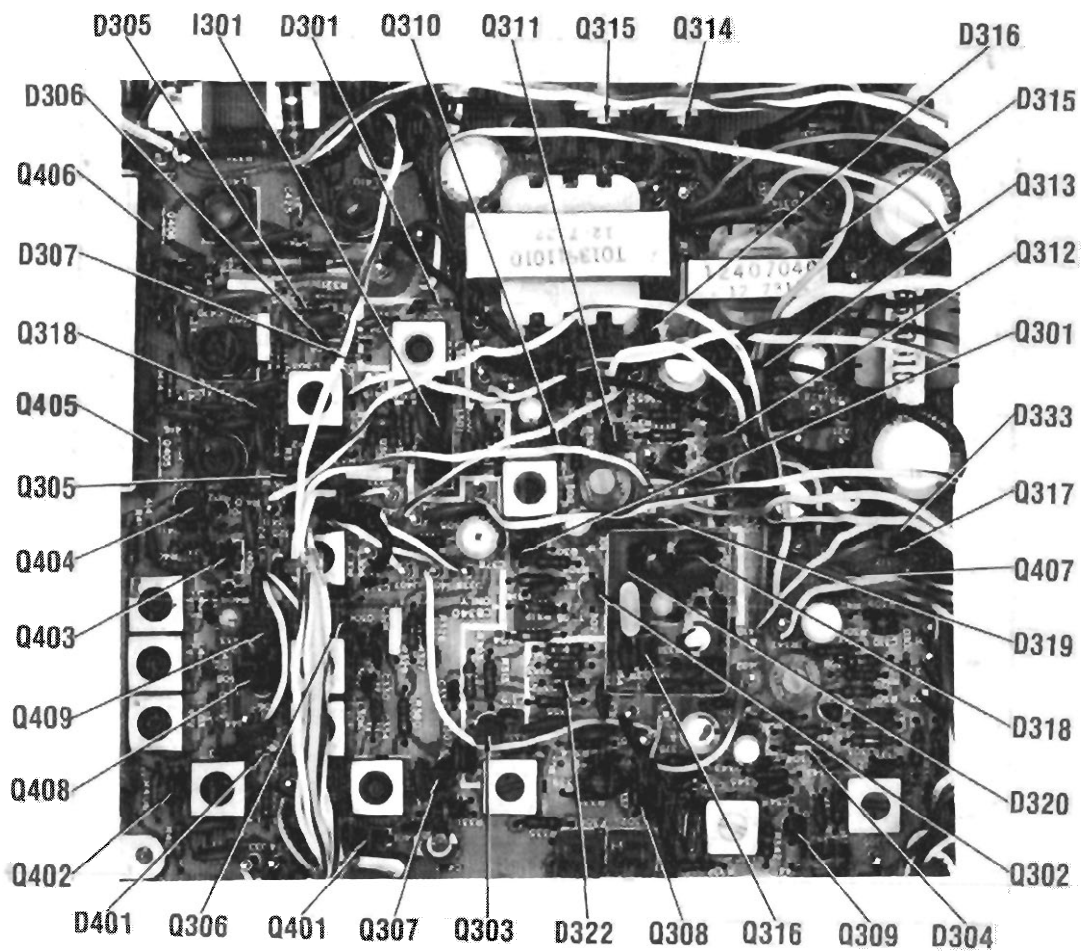
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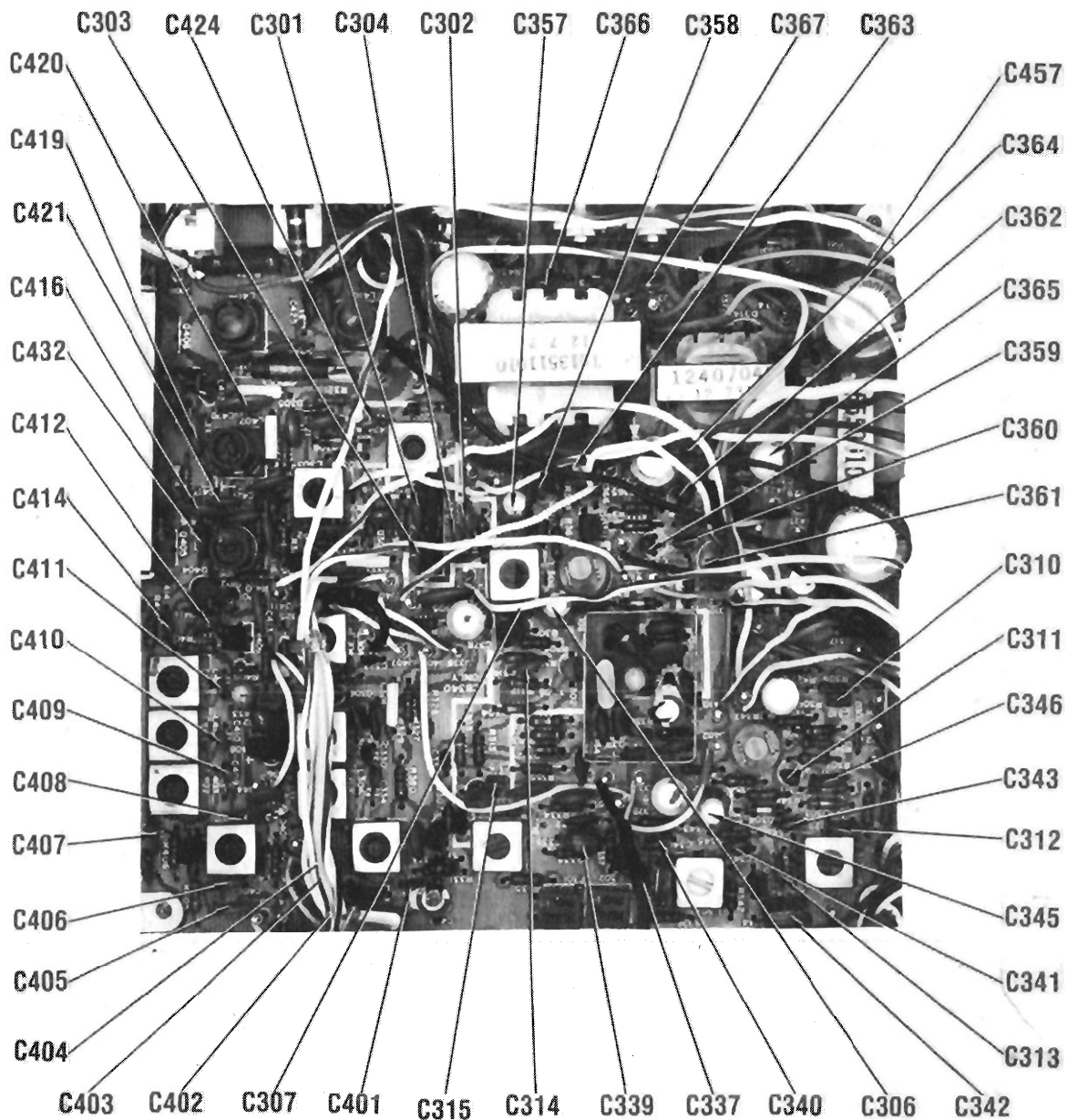
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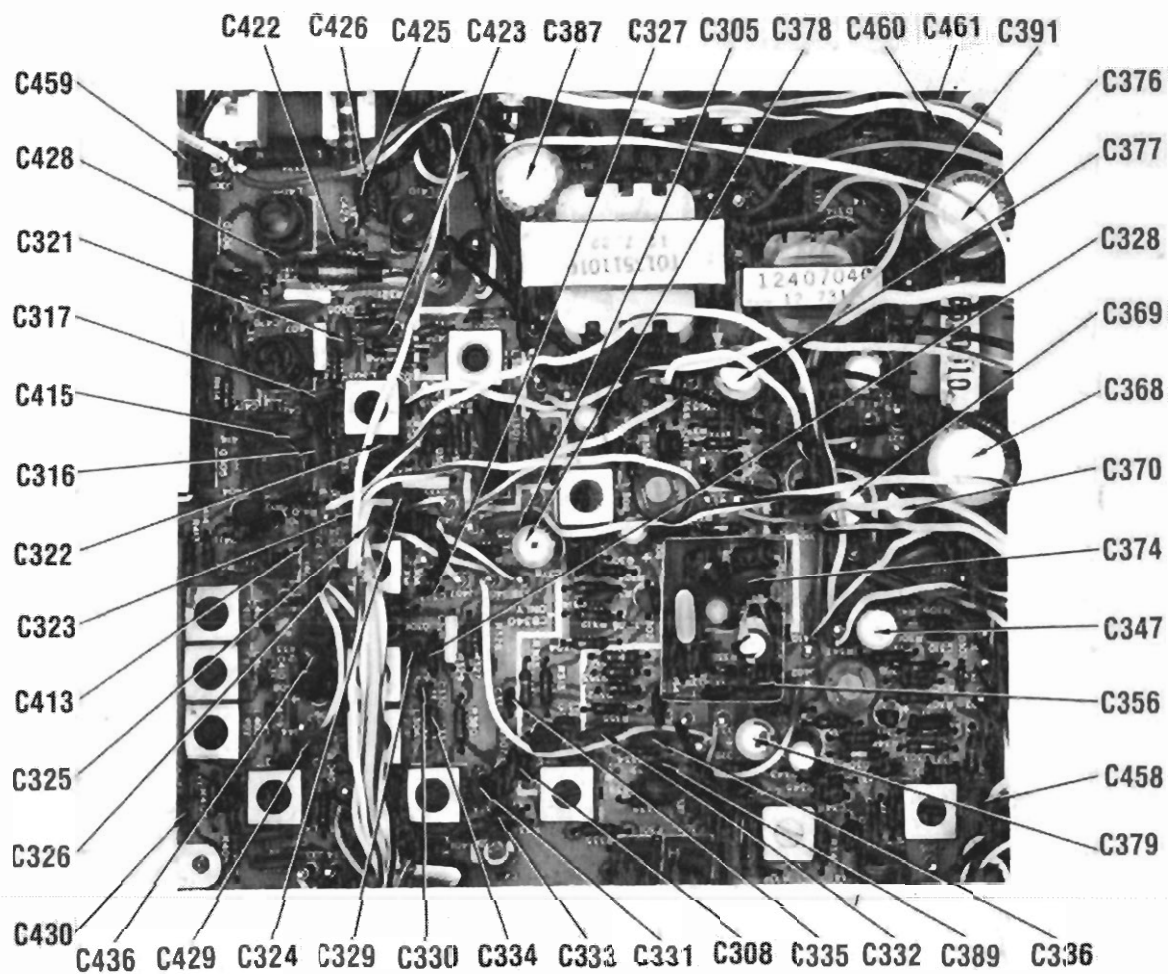
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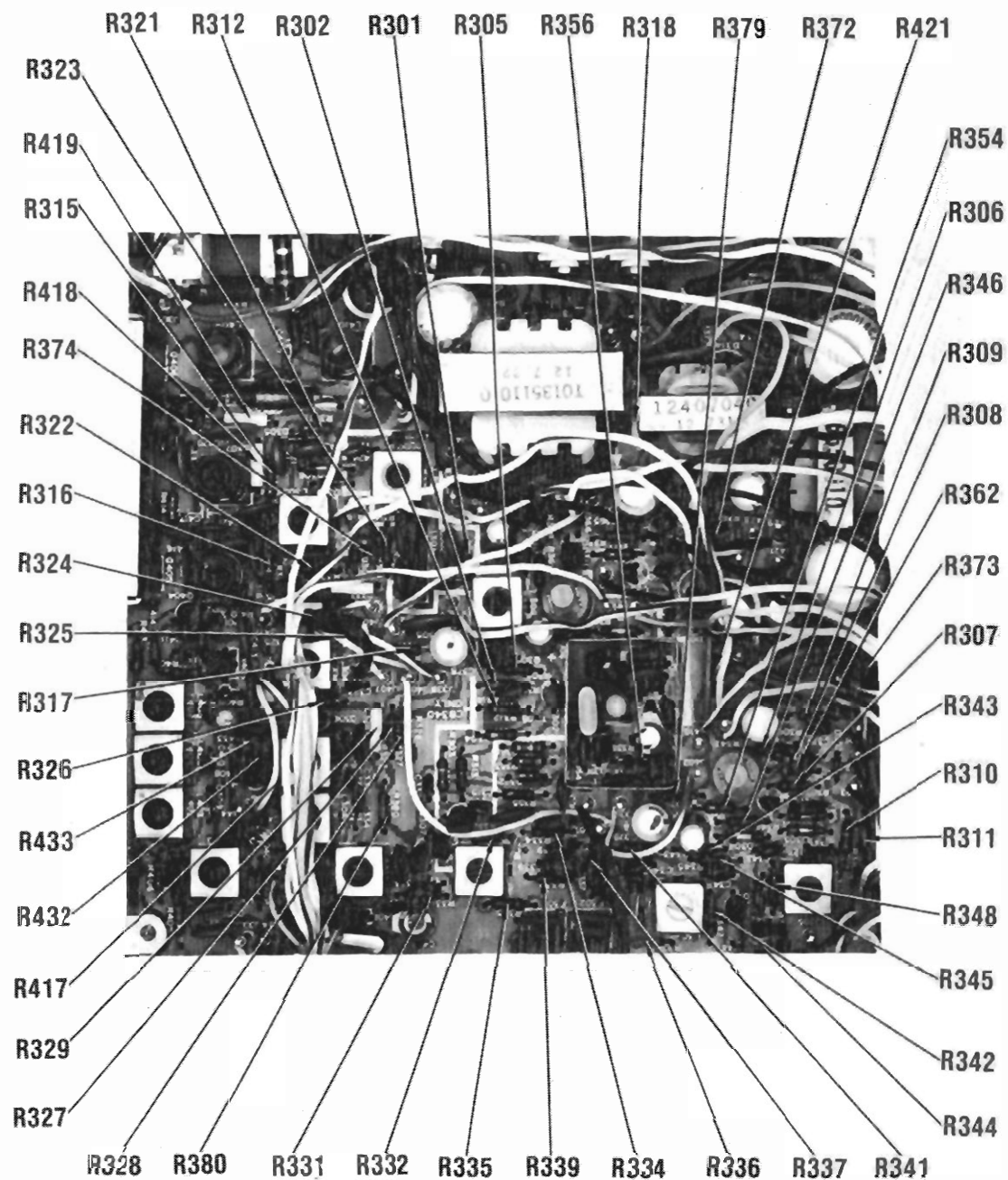
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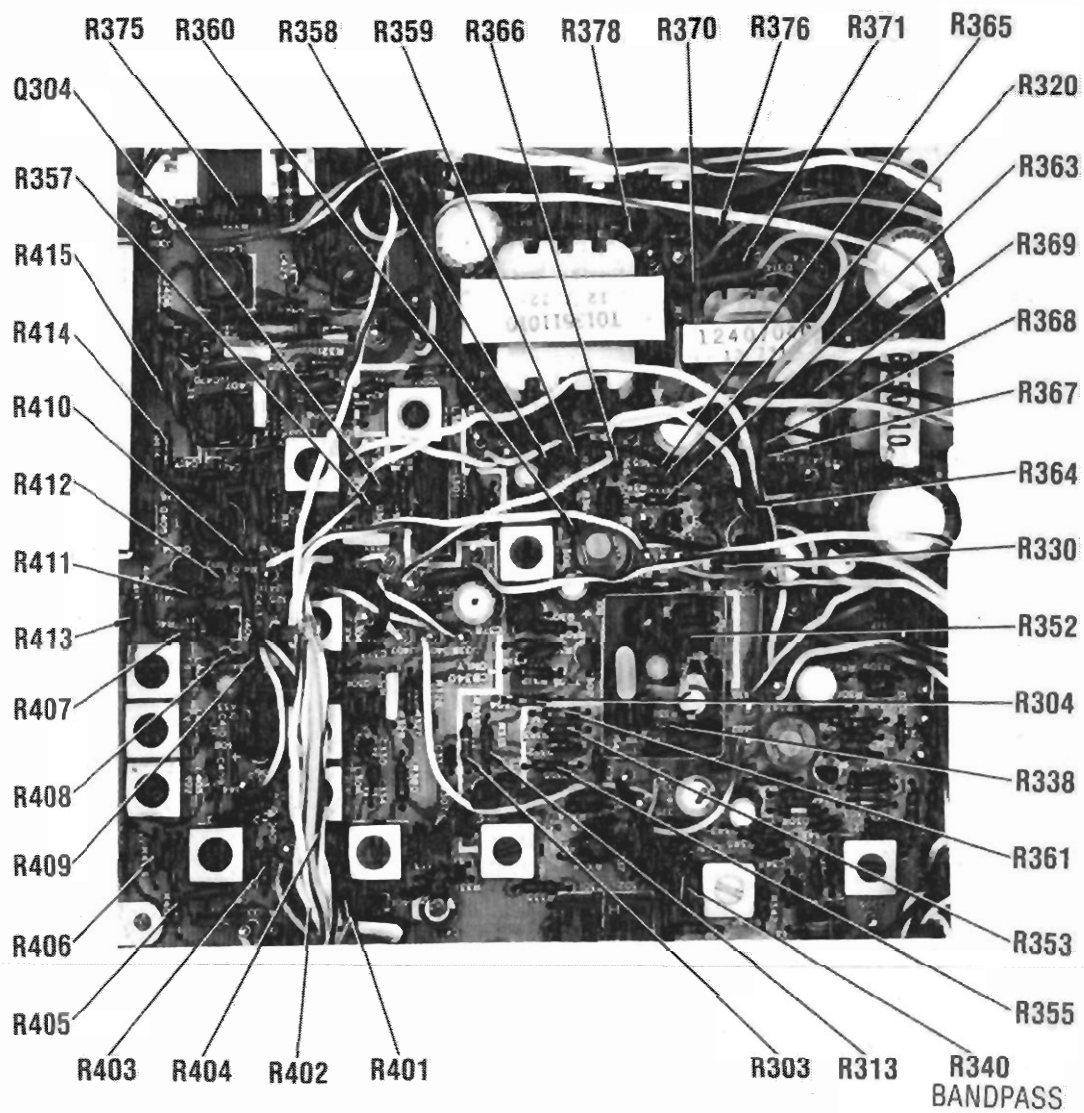
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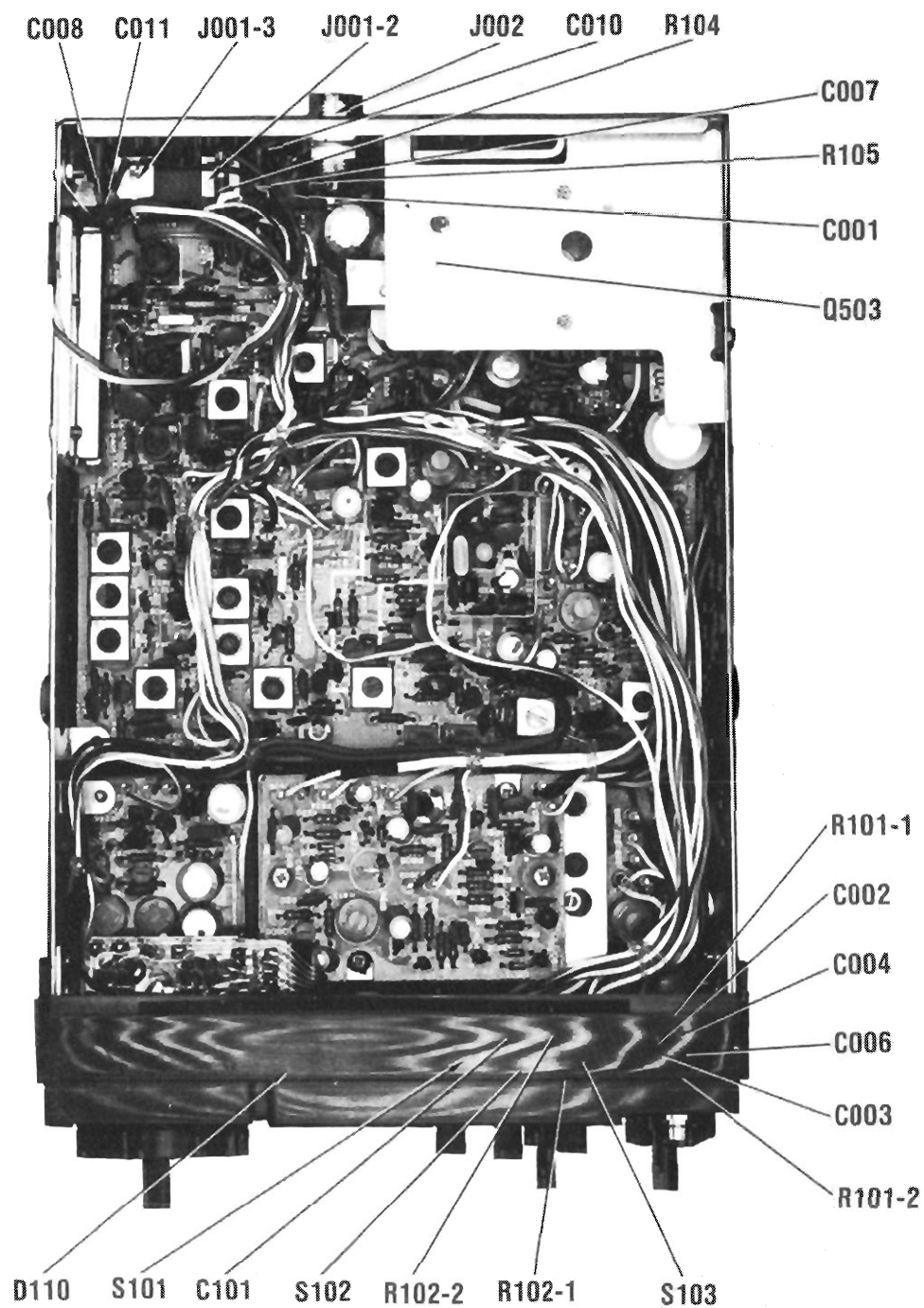
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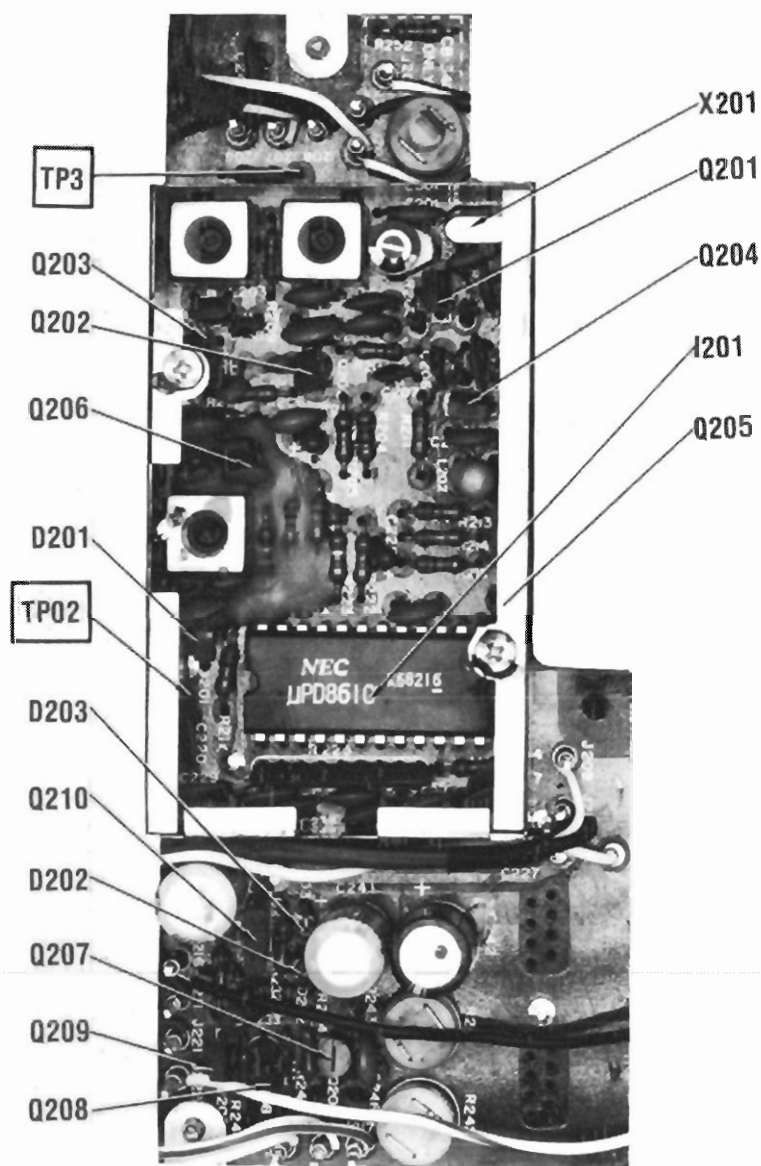
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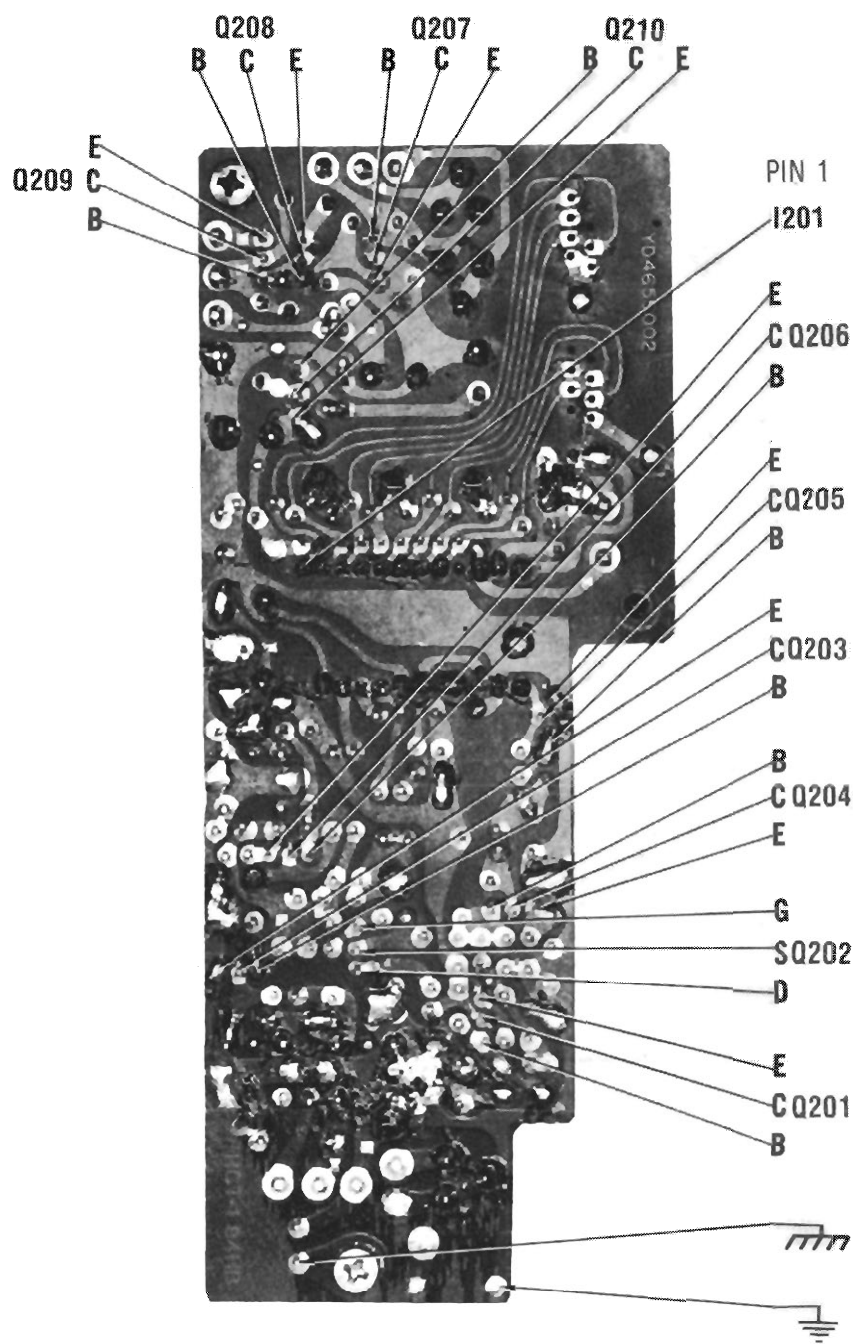
MAIN BOARD



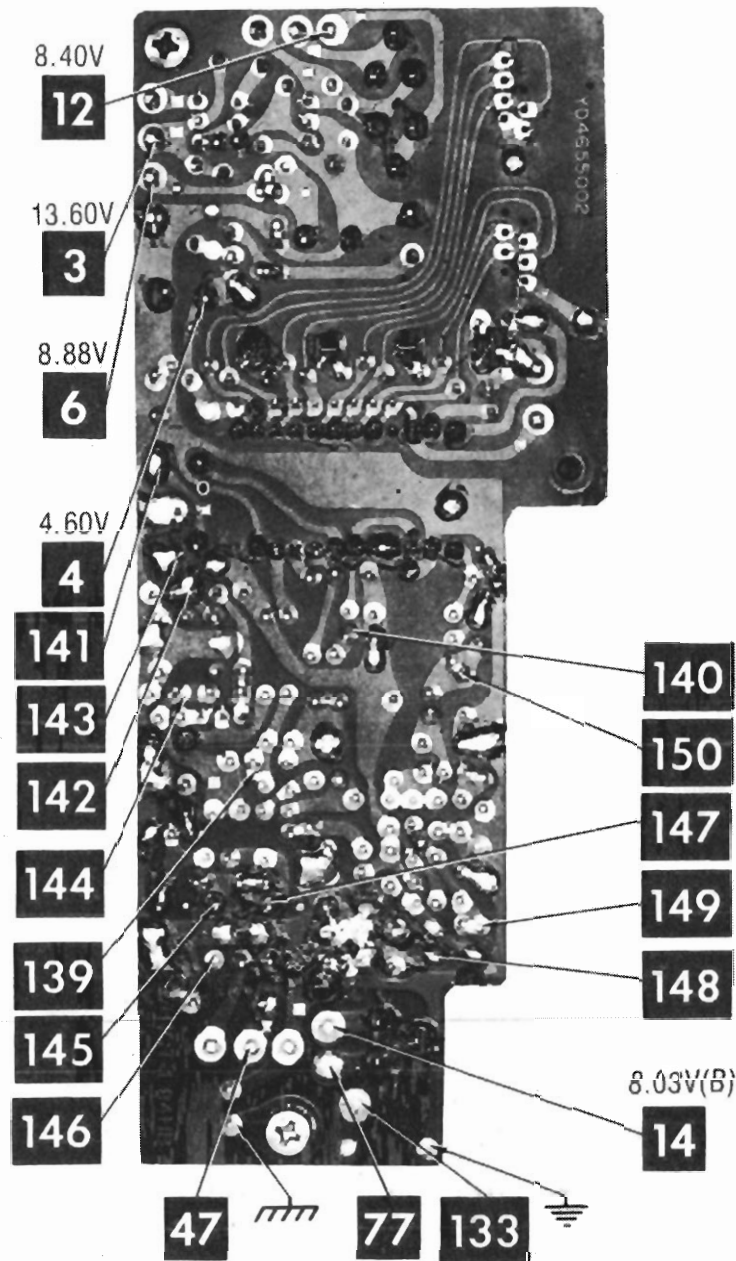
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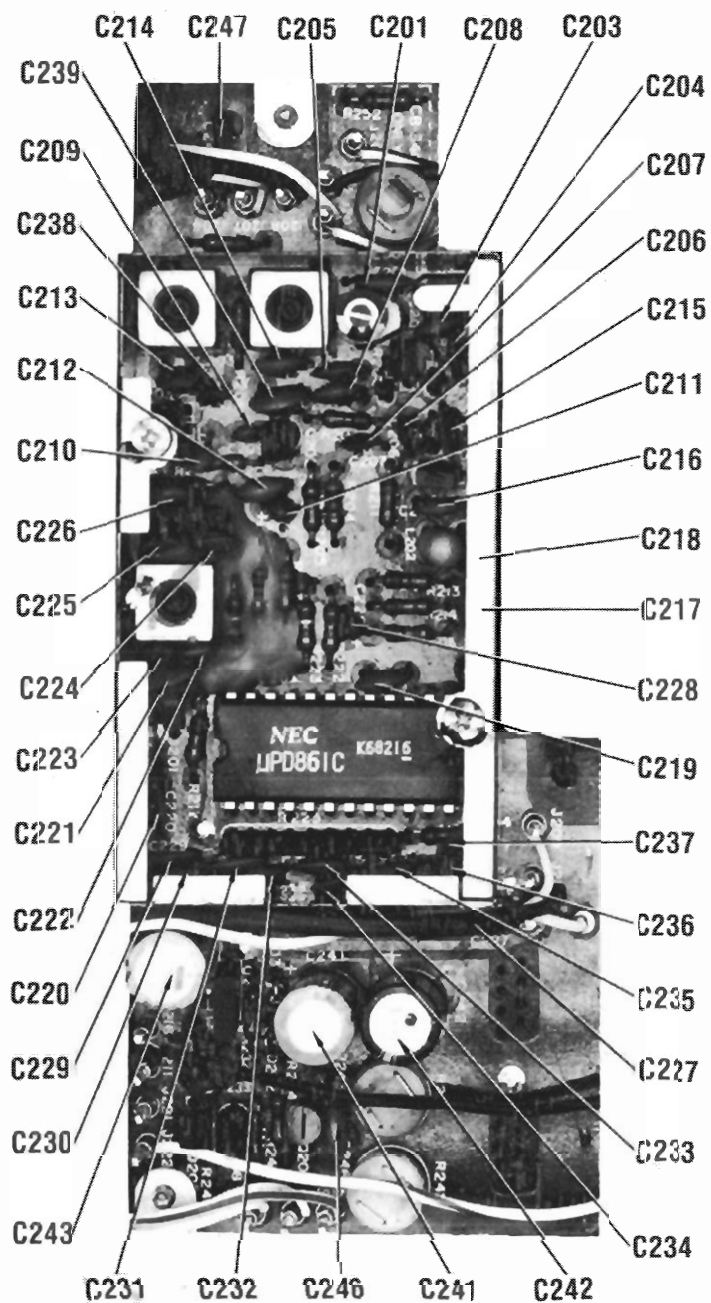
PLL & METER BOARD



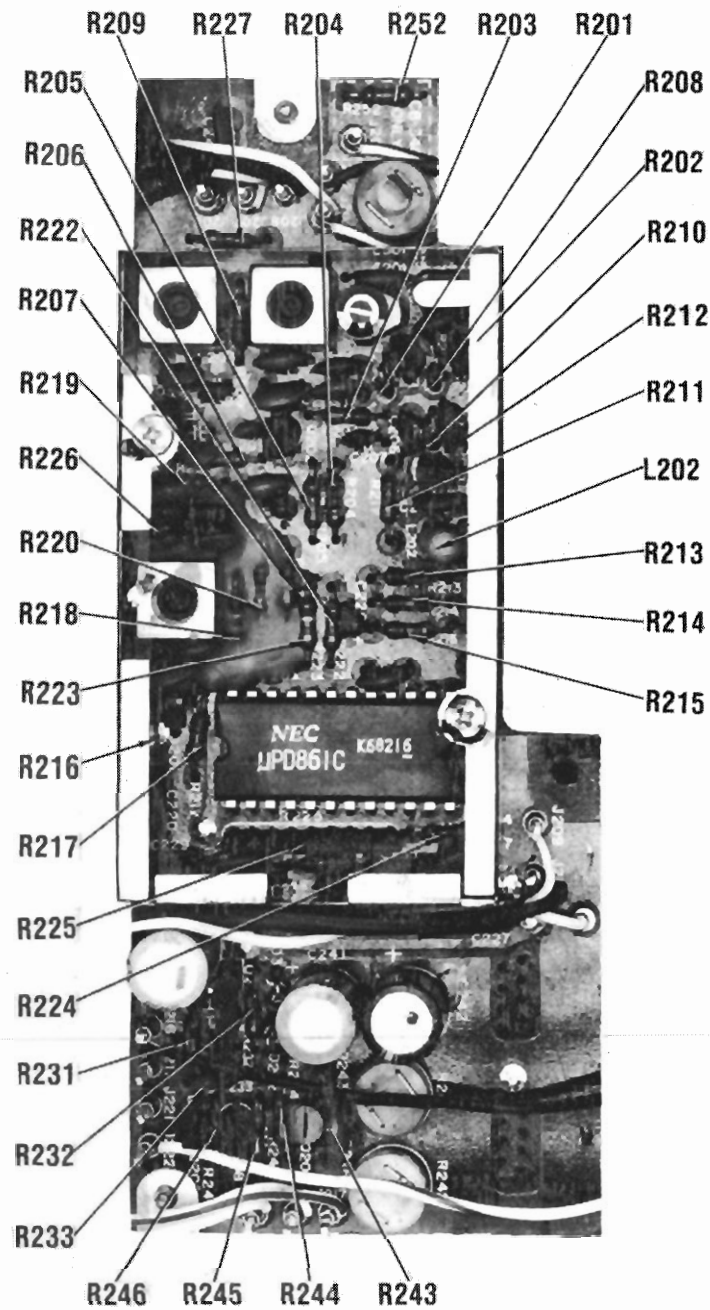
PLL & METER BOARD



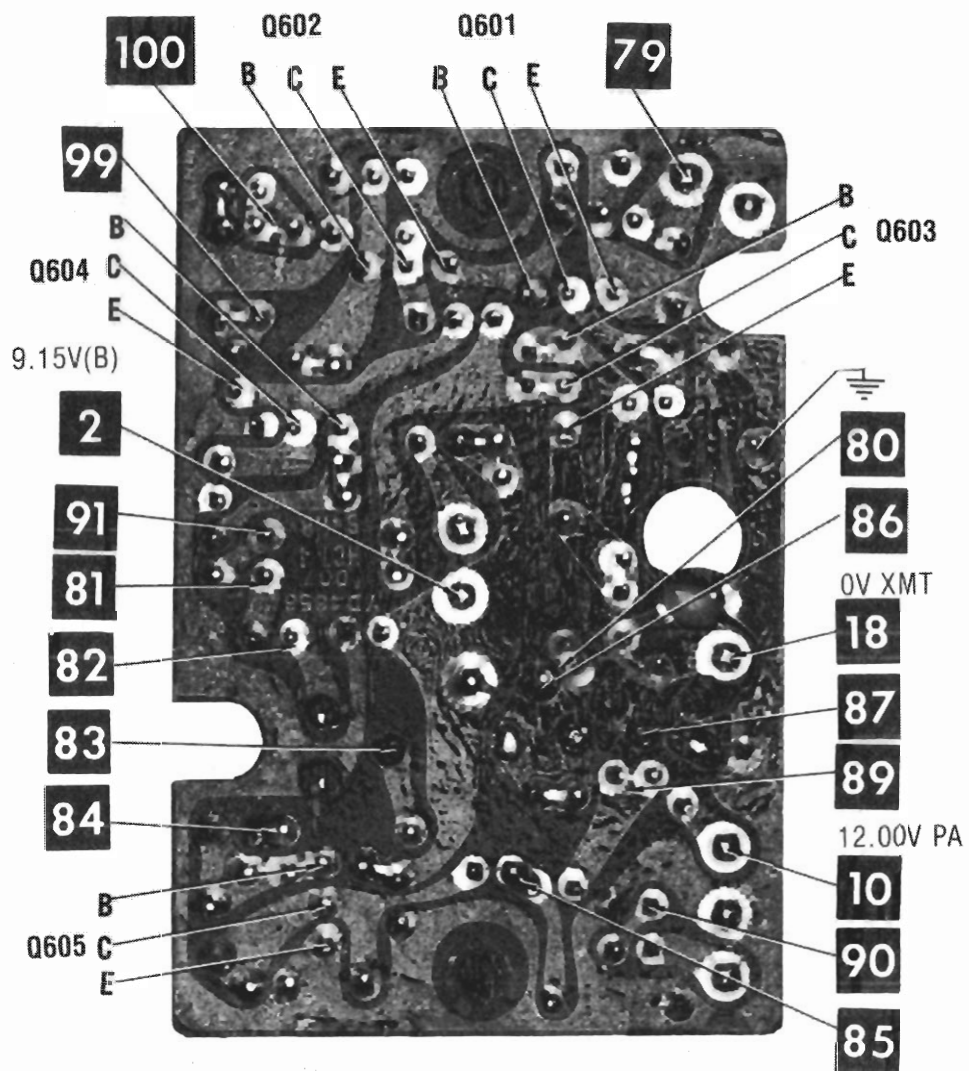
PLL & METER BOARD



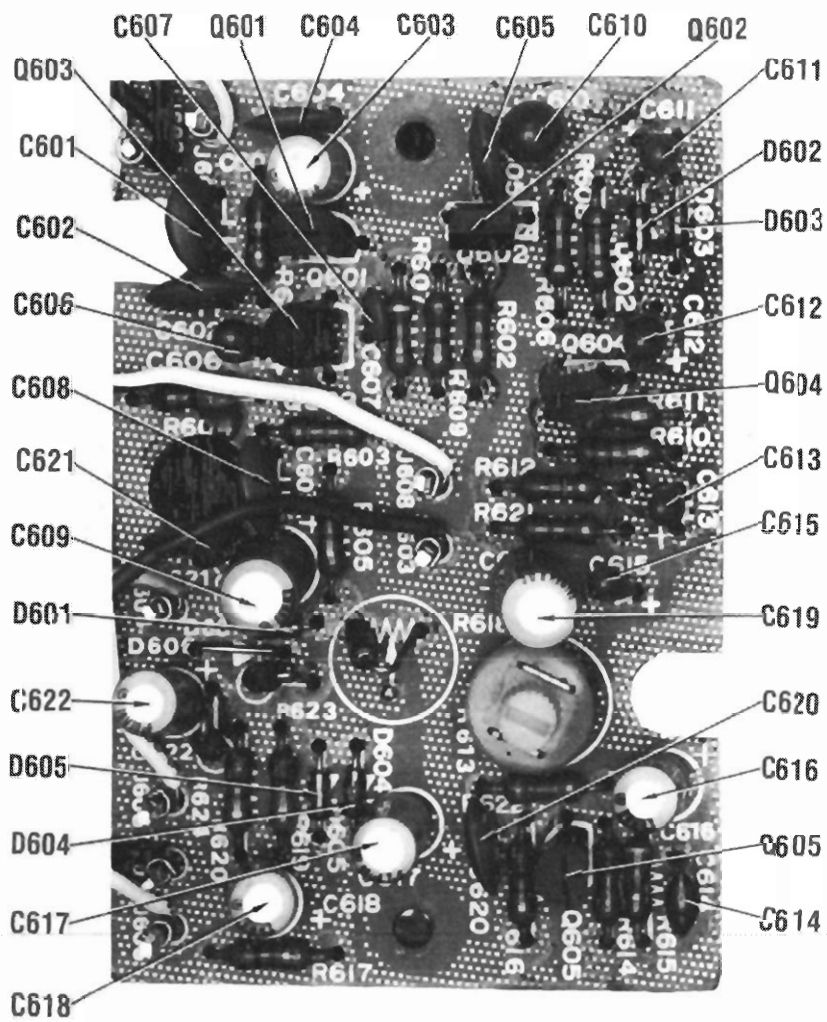
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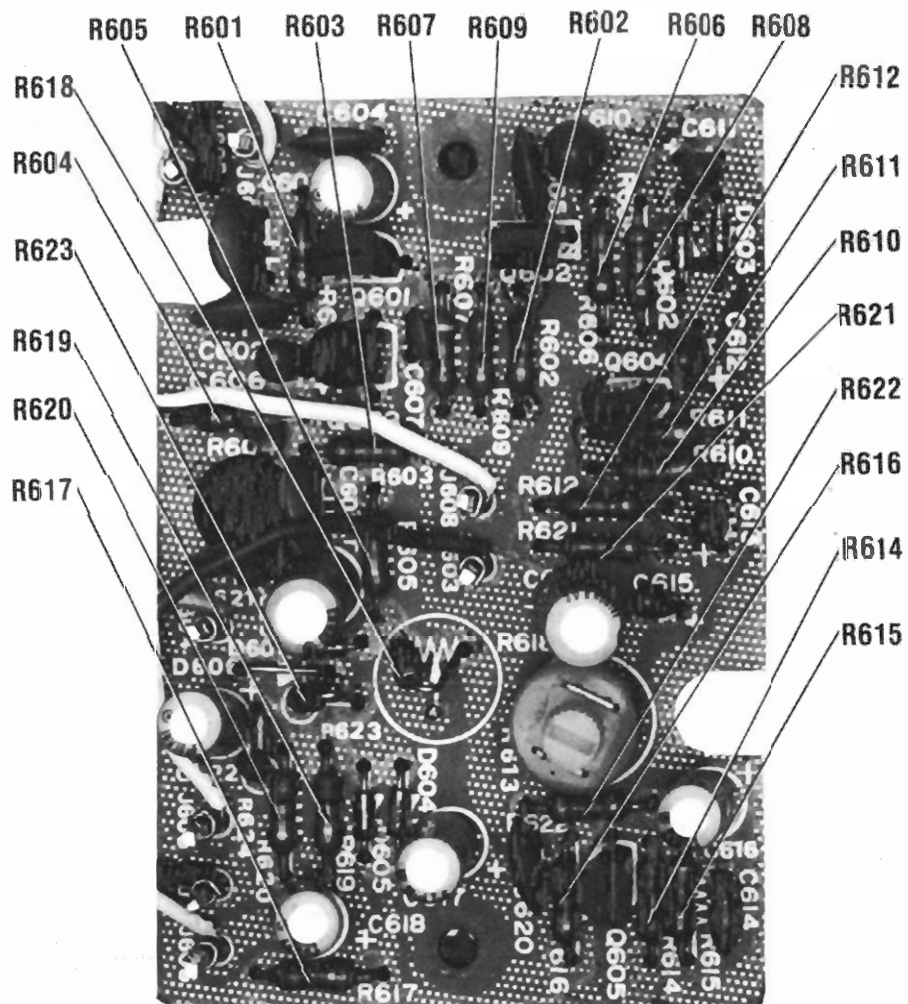
PLL & METER BOARD



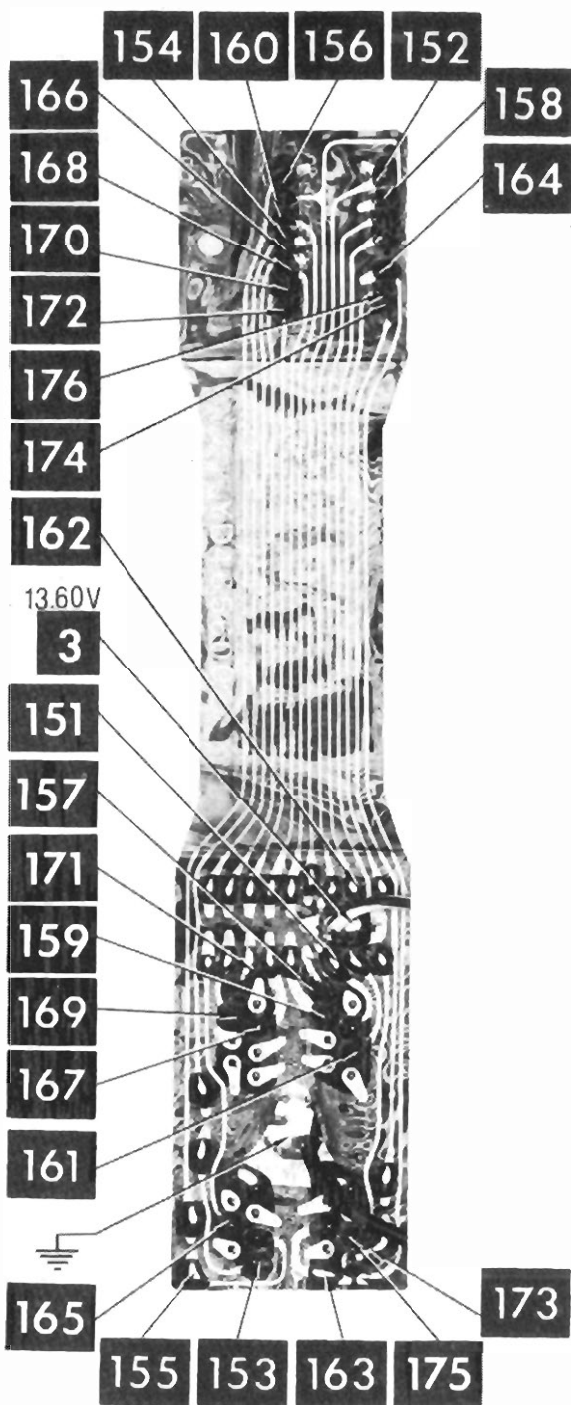
ALC & MIC BOARD



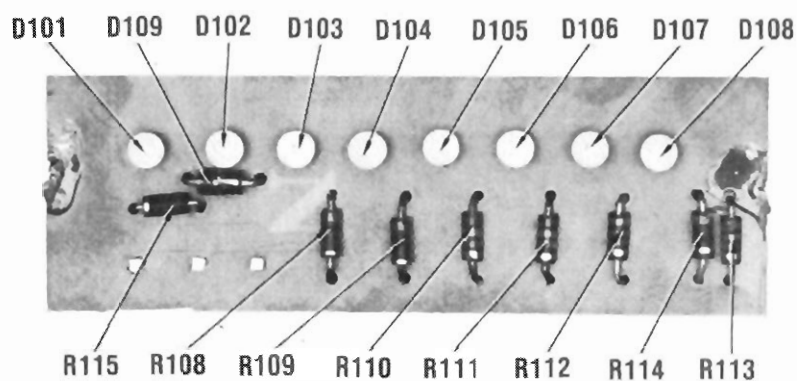
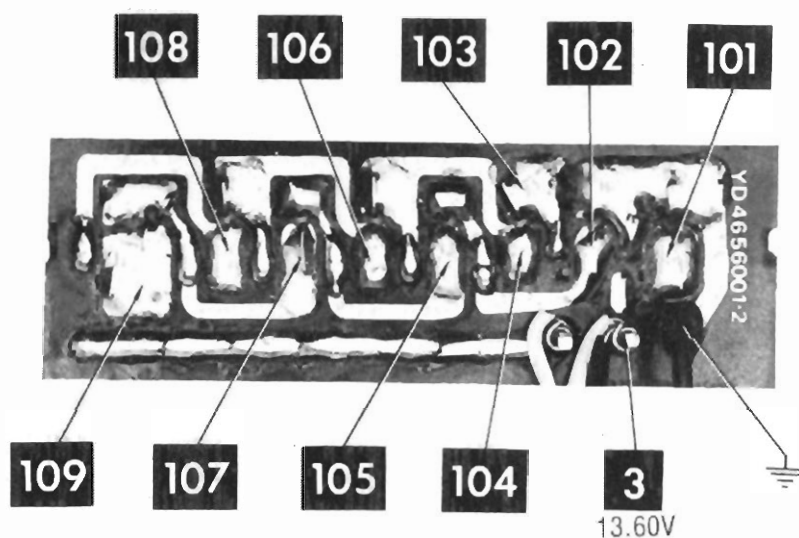
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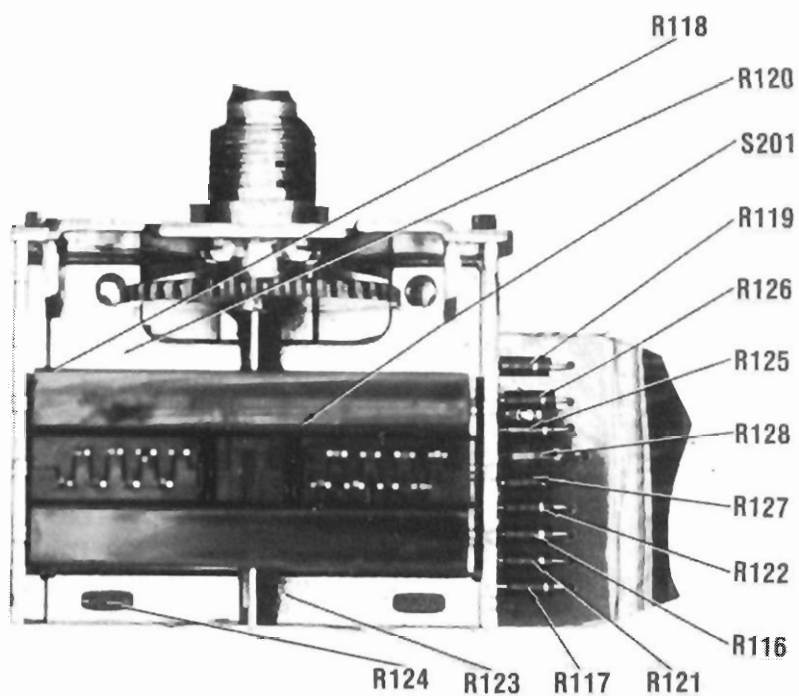
ALC & MIC BOARD



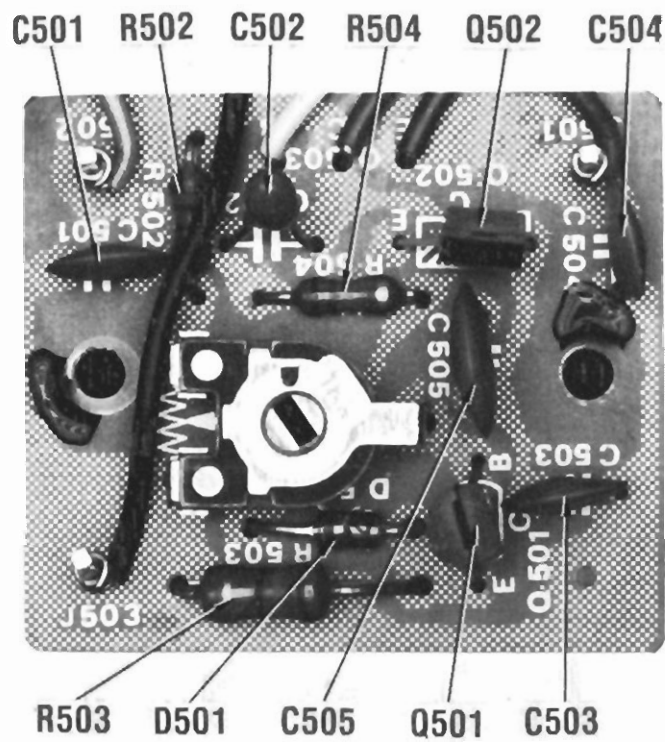
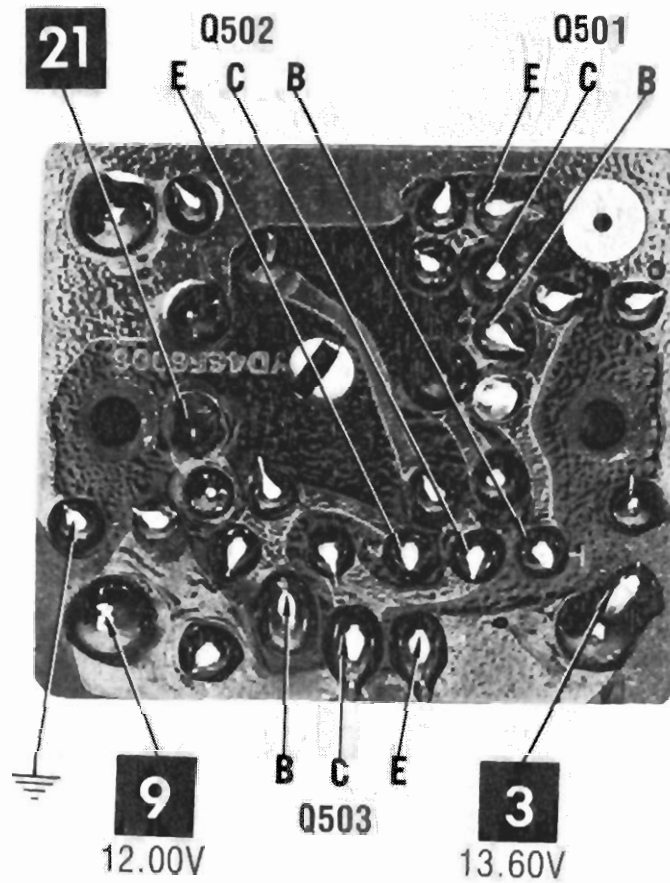
CH. SELECTOR & INDICATOR BOARD



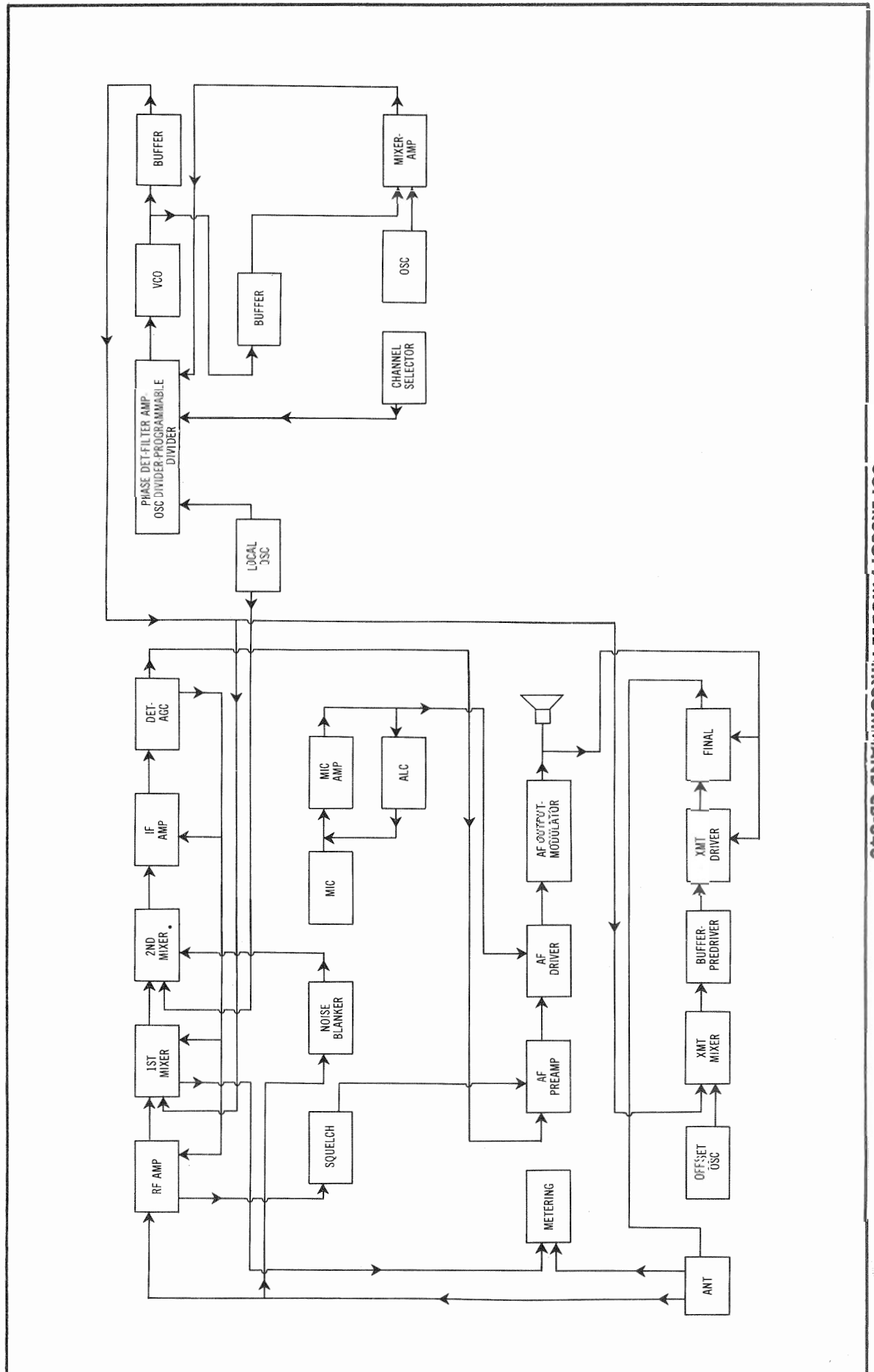
METER LED BOARD

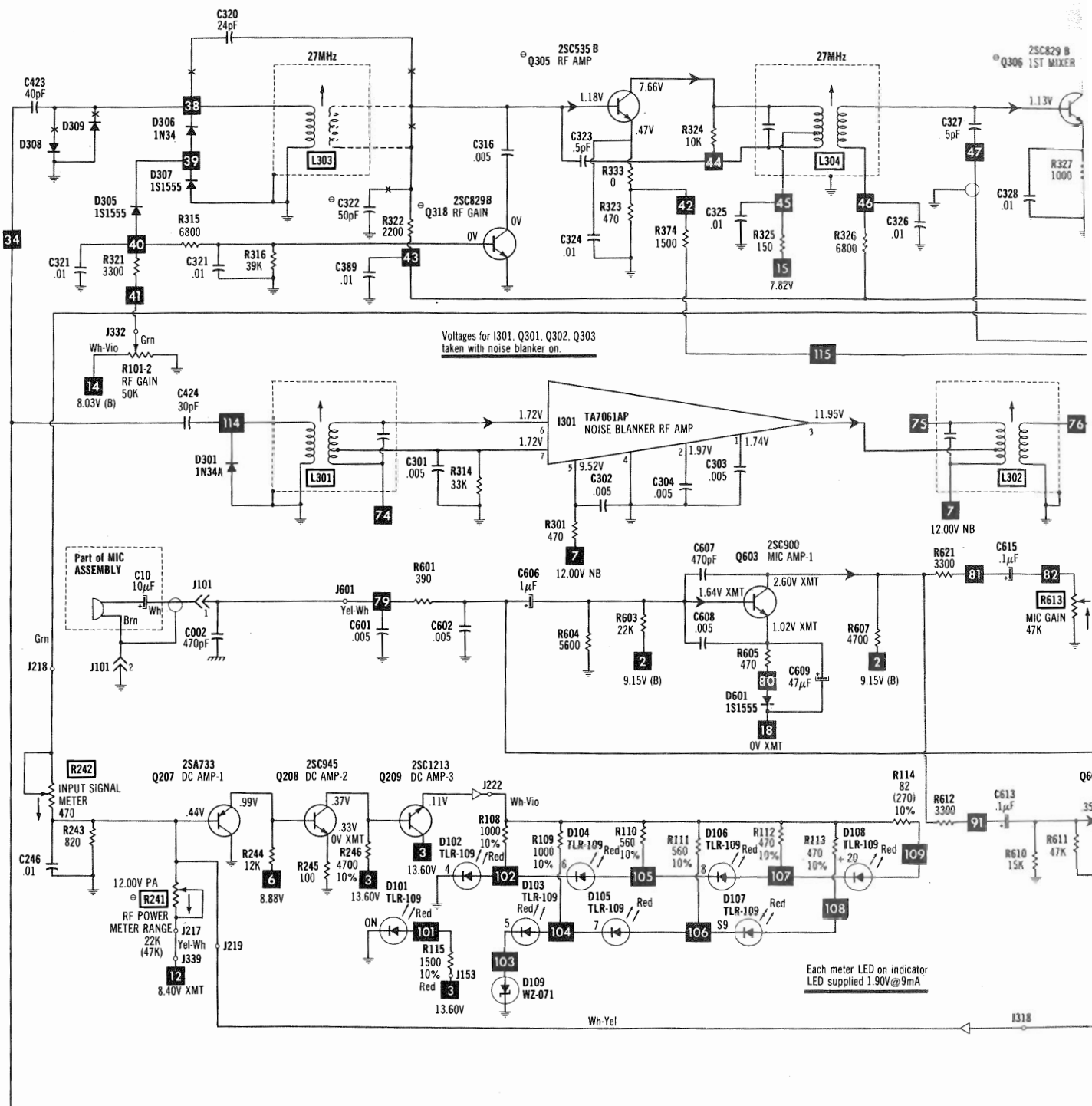


CH. SELECTOR BOARD



VOLTAGE REGULATOR BOARD





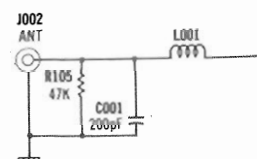
Measurements made in Channel 19 with switching in receive unless noted.
 Item numbers in rectangles appear in the alignment/adjustment instructions.
 Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Terminal identification 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).

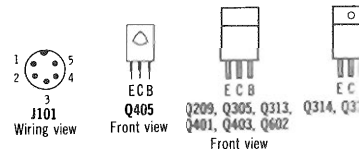
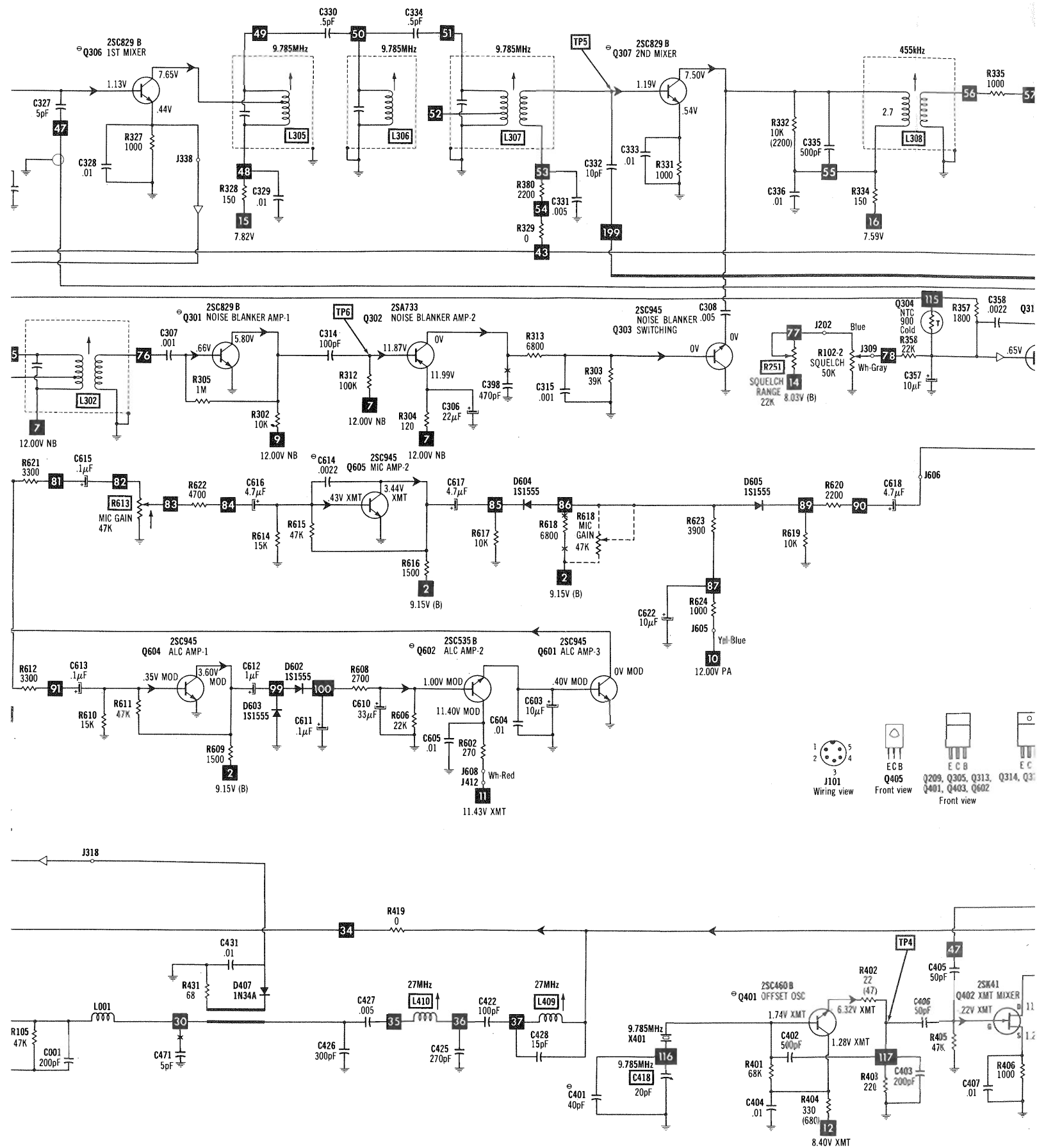
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

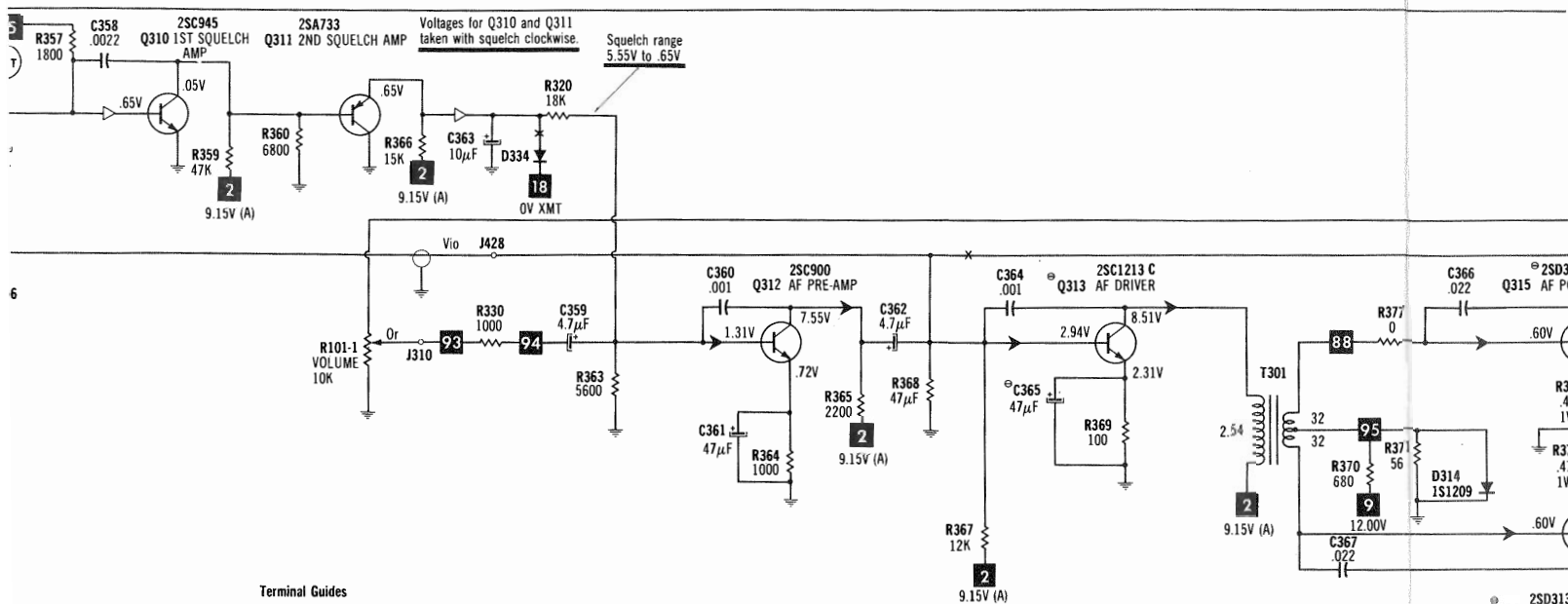
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- ✖ Circuitry not used in some versions.
- Circuitry used in some versions.
- ✱ Nominal value
- ⊥ Ground
- ⏏ Chassis
- ⊙ See parts list
- ▽ Common tie point
- ➡ Signal path
- ⏏ Voltage path

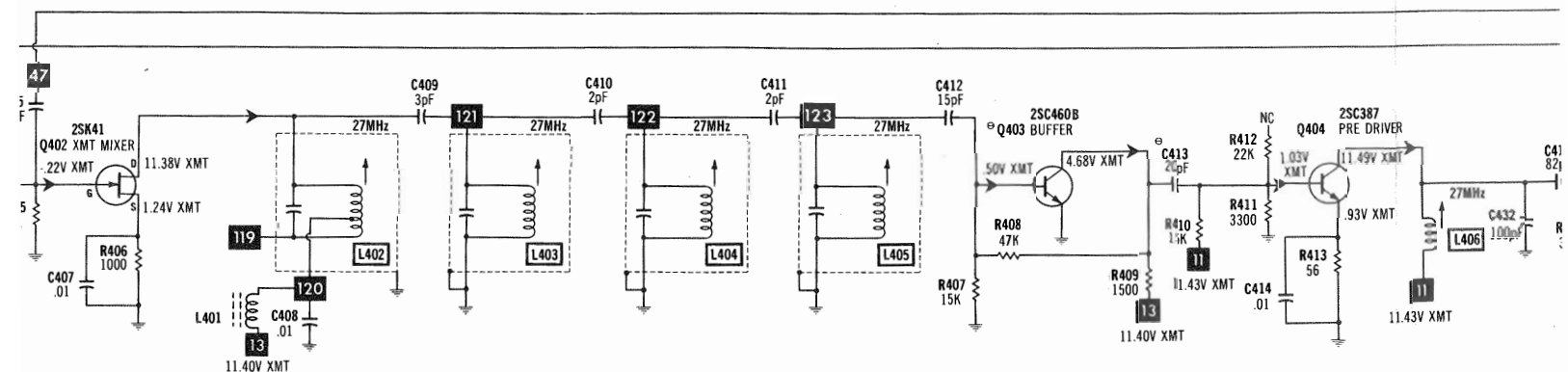
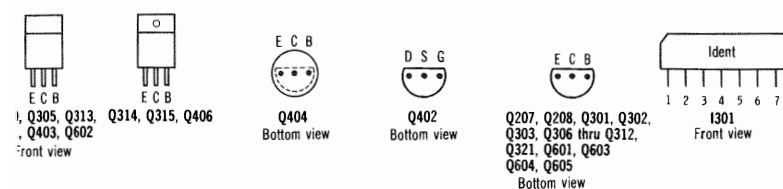




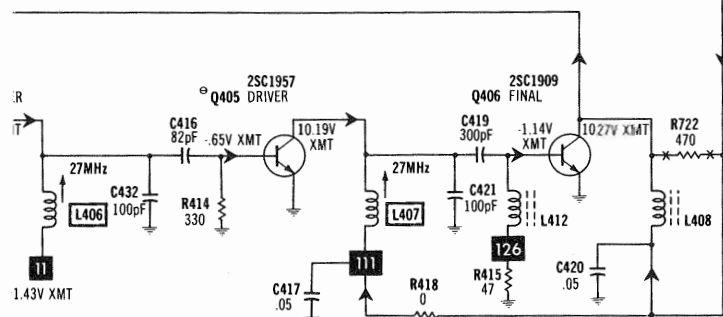
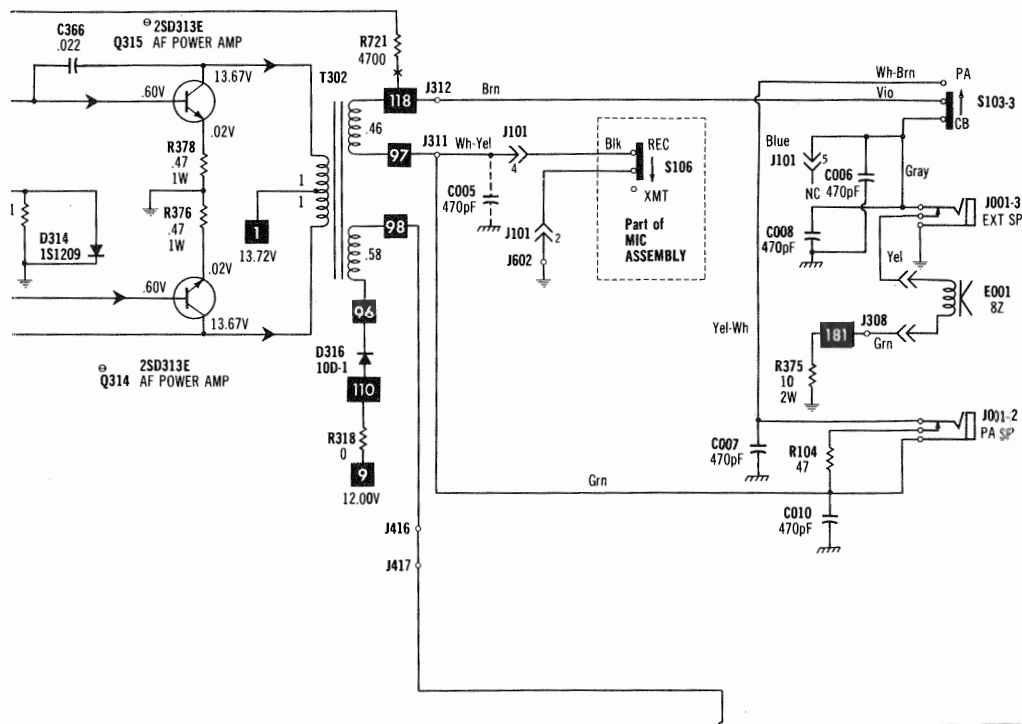
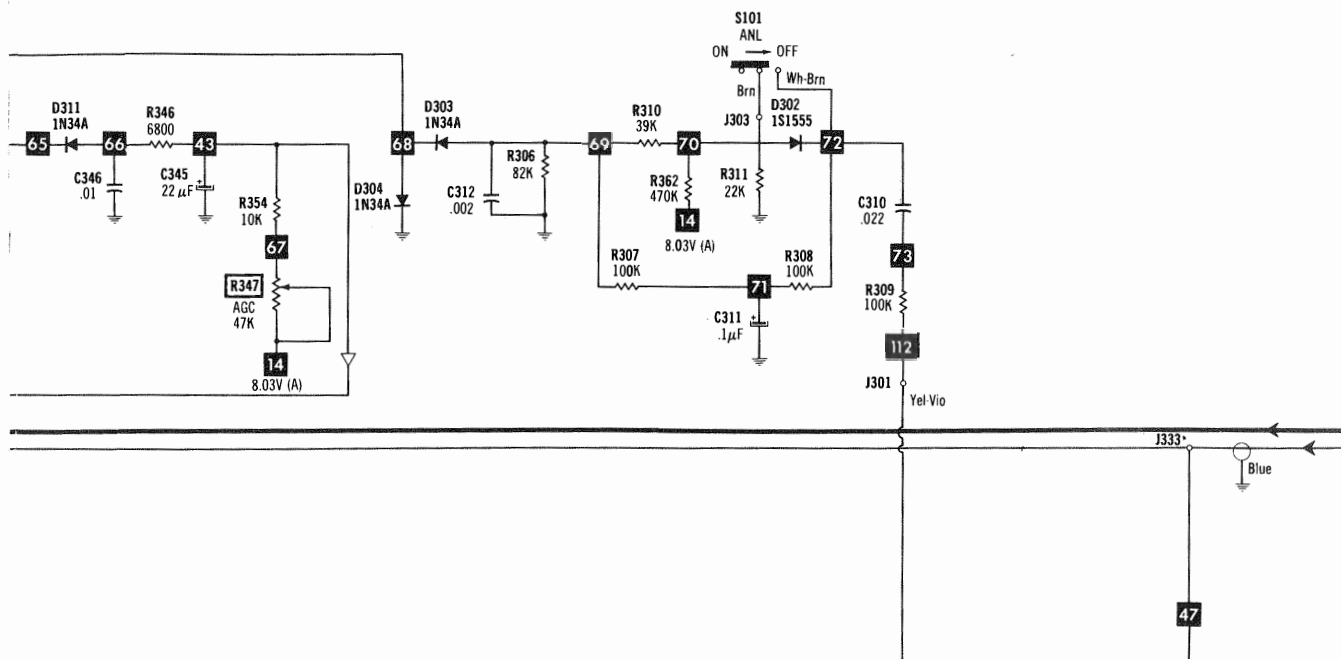
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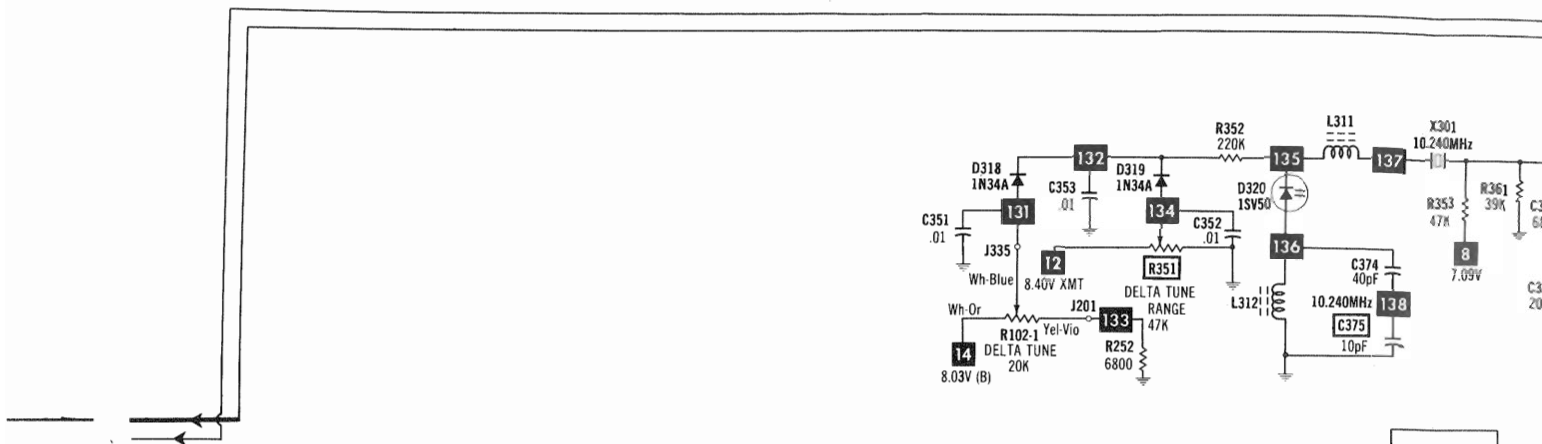


Terminal Guides

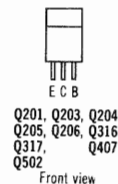
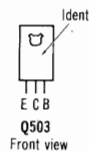
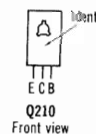
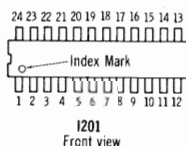
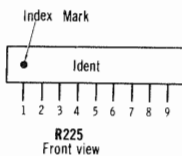
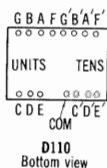


MAIN SCHEMATIC





Terminal Guides



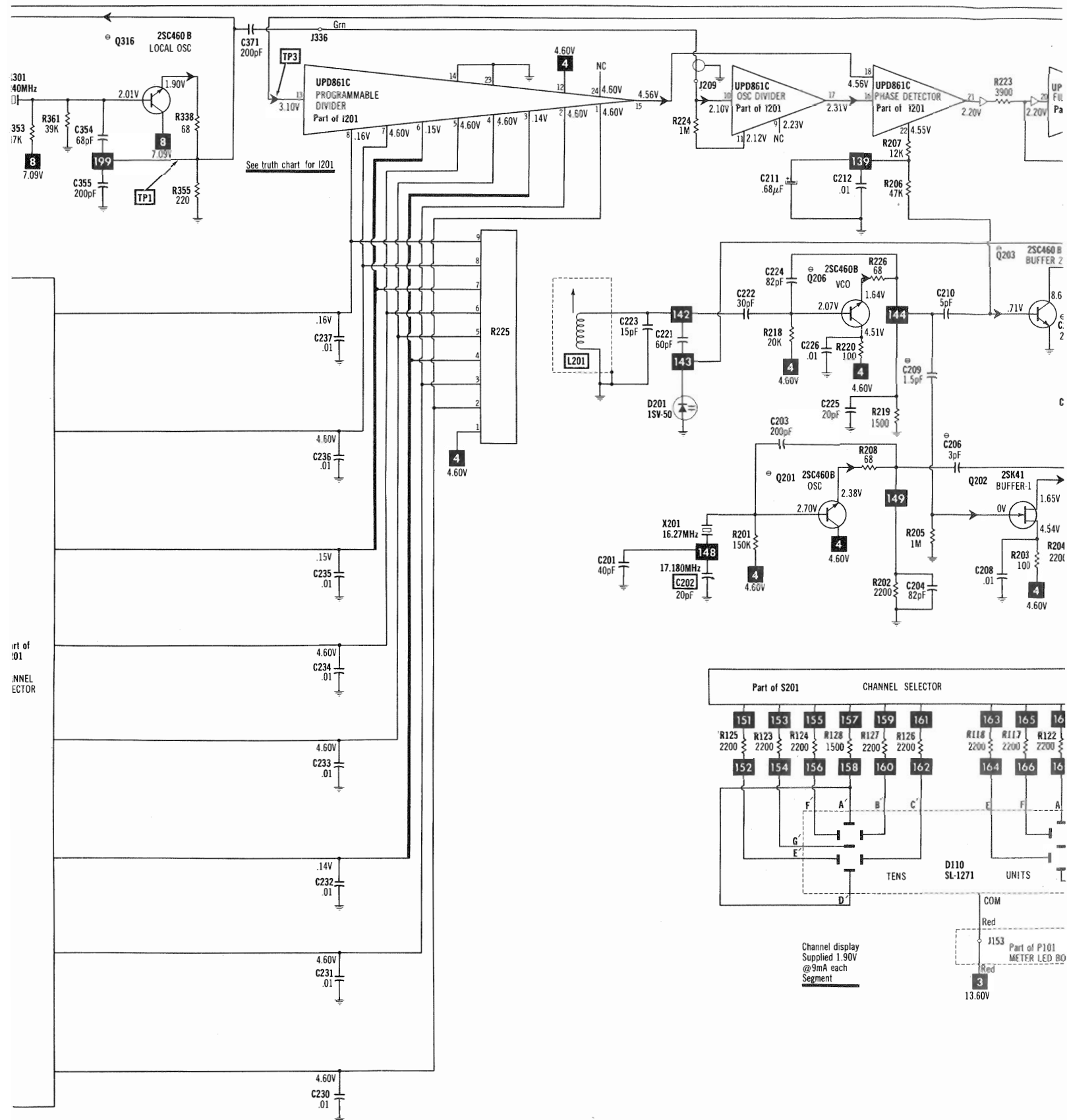
Part of
S201
CHANNEL
SELECTOR

- ✕ Circuitry not used in some versions.
 - Circuitry used in some versions.
 - ✱ Nominal value
 - ⊥ Ground
 - ⏏ Chassis
 - ⊖ See parts list
 - ▽ Common tie point
 - Signal path
 - ⤵ Voltage path
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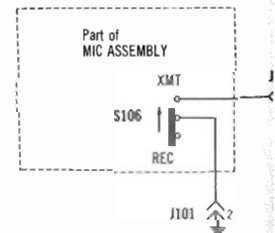
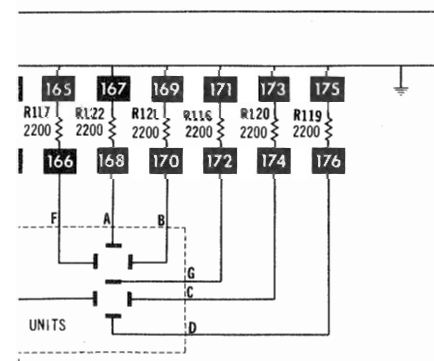
A PHOTOFACT STANDARD NOTATION SCHEMATIC

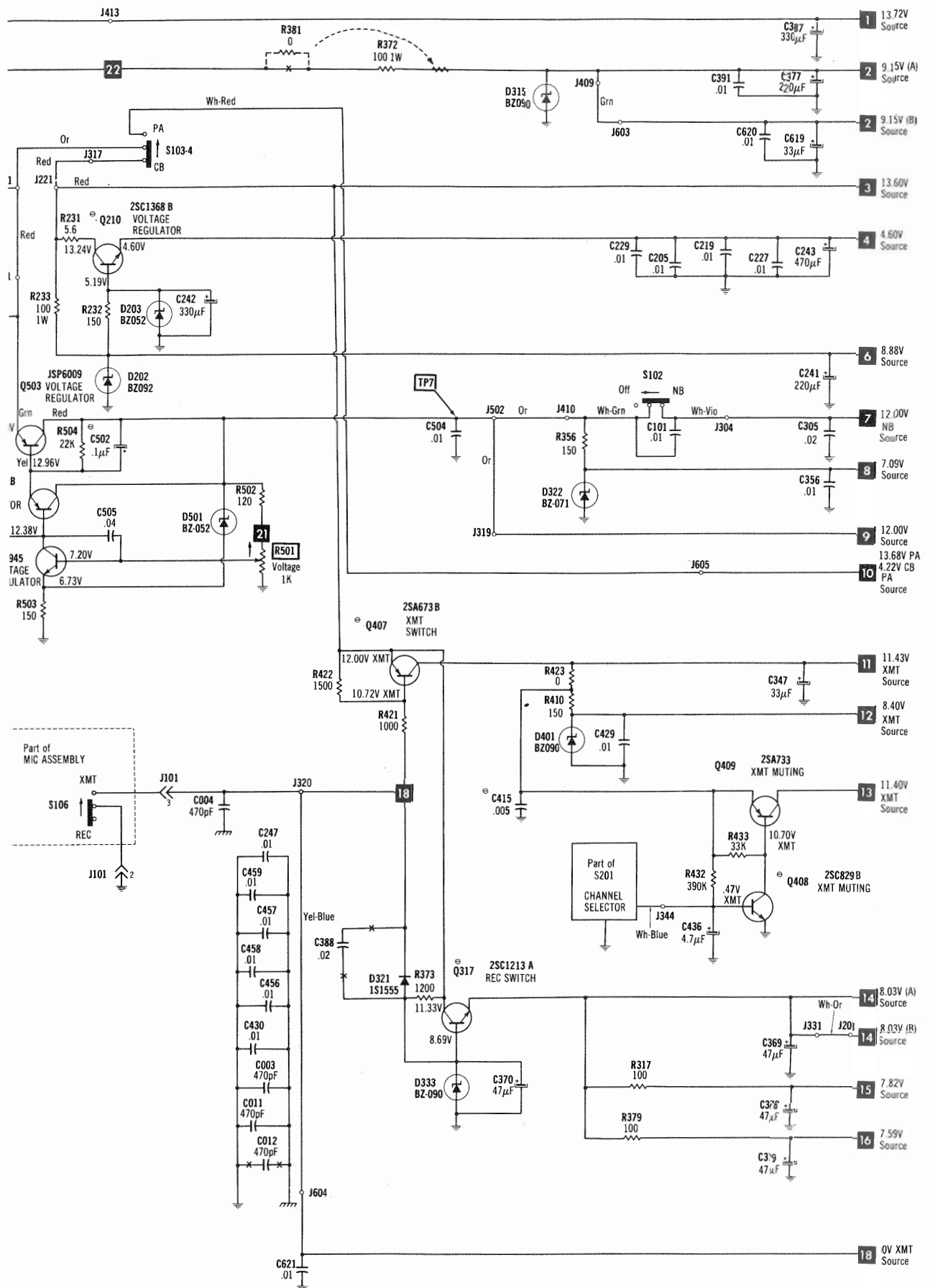
WITH **CIRCUITRACE®**

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PLL & CH. SELECTOR SCHEMATIC





POWER SUPPLY SCHEMATIC

PARTS LIST AND DESCRIPTION

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

PAR
(When

SEMICONDI

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')
Speaker Cable (available in 4 colors)	BELDEN No. 8401		BELDEN No. 8497 (6')
Bonding Strap	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
AC Power Cord	BELDEN No. 8672		28AWG BELDEN No. 9466 (6')
	(6') BELDEN No. 17106	4-conductor (unshielded) 23AWG	BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	5-conductor (1 shielded) 28AWG	BELDEN No. 8415 (6')
			BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D109	WZ-071	HD30023090	GEZD-7.5	ZB7.5B		REN 138	SK3059	RT-239	ECG138A	TM138/**	WEP1107	103-2900*
D201	1S150	HD40001060	GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	103-219
D202	BZ090	HD30017090	GEZD-9.1	ZB9.1B		REN 139	SK3060	RT-240	ECG139A	TM139/**	WEP1109	103-272
D203	BZ052	HD30042090	GEZD-5.1				SK3056	RT-235		TM139/**	WEP1103	103-290
D301	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D302	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D303	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D304	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D305	1S155	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D306	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D307	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D308			GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D309			GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D311	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D314	1S1209	HV00001060			HEPR2500	REN 139	SK3060	RT-240	ECG139A	TM139/**	WEP1109	103-272
D315	BZ090	HD30017090	GEZD-9.1	ZB9.1B		REN 116	SK3111	RT-213	ECG116	TM116	WEP156	212-76-02
D316	100-1	HD20001101	GE-504A	PTC201	HEPR0052	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D318	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D319	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D320	1S150	HD40001060	GE-90	PTC214	HEPR2503	REN 614	SK3100	RT-262	ECG614	TM519	WEP200	103-219
D321	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D322	BZ071	HD30019090	GEZD-6.8	ZB6.8B		REN 5071	SK3334	RT-238	ECG5071A	TM5071/**	WEP1106	103-272
D331	100-1	HD20001100	GE-504A	PTC201	HEPR0052	REN 116	SK3111	RT-213	ECG116	TM116	WEP156	212-76-02
D333	BZ090	HD30017090	GEZD-9.1	ZB9.1B		REN 139	SK3060	RT-240	ECG139A	TM139/**	WEP1109	103-272
D334			GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D401	BZ090	HD30017090	GEZD-9.1	ZB9.1B		REN 139	SK3060	RT-240	ECG139A	TM139/**	WEP1109	103-272
D407	1N34A	HD10001010	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-2900*
D501	BZ052	HD30042090	GEZD-5.1				SK3056	RT-235		TM109/**	WEP1103	103-290
D601	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D602	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D603	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D604	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D605	1S1555	HD20011050	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC201	UPD861C	HCT10008060							ECG1254			
IC301	TA7061AP	HCT10002050	GEIC-92	PTC781		REN 1100	SK3223	RT-134	ECG1100	TA7061AP	WEP941	121-29000*
Q201	2SC460B		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q202	2SK41	HF200411C0	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
Q203	2SC460B		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q204	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q205	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q206	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q207	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q208	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q209	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q210	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q211	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q212	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q213	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q214	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q215	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q216	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q217	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q218	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q219	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q220	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q221	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q222	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q223	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q224	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q225	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q226	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q227	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q228	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q229	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q230	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q231	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q232	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q233	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q234	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q235	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q236	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q237	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q238	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q239	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q240	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q241	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q242	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q243	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q244	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q245	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q246	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q247	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q248	2SC460B	HT304601B0										

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.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q315	2SD313E	HT403131E0	GE-241	PTC154		REN 196	SK3054	RT-154	ECG196	TM196	WEP745	121-987-02
	2SD313E		GE-241	PTC154		REN 196	SK3054	RT-154	ECG196	TM196	WEP745	121-987-02
Q316	2SC460B	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q317	2SC1213	HT312131C0	GE-268	PTC123*	HEPS5014*	REN 289	SK3122	RT-134	ECG289	TM289	WEP910	121-29000A*
Q318	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 229*	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29000A*
	2SC829	HT308291B0	GE-20*	PTC139*	HEPS0015*	REN 229*	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29000A*
Q401	2SC460B		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460	HT304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q402	2SK41	HF200411C0	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
Q403	2SC460B		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460	H304601B0	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q404	2SC387	HT30387100	GE-214	PTC132*	HEPS0020*	REN 161	SK3039*	RT-134	ECG316*	TM316*	WEP56*	121-972
Q405	2SC1957	HT31957100	GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	TM295	WEP913	121-880
Q406	2SC1909	HT31909100	GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-29039
Q407	2SC673	HT106731B0	GE-269	PTC103*	HEPS0026*	REN 290	SK3114	RT-115*	ECG290	TM290	WEP911	121-1019
Q408	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 229*	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29000A*
	2SC829	HT308291B0	GE-20*	PTC139*	HEPS0015*	REN 229*	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29000A*
Q409	2SA733	HT107331Q0	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
Q501	2SC945	HT309451R0	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q502	2SA673	HT106731B0	GE-269	PTC103*	HEPS0026*	REN 290	SK3114	RT-115*	ECG290	TM290	WEP911	121-1019
Q503	2SP6009	HT70011100	GE-58	PTC103*	HEPS0006	REN 138	SK3191		ECG242	TM242	WEP765	121-988-02
Q601	2SC945	HT309451R0	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q602	2SC535B		GE-86	PTC132*	HEPS0016*	REN 229*	SK3293*	RT-134	ECG229*	TM229/**	WEP535	121-29021
	2SC535	HT305351B0	GE-86	PTC132*	HEPS0016*	REN 229*	SK3293*	RT-134	ECG229*	TM229/**	WEP535	121-29021
Q603	2SC900	HT309002A0	GE-62	PTC139*	HEPS0015*	REN 199	SK3124	RT-302	ECG199	TM199/**	WEP66	121-972
Q604	2SC945	HT309451R0	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q605	2SC945	HT309451R0	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972

* Lead configuration may vary from original.

/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C211	.68 35V	EV68403560		TDC684M050EL	QDT1-22	SD50-R689
C228	3.3 10V	EV33501060		TDC335M015FL	QDT1-41	SD15-3R39
C241	220 16V	EA22701690	PC250-25	VTT220H16	QV1-117	EV-1240
C242	330 10V	EA33701090	WBR300-35*	VTT330G10	QV1-131	EV-1145
C243	470 6.3V	EA47700690	PC500-16	VTT470K16	QV1-149	EV-1150
C306	22 16V	EA22601690	PC25-25	VTT22B16	QV1-55	EV-1224
C311	.1 35V	EV10403560		TDC104M050EL	QDT1-2	SD50-R109
C345	22 16V	EA22601690	PC25-25	VTT22B16	QV1-55	EV-1224
C357	10 16V	EA10601690	PC10-25	VTT10B25	QV1-41	EV-1222
C359	4.7 10V	EV4-7501-060		TDC475M010EL	QDT1-48	SD10-4R79
C361	47 3V	EV47600360	PC50-10	VTT47B10	QV1-71	EV-1026
C362	4.7 10V	EV4-7501-060		TDC475M010EL	QDT1-48	SD10-4R79
C363	10 16V	EA10601690	PC10-25	VTT10B25	QV1-41	EV-1222
C365	100 3V			TDC107M010GL	QDT1-111	SD10-1009
	47 3V	EV47600360	PC50-10	VTT47B10	QV1-71	EV-1026
C368	1000 25V	EA10802590	WBR1000-25*	VTT1000M25	QV1-185	EV-1360
C369	47 16V	EA47601690	PC50-16	VTT47D16	QV1-73	EV-1226
C370	47 16V	EA47601690	PC50-16	VTT47D16	QV1-73	EV-1226
C376	1000 25V	EA10802590	WBR1000-25*	VTT1000M25	QV1-185	EV-1360
C377	220 16V	EA22701690	PC250-25	VTT220H16	QV1-117	EV-1240
C378	47 16V	EA47601690	PC50-16	VTT47D16	QV1-73	EV-1226
C379	47 16V	EA47601690	PC50-16	VTT47D16	QV1-73	EV-1226
C436	4.7 35V	EV47503560		TDC475M035FL	QDT1-49	SD35-4R79
C437	33 16V	EA33601690	PC30-25	VTT33D25	QV1-63	EV-1325
C502	.1 35V			TDC104M050EL	QDT1-2	SD50-R109
C603	10 16V	EA10601690	PC10-25	VTT10B25	QV1-41	EV-1222
C606	.1 35V	EV10503560		TDC105M035EL		SD35-19
C609	47 10V	EA47601090	PC50-16	VTT47D16	QV1-73	EV-1226
C610	33 10V	EV33601060		TDC336M010FL	QDT1-89	SD10-339
C611	.1 35V	EV10403560		TDC104M050EL	QDT1-2	SD50-R109
	.1 10V	EV10403560		TDC104M050EL	QDT1-2	SD50-R109
C612	.1 35V	EV10503560		TDC105M035EL		SD35-19
C613	.1 35V	EV10403560	PC250-25	TDC104M050EL	QDT1-2	SD50-R109
	220 25V	EA22702590		VTT220K25	QV1-119	EV-1340
C615	.1 35V	EV10403560		TDC104M050EL	QDT1-2	SD50-R109
C616	4.7 35V	EA47503590	PC5-50	VTT47R7B50	QV1-29	EV-1519
C617	4.7 35V	EA47503590	PC5-50	VTT47R7B50	QV1-29	EV-1519
C618	4.7 35V	EA47503590	PC5-50	VTT47R7B50	QV1-29	EV-1519
C619	33 10V	EA33601090	PC30-25	VTT33B10	QV1-61	EV-1125
C622	10 16V	EA10601690	PC10-25	VTT10B25	QV1-41	EV-1222

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
C001	200 N750 10%		DTN-200				10TCU-T20
C007	470		DD-471	GP470	GP347		10TS-T47
C003	470		DD-471	GP470	GP347		10TS-T47
C004	470		DD-471	GP470	GP347		10TS-T47
C005	470		DD-471	GP470	GP347		10TS-T47
C006	470		DD-471	GP470	GP347		10TS-T47
C007	470		DD-471	GP470	GP347		10TS-T47
C008	470		DD-471	GP470	GP347		10TS-T47
C010	470		DD-471	GP470	GP347		10TS-T47
C011	470		DD-471	GP470	GP347		10TS-T47
C101	.01		UK50-103		MAG5011		10TS-T47
C201	40 N220 5%	DD15400040					
C202	20	CT12000010					
C203	200 N570 10%		DTN-200				10TCU-T20
C204	82 5%	DD15820010					
C205	.01		UK50-103		MAG5011		
C206	3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
	1.5		DTZ-1R5	NP01P5	CN0515		10TCC-V15
C207	20 NPO 5%		DTZ-20	NP020	CN0420		10TCC-Q20
C208	.01	DD15400040					
C209	1.5 50V	DD1-0015-010	UK50-103		MAG5011		
C210	5 N750		DTZ-10	NP010	CN0410		10TCC-Q10
C212	.01		DTN-5	N5	CN7550		10TCU-V50
C213	24 NPO 5%		UK50-103		MAG5011		
	68		DTZ-25	NP025	CN0425		10TCC-Q25
C214	.01		DTZ-68	NP068	CN0468		10TCC-Q68
C215	.01		UK50-103		MAG5011		
C216	200 N750 10%		UK50-103		MAG5011		
C217	.01		DTN-200				10TCU-T20
C218	200 N750 10%		UK50-103		MAG5011		
C219	.01		DTN-200				10TCU-T20
C220	.01		UK50-103		MAG5011		
C221	60 N470 5%	DD15600010	UK50-103		MAG5011		
C222	30 N470 5%	DD1530020			*		10TCT-Q30
C223	15 N750		DTN-15	N15	CN7415		10TCU-Q15
C224	82	DD15820010			*		10TCT-Q20
C225	20 N470	DD16200040					
C226	.01		UK50-103		MAG5011		
C227	.01		UK50-103		MAG5011		
C229	.01		UK50-103		MAG5011		
C230	.01		UK50-103		MAG5011		
C231	.01		UK50-103		MAG5011		
C232	.01		UK50-103		MAG5011		
C233	.01		UK50-103		MAG5011		
C234	.01		UK50-103		MAG5011		
C235	.01		UK50-103		MAG5011		
C236	.01		UK50-103		MAG5011		
C237	.01		UK50-103		MAG5011		
C238	10 NPO		DTZ-10	NP010	CN0410		10TCC-Q10
C239	40 N220 5%	DD15400030					
C246	.01		UK50-103		MAG5011		
C247	.01		UK50-103		MAG5011		
C301	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C302	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C303	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C304	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C305	.02		UK50-223		MAG5012		
C307	.001 50V		DPMS6D1	WFM1D56	EWFA1210	QFT2-1	1FT-D10
C308	.005 50V		GP470	GP470	M19285629R8	QFT2-67	1FT-D56
C309	470		DD-471	DDMS6D22	GP347		10TS-T47
C310	.0022 50V 10%				M192P2229R8	QFT2-27	1FT-D22
C312	.002				GP220		10TS-D20
C313	100		DD-101	GP100	GP310		10TS-T10
C314	100		DD-101	GP100	GP310		10TS-T10
C315	.001 50V			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C316	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C317	.01		UK50-103		MAG5011		
C320	24 NPO 5%		DTZ-25	NP025	CN0425		10TCC-Q25
C321	.01		UK50-103		MAG5011		
C322	50 NPO 5%		DTZ-50	NP050	CN0450		10TCC-Q50
	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C323	.5 NPO $\pm$.25	DD10005010					
C324	.01		UK50-103		MAG5011		
C325	.01		UK50-103		MAG5011		
C326	.01 50V			WFM1S1	EWFA1A110	QFT2-91	1FT-S10
C327	5 NPO	DD11050010					10TCC-V50
C328	.01 50V			WFM1S1	EWFA1A110	QFT2-91	1FT-S10
C329	.01 50V 10%			WFM1S1	EWFA1A110	QFT2-91	1FT-S10
C330	.5 NPO $\pm$.25	DD10005010					
C331	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C332	10 NPO		DTZ-10	NP010	CN0410	QFT2-91	10TCC-Q10
C333	.01 50V 10%			WFM1S1	EWFA1A110		1FT-S10
C334	.5 NPO $\pm$.25	DD10005010					

SUPERSCOPE MODEL AIRCOMMAND CB-340

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

CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C335	500 N750 10%	DK16501500			MAG5011		
C336	.01		UK50-103	WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C337	.01 50V			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C339	.068 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C340	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C341	.01 50V			WMF1S1	EWFA1A110	QFT2-215	1FT-P10
C342	.1 50V 5%			WMF05P1	EWFO5010	QFT2-91	1FT-S10
C343	.01 50V			WMF1S1	EWFA1A110		
C346	.01		UK50-103		MAG5011		
C351	.01		UK50-103		MAG5011		
C352	.01		UK50-103		MAG5011		
C353	.01		UK50-103		MAG5011		
C354	68 N220 10%	DD16680010	DD-201	GP200	GP320		10TCR-Q68
C355	200		UK50-103		MAG5011		10TS-T20
C356	.01				MAG5011		
C358	.0022 50V			DDMS6022	M192P2229R8	QFT2-27	1FT-D22
C360	.001 50V			DPMS601	EWFA1A210	QFT2-1	1FT-D10
C364	.001 50V			DPMS601	EWFA1A210	QFT2-1	1FT-D10
C366	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C367	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C371	200		DD-201	GP200	GP320		10TS-T20
C374	40 NPO 5%	DD1-5400-040					
C375	10	CT11000010					
C388	.01		UK50-103		MAG5011		
C389	.01		UK50-103		MAG5011		
C391	.01		UK50-103		MAG5011		
C398	470		DD-471	GP470	GP347		10TS-T47
C401	20 NPO 5%	DD15400040	DTZ-20	NP020	CN0420		10TCC-Q20
C402	500		DD-501	GP500	GP350		10TS-T50
C403	200		DD-201	GP200	GP320		10TS-T20
C404	.01		UK50-103		MAG5011		
C405	50 NPO 5%		DTZ-50	NP050	CN0450		10TCC-Q50
C406	50 NPO 5%		DTZ-50	NP050	CN0450		10TCC-Q50
C407	.01		UK50-103		MAG5011		
C408	.01		UK50-103		MAG5011		
C409	3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C410	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C411	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C412	15 NPO 10%		DTZ-15	NP015	CN0415		10TCC-Q15
C413	50 NPO 5%		DTZ-50	NP050	CN0450		10TCC-Q50
C414	20		DTZ-20	NP020	CN0420		10TCC-Q20
C415	.01		UK50-103		MAG5011		
C416	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C417	.01		UK50-103		MAG5011		
C418	82 N220 10%	DD16820010			*		10TCR-Q82
C419	.05	CT12000010	UK50-503		MAG5015		
C420	20	DD15301020			*		10TCU-T30
C421	300 N750 5%				*		
C422	.05		UK50-503		MAG5015		
C423	100 N470 5%	DD15101020			*		10TCT-T10
C424	100 N470 5%	DD15101020			*		10TCT-T10
C425	40 N220 5%	DD15400030			*		
C426	30 N470 5%	DD15300020			*		10TCT-Q30
C427	270 10%		DD-271	GP270	GP327		10TS-T27
C428	300 N750 5%	DD15301010			*		10TCU-T30
C429	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C430	15 NPO		DTZ-15	NP015	CN0415		10TCC-Q15
C431	.01		UK50-103		MAG5011		
C432	.01		UK50-103		MAG5011		
C433	.01		UK50-103		MAG5011		
C434	100 N470 5%	DD15101020			*		10TCT-T10
C435	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C436	.01		UK50-103		MAG5011		
C437	.01		UK50-103		MAG5011		
C438	.01		UK50-103		MAG5011		
C439	.01		UK50-103		MAG5011		
C440	.01		UK50-103		MAG5011		
C441	.01		UK50-103		MAG5011		
C442	.01		UK50-103		MAG5011		
C443	.01		UK50-103		MAG5011		
C444	.01		UK50-103		MAG5011		
C445	.01		UK50-103		MAG5011		
C446	.01		UK50-103		MAG5011		
C447	.01		UK50-103		MAG5011		
C448	.01		UK50-103		MAG5011		
C449	.01		UK50-103		MAG5011		
C450	.01		UK50-103		MAG5011		
C451	.01		UK50-103		MAG5011		
C452	.01		UK50-103		MAG5011		
C453	.01		UK50-103		MAG5011		
C454	.01		UK50-103		MAG5011		
C455	.01		UK50-103		MAG5011		
C456	.01		UK50-103		MAG5011		
C457	.01		UK50-103		MAG5011		
C458	.01		UK50-103		MAG5011		
C459	.01		UK50-103		MAG5011		
C460	.01		UK50-103		MAG5011		
C461	.01		UK50-103		MAG5011		
C462	.05		UK50-503		MAG5015		
C463	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C464	.01		UK50-103		MAG5011		
C465	.01		UK50-103		MAG5011		
C466	.01		UK50-103		MAG5011		
C467	.01		UK50-103		MAG5011		
C468	.01		UK50-103		MAG5011		
C469	.01		UK50-103		MAG5011		
C470	.01		UK50-103		MAG5011		
C471	.01		UK50-103		MAG5011		
C472	.01		UK50-103		MAG5011		
C473	.01		UK50-103		MAG5011		
C474	.01		UK50-103		MAG5011		
C475	.01		UK50-103		MAG5011		
C476	.01		UK50-103		MAG5011		
C477	.01		UK50-103		MAG5011		
C478	.01		UK50-103		MAG5011		
C479	.01		UK50-103		MAG5011		
C480	.01		UK50-103		MAG5011		
C481	.01		UK50-103		MAG5011		
C482	.01		UK50-103		MAG5011		
C483	.01		UK50-103		MAG5011		
C484	.01		UK50-103		MAG5011		
C485	.01		UK50-103		MAG5011		
C486	.01		UK50-103		MAG5011		
C487	.01		UK50-103		MAG5011		
C488	.01		UK50-103		MAG5011		
C489	.01		UK50-103		MAG5011		
C490	.01		UK50-103		MAG5011		
C491	.01		UK50-103		MAG5011		
C492	.01		UK50-103		MAG5011		
C493	.01		UK50-103		MAG5011		
C494	.01		UK50-103		MAG5011		
C495	.01		UK50-103		MAG5011		
C496	.01		UK50-103		MAG5011		
C497	.01		UK50-103		MAG5011		
C498	.01		UK50-103		MAG5011		
C499	.01		UK50-103		MAG5011		
C500	.01		UK50-103		MAG5011		
C501	.01		UK50-103		MAG5011		
C502	.01		UK50-103		MAG5011		
C503	.01		UK50-103		MAG5011		
C504	.01		UK50-103		MAG5011		
C505	.01		UK50-103		MAG5011		
C506	.01		UK50-103		MAG5011		
C507	.01		UK50-103		MAG5011		
C508	.01		UK50-103		MAG5011		
C509	.01		UK50-103		MAG5011		
C510	.01		UK50-103		MAG5011		
C511	.01		UK50-103		MAG5011		
C512	.01		UK50-103		MAG5011		
C513	.01		UK50-103		MAG5011		
C514	.01		UK50-103		MAG5011		
C515	.01		UK50-103		MAG5011		
C516	.01		UK50-103		MAG5011		
C517	.01		UK50-103		MAG5011		
C518	.01		UK50-103		MAG5011		
C519	.01		UK50-103		MAG5011		
C520	.01		UK50-103		MAG5011		
C521	.01		UK50-103		MAG5011		

*Not normally in distributor's stock. Available thru distributor on order to manufacturer.
(1)Used in Some Versions.

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	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
R101-1	Volume/Power Switch	10K	RD15030070 (18)			
R101-2	RF Gain	50K				
R102-1	Delta Tune	20K	RD02030030 (19)			
R102-2	Squelch	50K				
R241	RF Power Meter Range	22K	RA02230040			U260R253B
R242	Input Signal Meter	470	RA05010050			U260R501B
R251	Squelch Range	22K				
	Squelch Range	47K	RA04730020 (6)			U260R503B
R340	Band Pass	50K	RA05030010			X260R503B (2)
R347	AGC	47K	RA04700020			
R351	Delta Tune Range	47K	RA04700020			
R501	Voltage	1000	RA01020070	T-1000 (3)	MTC13L1 (3)	U260R102B
R613	Mic Gain	47K	RA04730020			
R618	Mic Gain	47K	RA04730020			

(2) Cut off one of the end terminals to fit PC board. Use jumper to connect center terminal to PC board.

(6) Alternate part, may be used in some versions.

(18) Includes R101-1, R101-2 and power switch.

(19) Includes R102-1 and R102-2.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R225	Resistor Array		BW20751020				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L001	XMT Antenna	LL22417070			
L201	VCO	L010155010			
L202	RF Choke (22uH)	LC12230020			
L203	Buffer (17MHz)	LA10155010			
L204	Buffer (17MHz)	LA10155010			
L301	Noise Blanker	LA10155020			
L302	Noise Blanker	LA10155070			
L303	Rec Antenna (27MHz)	LA10155030			
L304	Rec RF (27MHz)	LA10155040			
L305	Mixer (9.785MHz)	LI10155010			
L306	Mixer (.785MHz)	LI10155010			
L307	Mixer (9.895MHz)	LI10155020			
L308	IF (455kHz)	LI10015030			
L309	IF (455kHz)	LI10015040			
L310	IF (455kHz)	LI10015050			
L311	RF Choke (3.3uH)	LC13320010			
L312	RF Choke (3.3uH)	LC11030010			
L401	RF Choke (390uH)	LC13940010			
L402	XMT Mixer (27MHz)	LA10155100			
L403	XMT Mixer (27MHz)	LA10155050			
L404	XMT Mixer (27MHz)	LA10155050			
L405	XMT Mixer (27MHz)	LA10155050			
L406	Predriver (27MHz)	LA10395010			
L407	Driver (27MHz)	LA10395020			
L408	RF Choke	LC13020040			
L409	Final Amp (27MHz)	LA10395030			
L410	XMT Antenna (27MHz)	LA10395010			
L501	Pi Filter	LC13020040			
L502	Pi Filter	LC13020040			

(9.785MHz)
(9.785MHz)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.	
T303	2.05 A	.416	9.9 mH	LC26550010			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	1	1		TI12407040			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE			REPLACEMENT DATA			NOTES
	PRI.	SEC.		MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T302	32	1 8	2 18	T01351101			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
E001	4" PM 8 Ohm	QK01001130	4C25Z8	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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
F001	3A 350V Quick Acting	FS10300060		AGC3	HDJ	312003	150145	FG3-2

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		18-032	18-034	18-010		1	2	3	4	NC	2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D101	LED	H110006050	Metering
D102	LED	H110006050	Metering
D103	LED	H110006050	Metering
D104	LED	H110006050	Metering
D105	LED	H110006050	Metering
D106	LED	H110006050	Metering
D107	LED	H110006050	Metering
D108	LED	H110006050	Metering
F301	Filter	FG455304H0	455kHz
F302	Filter	FG455304H0	455kHz
J001-2	Socket	BY01060010	PA Speaker
J001-3	Socket	BY01060010	External Speaker
J002	Socket	YJ10000780	Antenna
J101	Socket	YJ10000800	Microphone
P101	Printed Circuit Board	YD46560010	LED (Without Components)
	Printed Circuit Board		LED (With components)
P102	Printed Circuit Board	YD46560020	Channel Indicator (Without Components)
	Printed Circuit Board	ZZ46560020	Channel Indicator (With Components)
P201	Printed Circuit Board	YD46550020	PLL (Without Components)
	Printed Circuit Board	ZZ46550020	PLL (With Components)
P301	Printed Circuit Board	YD46550010	Main (Without Components)
	Printed Circuit Board	ZZ46550010	Main (With Components)
P501	Printed Circuit Board	YD46560060	Regulator (Without Components)
	Printed Circuit Board	ZZ46560060	Regulator (With Components)
P601	Printed Circuit Board	YD46560070	Mic Amp (Without Components)
	Printed Circuit Board	ZZ46560070	Mic Amp (With Components)
S102	Switch	SC02020230	NB On/Off
S103	Switch	SC02020230	PA/CB
S106	Switch		XMT/Rec (On Mic)
S201	Switch	SR06400010	Channel Selector
	Switch		Power On/Off (Part of Volume Control)
X201	Crystal	XA21627004	16.270MHz
X301	Crystal	XX21024004	10.240MHz
X401	Crystal		9.785MHz

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

ITEM	PART No.	ITEM	PART No.
Case, Front	465506440	Case, Lower	4655257410
Case, Upper	4655257410	Knob, Channel Selector	4656154010