



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 GM130

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
T3, T4, Z1A, Z1B	5000, 8290
L6, L7, T12, T13	9300
T1, T2, T7, T8, T9, T10, T11	9440

GM MODEL GM130

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
HF OSC				
RF Voltmeter	23	T7		Connect meter between CR14 and CR15. Adjust 1/8 turn beyond peak RF voltage point.
MIXER	12	T8, T9, T10, T11		Connect meter to case of Q15. Adjust for maximum.

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

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RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil. NOTE: L6 and L7 should be adjusted before receiver is aligned. (See Transmitter Alignment). Adjustments are made with 14-volt DC input. Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru a .01uF capacitor to Base of Q2, low side to ground.	Set to 455kHz, 1000Hz, @ 30% Modulation Output MINIMUM uV.	Any	Z1A, Z1B, T3, T4	Adjust for maximum.
High side thru a .01uF capacitor to Antenna Jack, low side to ground.	Set to 27.105MHz, 1000Hz @ 30% modulation output 0.5uV.	12	T1, T2	Adjust for maximum.

RECEIVER ADJUSTMENTS

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
AGC High side thru a .01uF capacitor to antenna jack, low side to ground.	Set to 27.085MHz, 1000Hz @ 300% Mod. Output 500uV.	11	R7	Adjust volume control to obtain 0 dB. Decrease generator to 0.5uV. Adjust so that signal does not drop more than 17dB.

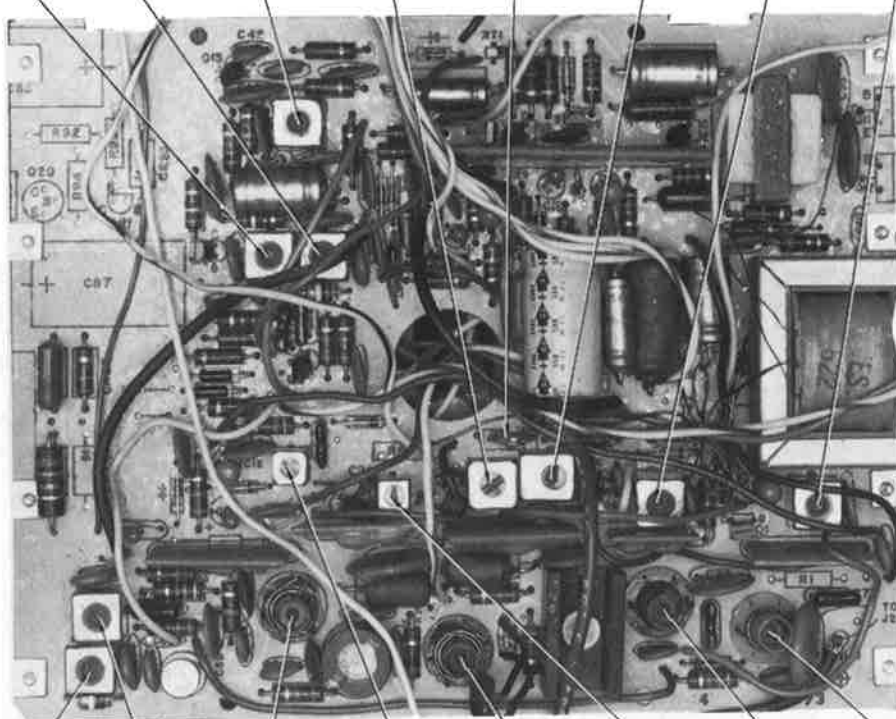
TRANSMITTER

Connect an RF Wattmeter or 50-ohm 25-watt dummy load to antenna connector. Adjustments are made with 14-volt DC input.

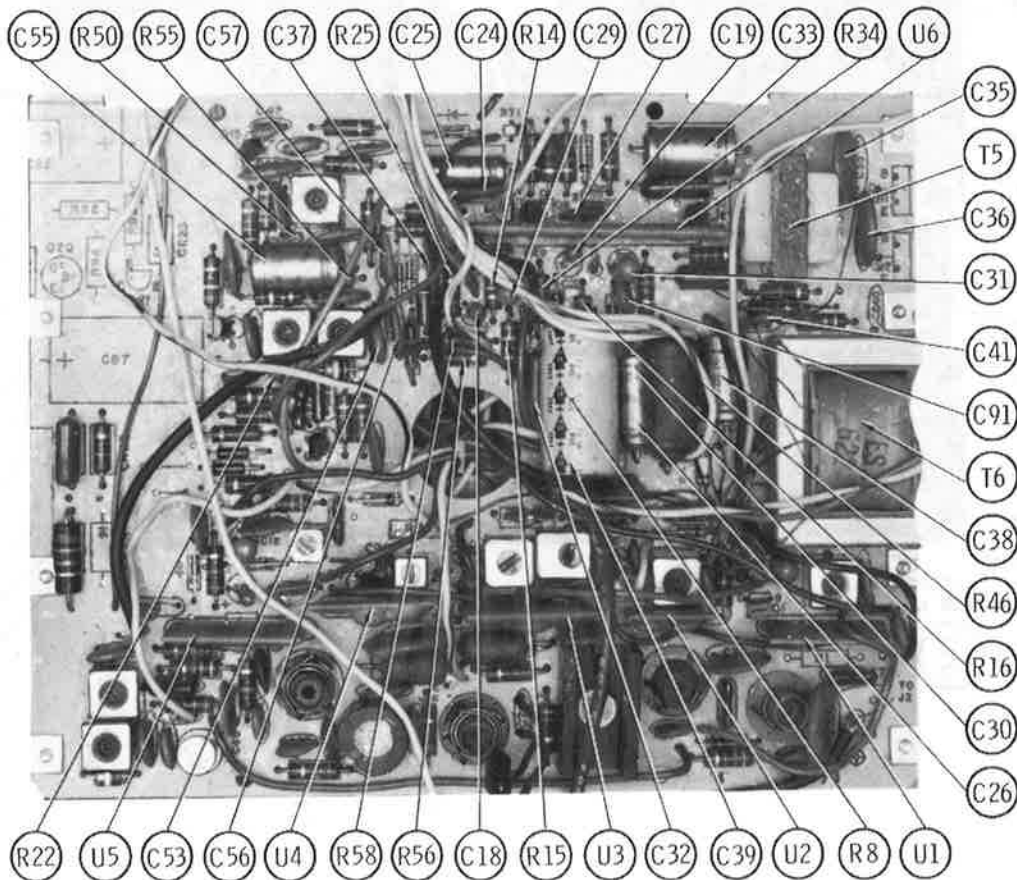
AM

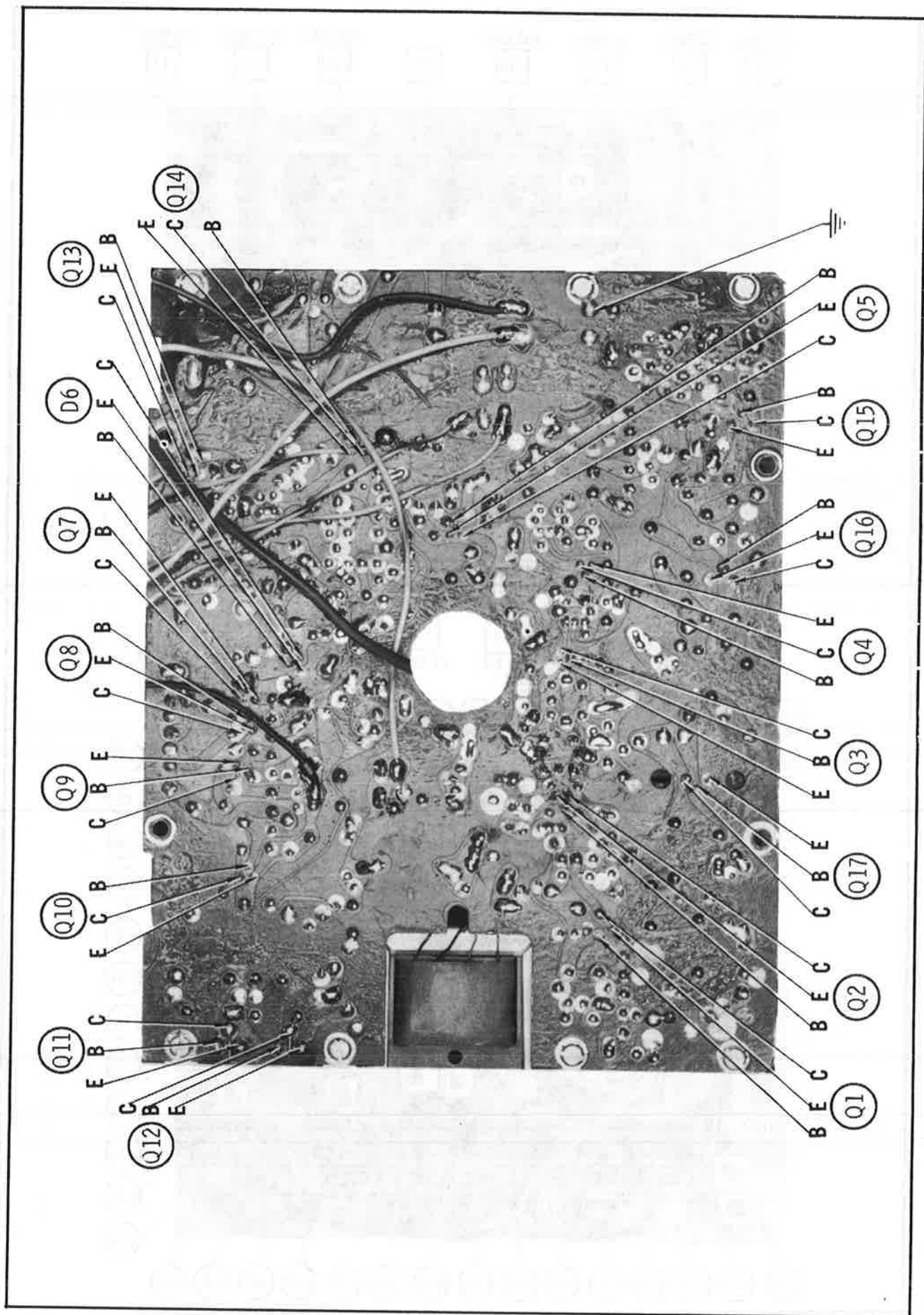
INDICATOR	ADJUST	REMARKS
BUFFER, DRIVER, FINAL RF Wattmeter or dummy load and RF VTVM.	T10, T4, T12, T13	Connect wattmeter to antenna connector. Channel Selector to Ch. 12. Key transmitter. Adjust for maximum.
FINAL INPUT POWER 0-1 A DC Milliammeter	L6, L7	Insert meter between emitter of Q17 and ground. Key transmitter. Adjust for no more than 5 watts DC input. Adjust L6 for MINIMUM current.

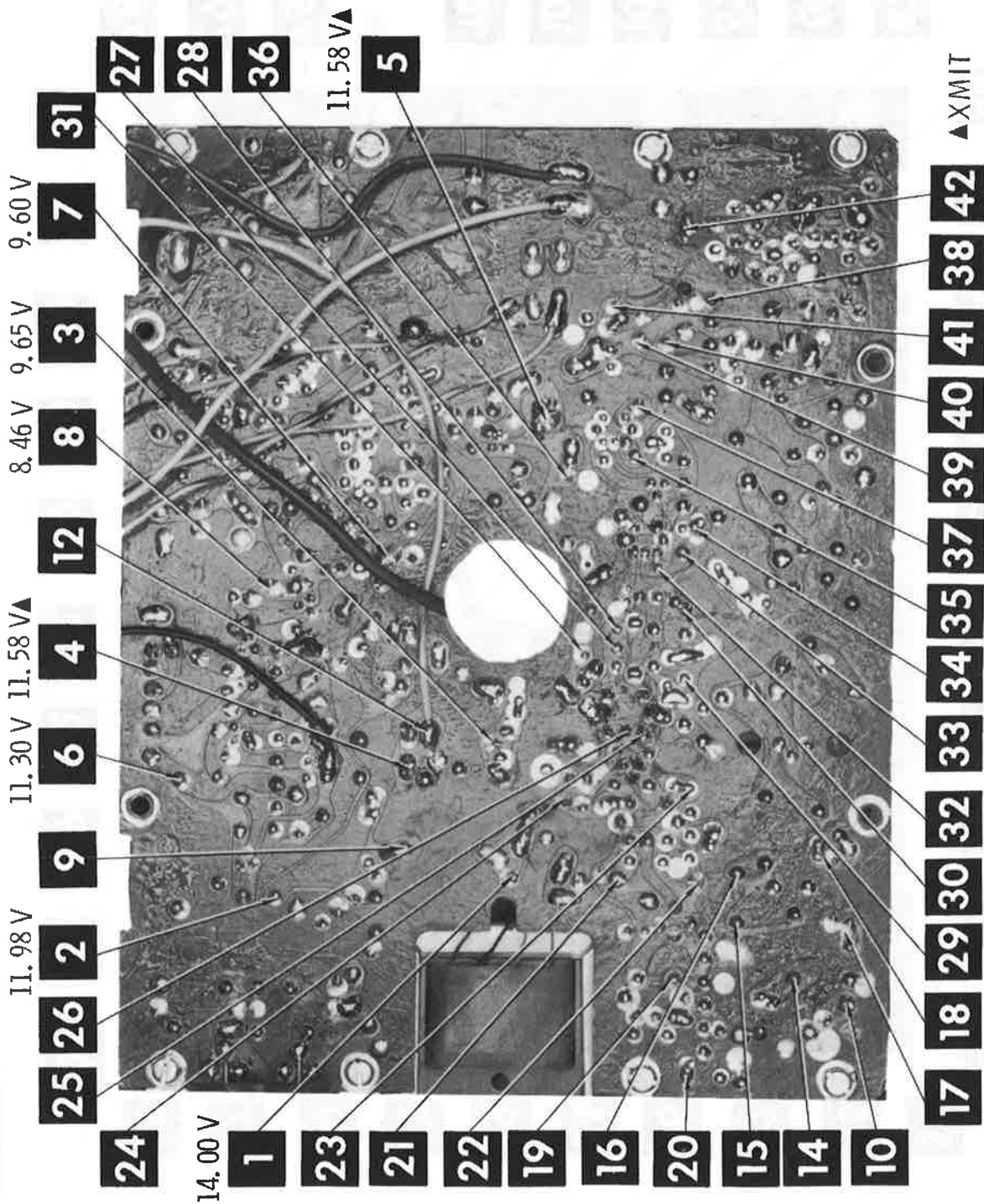
27 MHz T8 27 MHz T9 32 MHz T7 455 kHz Z1B R7 455 kHz Z1A 2.7 MHz T2 27 MHz T1



T11 27 MHz T10 27 MHz T12 27 MHz T4 455 kHz T13 27 MHz T3 455 kHz L6 27 MHz L7 27 MHz

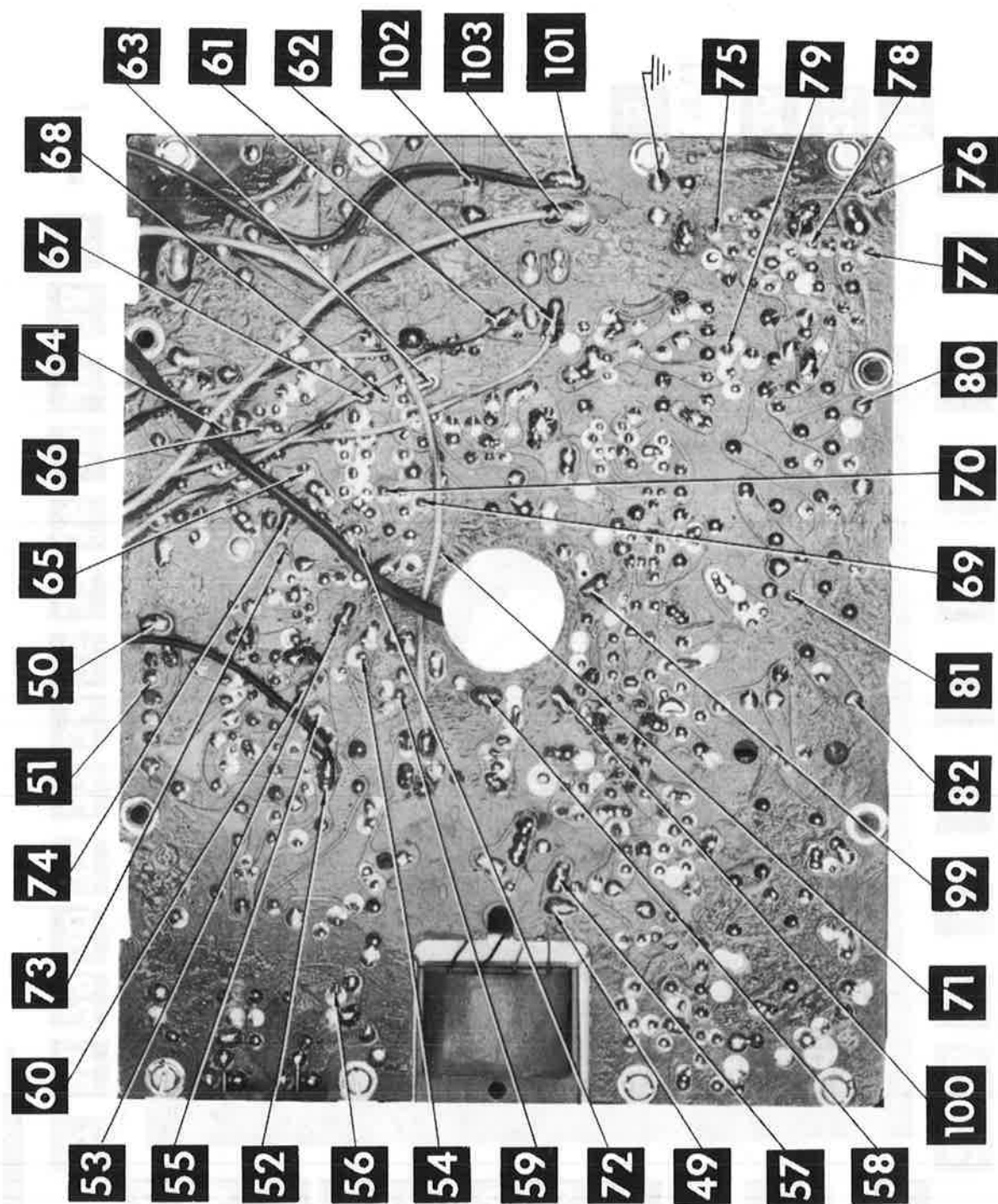


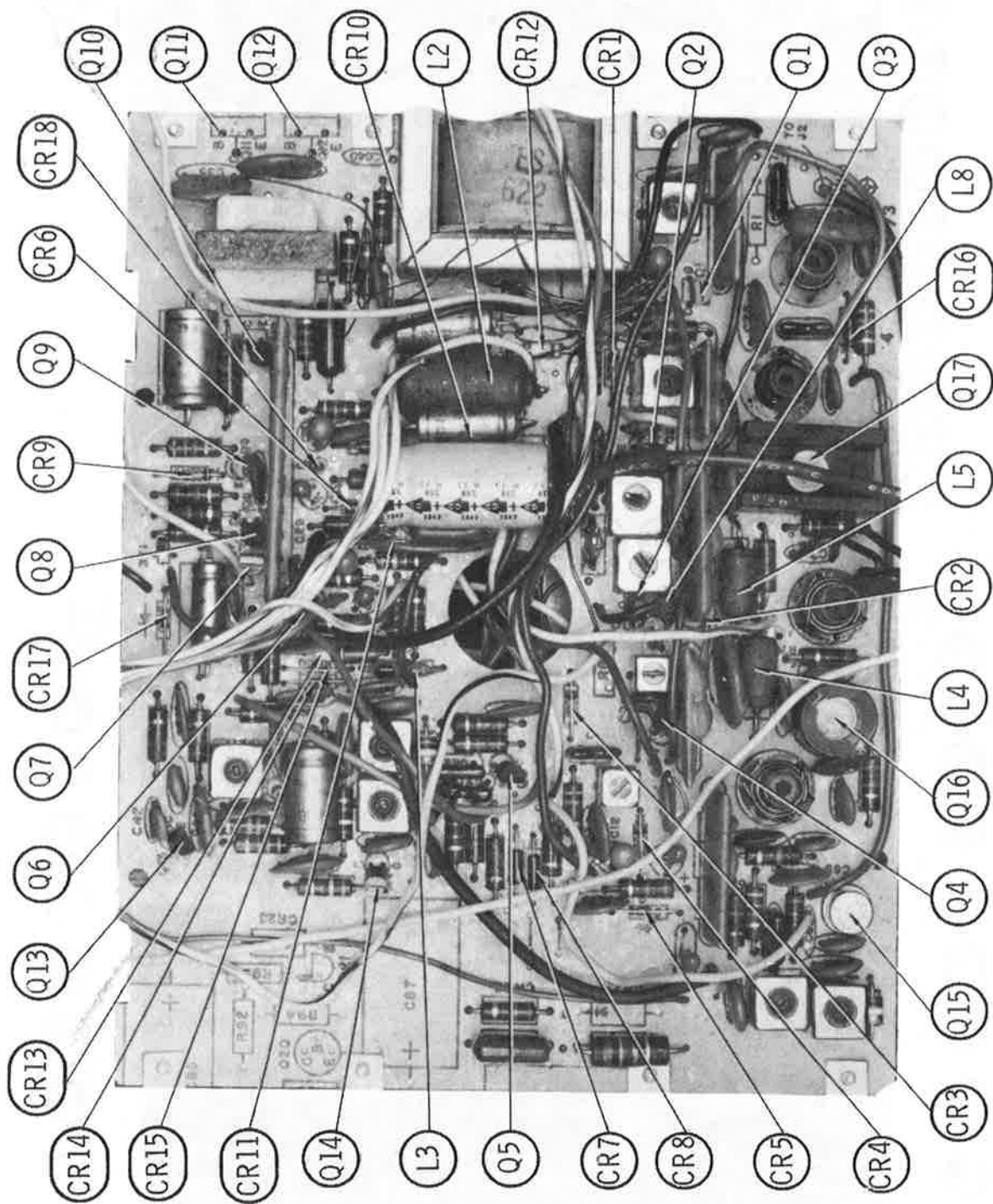




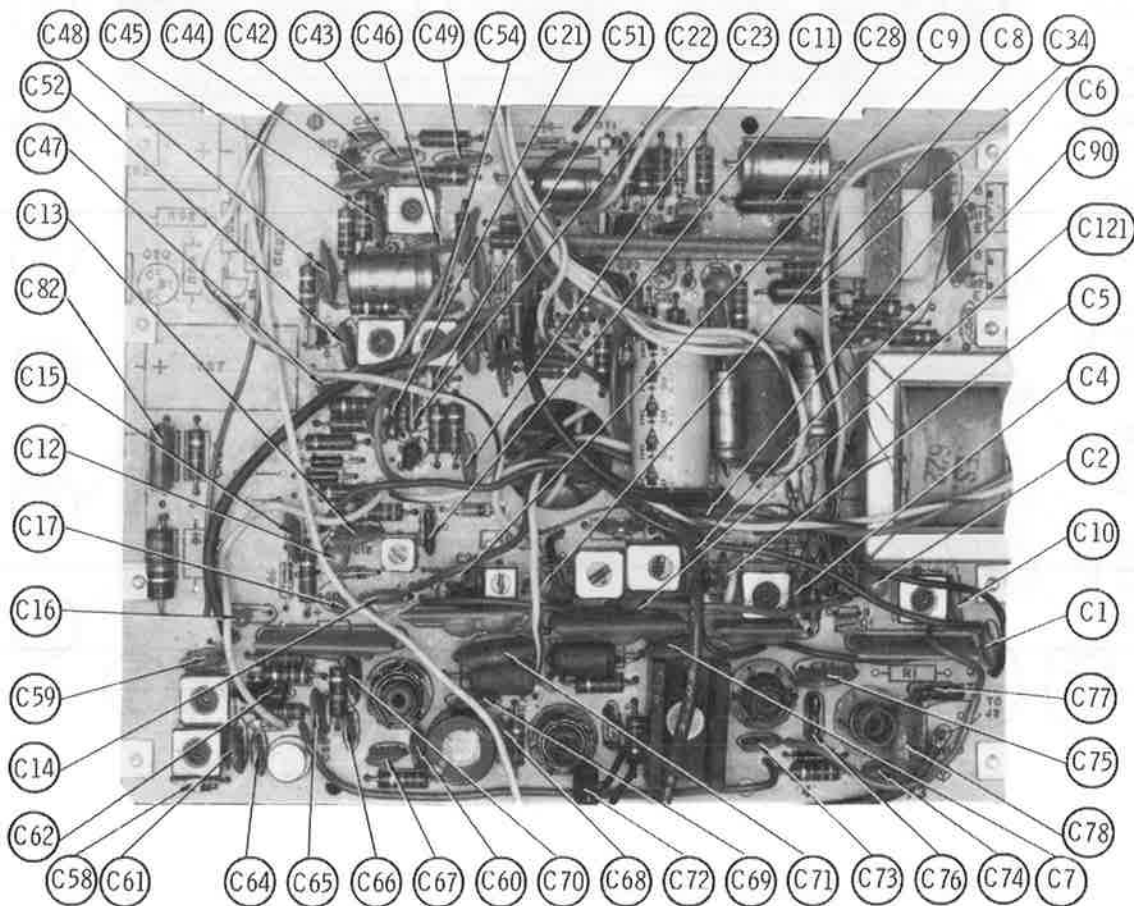
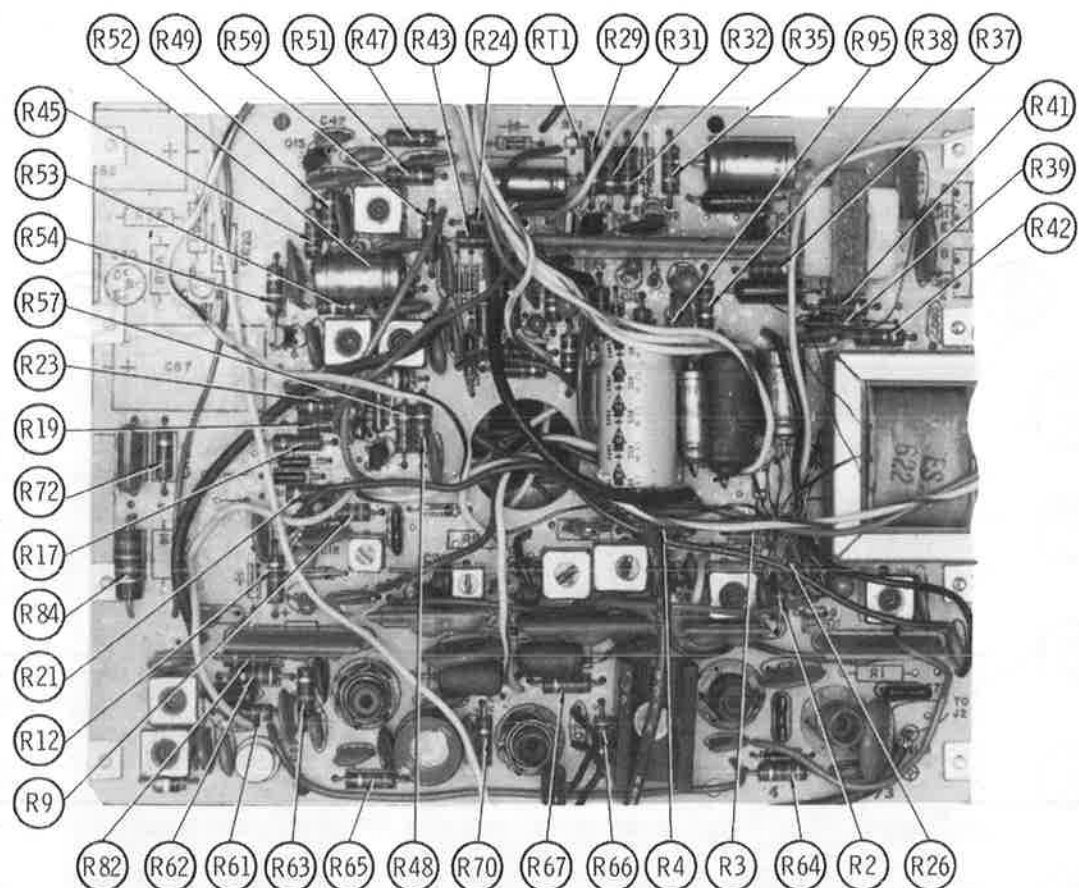
A Howard W. Sams **CIRCUITRACE®** Photo

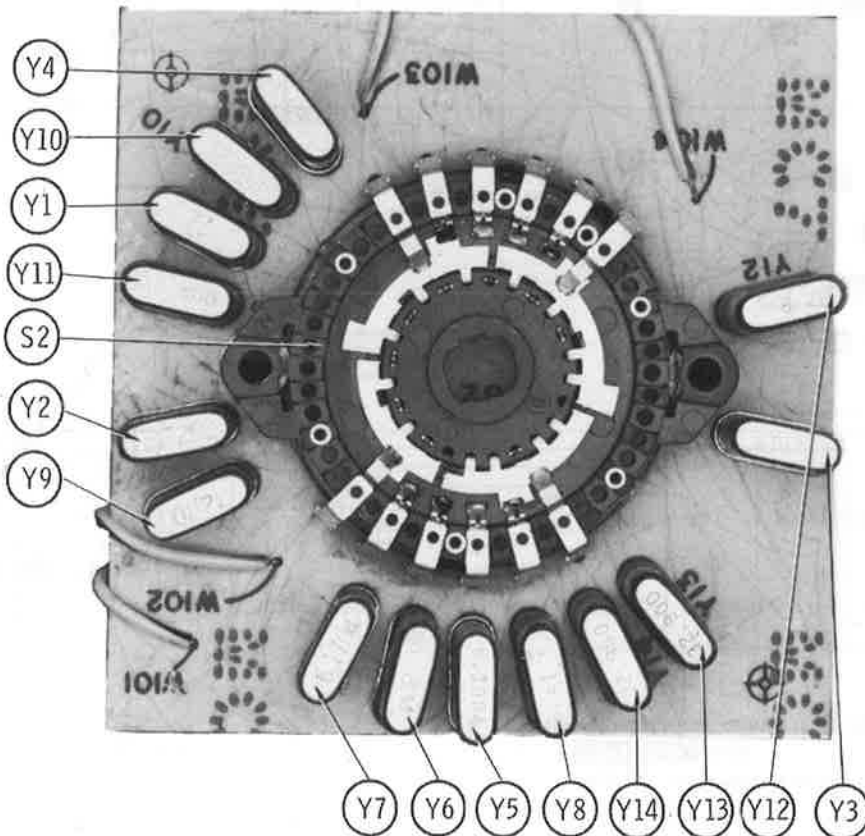
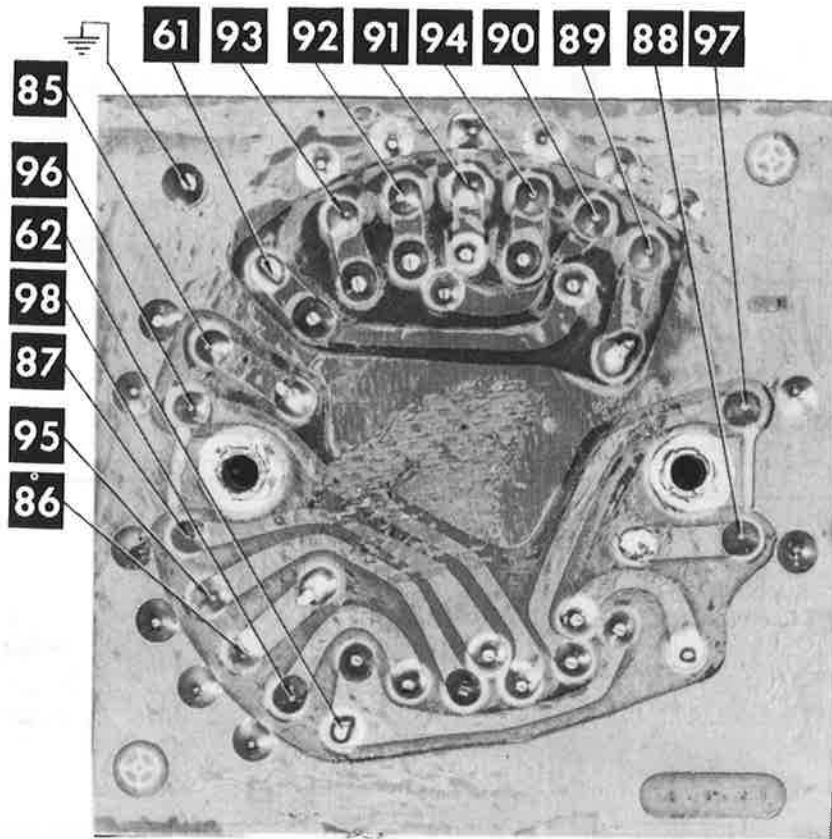
GM MODEL GM130





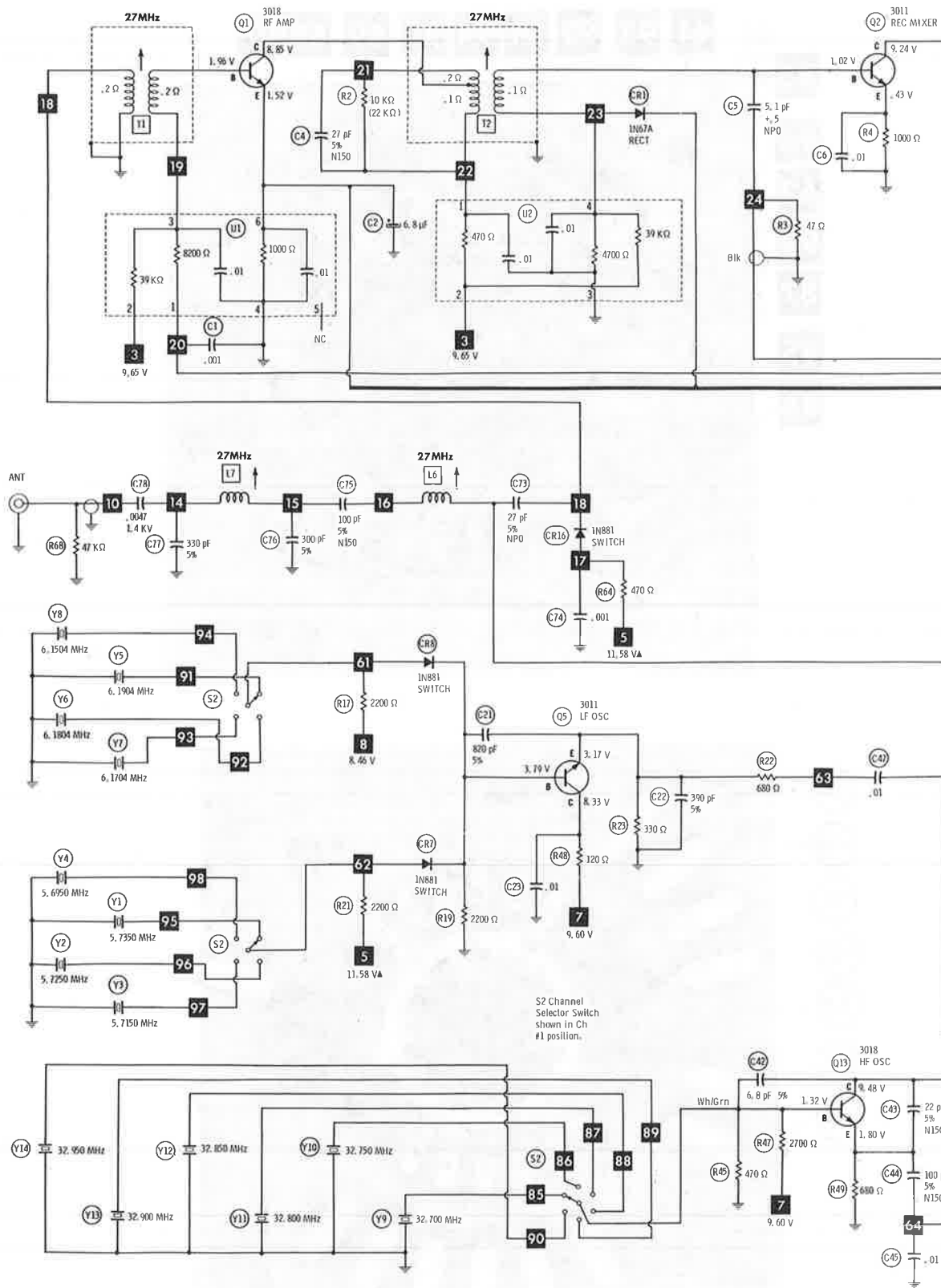
GM MODEL GM130





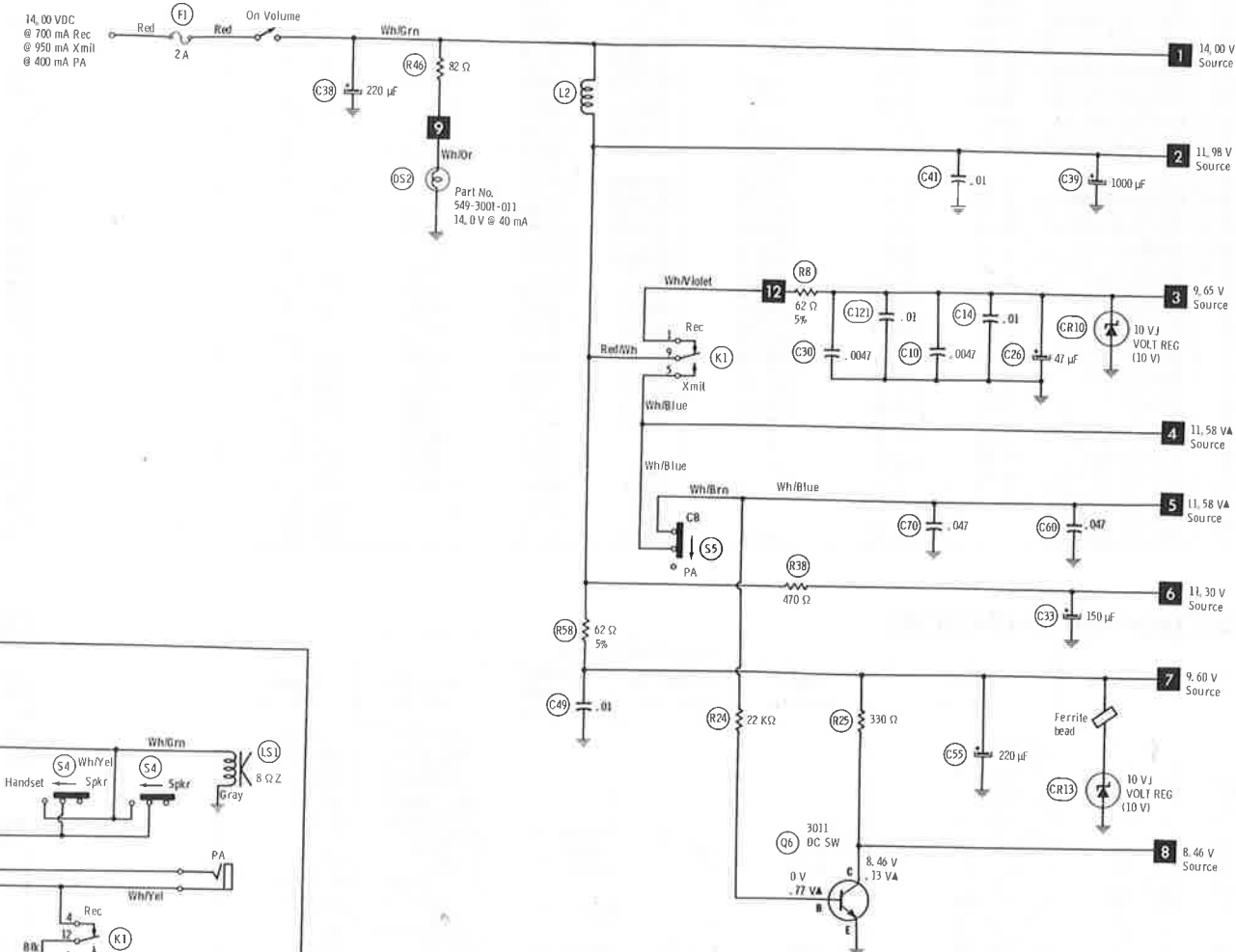
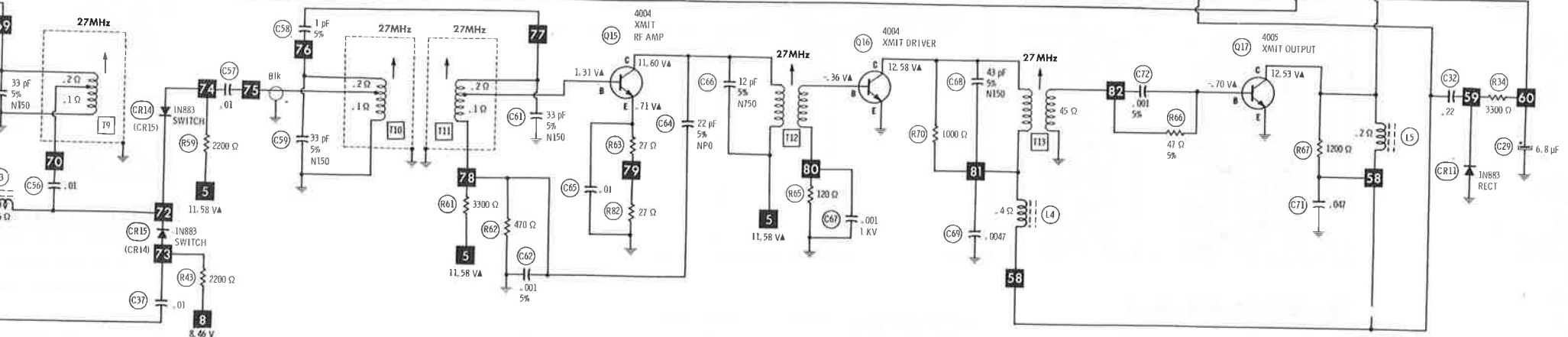
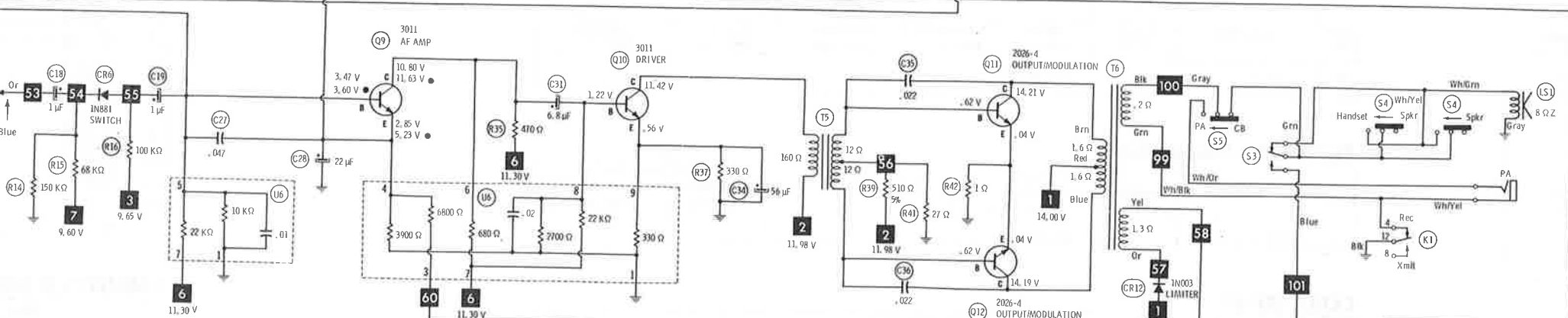
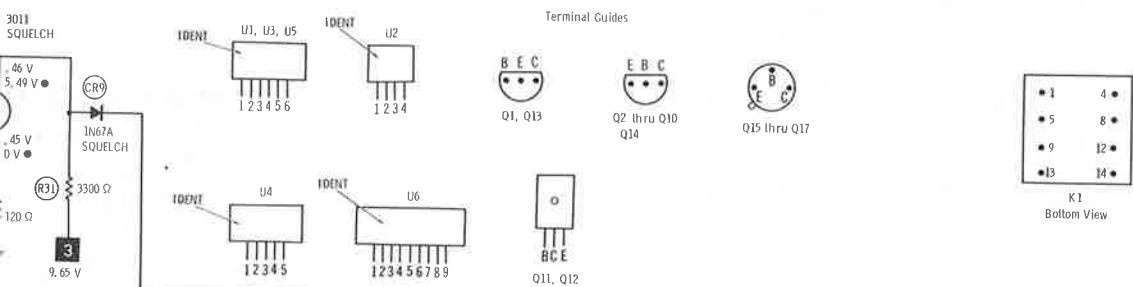
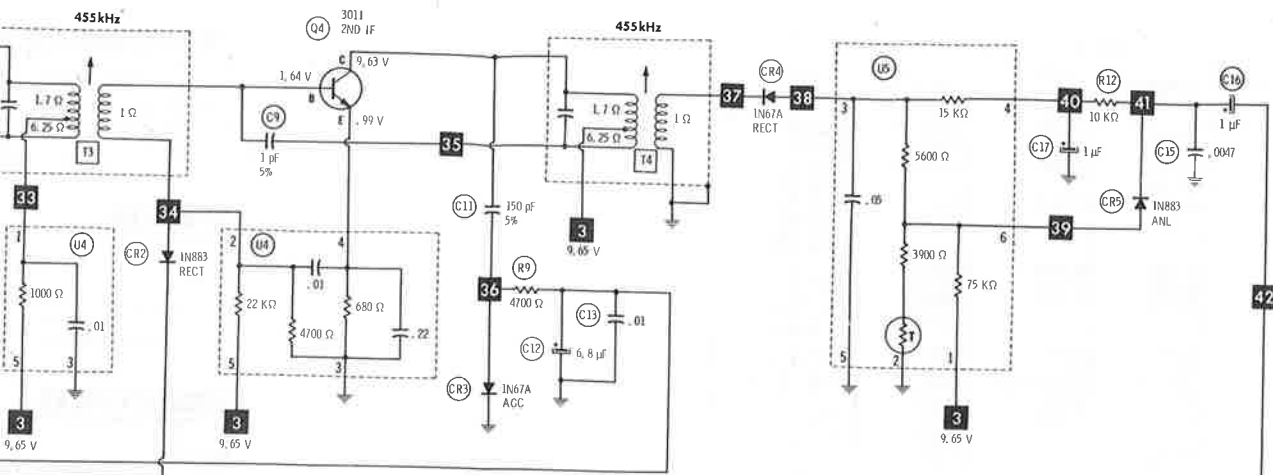
CHANNEL SWITCH & CRYSTAL BOARD

GM MODEL GM130



A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**

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CRYSTAL CHART

CH	HF OSC	LF REC	LF XMIT
1	Y9	Y5	Y1
2	Y9	Y6	Y2
3	Y9	Y7	Y3
4	Y9	Y8	Y4
5	Y10	Y5	Y1
6	Y10	Y6	Y2
7	Y10	Y7	Y3
8	Y10	Y8	Y4
9	Y11	Y5	Y1
10	Y11	Y6	Y2
11	Y11	Y7	Y3
12	Y11	Y8	Y4
13	Y12	Y5	Y1
14	Y12	Y6	Y2
15	Y12	Y7	Y3
16	Y12	Y8	Y4
17	Y13	Y5	Y1
18	Y13	Y6	Y2
19	Y13	Y7	Y3
20	Y13	Y8	Y4
21	Y14	Y5	Y1
22	Y14	Y6	Y2
23	Y14	Y8	Y4

Denotes chassis.
 Denotes ground. Voltage reference unless otherwise indicated.
 Indicates connection used in some versions.
 Indicates connection not used in some versions.
 See parts list.
 Value varies; replace with original value.
 Measured in transmit position.
 Measured with unit squelched.
 NC No Connection.
 Measurements taken with switching in position shown unless otherwise indicated.
 Values shown in () are used in some applications.
 Supply voltage maintained at rated value for measurements.
 Voltage and resistance measured with VTVM or equivalent meter, no signal applied and controls adjusted for normal operation.
 Arrow on control indicates direction of advance.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely; no resistance measurements taken.
 Resistors are 1/2W or less, unless otherwise indicated.

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

ITEM No.	TYPE / MFGR. No./PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CR1	1N67A/523-1500-067	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
CR2	1N414B/523-1500-883	GE-300	D200	CR214	HEPR0602	SK3100	RT218	ECG 177
CR3	1N67A/523-1500-067	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
CR4	1N67A/523-1500-067	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
CR5	1N414B/523-1500-883	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR6	1N881/523-1500-881	GE-300	D200	CR214	HEPR0602	SK3100	RT218	ECG 177
CR7	1N881/523-1500-881	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR8	1N881/523-1500-881	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR9	1N67A/523-1500-067	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
CR10	10VJ/523-2503-100	GEZD-10	Z-1210	PTC506	HEPZ0413	SK3061	RT241	ECG 140
CR11	1N44B/523-1500-883	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR12	1N4003/523-0501-003	GE-504A	804 or 5A4D	PTC201	HEPR0052	SK3030	RT213 or	ECG 116 or
				PTC202		SK3031	RT214	ECG 117
CR13	10VJ/523-2003-100	GEZD-10	Z-1210	PTC506	HEPZ0413	SK3061	RT241	ECG 140
CR14	1N414B/523-1500-883	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR15	1N414B/523-1500-883	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR16	1N881/523-1500-881	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR17	1N414B/523-1500-883	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
CR18	1N414B/523-1500-883	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
Q1	301I/576-0003-018	GE-11	TR-24	PTC115	HEP56	SK3018	RT107	ECG 107
Q2	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q3	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q4	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q5	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q6	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q7	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q8	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q9	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q10	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q11	413/576-0002-001	GE-66	TR-76			SK3041	RT154	ECG 241
Q12	413/576-0002-001	GE-66	TR-76			SK3041	RT154	ECG 241
Q13	301B/576-0003-018	GE-11	TR-24	PTC115	HEP56	SK3018	RT107	ECG 107
Q14	301I/576-0003-011	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q15	4004/576-0004-004		TR-64		HEP75	SK3047		ECG 195
Q16	4004/576-0004-004		TR-64		HEP75	SK3047		ECG 195
Q17	4005/576-000							

ITEM No.	RATING	REPLACEMENT DATA						
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C2	6.8 35V	510-2045-689						
C12	6.8 35V	510-2045-689						SD35-6R89
C16	1 35V	510-2045-109						SD35-6R89
C17	1 35V	510-2045-109						SD35-19
C18	1 35V	510-2045-109						SD35-19
C19	1 35V	510-2045-109						SD35-19
C25	100 10V	510-4003-005	ME-4-D-100	EA15-100	WBR100-16	MTA100E10		TVA-1130
C26	47 25V	510-4006-012	ME-4-G-050	EA30-50	WBR50-25	MTA50E25		TVA-1206
C28	22 15V	510-2003-220	ME-2-E-025	EA15-25	WBR25-25	MTA25020		TVA-1148
C29	6.8 35V	510-2045-689						SD35-6R89
C31	6.8 35V	510-2045-689						SD35-6R89
C33	150 25V	510-4006-006						EV-1235
C34	56 6V	510-2001-560						SD6-569
C38	220 16V	510-4006-004	ME-8-E-250	EA15-250	WBR250-16	MTA250F15		TVA-1161
C39	1000 16V	510-4006-005	ME-G1000	EA15-1000	WBR1000-16	MTA1000G25		TVA-1163
C55	220 16V	510-4006-004	ME-8-E-250	EA15-250	WBR250-16	MTA250F15		TVA-1161

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCOPART No.	CENTRALABPART No.	CORNELL-DUBILIERPART No.	MALLORYPART No.	SPRAGUEPART No.
C1	.001	510-3216-270 510-3213-519	CCD-102	DP-102	GP10000 GP10000 CD7FD151J03 GP10000 CD15FD391J03 GP10000 MGP05 DPMS2P22 GP10000 GP10000	GP210	10TS-D10
C4	27 5% N150		*			*	10TCP-Q27
C5	5.1 NPO ±.5		CCD-103	DC-103		MAG5011	2SS-S10
C6	.01		CCD-103	DC-103		MAG5011	2SS-S10
C7	.01					CN0510	10TCC-V10
C8	1 5%		CCD-472			CN0510	10TCC-V10
C9	1 5%		DM10-151J	CPR-150J		SX315	10TS-D47
C10	.0047		CCD-103	DC-103		MAG5011	424MC1500J501
C11	150 5%		CCD-103	DC-103		MAG5011	2SS-S10
C13	.01		CCD-472			MAG5011	2SS-S10
C14	.01		DM19-821J	CPR-820J			10TS-D47
C15	.0047		DM15-391J	CPR-390J		SX382	424ME820QJ501
C21	820 5%		CCD-103	DC-103		SX339	424ME3900J501
C22	390 5%		CCD-103	DC-103		MAG5011	2SS-S10
C23	.01		CCD-503	DC-503		MAG5011	2SS-S10
C24	.01	CCD-102	DD-102	MAG5015	TGL-S50		
C27	.047	1MDF-4-224		GP210	10TS-D10		
C30	.001	CCD-203		EWFI A022	1PB-P22		
C32	.22	CCD-203		GP120	5GA-S20		
C35	.022	CCD-203		GP120	5GA-S20		
C36	.022	CCD-103	DC-103	MAG5011	2SS-S10		
C37	.01	CCD-103	DC-103	MAG5011	2SS-S10		
C41	.01	CCD-103	DC-103	CN7568	2SS-S10		
C42	6.8 N750	510-3220-689			10TCU-V68		
C43	22 5% N150	510-3216-220	*		10TCP-Q22		
C44	100 5% N150	510-3216-101	*		10TCP-T10		

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

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C45	.01	510-3216-330	CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C46	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C47	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C48	180 5% N750		*	DTX-181	*	MAG5011	10TCW-T18
C49	.01		CCD-103	DC-103	GP10000	CN0510	2SS-S10
C51	1 5%	510-3216-330	*	*	*	10TCC-V10	
C52	33 5% N150		*	*	*	10TCP-Q33	
C53	33 5% N150		*	*	*	10TCP-Q33	
C54	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C56	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C57	.01	510-3216-330	CCD-103	DC-103	GP10000	CN0510	10TCC-V10
C58	1		*	*	*	10TCP-Q33	
C59	33 5% N150		CCD-503	DC-503	MGPO5	MAG5015	TGL-S50
C60	.047		DTN-33	DTN-33	N33	CN7433	10TCU-Q33
C61	33 5% N750		DM19-122J	CPR-1200J	CD19FD122J03	SX212	424ME1201J501
C62	.001 5%	510-3216-430	DTZ-22	DPZ-22	NP022	CN0422	10TCC-Q22
C64	22 5% NPO		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C65	.01		CCD-102	DD-102	*	CN7412	10TCU-Q12
C66	12 5% N750		*	*	*	GP210	10TS-D10
C67	.001 1KV		CCD-472	DC-503	MGPO5	MAG5015	10TS-D47
C68	43 5% N150	510-3216-101	CCD-503	DC-503	MGPO5	MAG5015	TGL-S50
C69	.0047		CCD-503	DC-503	MGPO5	MAG5015	TGL-S50
C70	.047		DM19-102J	CPR-1000J	CD19FD102J03	SX210	424ME1001J501
C71	.047 50V		CCD-102	DD-102	*	CN0427	10TCC-Q27
C72	.001 5%		*	*	*	GP210	10TS-D10
C73	27 5% NPO	510-3216-472	DM15-301J	CPR-300J	CD15FD301J03	SX330	10TCC-T10
C74	.001		DM15-331J	CPR-330J	CD15FD331J03	SX333	424ME3000J501
C75	100 5% N150		1ND47-4-224	DM15-471J	DPM52P22	EWFTA022	1PB-P22
C76	300 5%		DM15-471J	CPR-470J	CD15FD471J03	SX347	424ME4700J501
C77	330. 5%		CCD-102	DD-102	GP10000	GP210	10TS-D10
C78	.0047 1.4KV DC	510-3001-472	CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C82	.22						
C90	.470						
C91	.001						
C121	.01						

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MAILORY PART No.
R13 R27	Volume/Switch Squelch	10K 5000	562-0016-004 562-0002-011				

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFG. PART No.			WORKMAN PART No.	MFG. PART No.
RT1	8000 Cold NTC		569-3001-001				

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	Audio Choke (20mH)	542-8001-011		6308	
L3	RF Choke (20uH)	542-3002-002		T300	
L4	RF Choke (13uH)	542-3003-001		4624	
L5	RF Choke (13uH)	542-3003-001		4624	
L6	Final Tank (27MHz)	542-1005-010			
L7	Pi Network (27MHz)	542-1005-004			
T1	Rec. Ant (27MHz)	592-5015-001			
T2	Rec. RF (27MHz)	592-5015-002			
T3	Input IF (455kHz)	592-5020-004			
T4	Output IF (455kHz)	592-5020-004			
T7	HF Osc (32MHz)	592-5015-004			
T8	Syn Mixer (27MHz)	592-5015-005			
T9	Syn Mixer (27MHz)	592-5015-005			
T10	Syn Mixer (27MHz)	592-5015-005			
T11	Syn Mixer (27MHz)	592-5015-005			
T12	RF Amp (27MHz)	592-5014-001			
T13	RF Driver (27MHz)	592-5014-002			

ITEM No.	TURNS RATIO			REPLACEMENT DATA				NOTES
				MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
	PRI.	SEC. 1	SEC. 2					
T5	2	1		592-1007-004				

(When ordering parts)

ITEM No.	IMPEDANCE	
	PRI.	SEC.
T6	50	8

ITEM No.	TYPE
LS1	3 1/2" PM 8

ITEM No.	DESCRIPTION
F1	2A Quick-acting

ITEM No.	PART NAME
K1	Relay
S2	Switch
S3	Switch
S4	Switch
S5	Switch
L11	Printed Circuit
L12	Printed Circuit
L13	Printed Circuit
L14	Printed Circuit
L15	Printed Circuit
L16	Printed Circuit
L17	Printed Circuit
L18	Printed Circuit
Y1	Crystal
Y2	Crystal
Y3	Crystal
Y4	Crystal
Y5	Crystal
Y6	Crystal
Y7	Crystal
Y8	Crystal
Y9	Crystal
Y10	Crystal
Y11	Crystal
Y12	Crystal
Y13	Crystal
Y14	Crystal
Z1	Filter

ITEM
Case Bottom
Chassis M130
Clamp Handset
Case Front
Switch Detent

	ITE
Handset Assembly	
DC Power Cable	

General-use Hook-up
Power Cord, 2-Wire
Shielded Antenna L
Coiled Microphone
Ignition Noise Supp
Bonding Strap

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

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C45	.01	510-3216-330	CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C46	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C47	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C48	180 5% N750		*	DTX-181			10TCW-T18
C49	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C51	1 5%					CN0510	10TCC-V10
C52	33 5% N150		*			*	10TCP-Q33
C53	33 5% N150		*			*	10TCP-Q33
C54	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C56	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C57	.01	CCD-103	DC-103	GP10000	MAG5011	2SS-S10	
C58	1	510-3216-330	*			CN0510	10TCC-V10
C59	33 5% N150		*			*	10TCP-Q33
C60	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C61	33 5% N750			DTN-33	N33	CN7433	10TCU-Q33
C62	.001 5%		DM19-122J	CPR-1200J	CD19FD122J03	SX212	424ME1201J501
C64	22 5% NPO			DTZ-22	NP022	CN0422	10TCC-Q22
C65	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C66	12 5% N750					CN7412	10TCU-Q12
C67	.001 1KV		CCD-102	DD-102		GP210	10TS-D10
C68	43 5% N150		*			*	
C69	.0047	CCD-472				10TS-D47	
C70	.047	CCD-503	DC-503	MGP05	MAG5015	TGL-S50	
C71	.047 50V	CCD-503	DC-503	MGP05	MAG5015	TGL-S50	
C72	.001 5%	DM19-102J	CPR-1000J	CD19FD102J03	SX210	424ME1001J501	
C73	27 5% NPO				CN0427	10TCC-Q27	
C74	.001	CCD-102	DD-102		GP210	10TS-D10	
C75	100 5% N150	*			*	10TCP-T10	
C76	300 5%	DM15-301J	CPR-300J	CD15FD301J03	SX330	424ME3000J501	
C77	330- 5%	DM15-331J	CPR-330J	CD15FD331J03	SX333	424ME3300J501	
C78	.0047 1.4KV DC						
C82	.22	1MDF-4-224			DPMS2P22	EWFA022	1PB-P22
C90	470	DM15-471J	CPR-470J	CD15FD471J03	SX347	424ME4700J501	
C91	.001	CCD-102	DD-102		GP210	10TS-D10	
C121	.01	CCD-103	DC-103	GP10000	MAG5011	2SS-S10	

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

RESISTORS (Power and Special)

COILS (RF-IF)

TRANSFORMER (Driver)

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

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T6	50	8	592-1013-006				

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFG. PART No.	QUAM PART No.	
LS1	3 1/2" PM 8 ohms	589-1003-002		

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	534-0003-024	534-1004-005	AGC2	HDJ	312002	150145	FG2-2

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	567-0020-001	Xmit/Rec
S2	Switch	583-2009-211	Channel Selector
S3	Switch	583-1002-001	Handset
S4	Switch	583-3001-003	Handset/Speaker
S5	Switch	583-3001-003	PA/CB
L11	Printed Circuit Unit	544-0003-011	RF Amp Silicon
L12	Printed Circuit Unit	544-0002-011	1st Mixer Silicon
L13	Printed Circuit Unit	544-0003-043	1st IF Silicon
L14	Printed Circuit Unit	544-0002-014	2nd IF Silicon
L15	Printed Circuit Unit	544-0002-015	Noise Limiter Germanium
L16	Printed Circuit Unit	544-0002-026	Audio Silicon
L17	Printed Circuit Unit	035-0181-015	Main Board
L18	Printed Circuit Unit	035-0199-001	Crystal & Switch
Y1	Crystal	519-0023-104	5.7350MHz Fundamental HC-18/U
Y2	Crystal	519-0023-103	5.7250MHz Fundamental HC-18/U
Y3	Crystal	519-0023-102	5.7150MHz Fundamental HC-18/U
Y4	Crystal	519-0023-101	5.6950MHz Fundamental HC-18/U
Y5	Crystal	519-0023-108	6.1904MHz Fundamental HC-18/U
Y6	Crystal	519-0023-107	6.1804MHz Fundamental HC-18/U
Y7	Crystal	519-0023-106	6.1704MHz Fundamental HC-18/U
Y8	Crystal	519-0023-105	6.1504MHz Fundamental HC-18/U
Y9	Crystal	519-0024-001	32.700MHz Third Overtone HC-18/U
Y10	Crystal	519-0024-002	32.750MHz Third Overtone HC-18/U
Y11	Crystal	519-0024-003	32.800MHz Third Overtone HC-18/U
Y12	Crystal	519-0024-004	32.850MHz Third Overtone HC-18/U
Y13	Crystal	519-0024-005	32.900MHz Third Overtone HC-18/U
Y14	Crystal	519-0024-006	32.950MHz Third Overtone HC-18/U
Z1	Filter	532-1004-001	Mechanical 455kHz (Pair)

ITEM	PART No.	ITEM	PART No.
Case Bottom	032-0359-002	Detent Plate	018-1009-001
Chassis M130	017-1792-001	Channel Indicator Dial	032-0154-002
Clamp Handset	017-1796-002	Knob, Squelch	547-0005-001
Case Front	032-0358-002	Knob, Volume	547-0005-001
Switch Detent	563-9004-012	Knob, Channel Selector	547-0008-005

ITEM	MFGR. PART No.	REMARKS
Handset Assembly	023-3267-001	(Complete)
DC Power Cable	023-2780-001	(Complete)

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
	8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type)
	8237 Low-loss (RG-8/U)
	8240 (Solid) Miniature (RG-58/U)
	8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)