

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 ROGUE 40

MANUFACTURER'S SPECIFICATIONS

RECEIVER SECTION

* Frequency Range	26.965 to 27.405 MHz
* Sensitivity	0.25uV for 10db S/N at 1 kHz at 30% Modulation
* Selectivity	BW 2.5 kHz min. at 6 db down
* Adj. Channel Rejection	Better than 60 db
* Audio Distortion at 1 kHz	Less than 10% at 3W
* Squelch Sensitivity	0.2uV
* Squelch Stop Sensitivity	45 to 30,000uV (adjustable)
* Noise Limiter	Series gate

TRANSMITTER SECTION

* Frequency Range	26.965 to 27.405 MHz
* Power Output at 13.8 VDC	3.5 to 4 watts
* Modulation	100%
(4mV at microphone)	
* Emission	6A3
(Class D operation)	
* Hum and Noise	Better than 40 db down
* Frequency Tolerance	Better than $\pm 0.005\%$
* Antenna Impedance	50 ohms
* Switching	Electronic
* Modulation Distortion	Less than 10% at 95% modulation at 1 kHz

Courtesy of the Manufacturer

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

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COURIER/FANON MODELS ROGUE 40/FANFARE 125F

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. Connect microphone.

Suggested Alignment Tools: GC ELECTRONICS:
 C51, C125 8276, 5000
 L9, T12, T13, T14 9091, 8728-A, 8728
 L2, T3 thru T7 5009, 8728-A, 8728
 T1, T2, T10, T11, T15, T16, T17 9440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1 (Q3 Base).	Ch. 19	C51	Adjust for 10.240MHz.
Input of oscilloscope to TP2 (junction of C62, C63 and C64).	Ch. 19	T10	Adjust for maximum RF.
Input of frequency counter to TP2 (junction of C62, C63 and C64).	Ch. 19		Check for 36.380MHz.
Input of DC meter to TP3 (junction of R65, R66 and R67).	Ch. 1	T11	Adjust for 3.00 volts.
Input of frequency counter to TP4 (Q15, Emitter).	Ch. 1		Check for 37.660MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP5 (U1, Pin 3).	Ch. 1		Check for 1.280MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP6 (Q20, Emitter).	Ch. 19, XMT	C125	Adjust for 10.695MHz.
Input of frequency counter to antenna jack.	Ch. 19, XMT	C125	Check for 27.185MHz. If necessary, readjust C125 for 27.185MHz.

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.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP1 (Q3, Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19 Squelch MINIMUM	T7, T6, T5, T4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19 Squelch MINIMUM	T3, L2, T2, T1	Adjust for maximum output. If necessary, readjust T4, T5, T6, and T7.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 50,000uV.	Ch. 19 Squelch MINIMUM	VR1	AGC Adjust volume control (VR4) for 0db. Decrease generator output to 50uV. Adjust VR1 so that audio does not drop more than 10db.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 30,000uV.	Ch. 19 Squelch Maximum	VR3	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19 Squelch MINIMUM	VR7	S METER Adjust for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 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 spectrum analyzer or harmonic meter to antenna jack.	Ch. 19	T17,T16,T15, T14,T13,L9	Adjust for maximum.
	Ch. 19	L9	Adjust for 4 watts maximum.
	Ch. 19	T12	Adjust for MINIMUM at 54MHz.

TRANSMITTER ADJUSTMENTS

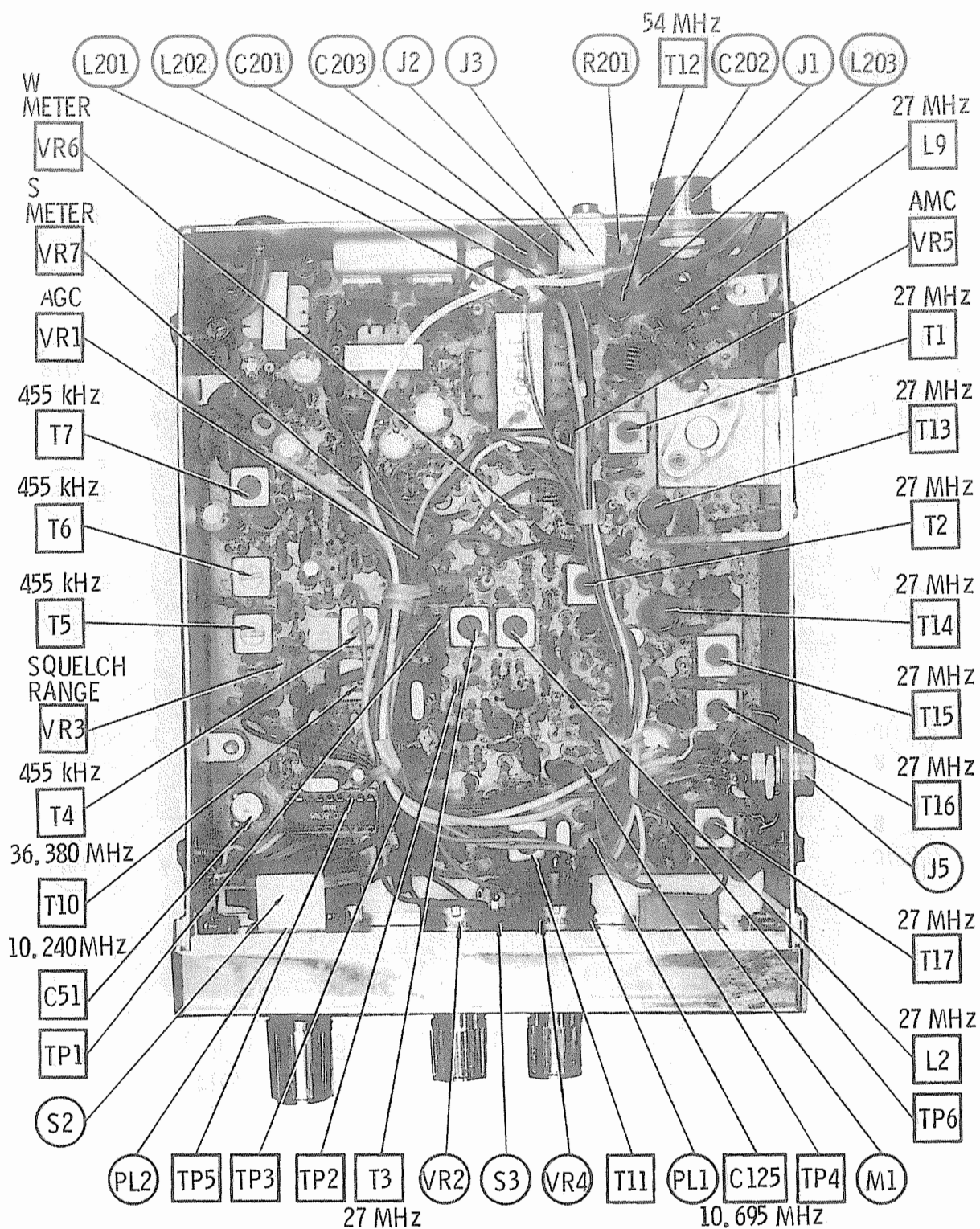
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna jack. Inject a 1000Hz, 100mV signal at mic input.	Ch. 19	VR5	AMC Adjust for 100% modulation.
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19	VR6	W METER Adjust so that W meter agrees with RF wattmeter.

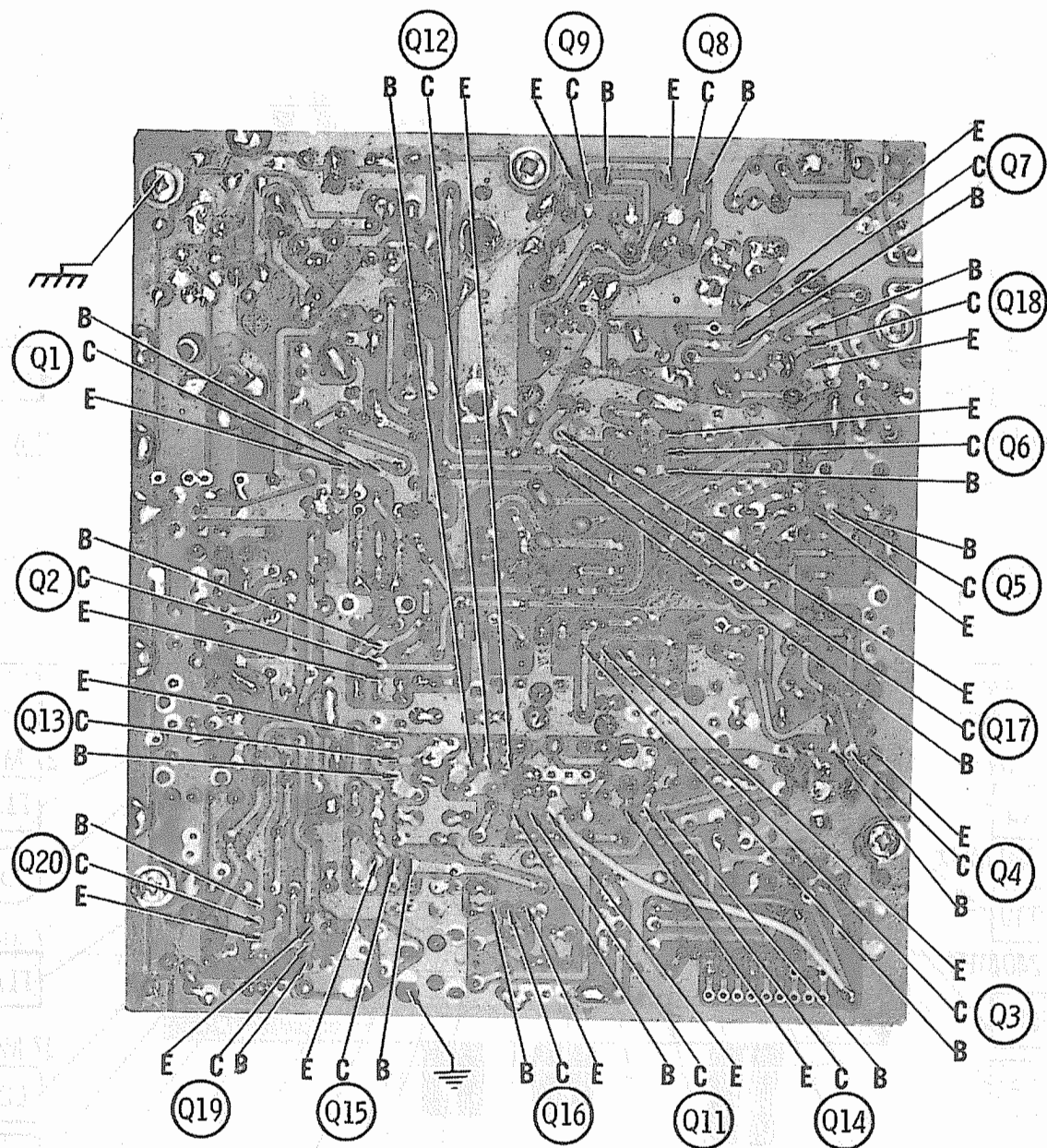
COURIER/FANON MODELS ROGUE 40/FANFARE 125F

TRUTH CHART

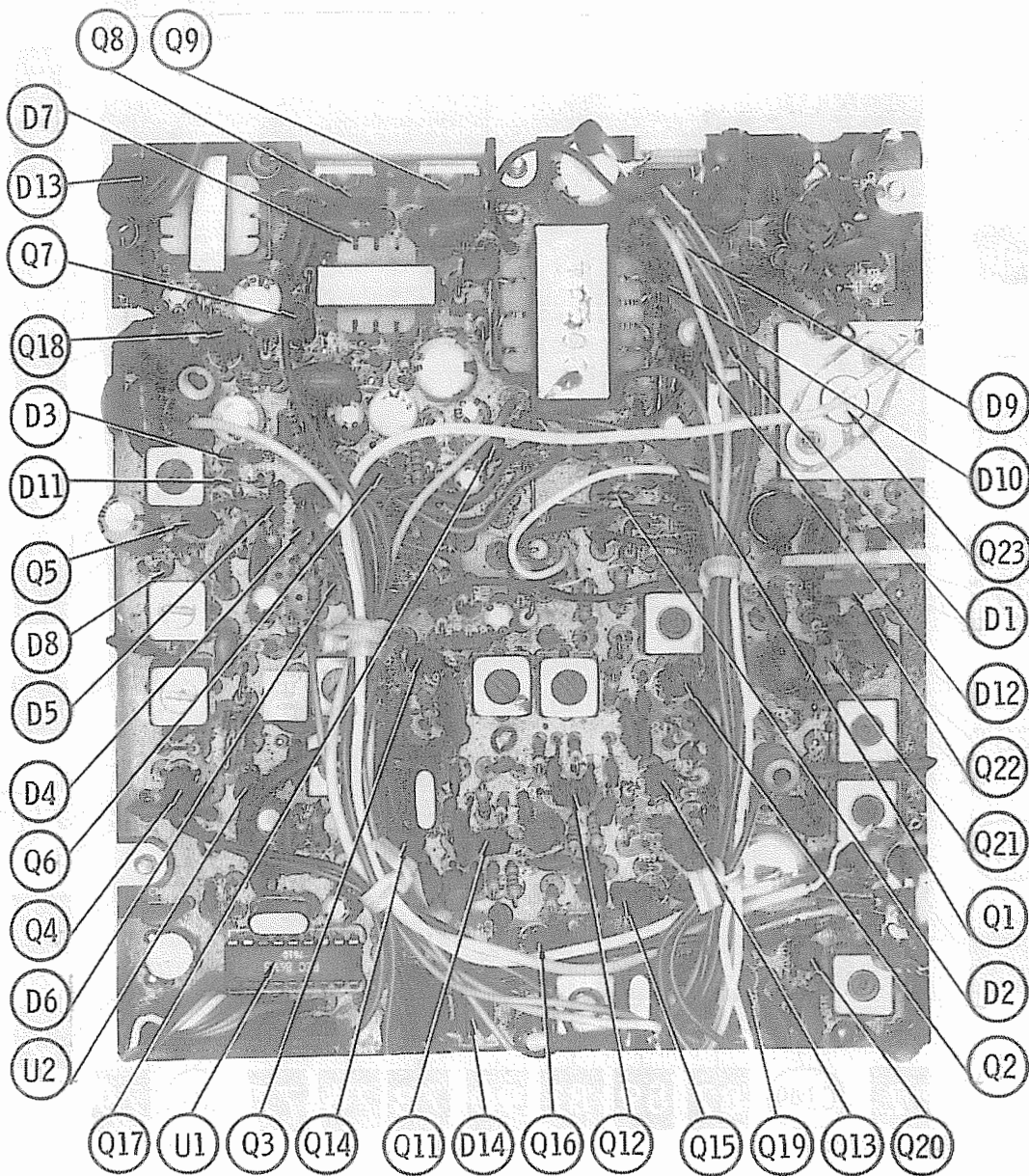
C H A N N E L	1 = 4.83 Volts 0 = 0 Volts								REC & XMT VCO OUTPUT IN MHz AT TP4	DIVIDER INPUT REC & XMT VCO OUTPUT IN MHz AT TP5	
	U1 PROGRAM DIVIDER										
	PINS										
	10	11	12	13	14	15	16				
1	0	0	0	0	0	0	0		37.660	1.280	
2	0	0	0	0	0	0	1		37.670	1.290	
3	0	0	0	0	0	1	0		37.680	1.300	
4	0	0	0	0	1	0	0		37.700	1.320	
5	0	0	0	0	1	0	1		37.710	1.330	
6	0	0	0	0	1	1	0		37.720	1.340	
7	0	0	0	0	1	1	1		37.730	1.350	
8	0	0	0	1	0	0	1		37.750	1.370	
9	0	0	0	1	0	1	0		37.760	1.380	
10	0	0	0	1	0	1	1		37.770	1.390	
11	0	0	0	1	1	0	0		37.780	1.400	
12	0	0	0	1	1	1	0		37.800	1.420	
13	0	0	0	1	1	1	1		37.810	1.430	
14	0	0	1	0	0	0	0		37.820	1.440	
15	0	0	1	0	0	0	1		37.830	1.450	
16	0	0	1	0	0	1	1		37.850	1.470	
17	0	0	1	0	1	0	0		37.860	1.480	
18	0	0	1	0	1	0	1		37.870	1.490	
19	0	0	1	0	1	1	0		37.880	1.500	
20	0	0	1	1	0	0	0		37.900	1.520	
21	0	0	1	1	0	0	1		37.910	1.530	
22	0	0	1	1	0	1	0		37.920	1.540	
23	0	0	1	1	1	0	1		37.950	1.570	
24	0	0	1	1	0	1	1		37.930	1.550	
25	0	0	1	1	1	0	0		37.940	1.560	
26	0	0	1	1	1	1	0		37.960	1.580	
27	0	0	1	1	1	1	1		37.970	1.590	
28	0	1	0	0	0	0	0		37.980	1.600	
29	0	1	0	0	0	0	1		37.990	1.610	
30	0	1	0	0	0	1	0		38.000	1.620	
31	0	1	0	0	0	1	1		38.010	1.630	
32	0	1	0	0	1	0	0		38.020	1.640	
33	0	1	0	0	1	0	1		38.030	1.650	
34	0	1	0	0	1	1	0		38.040	1.660	
35	0	1	0	0	1	1	1		38.050	1.670	
36	0	1	0	1	0	0	0		38.060	1.680	
37	0	1	0	1	0	0	1		38.070	1.690	
38	0	1	0	1	0	1	0		38.080	1.700	
39	0	1	0	1	0	1	1		38.090	1.710	
40	0	1	0	1	1	0	0		38.100	1.720	



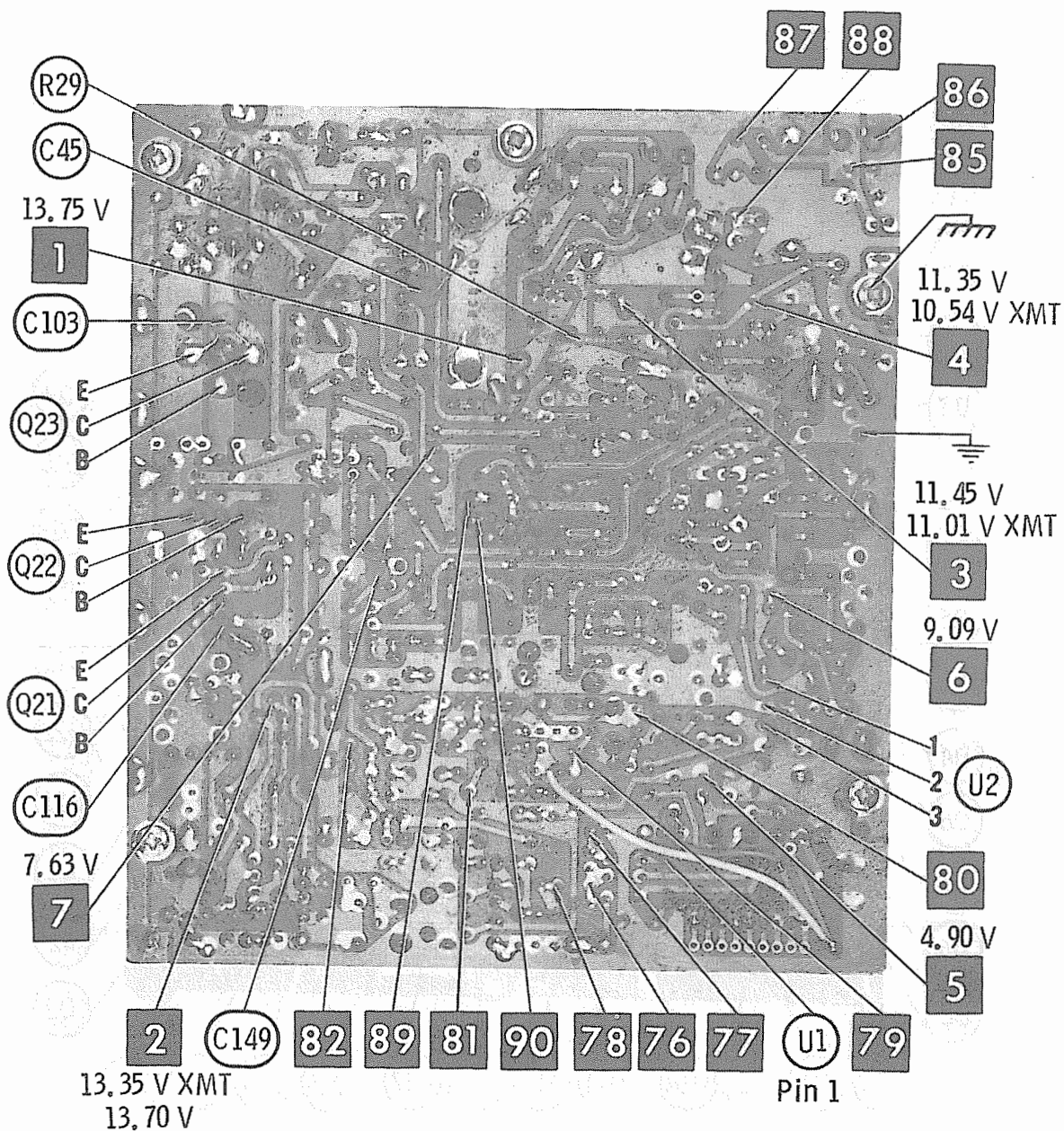
CHASSIS-BOTTOM



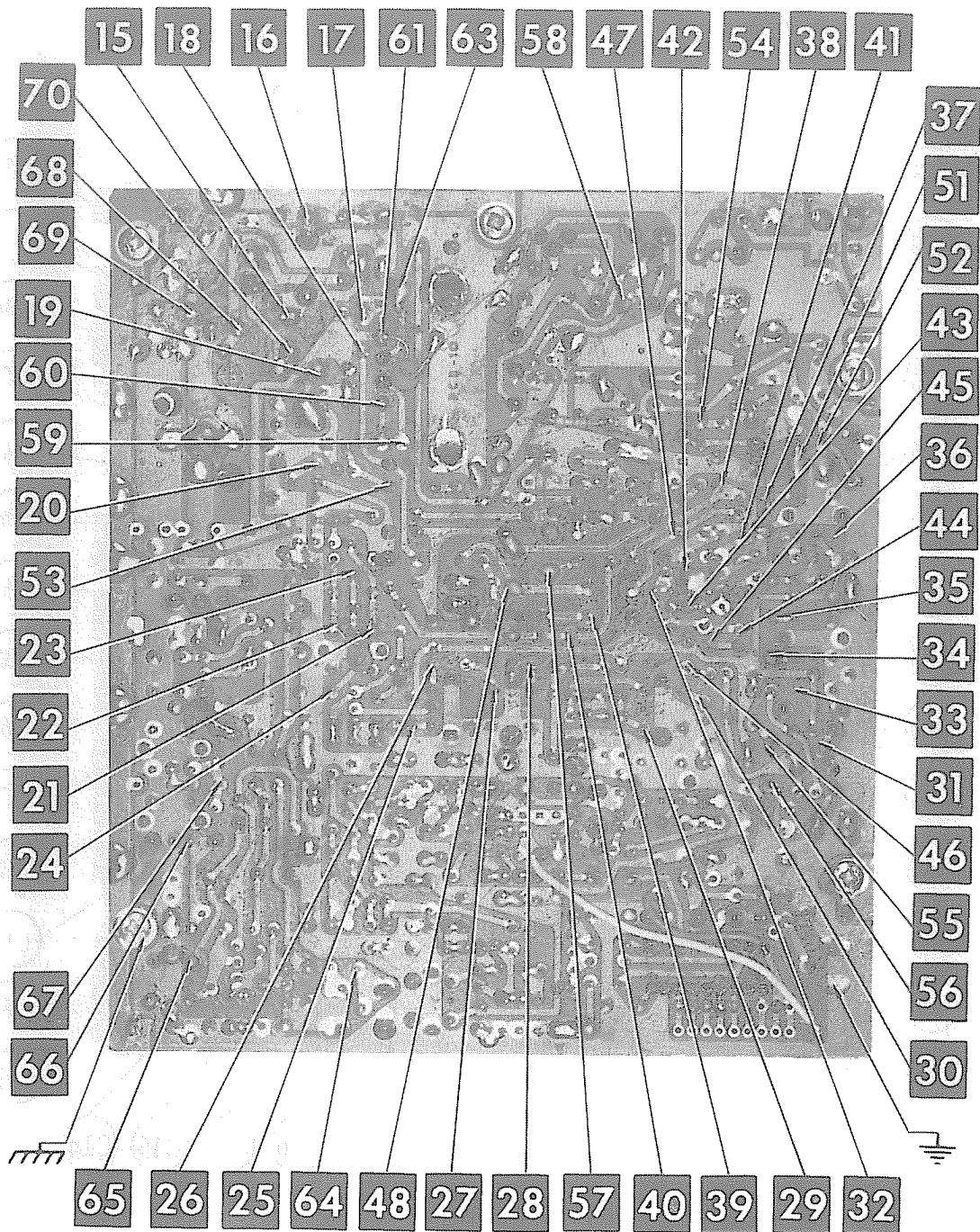
MAIN BOARD



MAIN BOARD

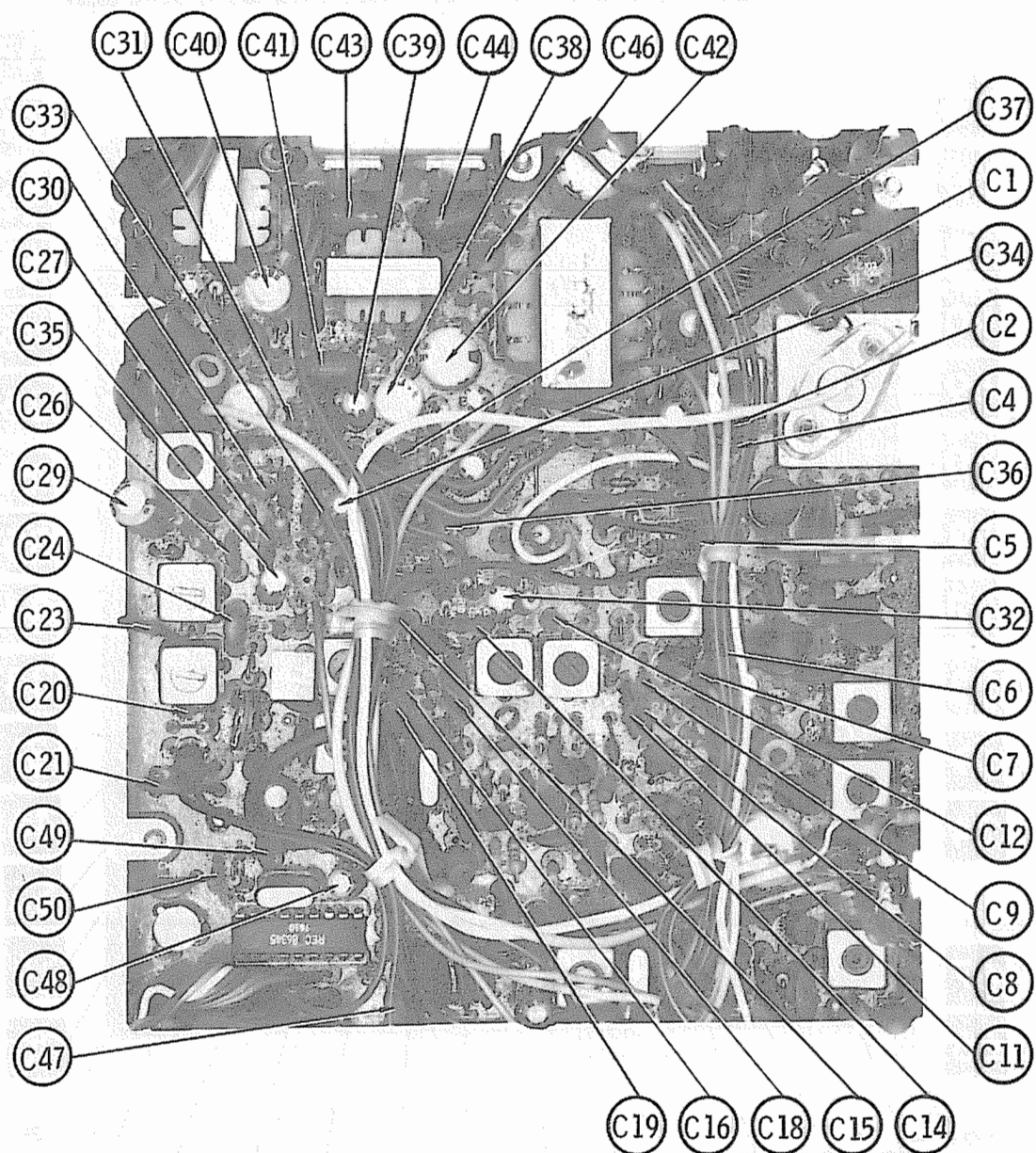


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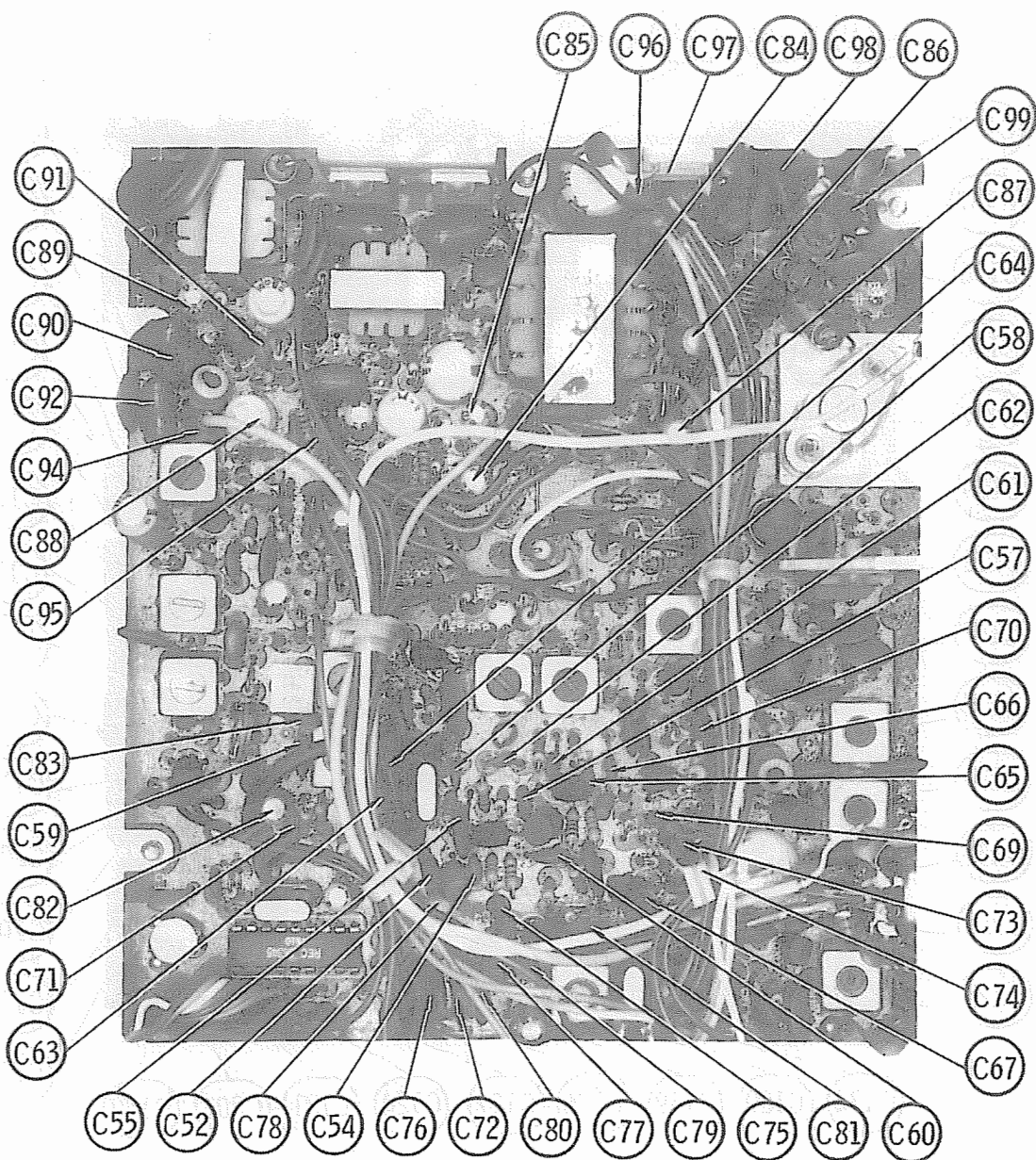


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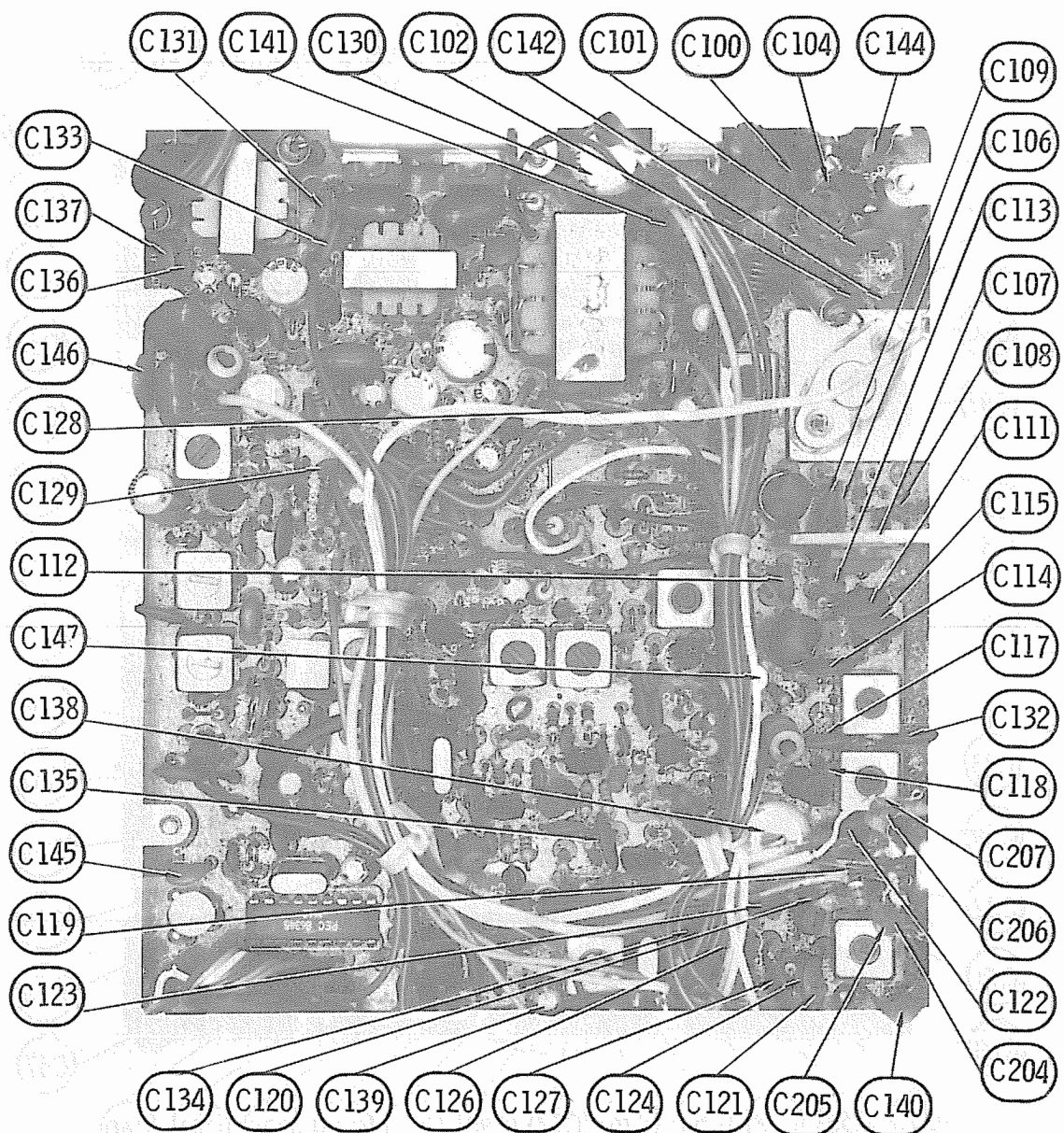
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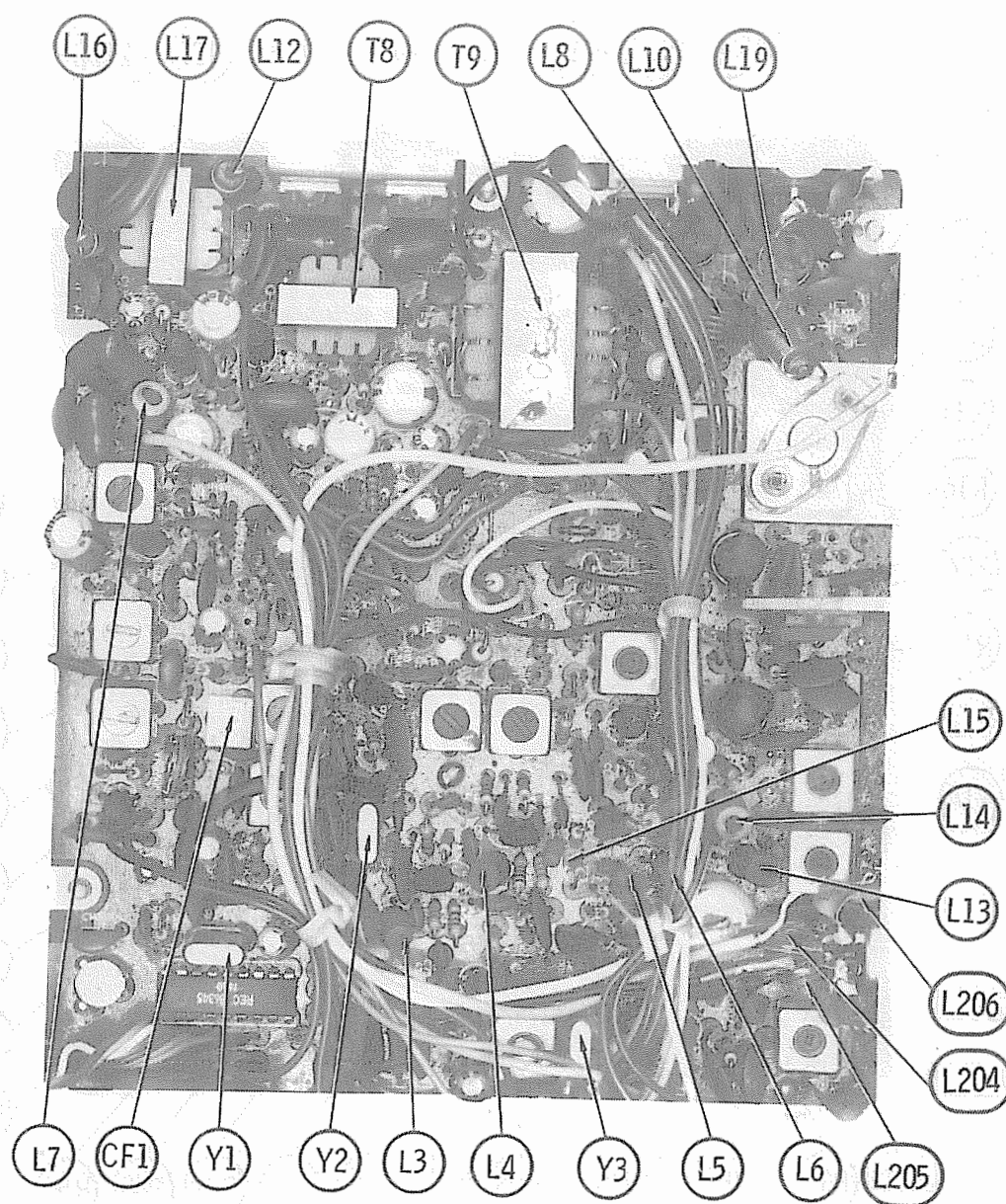
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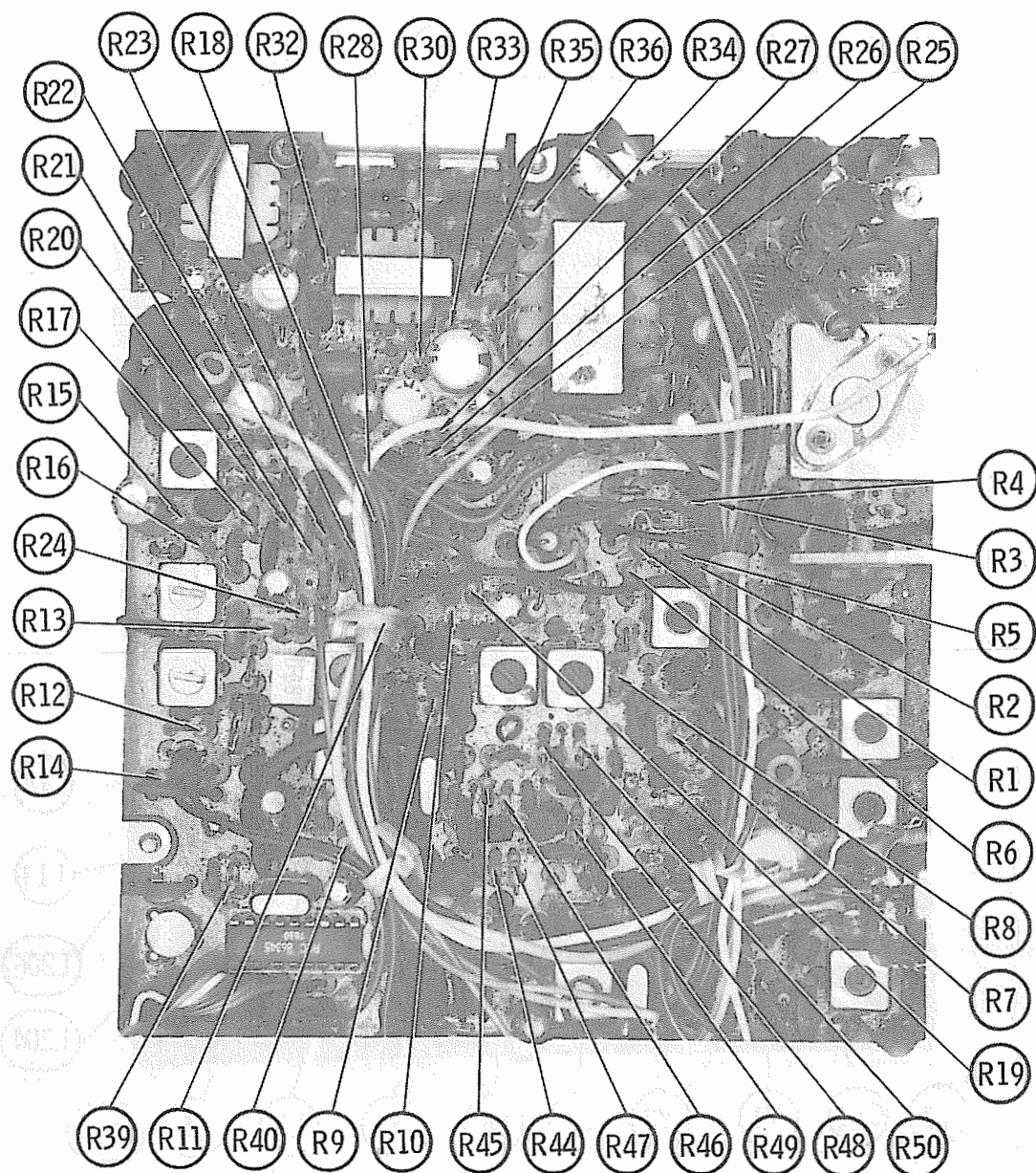
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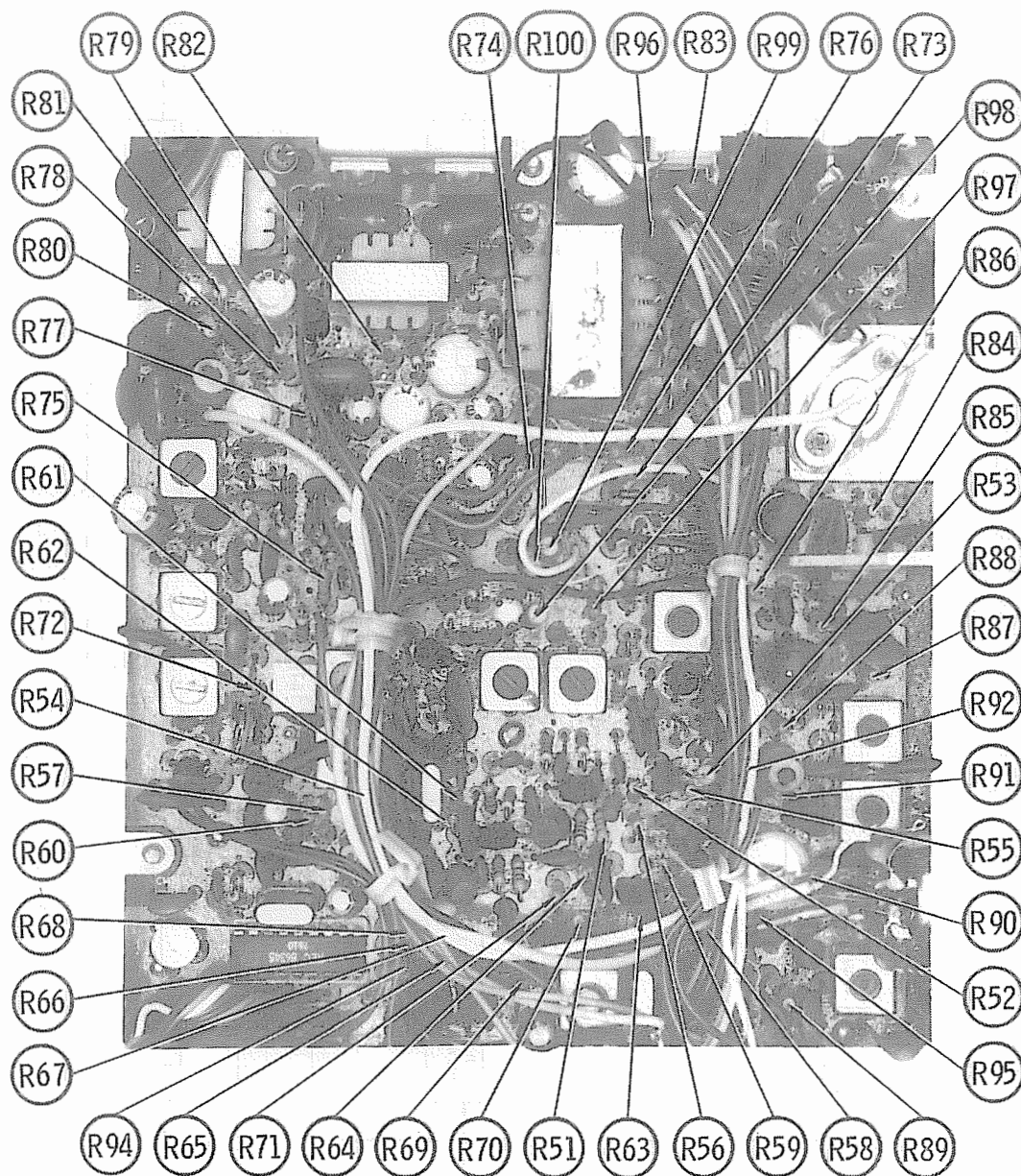
MAIN BOARD



MAIN BOARD



MAIN BOARD



MAIN BOARD

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')

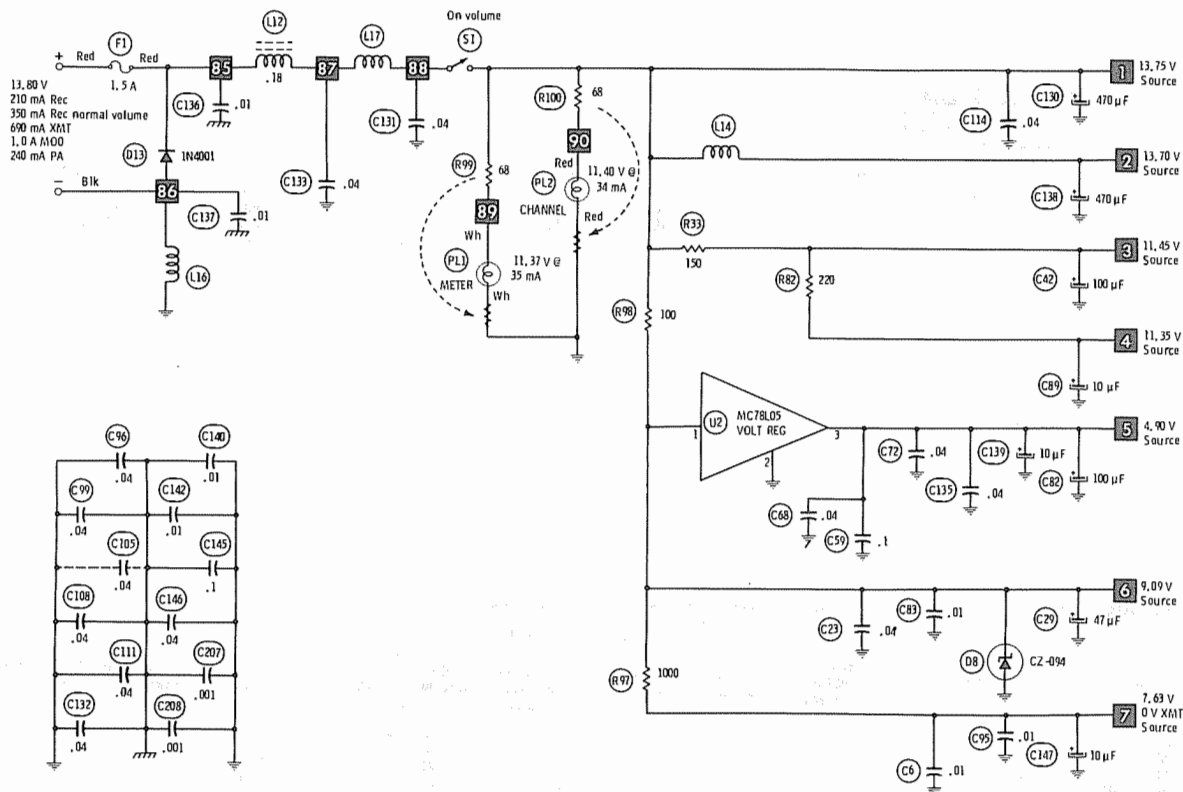
SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	1N4448	1042-16	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D2	1N4148	2019-45	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-210	ECG519	1N4148	WEP925	
D3	1N60	294-42-9	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D4	1N60	294-42-9	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D5	1N60	294-42-9	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D6	1N4148	2019-45	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D7	1N4148	2019-45	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
D8	CZ-094	2087-46	GEZD-9.1	ZB9.18	HEPR0602	RE 114	SK3100	RT-240	ECG139A	1N4739A	WEP1109	103-272
	WZ-094		GEZD-9.1	ZM9.18		RE 114	SK3060	RT-240	ECG5018	1N4739A	WEP1419	103-279-19
D9	1N4001	2021-05	GE-504A	1N4001	HEPR0052	RE 49	SK3312	RT-212	ECG116	1N4004	WEP156	212-76
D10	1N60	294-42-9	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D11	1N60	294-42-9	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D12	1N60	294-42-9	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D13	1N4001	2021-05	GE-504A	1N4001	HEPR0052	RE 49	SK3312	RT-212	ECG116	1N4004	WEP156	212-76
D14	BB109G	2049-32	GE-90		HEPR2503			RT-262	ECG614		WEP200	ZEN-453
Q1	2SC394Y	1080-01	GE-61*	PTC121*	HEPS0014*	RE 9	SK3018*	RT-309	ECG229*	2SC394	WEP394	ZEN-114
Q2	2SC394Y	1080-01	GE-61*	PTC121*	HEPS0014*	RE 9	SK3018*	RT-309	ECG229*	2SC394	WEP394	ZEN-114
Q3	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
	2SC372Y		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q4	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
	2SC372Y		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q5	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
	2SC372Y		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q6	2SC372-O		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
	2SC945R	1080-21	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC372Y		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q7	2SC733Y	1080-03	GE-62	PTC139*	HEPS0025*	RE 192	SK3122	RT-302	ECG199	2SC733	WEP66	ZEN-114
Q8	2SC1173-O	1080-130	GE-215	PTC186		RE 201	SK3197	RT-160	ECG236	2SC1173	WEP840	ZEN-114
Q9	2SC1173-O	1080-130	GE-215	PTC186		RE 201	SK3197	RT-160	ECG236	2SC1173	WEP840	ZEN-114
Q11	2SC829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127
	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q12	2SC829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127
	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q13	2SC829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127
	2SC829F	1080-20	GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127
Q14	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q15	2SC829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127
	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q16	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q17	2SC373	296-98-9	GE-212	PTC121*	HEPS0015*	RE 192	SK3122	RT-105	ECG199	2SC373	WEP373	ZEN-119
Q18	2SC372-O		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
	2SC945R	1080-21	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q19	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q20	2SC839F	1080-20	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
Q21	1710		GE-210*	PTC123*	HEPS0014*	RE 13*	SK3122	RT-308*	ECG289	2SC735	WEP735A	ZEN-127
	2SC735-O	1080-07	GE-210*	PTC123*	HEPS0014*	RE 13*	SK3122	RT-308*	ECG289	2SC735	WEP735A	ZEN-127
	2SC735		GE-210*	PTC123*	HEPS0014*	RE 13*	SK3122	RT-308*	ECG289	2SC735	WEP735A	ZEN-127
Q22	2SC1226AP	1080-06	GE-215	PTC186		RE 203	SK3197	RT-166	ECG186A	2SC1226	WEP900	
	2SC1226A		GE-215	PTC186		RE 203	SK3197	RT-166	ECG186A	2SC1226	WEP900	
Q23	2SC756H		GE-46	PTC158		RE 206		RT-306F	ECG282		WEP909	
	2SC756-2-4	1080-05	GE-46	PTC158		RE 206		RT-306F	ECG282		WEP909	
U1	86345	2049-01										
U2	MC78L05C	2049-03				RE 387-IC	SK3462		ECG977			

* Lead Configuration may vary from original.

(12) 10 watt @ 3.0A

COURIER/FANON MODELS ROGUE 40/FANFARE 125F



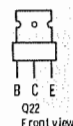
- *— Circuitry not used in some versions
 - - - Circuitry used in some versions
 - ⊙ See parts list
 - ⊛ Nominal value
 - ⊥ Ground
 - ⊥ Chassis
 - ▽ Common tie point
- Measurements made in Channel 1 with switching as shown unless noted.
 Item numbers in rectangles appear in the alignment/adjustment instructions.
 Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 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.

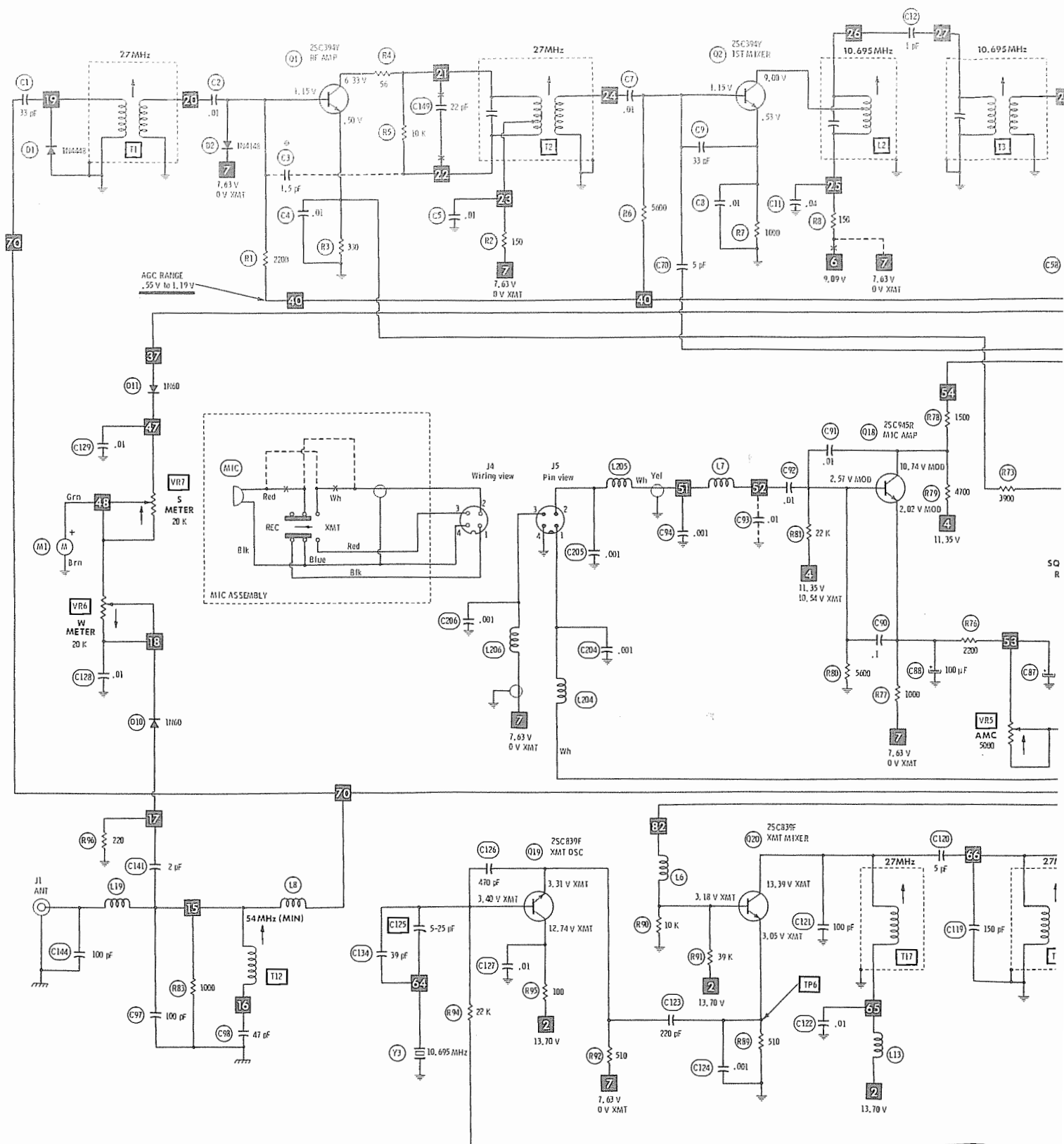
A PHOTOFAC STANDARD NOTATION SCHEMATIC

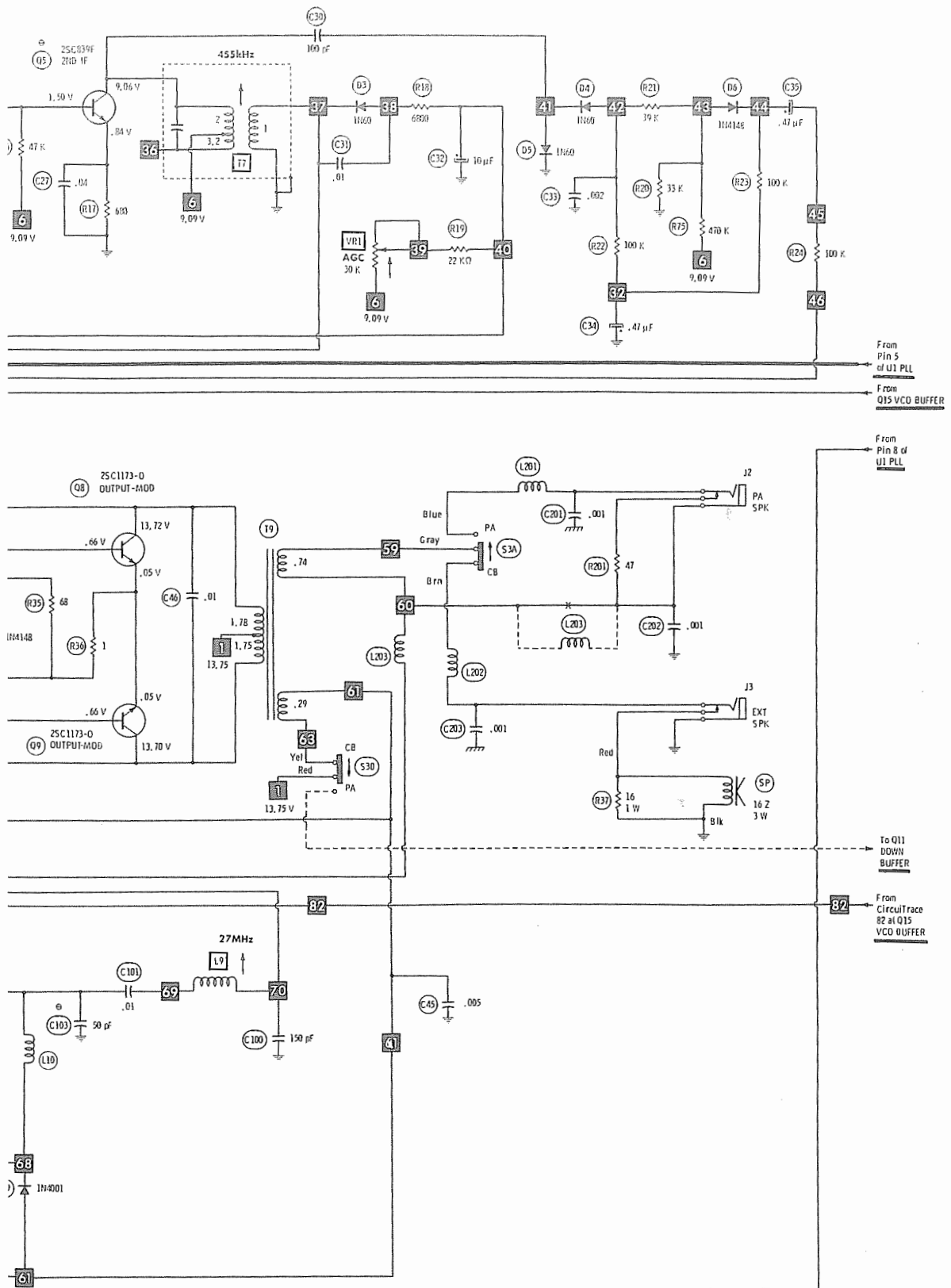
WITH **CIRCUITACE**

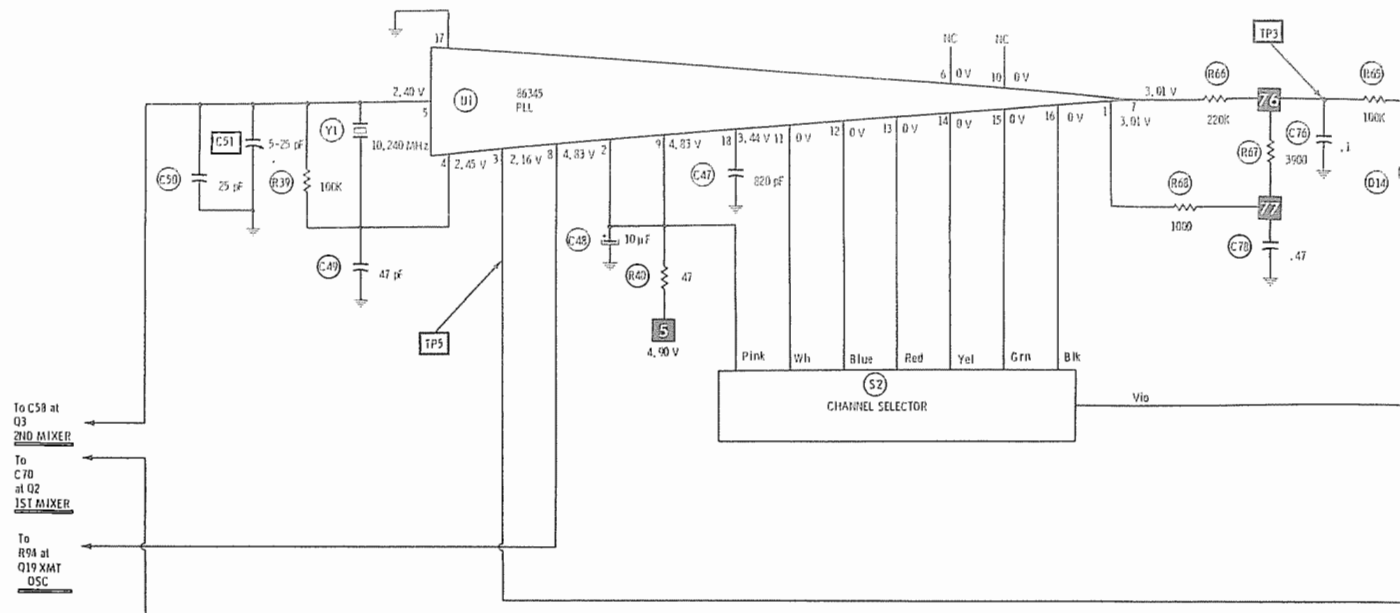
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Terminal Guides





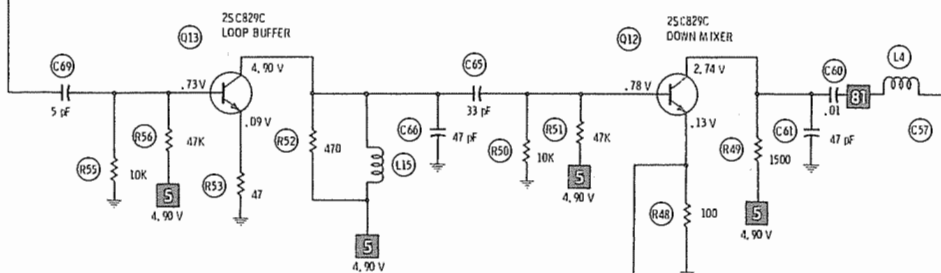




To C50 at
Q3
2ND MIXER

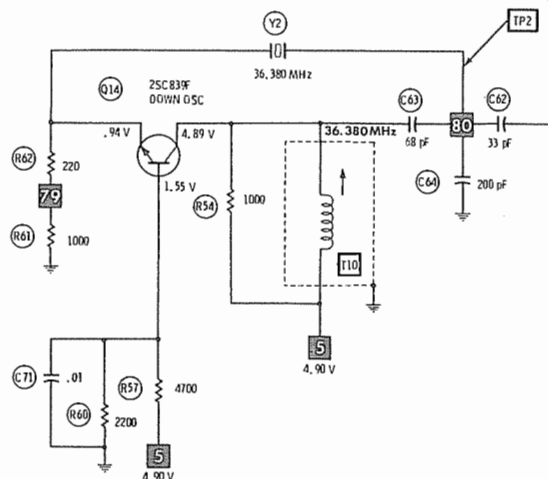
To
C70
at Q2
1ST MIXER

To
R94 at
Q19 XMT
OSC



From
S30
at T9

To
Circuitrace
82 at
Q20 XMT
MIXER

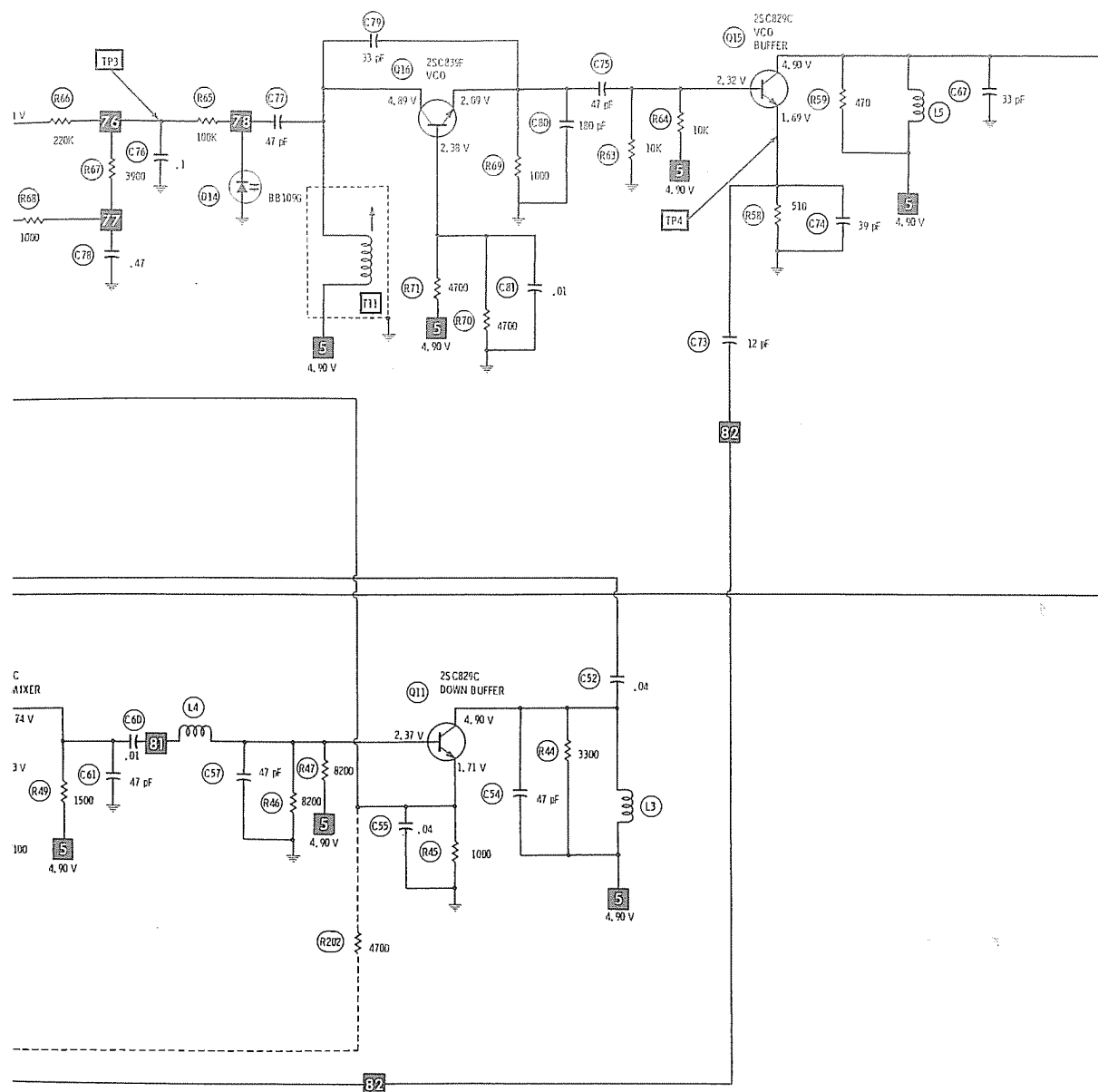


- * Circuitry not used in some versions
 - Circuitry used in some versions
 - ⊙ See parts list
 - ⊙ Nominal value
 - ⊕ Ground
 - ⊕ Chassis
 - ▽ Common tie point
- Measurements made in Channel 1 with
switching as shown unless noted.
Item numbers in rectangles appear in the
alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
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.

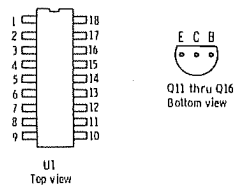
A PHOTOFACE STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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Terminal Guides



PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C29	47 10V	1080-59	PC50-16	VTT47D16	QV1-73	EV-1226
C32	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C34	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C35	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C36	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C38	100 10V	1080-60	PC100-10	VTT100E10	QV1-93	EV-1130
C39	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C40	100 10V	1080-60	PC100-10	VTT100E10	QV1-93	EV-1130
C42	100 16V	1042-127	PC100-16	VTT100F16	QV1-95	EV-1230
C48	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C70	.47 16V	2087-60		TDC474MD50EL	QOT1-19	S050-R479
C82	10 10V	1000-58	PC10-25	VTT10B25	QV1-41	EV-1222
C84	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C85	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C86	1 10V	1014-107	PC1-50	VTT1A50	QV1-9	EV-1315
C87	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C88	100 10V	1080-60	PC100-10	VTT100E10	QV1-93	EV-1130
C89	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C130	470 16V	1042-124	PC500-16	VTT470K16	QV1-151	EV-1250
C138	470 16V	1042-124	PC500-16	VTT470K16	QV1-151	EV-1250
C139	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C147	10 10V	1000-58	PC10-25	VTT10B25	QV1-41	EV-1222

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	33 NPO 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C2	.01 50V		UK50-103		MAG5011		
C3	3 50V $\pm$.25	(1)	DTZ-3R3	NP03P3	CN0533		10TCC-V33
	1.5		DTZ-1R5	NP01P5	CN0515		10TCC-V15
C4	.01 50V		UK50-103		MAG5011		
C5	.01 50V		UK50-103		MAG5011		
C6	.01 50V		UK50-103		MAG5011		
C7	.01 50V		UK50-103		MAG5011		
C8	.01 50V		UK50-103		MAG5011		
C9	33 NPO 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C11	.04 50V				GP140		5GA-S40
C12	1 50V $\pm$.25				CN0510		10TCC-V10
C14	.01 50V		UK50-103		MAG5011		
C15	25 50V 10%		DTZ-25	NP025	CN0425		10TCC-Q25
C16	.01 50V		UK50-103		MAG5011		
C18	500 50V 10%		DD-471	GP470	GP347		10TS-T47
C19	.04 50V				GP140		5GA-S40
C20	3 50V $\pm$.25	(1)	DTZ-3R3	NP03P3	CN0533		10TCC-V33
C21	.04 50V				GP140		5GA-S40
C23	.04 50V				GP140		5GA-S40
C24	2 N470 50V $\pm$.25	1080-41			*		10TCT-V30
C26	.01 50V		UK50-103		MAG5011		
C27	.04 50V				GP140		5GA-S40
C30	100 N750 50V 10%		DTH-100	N100	CN7310		10TCU-T10
C31	.01 50V		UK50-103		MAG5011		
C33	.002				GP220		
C37	.005		DC-502	MGP005	TA250	QC2-123	10TS-D20
C41	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	TG-050
C43	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C44	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C45	.005		DC-502	MGP005	TA250	QC2-123	TG-050
C46	.01 50V		UK50-103		MAG5011		
C47	820 50V 10%			CD19FD821J03	SX382		MWC-821
C49	47 NPO 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C50	33 NPO 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
	25 NPO 50V 10%		DTZ-25	NP025	CN0425		10TCC-Q25
C51	5-25	1042-53					
C52	.04 50V				GP140		5GA-S40
C54	47 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C55	.04 50V				GP140		5GA-S40
C57	47 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C58	5 50V $\pm$.25		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C59	.1 50V		CK-104		MAG5001		
C60	.01 50V		UK50-103		MAG5011		

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.	
						Q-LINE	GENERAL LINE
C61	47 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C62	33 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C63	68 NP0 50V 10%		DTZ-68	NP068	CN0468		10TCC-Q68
C64	200 NP0 50V 10%		DTZ-200				10TCC-T20
C65	33 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C66	51 50V 10%		DTZ-50	NP050	CN0450		10TCC-Q50
C67	33 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C69	5 50V +.25		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C70	5 50V -.25		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C71	.01 50V		UK50-103		MAG5011		
C72	.04 50V				GP140		5GA-S40
C73	12 50V 10%				CN0412		10TCC-Q12
C74	39 NP0 50V 10%				CN0439		10TCC-Q39
C75	47 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C76	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C77	47 N750 50V 10%		DTN-47	N47	CN7447		10TCU-Q47
C79	33 NP0 50V 5%		DTZ-33	NP033	CN0433		10TCC-Q33
C80	180 N750 50V 10%		DTN-180				10TCU-T18
C81	.01 50V		UK50-103		MAG5011		
C83	.01 50V		UK50-103		MAG5011		
C90	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C91	.01 50V		UK50-103		MAG5011		
C92	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C94	.001 50V		00-102		GP210		10TS-D10
C95	.01 50V		UK50-103		MAG5011		
C96	.04 50V				GP140		5GA-S40
C97	100 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C98	47 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
	33 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C99	.04 50V				GP140		5GA-S40
C100	150 50V 10%		DTZ-150		CN0315		10TCC-T15
C101	.01 50V		UK50-103		MAG5011		
C102	.04 50V				GP140		5GA-S40
C103	50 50V 10%		DTZ-50	NP050	CN0450		10TCC-Q50
	100		DTZ-100	NP0100	CN0310		10TCC-T10
C104	.01 50V		UK50-103		MAG5011		
C106	300 50V 10%		00-301	GP300	GP330		10TS-T30
C107	100 50V 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C108	.04 50V				GP140		5GA-S40
C109	.04 50V				GP140		5GA-S40
C111	.04 50V				GP140		5GA-S40
C112	150 50V 10%		DTZ-150		CN0315		10TCC-T15
C113	47 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C114	.04 50V				GP140		5GA-S40
C115	.01 50V		UK50-103		MAG5011		
C116	51 50V 10%		DTZ-50	NP050	CN0450		10TCC-Q50
	47 50V		DTZ-47	NP047	CN0447		10TCC-Q47
C117	100 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C118	5 50V +.25		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C119	150 N750 10%		DTN-100	N100	CN7310		10TCU-T10
C120	5 50V +.25		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C121	100 NP0 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C122	.01 50V		UK50-103		MAG5011		
C123	220 50V 10%		00-221		GP322		10TS-T22
C124	.001 50V		00-102		GP210		10TS-D10
C125	5-25	1042-53					
C126	510 50V 10%		00-501	GP500	GP350		10TS-T50
C127	.01 50V		UK50-103		MAG5011		
C128	.01 50V		UK50-103		MAG5011		
C129	.01 50V		UK50-103		MAG5011		
C131	.04 50V				GP140		5GA-S40
C132	.04 50V				GP140		5GA-S40
C133	.04 50V				GP140		5GA-S40
C134	24 NP0 50V 10%		DTZ-25	NP025	CN0425		10TCC-Q25
	39 NP0 50V 10%				CN0439		10TCC-Q39
C135	.04 50V				GP140		5GA-S40
C136	.01 50V		UK50-103		MAG5011		
C137	.01 50V		UK50-103		MAG5011		
C140	.01 50V		UK50-103		MAG5011		
C141	2 N470 50V +.25	1080-41			*		10TCT-V30
C142	.01 50V		UK50-103		MAG5011		
C144	100 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C145	.1 50V		CK-104		MAG5001		
C146	.04 50V				GP140		5GA-S40
C149	22		DTZ-22	NP022	CN0422		10TCC-Q22
C201	.0027				GP227		10TS-D27
	.001		00-102		GP210		10TS-D10
C202	.001		00-102		GP210		10TS-D10
C203	.001		00-102		GP210		10TS-D10
C204	.001		00-102		GP210		10TS-D10
C205	.001		00-102		GP210		10TS-D10
C206	.001		00-102		GP210		10TS-D10
C207	.001		00-102		GP210		10TS-D10

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

(1) In Model Fanfare 125F.

COURIER/FANON MODELS ROGUE 40/FANFARE 125F

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.
VR1	AGC	30K	1080-31				X260R503B (2)
VR2	Squelch	50K					X260R503B (2)
VR3	Squelch Range	50K	1080-29				X260R502B (2)
VR4	Volume/Switch	10K					X260R503B (2)
VR5	AVC	5000					X260R503B (2)
VR6	W Meter	20K					X260R503B (2)
VR7	S Meter	20K					X260R503B (2)

(2) Cut off one of the end terminals and bend to fit PC board.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	IF (10.695MHz)	1080-13	TKAC-22536IE	CBS135-TC	
L3	RF Choke (470uH)	1079-08		9250-474	
L4	RF Choke (100uH)	1079-09		9250-104	
L5	RF Choke (1.2uH)	2049-08			
L6	RF Choke (2.2uH)	1080-27		70F226AI	
L7	RF Choke (1mH)	CH-4			
L8	RF Choke	1043-26	NS-1344		
L9	Antenna Tuning (27MHz)	1045-24	TC-71025	CB305	
L10	RF Choke	1080-22	TC-71029	4588	
L12	Pi Filter	1080-26	TC-71095	4590	
L13	RF Choke (2.2uH)	1080-27		70F226AI	
L14	RF Choke (1mH)	CH-4			
L15	RF Choke (1.2uH)	2049-08			
L16	RF Choke	1080-26	TC-71095	4590	
L17	Pi Filter	1080-28	115C		
L19	Pi Filter	2022-145			
L201	RF Choke (2.2uH)	1080-27		70F226AI	
L202	RF Choke (2.2uH)	1080-27		70F226AI	
L203	RF Choke (2.2uH)	1080-27		70F226AI	
L204	RF Choke (2.2uH)	1080-27		70F226AI	
L205	RF Choke (2.2uH)	1080-27		70F226AI	
L206	RF Choke (2.2uH)	1080-27		70F226AI	
T1	Rec Antenna (27MHz)	1080-11	TKXN-22160BU	CBS740-T	
T2	Rec Mixer (27MHz)	1080-12	TKXN-22534BU	CBS711-TC	
T3	IF (10.695MHz)	1080-14	TKAC-22165A	CBS508-1TC	
T4	IF (455kHz)	1080-15	YLN-20844BM	CBS507-4	
T5	IF (455kHz)	1080-16	YMC-20845AC		
T6	IF (455kHz)	1080-16	YMC-20845AC		
T7	IF (455kHz)	1080-17	YMC-20846AC	8535	
T10	Down Mixer	1043-22	KXN13638HM	CBS121	
T11	VCO	1043-22	KXN13638HM	CBS121	
T12	TVI Trap (54MHz)	1080-131	TC-71024	CB304	
T13	XMT Driver (27MHz)	1080-23	TC-71023	CB303	
T14	XMT Buffer (27MHz)	1080-24	TC-71026	CB306	
T15	Mixer (27MHz)	1043-23	KXN-13636DM	CBS701	
T16	Mixer (27MHz)	1043-22	KXN-13638HM	CBS121	
T17	Mixer (27MHz)	1043-22	KXN-13638HM	CBS121	

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.	
L17	1A	.114	.6mH	1080-28			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T8	1	1		1080-137			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T9	32	1 8 2 18	1080-138		MCB-9	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PH, 16 Ohms	1080-150	30C25216	

COURIER/FANON MODELS ROGUE 40/FANFARE 125F

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
F1	1.5A Quick Acting	1080-67	2087-40	AGC1 1/2	HDJ	31201.5	150145	F61 1/2-2

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	2017-116	18-032	18-034	18-010	18-092	2	4	3	1	NC	4

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	2087-41	455kHz
J1	Jack	2079-48	Antenna
J2	Jack	1079-110	PA
J3	Jack	1079-110	External Speaker
J4	Socket	2017-25	Microphone
J5	Jack	2017-26	Microphone
M	Meter	2041-10	S/R
PL1	Lamp	2087-25	Meter
PL2	Lamp	2087-26	Channel
S1	Switch		Power (Part of Volume Control)
S2	Switch	2087-23	Channel Selector
S3	Switch	2041-12	CB/PA
Y1	Crystal	2049-05	10.24MHz
Y2	Crystal	2049-06	36.380MHz
Y3	Crystal	2049-07	10.695MHz

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

ITEM	PART No.	ITEM	PART No.
Case Bottom	2087-16	Knob, Control	2087-08
Knob, Channel Selector	2087-07		