

PHOTOFACT[®] with CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES AND REGULATIONS PART 95, SUBPARTS 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 13-862B

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

T3,T4,T5,T6,T8,T18	GC ELECTRONICS #5000,#8290
All Others	#9440
C1,C5	#8290

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 14-volt DC input.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01 uF to base of TR8, low side to ground.	455KHz, 1000Hz, @ 30% modulation.	Any	T3,T4, T5	Keep generator output set for .5V output at speaker. Adjust for maximum.
High side thru .01 uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, Output 1 uV	13	T6,T18, T1,T2	Set squelch maximum counter-clockwise. Adjust for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 14-volt DC input.
Adjust volume control to obtain a suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
"S" METER High side thru .01 uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 50 uV	13	R45	Adjust for "S" 9 on panel meter.

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

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MIDLAND MODEL 13-862B

TRANSMITTER

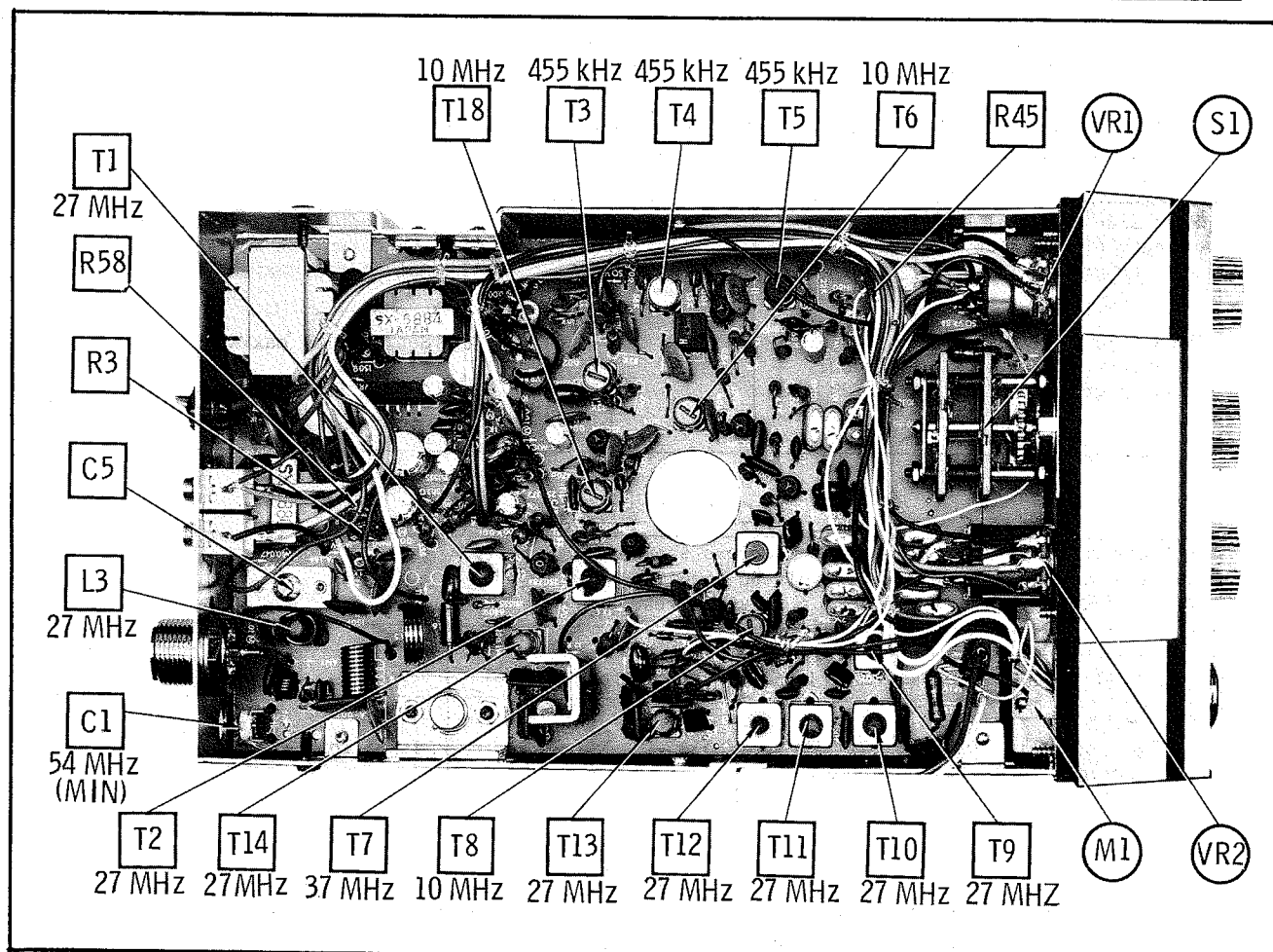
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

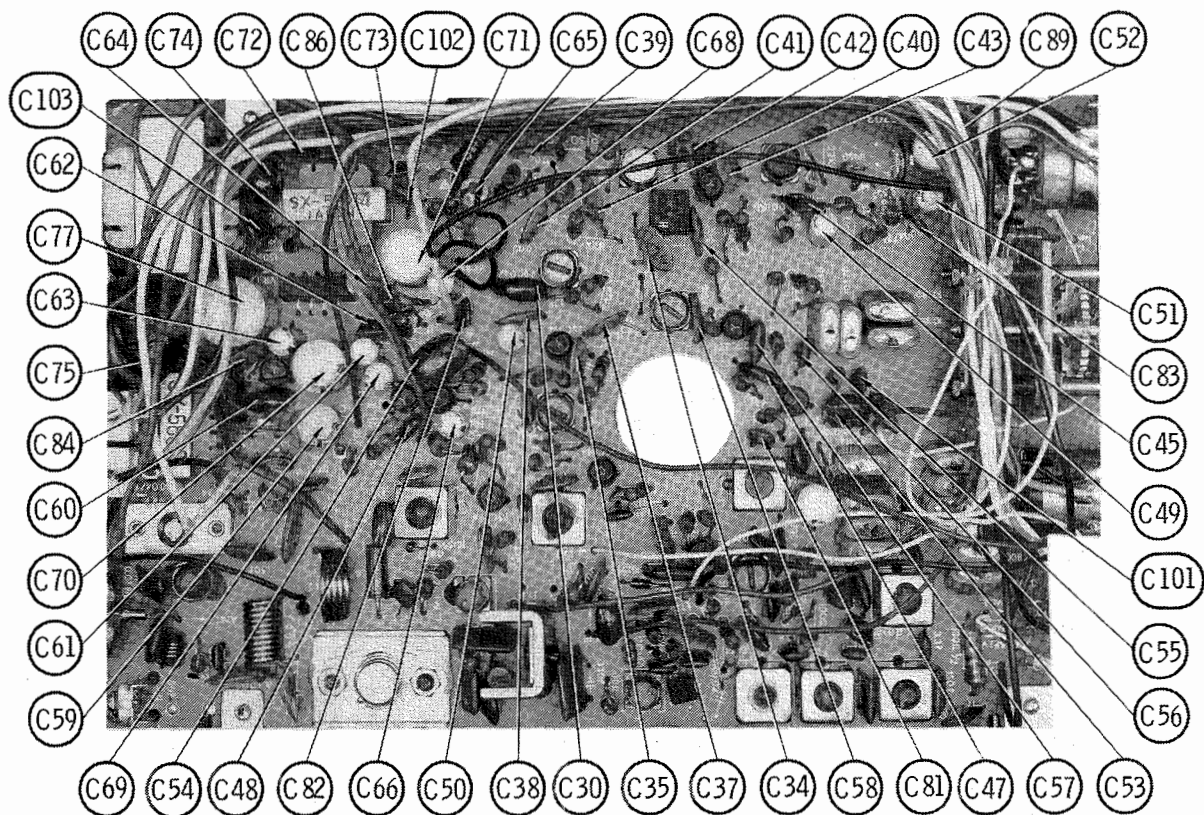
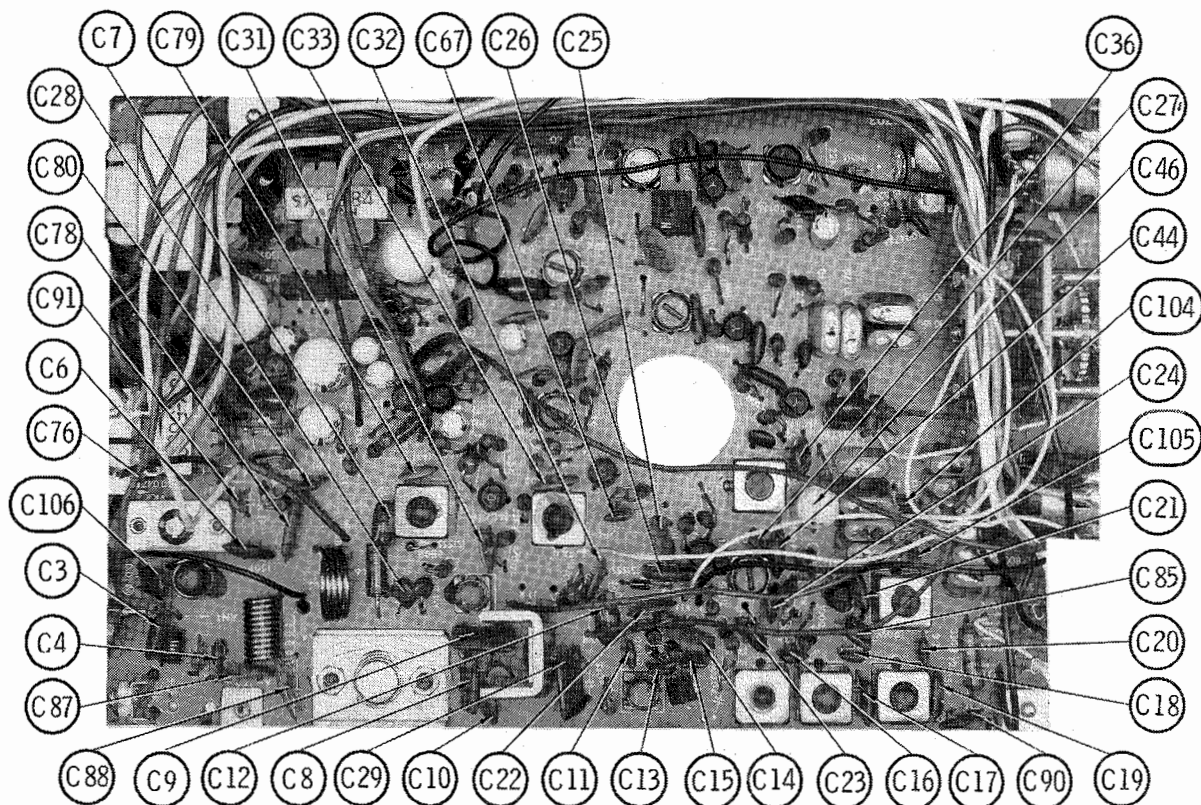
INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T8,T9, T10,T11, T12,T13	Channel selector to Key transmitter. Adjust for maximum.
OUTPUT POWER RF Wattmeter	T14	Key transmitter. Adjust for 3 watts output.
TVI TRAP TV (Ch. 2)	C1	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Connect 0-2A DC milliammeter between L6 and C7.	C5	Adjust for 5 watts (maximum).

TRANSMITTER ADJUSTMENTS

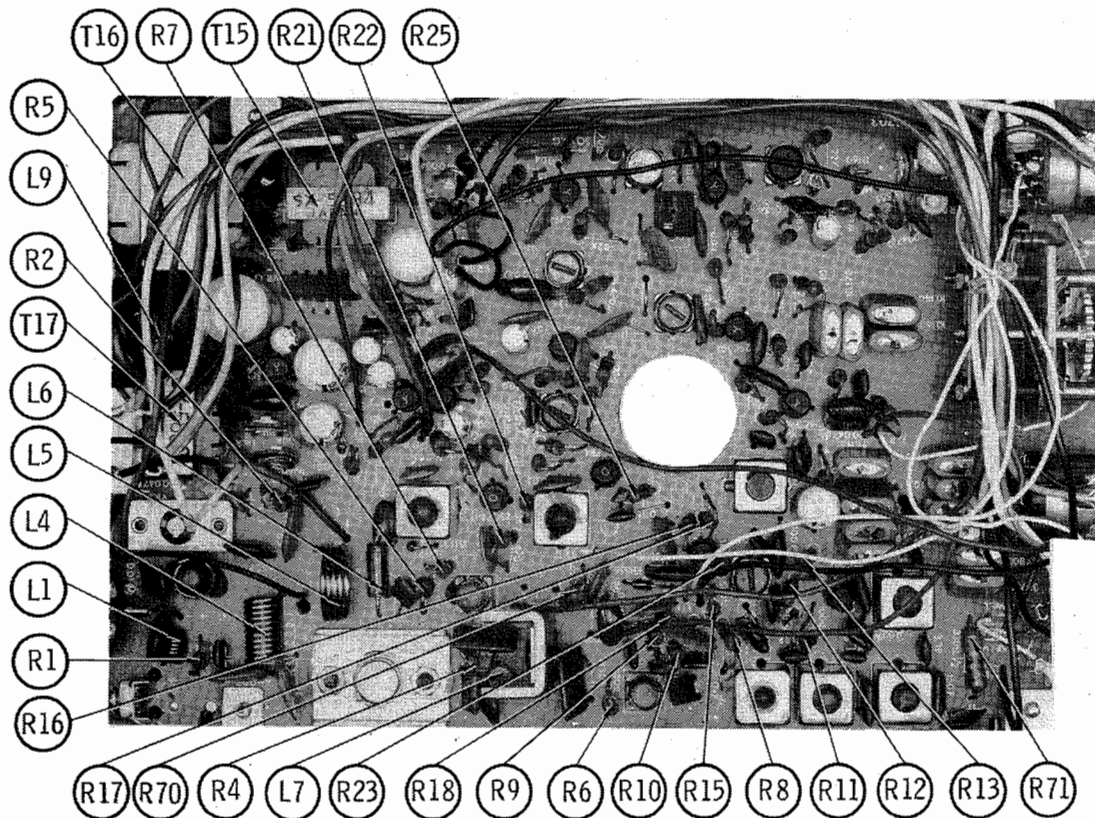
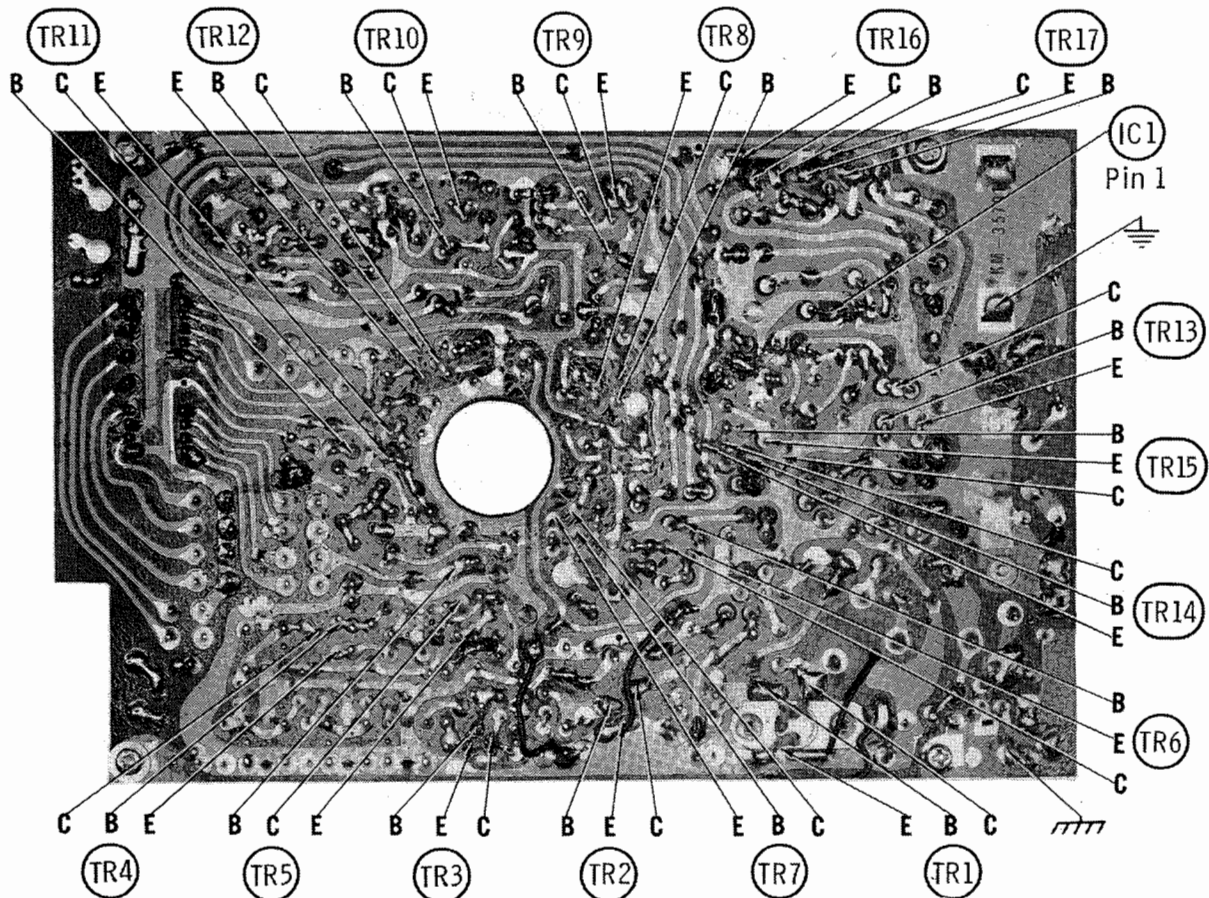
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

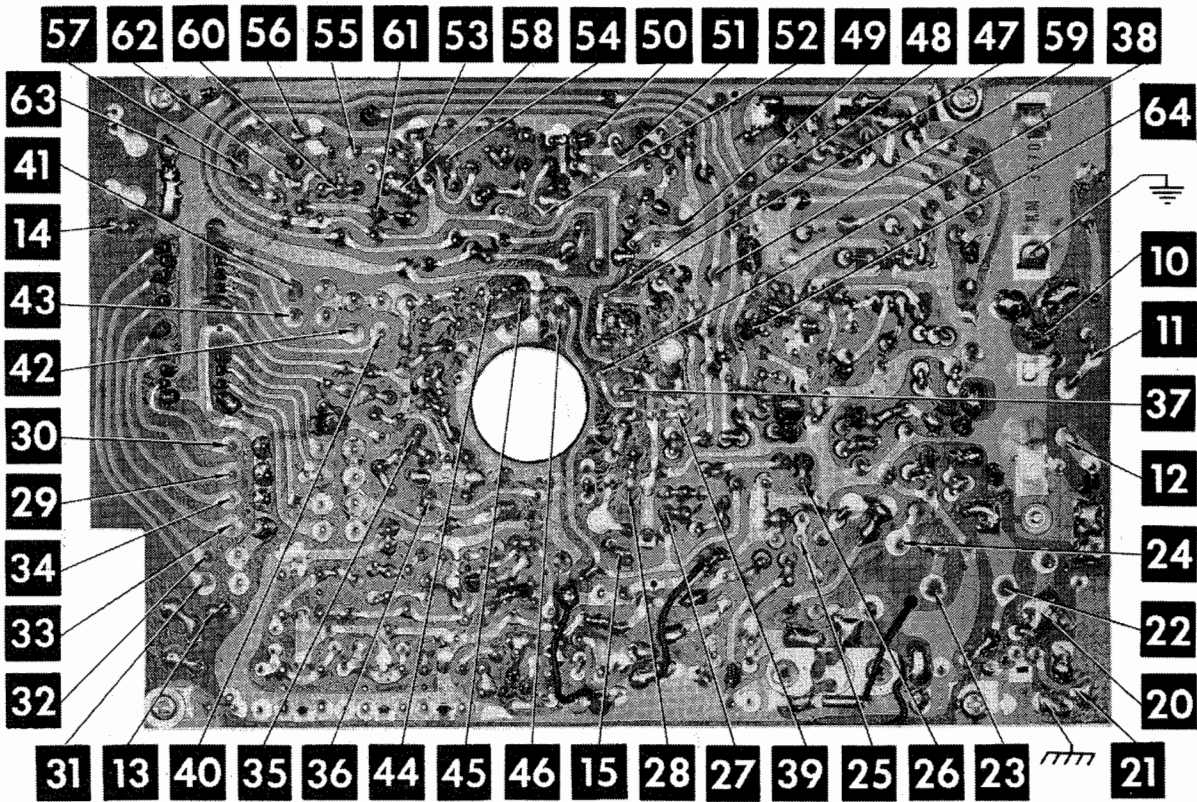
INDICATOR	ADJUST	REMARKS
AMC Modulation Meter connected to antenna jack.	R58	Inject a 1000Hz 2 mV audio signal at mic input. Key transmitter. Adjust for 100% modulation maximum.
RF PANEL METER RF Wattmeter	R3	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.



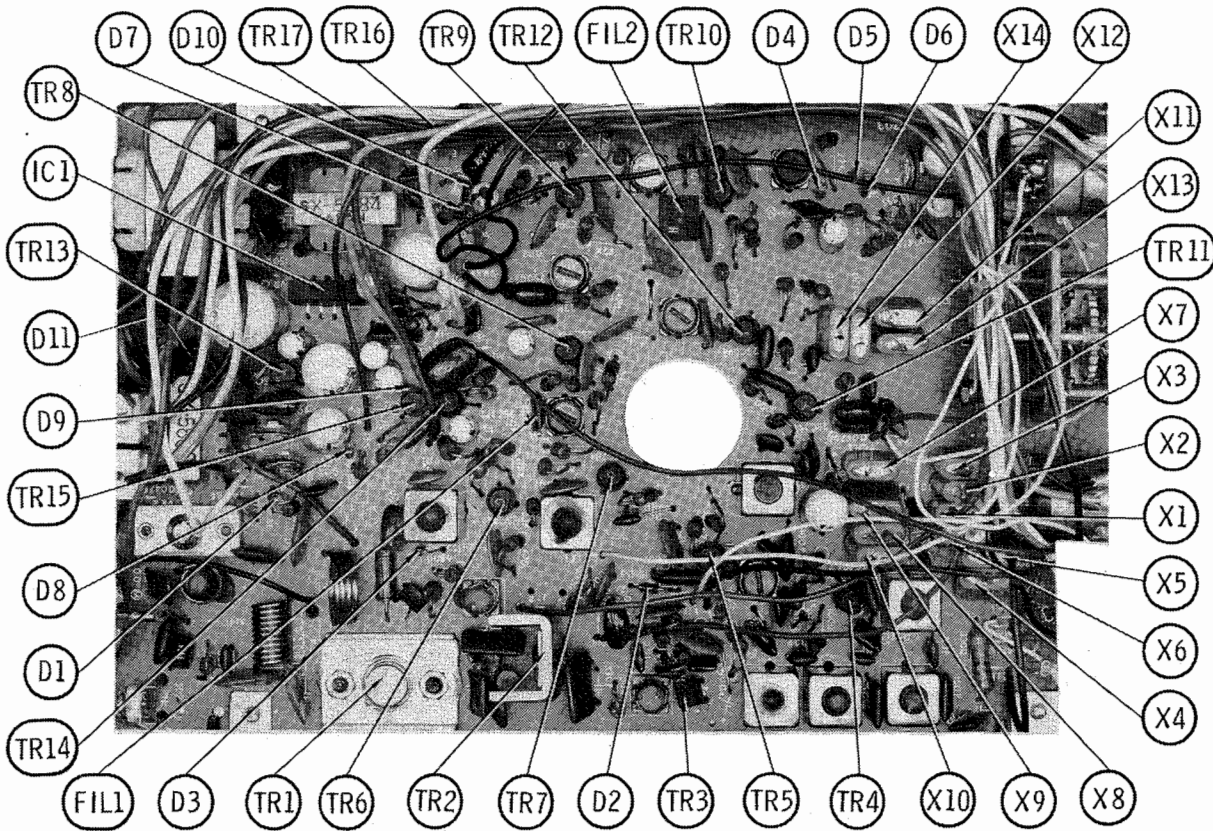


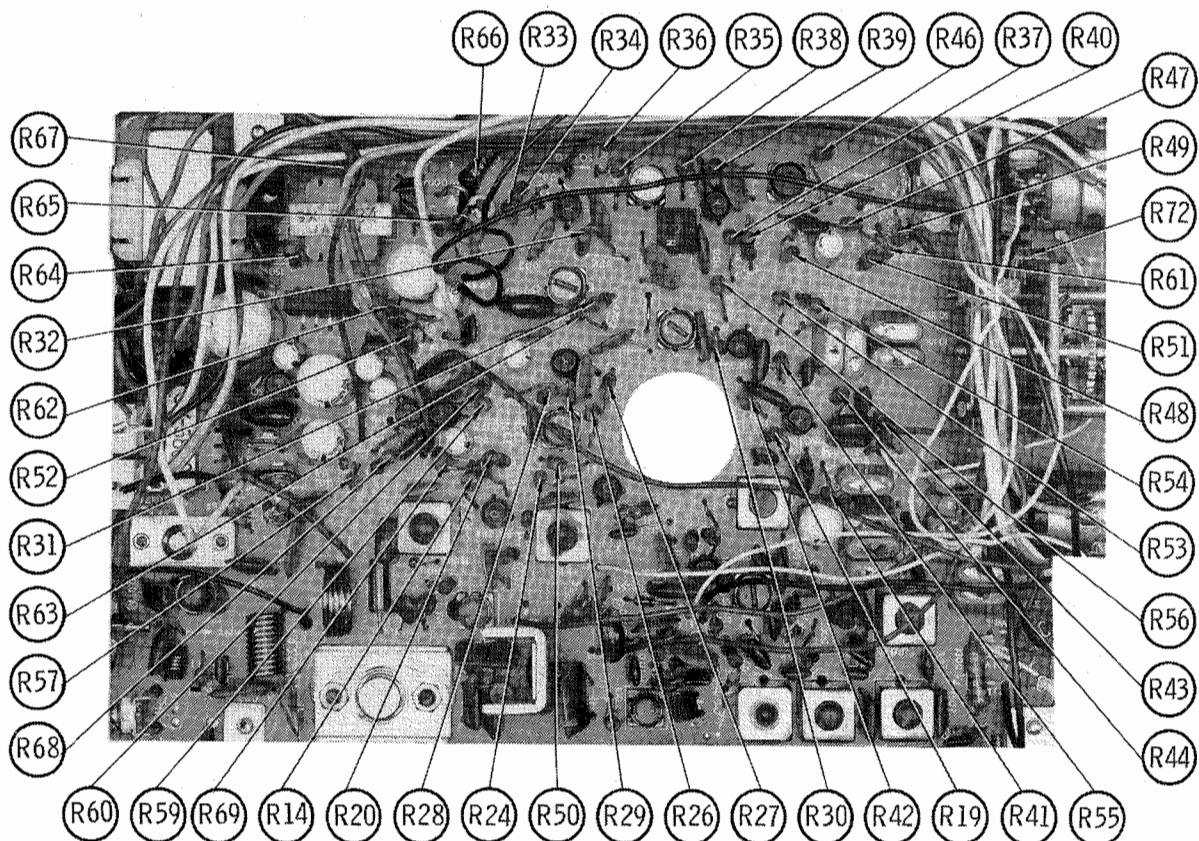
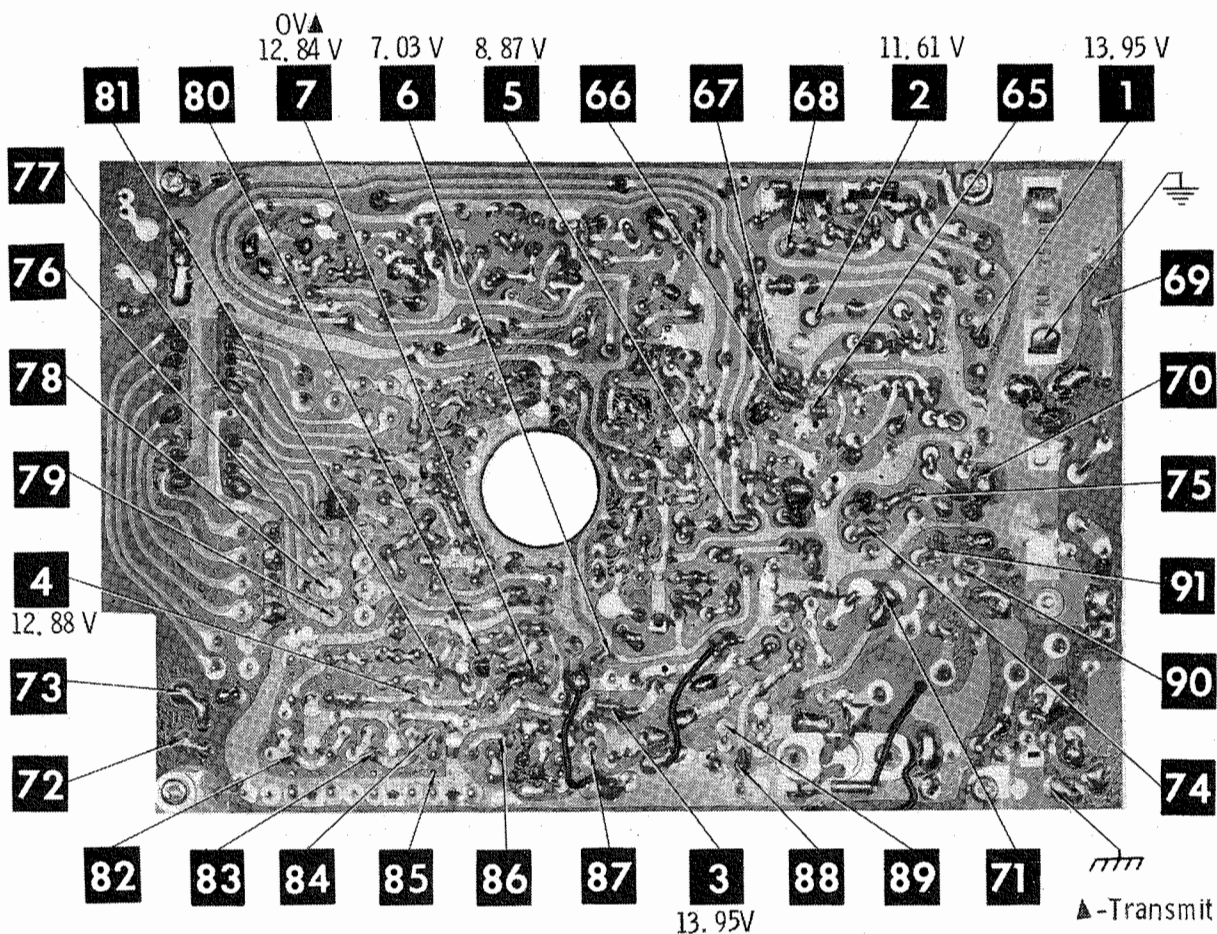
MIDLAND MODEL 13-862B





MIDLAND MODEL 13-862B





PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

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.
D1	1N60/09-306229	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D2	1S1555/09-306154	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D3	1S1555/09-306154	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D4	1N60/09-306229	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D5	1N60/09-306229	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D6	1S1555/09-306154	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D7	WZ-090/09-306332 9.1V Zener	GEZD-9.1	Z-1210	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D8	1S1555/09-306154	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D9	1S1555/09-306154	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D10	SR1K/09-306160	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D11	SR1K/09-306160	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
IC1	LD3001/09-308065							ECG 1016
TR1	2SC1239 (3) 2SC756-2-3/ 09-302166 (1) (2)			PTC158		SK3049 SK3049		ECG 237 ECG 224
TR2	2SC1018 (4) 2SC775/09-309062 (1) (5)	GE-45	TR-25	PTC110 PTC143	HEPS3020 HEPS3001	SK3054 SK3047	RT114	ECG 210 ECG 128
TR3	2SC1166 2SC1166(Y)/ 09-309063 (1)	GE-18 GE-18	TR-63 TR-63	PTC143 PTC143	HEP713 HEP713	SK3024 SK3024	RT110 RT110	ECG 154 ECG 154
TR4	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR5	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR6	2SC784(O)/ 09-309065	GE-11	TR-70	PTC132	HEP56	SK3018	RT108	ECG 107
TR7	2SC784(O)/ 09-309065	GE-11	TR-70	PTC132	HEP56	SK3018	RT108	ECG 107
TR8	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR9	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR10	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR11	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR12	2SC394(Y)/ 09-302207	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
TR13	2SC372(Y)/ 09-309064	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
TR14	2SC372(Y)/ 09-309064	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
TR15	2SC372(Y)/ 09-309064	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
TR16	2SC325(E)/ 09-303022 (6)	GE-28	TR-55	PTC110	HEP245	SK3054	RT154	ECG 152
TR17	2SC325(E)/ 09-303022 (6)	GE-28	TR-55	PTC110	HEP245	SK3054	RT154	ECG 152

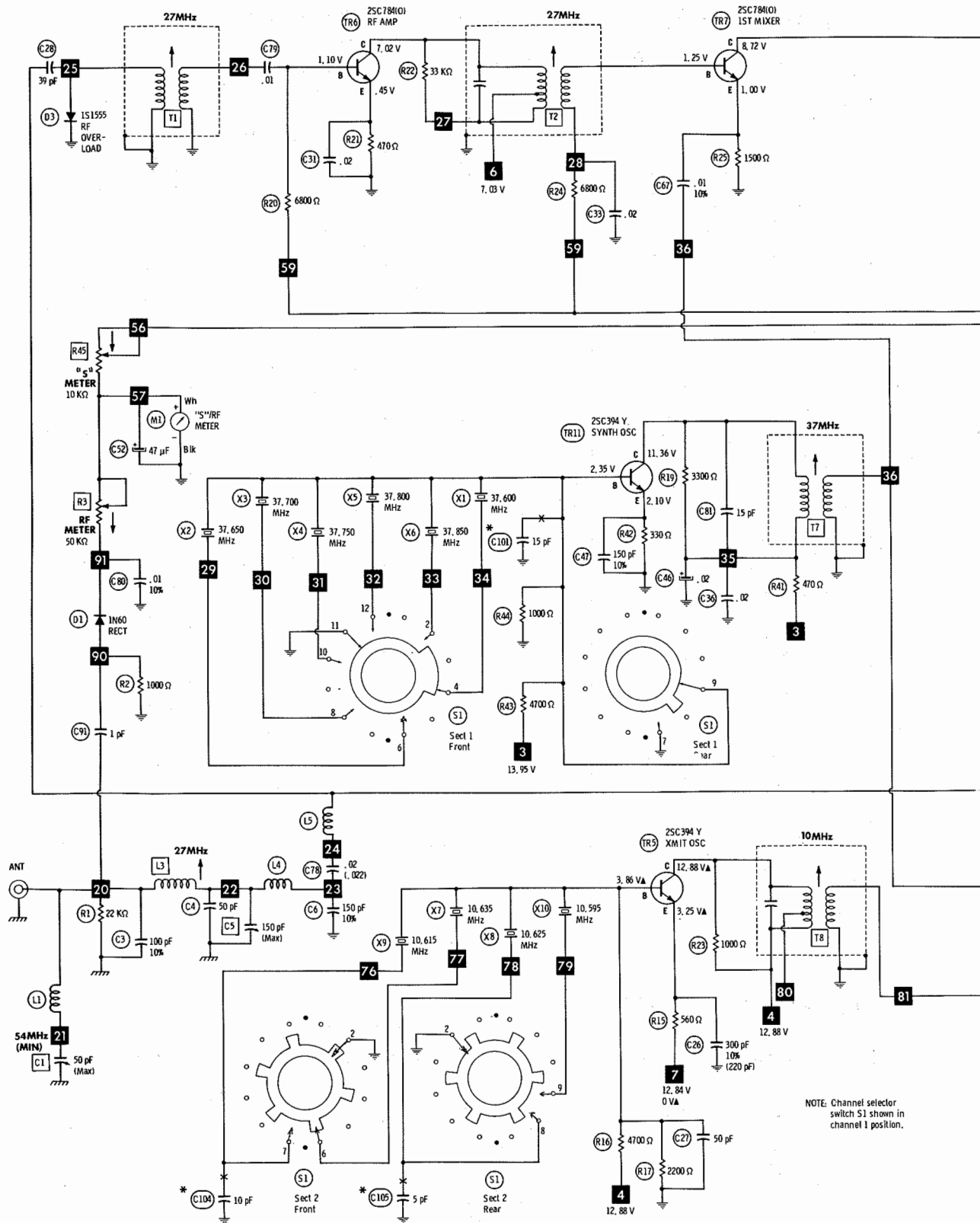
- (1) Used in some versions.
(2) Rating 10 Watts @ 4 Amps.
(3) Rating 12 Watts @ 4 Amps.
(4) Rating 4 Watts @ 1 Amp.
(5) Rating 800MW @ 1 Amp.
(6) Rating 10 Watts @ 1.5 Amp.

MIDLAND MODEL 13-8628

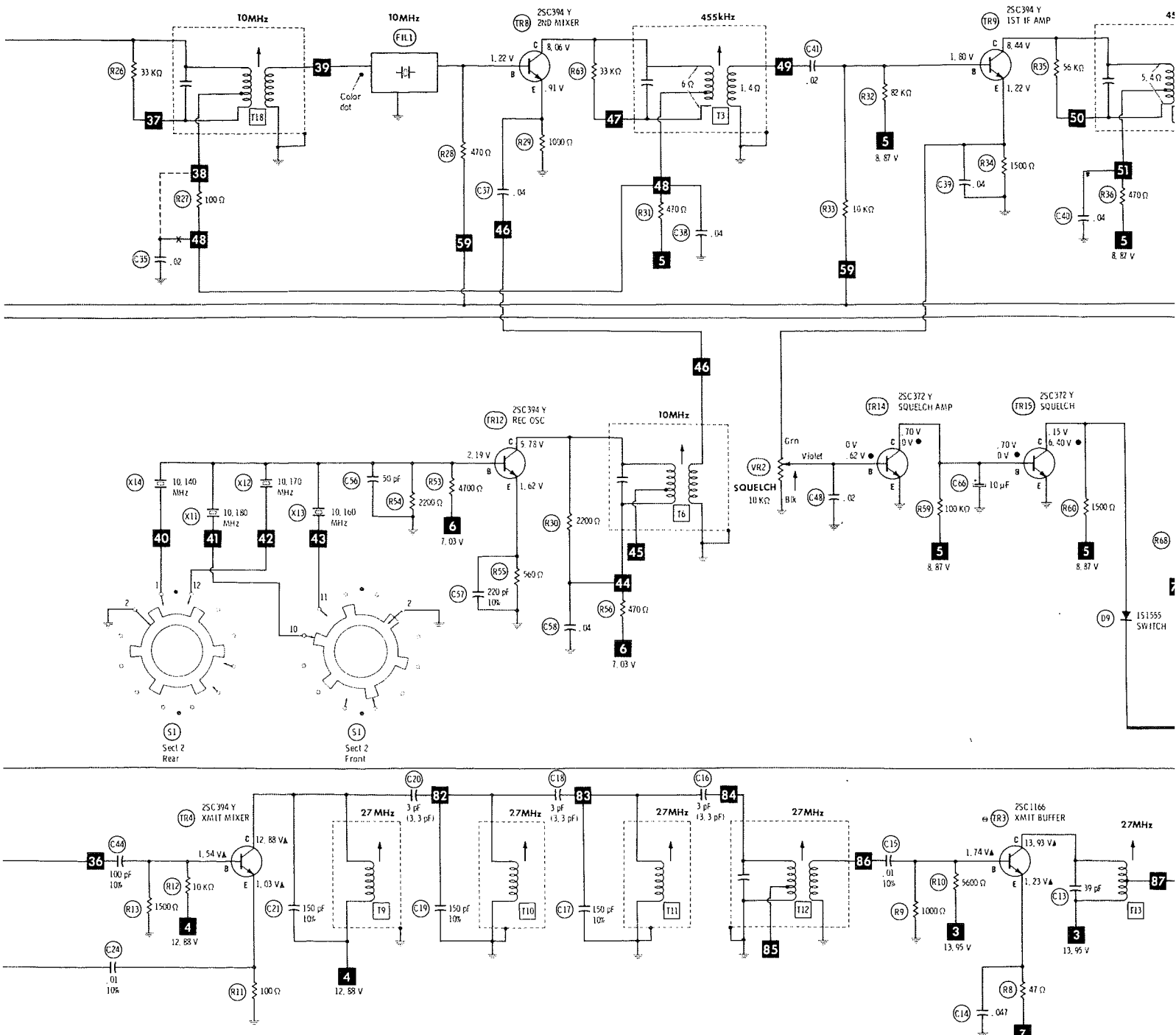
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C46	47 16V	79-337476	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C49	1 50V	79-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C50	3.3 16V	79-337336	RME-A-E-003	EP15-5	PC5-50	VTT3R3A50	EV-1318
C51	1 50V	79-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C52	47 16V	79-337476	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C59	47 16V	79-337376	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C61	1 50V	79-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C63	10 16V	79-337106	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C64	1 50V	79-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C65	10 16V	79-337106	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C66	10 16V	79-337106	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C68	10 16V	79-337106	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C69	10 16V	79-337106	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C70	100 16V	79-337107	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C71	220 16V	79-337227	RME-J-E-250	EP15-250	PC250-25	MTV250DE15	EV-1245
C77	470 16V	79-337477	RME-L-E-500	EP15-500	PC500-16	MTV500DN15	EV-1250

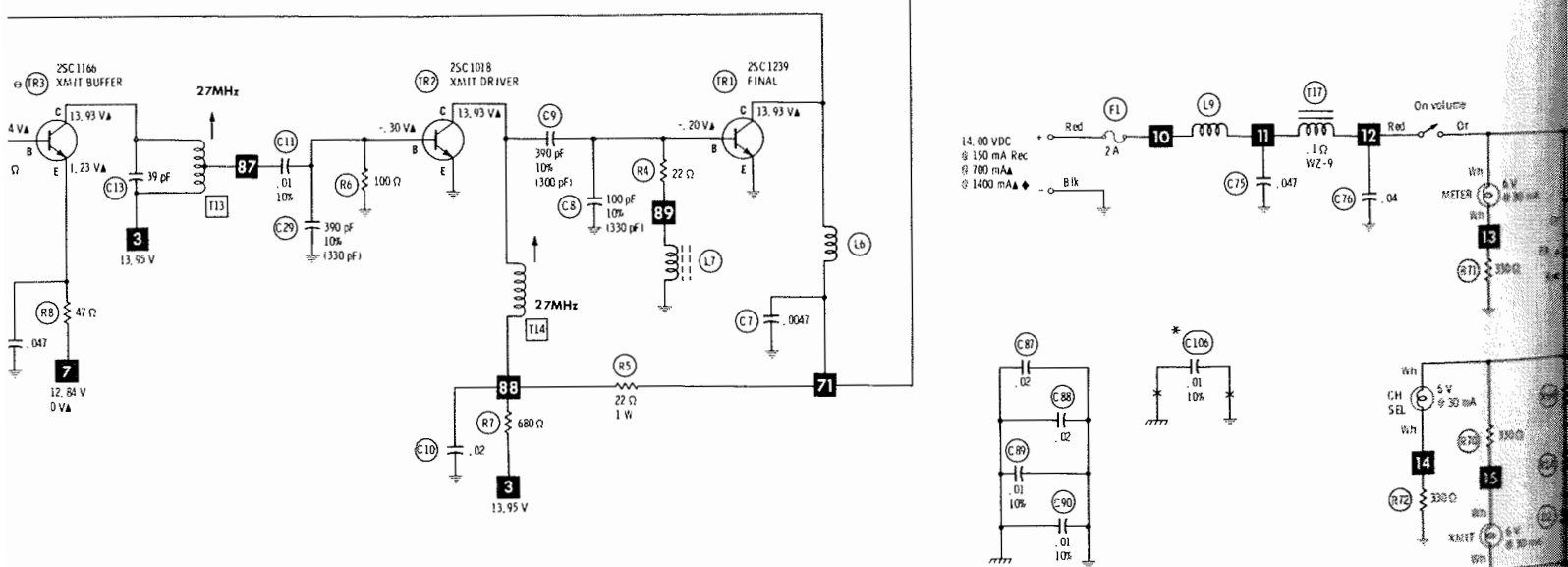
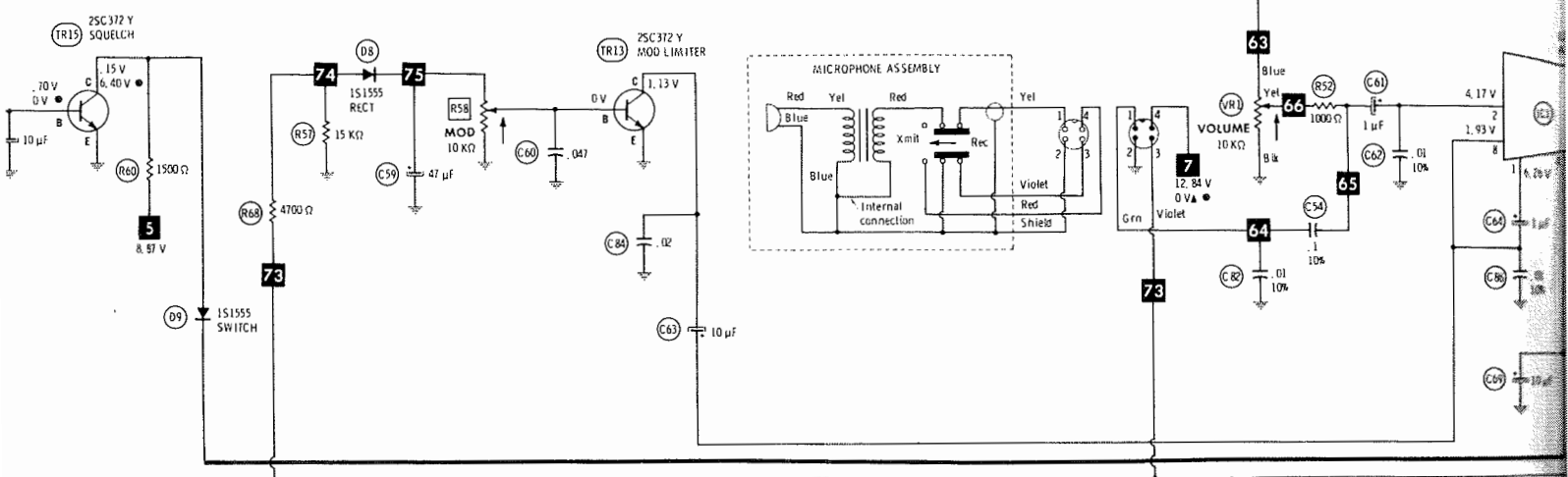
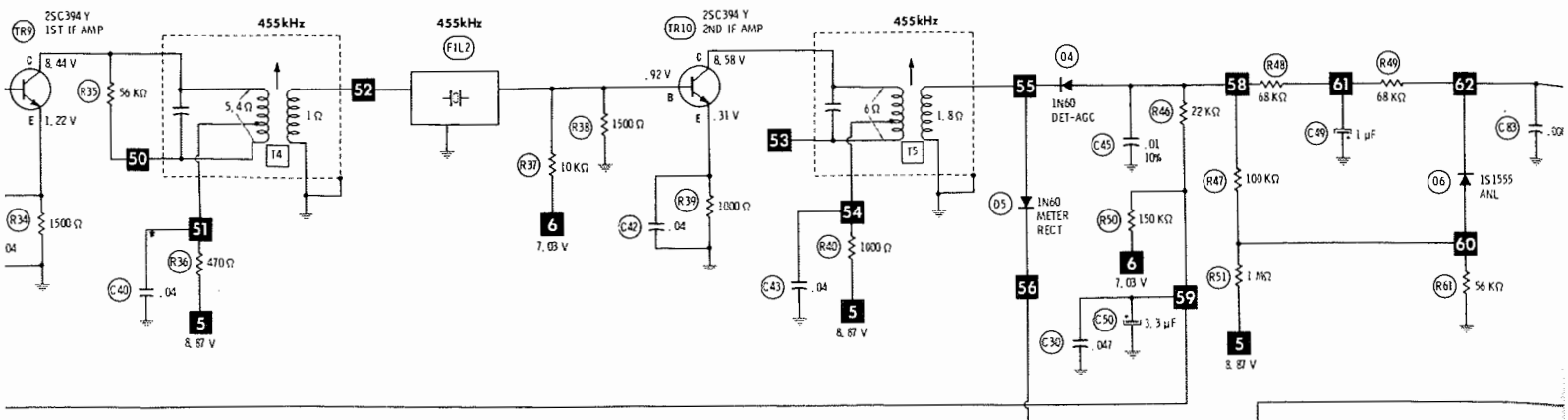
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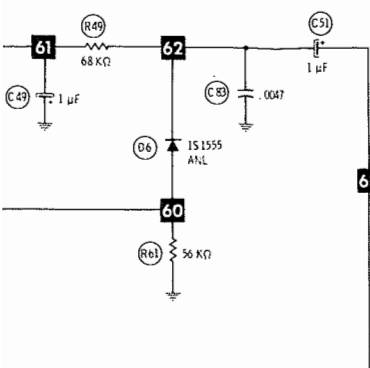


A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE**
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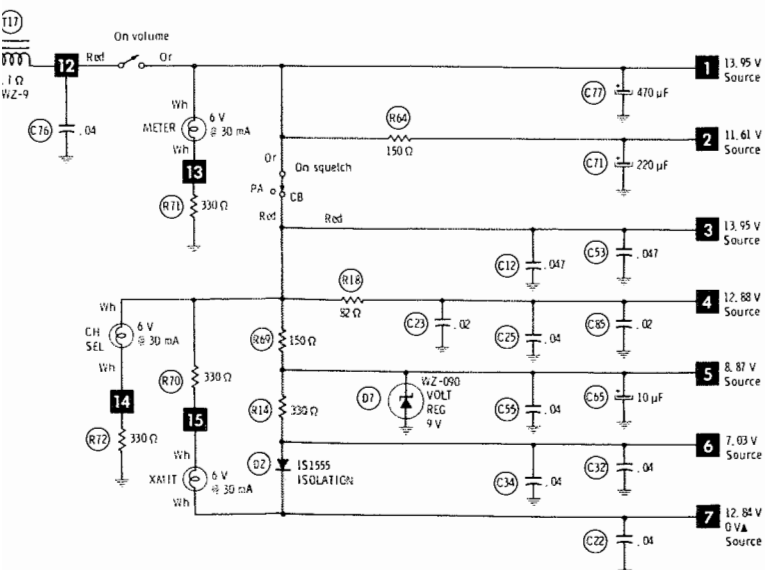
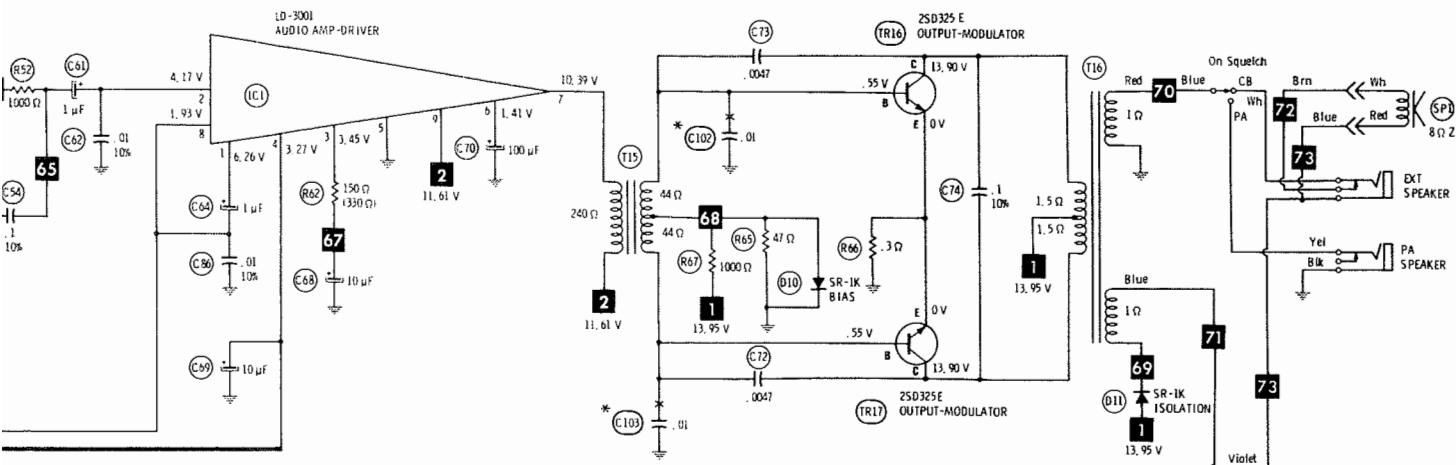
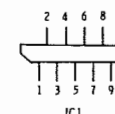
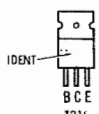
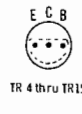
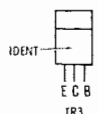
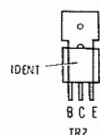


Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X7, X11	7	X2, X9, X13	13	X4, X7, X11	19	X5, X9, X13
2	X1, X8, X12	8	X2, X10, X14	14	X4, X8, X12	20	X5, X10, X14
3	X1, X9, X13	9	X3, X7, X11	15	X4, X9, X13	21	X6, X7, X11
4	X1, X10, X14	10	X3, X8, X12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





Terminal Guides



- ◆ 100% modulation.
- Squelch control fully clockwise.
- ▲ Transmit.
- Indicates chassis.
- ⊥ Indicates ground. (Voltage reference unless otherwise noted).
- Indicates connection used in some versions.
- * Indicates connection not used in some versions.
- Omitted in some versions.
- ⊙ See parts list.
- ✱ Value varies; replace with original value.
- RF-IF coil resistance less than one ohm not given.
- Measurements taken with switching as shown unless otherwise noted.
- Values shown in () used in some versions.
- Resistors are 1/2 W, or less, 5% unless otherwise noted.
- Supply voltage maintained at rated value for measurements.
- Voltage measured with VTVM, no signal applied, controls adjusted for normal operation.
- Arrow on control indicates direction of advance.
- Numbers assigned to terminals may not be found on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

PARTS LIST A

(When ordering)

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCOPART No.	CENTRALABPART No.	CORNELL-DUBILIERPART No.	MALLORYPART No.	SPRAGUEPART No.
C1	50	13-123033	DM10-101J	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C3	100 10%		DM10-500J		CD6ED500J03		
C4	50	13-123034	DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C5	150		6DP-1-392	CPR-3900J	DPMS6D39	PVC6239	6PS-D39
C6	150 10%		DM10-910J	CPR-91J	CD10FD910J03	SX491	424MC910J501
C7	.0047 50V		DM15-391J	CPR-390J	CD15FD391J03	SX339	424MC3900J501
C8	100 10%		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C9	390 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C10	.02		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C11	.01 10%		DM10-390J	CPR-39J	CD6ED390J03	SX439	TGL-S50
C12	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C13	39		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C14	.047		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C15	.01 10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C16	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C17	150 10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C18	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C19	150 10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C20	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C21	150 10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C22	.04		CCD-403		DPMS2S2	PVC212	2PS-S20
C23	.02		1MDF-1-203	CPJ-203	DPMS4S1	EWFA1A110	1PB-S10
C24	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C25	.04		CCD-403		GP140	5GA-S40	5GA-S40
C26	300 10%		DM15-301J	CPR-300J	CD15FD301J03	SX330	424ME3000J501
C27	50		DM10-500J		CD6ED500J03		
C28	39		DM10-390J	CPR-39J	CD6ED390J03	SX439	424ME3900J501
C29	390 10%		DM15-391J	CPR-390J	CD15FD391J03	SX339	424ME3900J501
C30	.047 50V		1MDF-2-473		DPMS2S47	EWFA1A147	1PB-S47
C31	.02		CCO-203		GP120	5GA-S20	5GA-S20
C32	.04		CCD-403		GP140	5GA-S40	5GA-S40
C33	.02		CCD-203		GP120	5GA-S20	5GA-S20
C34	.04		CCD-403		GP140	5GA-S40	5GA-S40
C35	.02		CCD-203		GP120	5GA-S20	5GA-S20
C36	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C37	.04		CCD-403		GP140	5GA-S40	5GA-S40
C38	.04		CCD-403		GP140	5GA-S40	5GA-S40
C39	.04		CCD-403		GP140	5GA-S40	5GA-S40
C40	.04		CCD-403		GP140	5GA-S40	5GA-S40
C41	.02		CCD-203		GP120	5GA-S20	5GA-S20
C42	.04		CCD-403		GP140	5GA-S40	5GA-S40
C43	.04		CCD-403		GP140	5GA-S40	5GA-S40
C44	100 10%		DM10-101J	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C45	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C47	150 10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C48	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C53	.047 50V		1MDF-2-473		DPMS2S47	EWFA1A147	1PB-S47
C54	.1		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C55	.04		CCD-403		GP140	5GA-S40	5GA-S40
C56	50		DM10-500J		CD6ED500J03		
C57	220		DM10-221J	CPR-220J	CD10FD221J03	SX322	424ME2200J501
C58	.04		CCD-403		GP140	5GA-S40	5GA-S40
C60	.047		1MDF-2-473		DPMS2S47	EWFA1A147	1PB-S47
C62	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C67	.01 50V 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C72	.0047		1MDF-1-472	CPJ-472	DPMS6D47	EWFA1A247	1PB-D47
C73	.0047		1MDF-1-472	CPJ-472	DPMS6D47	EWFA1A247	1PB-D47
C74	.1 10%		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C75	.047		1MDF-2-473		DPMS2S47	EWFA1A147	1PB-S47
C76	.04		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C78	.02 10%		CCD-203	DC-203	MAG5012	2SS-S20	2SS-S20
C79	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C80	.01 50V 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C81	15		DM10-150J		CD6CD150J03		
C82	.01 50V 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C83	.0047		1MDF-1-472	CPJ-472	DPMS6D47	EWFA1A247	1PB-D47
C84	.02		CCD-203	DC-203	MAG5012	2SS-S20	2SS-S20
C85	.02		1MDF-1-203	CPJ-203	PVC212	2PS-S20	2PS-S20
C86	.01 50V 10%		1MDF-1-103	CPJ-103	EWFA1A110	1PB-S10	1PB-S10
C87	.02		CCD-203	DC-203	MAG5012	2SS-S20	2SS-S20
C88	.02		CCD-203	DC-203	MAG5012	2SS-S20	2SS-S20
C89	.01 10%		1MDF-1-103	CPJ-103	EWFA1A110	1PB-S10	1PB-S10
C90	.01 10%		1MDF-1-103	CPJ-103	EWFA1A110	1PB-S10	1PB-S10
C91	1				CN0510	10TCC-V10	
C101	15		DM10-150J		CD6CD150J03		
C102	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C103	.01 50V 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C104	10		DM10-100J		CD6CD100D03		
C105	5		DM10-050D		CD6CD050D03		
C106	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10

CONTROLS

ITEM No.	FUNCTION
R3	"RF" Meter
R45	"S" Meter
C58	Modulation
VR1	Volume/Pot
VR2	Squelch/P.

(1) Enlarge mount
(2) Cut off one

COILS (RF-II)

ITEM No.	FUNCTION
L1	TVI Trap (1)
L3	Antenna (2)
L4	Pi Network
L5	Final Tank
L6	RF Choke
L7	RF Choke (1)
L9	Line Choke
T1	Rec. Antenn
T2	RF Amp (27)
T3	Input IF (1)
T4	Interstage
T5	Output IF
T6	Rec. Osc.
T7	Synth. Osc.
T8	Xmit. Osc.
T9	Xmit. Mixe
T10	Smit. Mixe
T11	Xmit. Mixe
T12	Xmit. Mixe
T13	Xmit. Buff
T14	Xmit Drive
T18	1st Mixer

FILTER CHO

ITEM No.	CURRENT (Measured)
T17	1400mA

TRANSFOR

ITEM No.	TURN
T15	1.6

TRANSFOR

ITEM No.	IMPEDANCE
T16	18

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.
R3	"RF" Meter	50K	13-164110	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
R45	"S" Meter	10K	13-164109	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
C5B	Modulation	10K	13-164111	TSV-10K or T-10K	C-103	MTC14L1	X201R103B
VR1	Volume/Power Switch	10K	13-1600B8	F2-10K (1), SSK100, KR-1	A47-10K-Z (1), KSS-3, SWE-12 or [NP-10K-Z(1), UP-C-400, NWE-12]	RU14A, SL36, SL1500 US41 or [UA14A(1), SK1000, US41] or U18(1), US26	BU1(1), CF61, SS1, GC
VR2	Squelch/PA Switch	10K	13-166053				

(1) Enlarge mounting hole.

(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.	
L1	TVI Trap (54MHz)	13-176409			
L3	Antenna (27MHz)	13-176410			
L4	P1 Network (27MHz)	13-176411			
L5	Final Tank (27MHz)	13-176412			
L6	RF Choke	13-178176			
L7	RF Choke (2.2uH)	13-176419	2R2	74F226AP	
L9	Line Choke	13-178177			
T1	Rec. Antenna (27MHz)	13-176418			
T2	RF Amp (27MHz)		1849A		
T3	Input IF (455KHz)	13-090298			
T4	Interstage IF (455KHz)	13-090299			
T5	Output IF (455KHz)	13-090300			
T6	Rec. Osc. (10MHz)	13-170197			
T7	Synth. Osc. (37MHz)	13-170196			
T8	Xmit. Osc. (10 MHz)	13-170197			
T9	Xmit. Mixer (27MHz)		027-031		
T10	Smit. Mixer (27MHz)				
T11	Xmit. Mixer (27MHz)				
T12	Xmit. Mixer (27MHz)	13-176414	YSG-L26-3-7		
T13	Xmit. Buffer (27MHz)				
T14	Xmit Driver (27MHz)	13-176413			
T18	1st Mixer (10MHz)	13-090297			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T17	1400mA	.1	1.5 mH	13-178131 (SX5880)				

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T15	1.6	1		13-096142 (SX5884)				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T16	18	8	13-096143				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM 8 ohms	13-060083	27A05Z8	

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
F2	2 Amp			AGC2	HDJ	312.002	150145	FG2-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FIL1	Ceramic Filter	13-179043	(10MHz)
FIL2	Ceramic Filter	13-179044	(455KHz)
M1	Meter	13-200042	"S"/RF
S1	Switch	13-180073	Channel Selector
X1	Crystal	13-128149	37.600MHz
X2	Crystal	13-128150	37.650MHz
X3	Crystal	13-128151	37.700MHz
X4	Crystal	13-128152	37.750MHz
X5	Crystal	13-128153	37.800MHz
X6	Crystal	13-128154	37.850MHz
X7	Crystal	13-128159	10.635MHz
X8	Crystal	13-128160	10.625MHz
X9	Crystal	13-128161	10.615MHz
X10	Crystal	13-128162	10.595MHz
X11	Crystal	13-128155	10.180MHz
X12	Crystal	13-128156	10.170MHz
X13	Crystal	13-128157	10.160MHz
X14	Crystal	13-128158	10.140MHz
	Printed Circuit Board	13-070105	

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

ITEM	PART No.	ITEM	PART No.
Case, Top	13-010187	Bracket, Mounting	13-158255
Case, Bottom	13-010188	Knob, Control	13-110137
Case, Front	13-010232		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone w/plug	13-038057	
DC power Cord w/fuse holder	13-034066	

WIRING DATA

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