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PHOTOFACT® Folder

with CIRCUITRACE®

VOCALINE MODEL  
COMMAIRE PT-27



VOCALINE MODEL  
COMMAIRE PT-27

TRADE NAME	Vocaline Model Commaire PT-27
MANUFACTURER	Vocaline Company of America, Inc., Old Saybrook, Conn.
TYPE SET	AC-Battery Operated 2 Tube - 18 Transistor Portable Citizens Band Transmitter-Receiver
POWER SUPPLY	110 - 120 Volts AC, 60 Cycles (or) 15 volts DC (Internal or External Supply)
RATING	10MA @15 Volts DC (Receive, No Signal) 550MA @15 Volts DC (Transmit, No Modulation)
TUNING RANGE	BROADCAST: 530 - 1600KC CITIZENS BAND: Any 4 of Channels 2 thru 23. Receiver may be tuned manually to any channel.

NOTICE

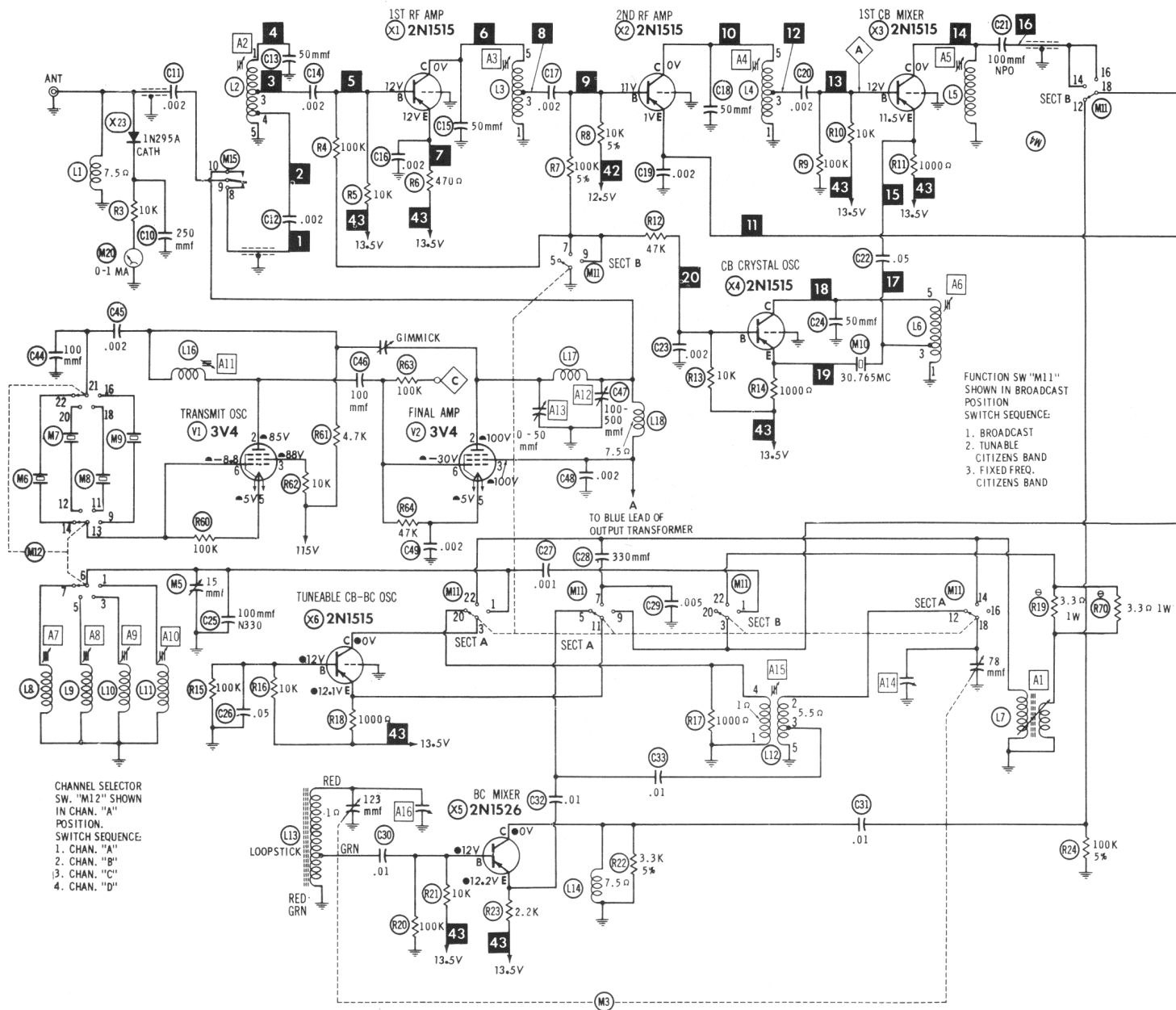
ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES & REGULATIONS PART 19, SUBPART D, SECTION 19.71.)

**HOWARD W. SAMS & CO., INC.** Indianapolis 6, Indiana



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of LZ531

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FUNCTION SW "M11" SHOWN IN BROADCAST POSITION SWITCH SEQUENCE:  
 1. BROADCAST  
 2. TUNABLE CITIZENS BAND  
 3. FIXED FREQ. CITIZENS BAND

CHANNEL SELECTOR SW. "M12" SHOWN IN CHAN. "A" POSITION. SWITCH SEQUENCE:  
 1. CHAN. "A"  
 2. CHAN. "B"  
 3. CHAN. "C"  
 4. CHAN. "D"

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
V1	3V4	14 Ω	†4800 Ω	†10K	NC	20 Ω	100K	25 Ω
V2	3V4	0 Ω	†950 Ω	†950 Ω	NC	85 Ω	47K	14 Ω

ALL MEASUREMENTS TAKEN IN TRANSMIT POSITION.  
 † MEASURED FROM OUTPUT OF X21 AND X22. NC NO CONNECTION

ALL VOLTAGES MEASURED IN CB TUNABLE POSITION UNLESS OTHERWISE SPECIFIED NO SIGNAL APPLIED 14 VOLT BATTERY CONDITION

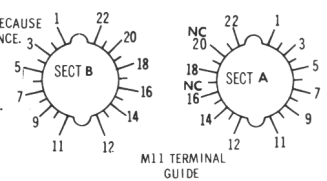
- MEASURED IN AM POSITION
- ▲ MEASURED IN TRANSMIT
- MEASURED WITH SQUELCH ON



TERMINAL VIEW M15 - BOTTOM VIEW

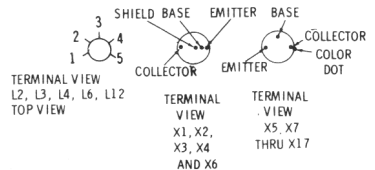
RESISTANCE MEASUREMENTS NOT GIVEN FOR X1 THRU X18 BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.  
 ● SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

- DC voltage measurements taken with vacuum tube voltmeter.
- Socket connections or transistor terminals are shown as bottom views.
- Measured values are from socket pin or terminal to common ground.
- Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.



M11 TERMINAL GUIDE

M12 TERMINAL GUIDE



TERMINAL VIEW M15 - TOP VIEW

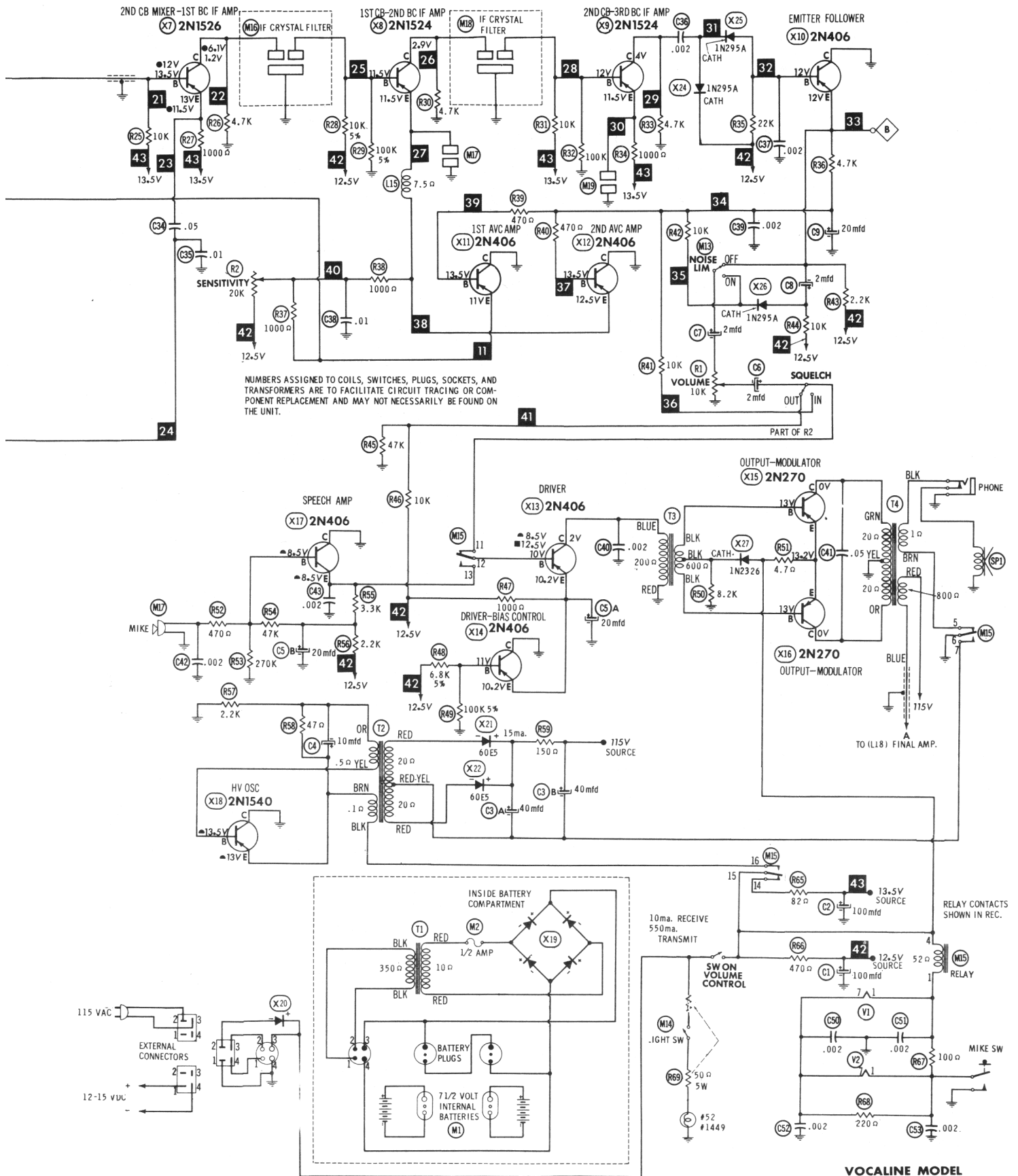
TERMINAL VIEW X1, X2, X3, X4 AND X6

TERMINAL VIEW X5, X7 THRU X17

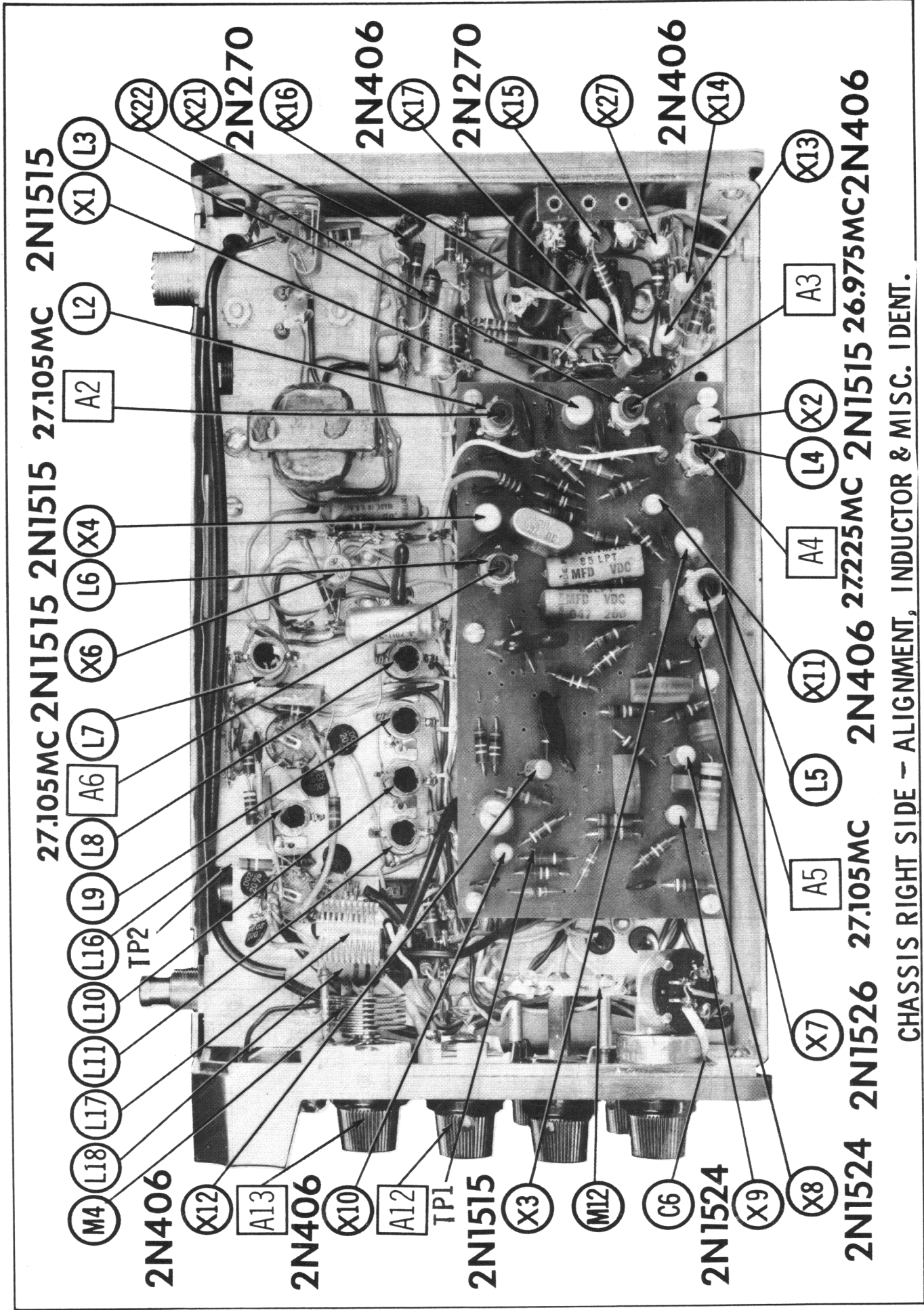


TERMINAL VIEW X18

A PHOTOFACIT STANDARD NOTATION SCHEMATIC with CIRCUITRACE



VOCALINE MODEL COMMAIRE PT-27



27.105MC 2N1515 2N1515 27.105MC 2N1515

M4 L18 L17 L11 L10 L16 L9 L8 A6 L7 X6 L6 X4 A2 L2 X1 L3

TP2

2N406

X12

A13

2N406

X10

A12

TP1

2N1515

X3

M12

C6

2N1524

X9

X8

X7

A5

L5

X11

A4

L4

X2

A3

X13

27.105MC 2N1515 2N1515 27.105MC 2N1515

M4 L18 L17 L11 L10 L16 L9 L8 A6 L7 X6 L6 X4 A2 L2 X1 L3

TP2

2N406

X12

A13

2N406

X10

A12

TP1

2N1515

X3

M12

C6

2N1524

X9

X8

X7

A5

L5

X11

A4

L4

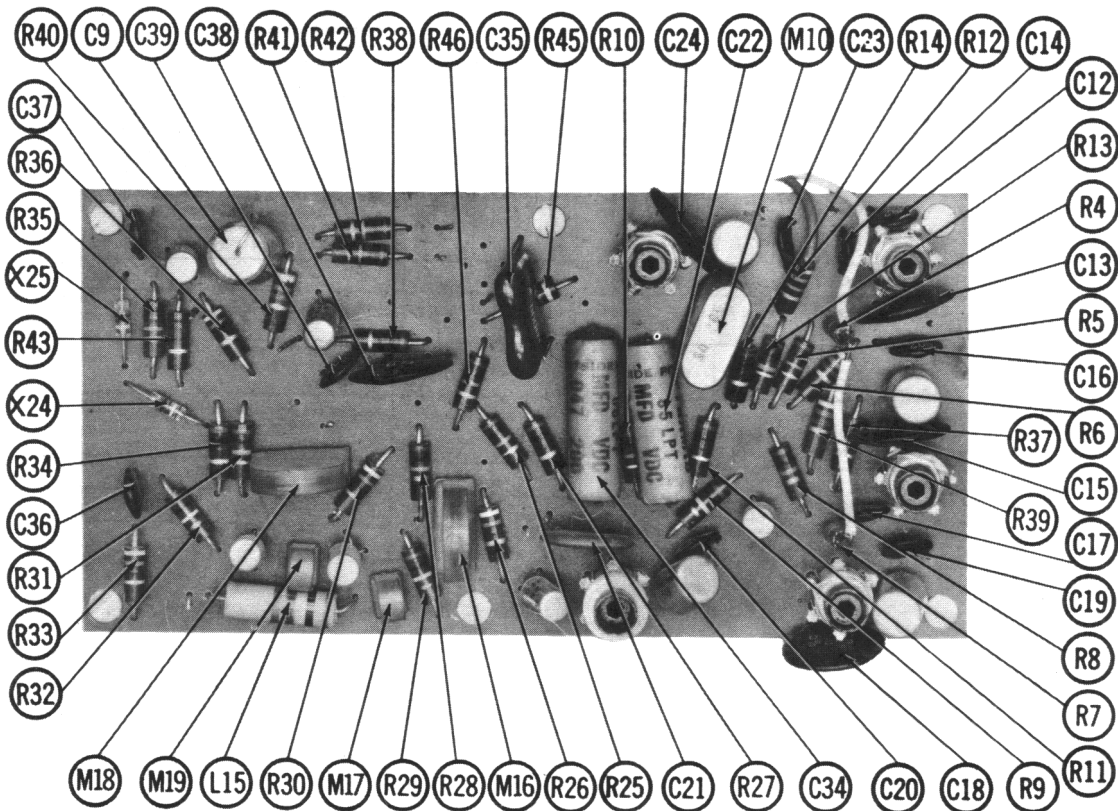
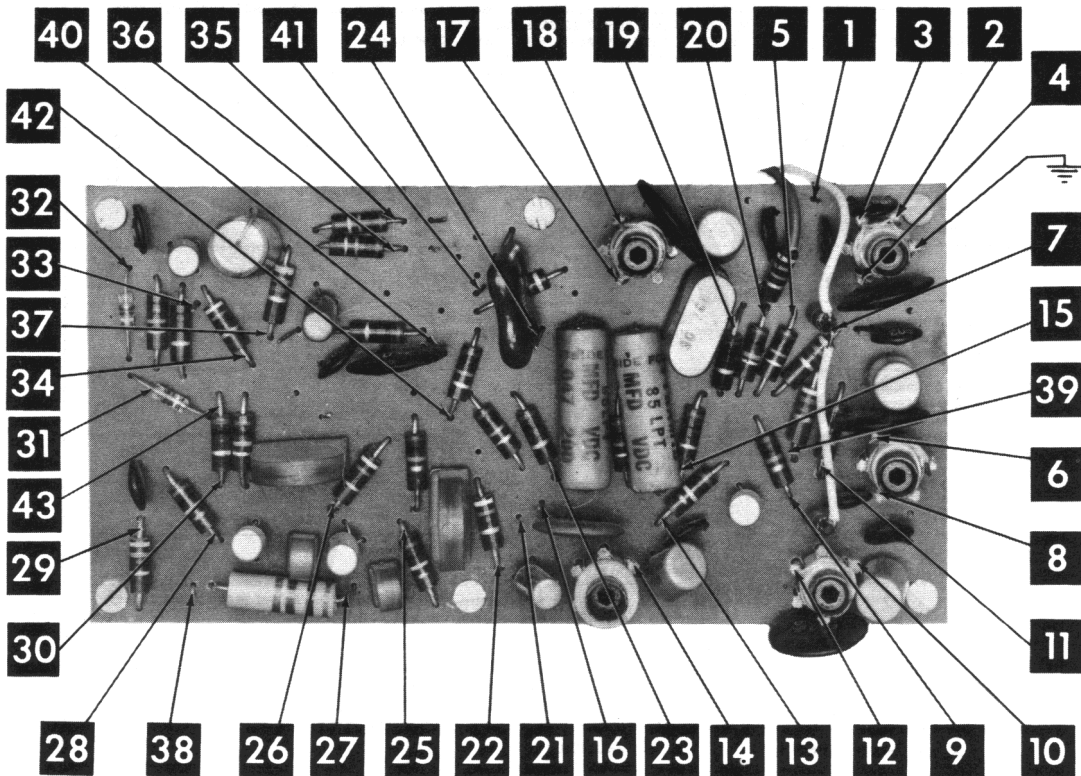
X2

A3

X13

2N1524 2N1526 27.105MC 2N406 27.225MC 2N1515 26.975MC 2N406

CHASSIS RIGHT SIDE - ALIGNMENT, INDUCTOR & MISC. IDENT.



# ALIGNMENT INSTRUCTIONS

## ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

**Suggested Alignment Tools:**

A1, A7, A8, A9, A10, A14. . . . . GENERAL CEMENT #5000, 5003, 5066, 8271, 8272, 8276, 8277, 8290, 8609, 8722, 9150, 9298  
 WALSCO #2515, 2516, 2518, 2519, 2525, 2541  
 A2 thru A6. . . . . GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440  
 WALSCO #2526, 2543, 2544, 2545  
 A11, A13. . . . . GENERAL CEMENT #5000, 5003, 5066, 8276, 8290, 9087, 9089  
 WALSCO #2512, 2525, 2528  
 A12. . . . . GENERAL CEMENT #5097, 8727  
 WALSCO #2515

**CB RECEIVER ALIGNMENT**

Use only enough generator output to provide a usable indication.  
 Squelch Off.  
 Connect DC VTVM between point  $\text{\textcircled{B}}$  and 12.5V source.

	SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
1.	Tune to channel freq. High side thru .05mfd to point $\text{\textcircled{A}}$ . Low side to chassis.	12 (27.105MC)	A1	Place selector switch in CB tunable position. Adjust for maximum deflection.
2.	Tune to channel freq. High side to antenna terminal. Low side to chassis.	12 (27.105MC)	A2, A3, A4, A5, A6	"
3.	"	2 (26.975MC)	A3	"
4.	"	12 (27.105MC)	A2, A5	"
5.	"	22 (27.225MC)	A4	"
6.	"	Channel Desired	A7, A8, A9, A10	Set selector switch to fixed CB. Adjust each for maximum deflection on channel A, B, C, D respectively.

**TRANSMITTER ALIGNMENT**

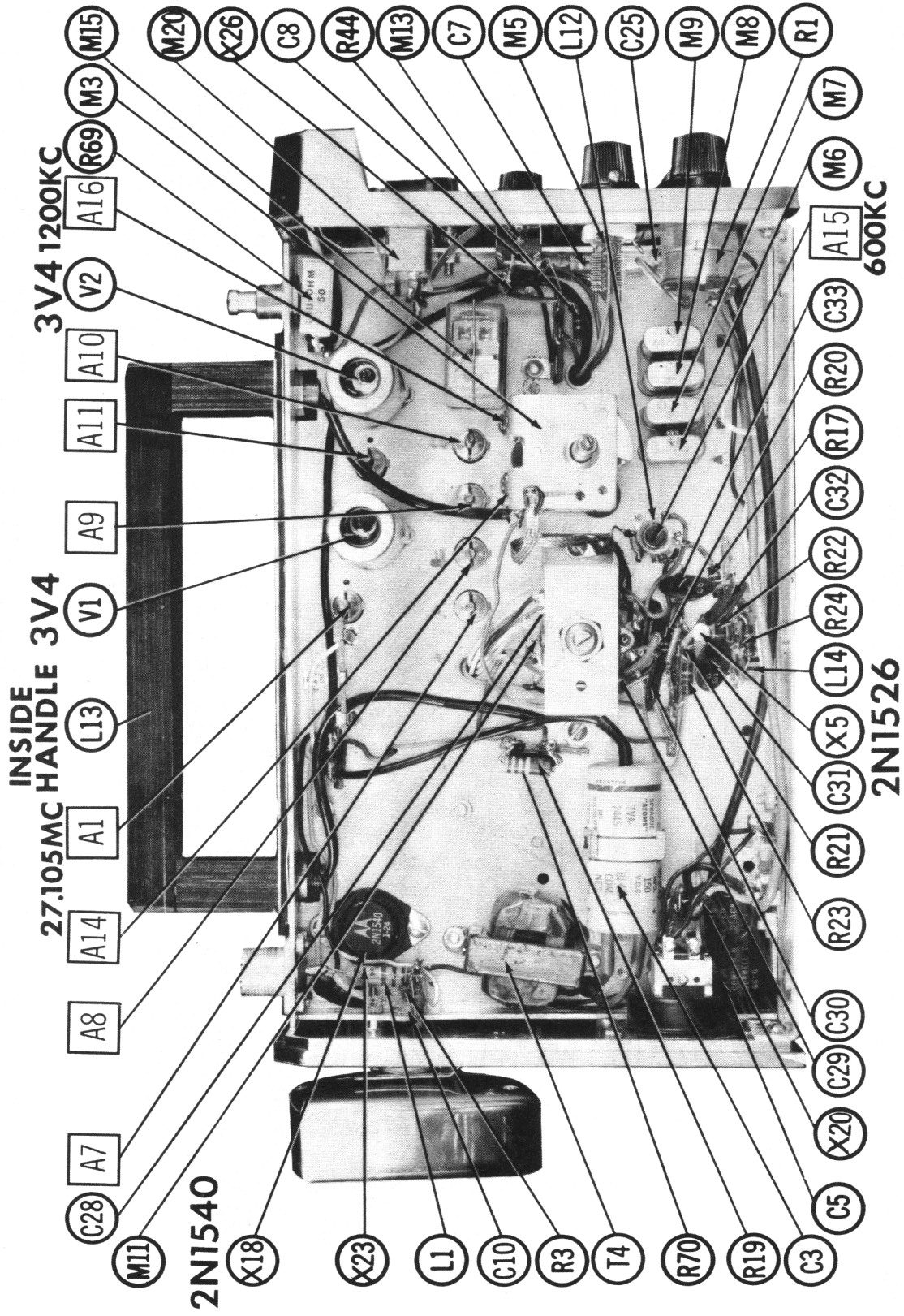
ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES & REGULATIONS PART 19, SUBPART D, SECTION 19.71)

	SPECIAL INSTRUCTIONS	INDICATOR	ADJUST	REMARKS
7.	Connect antenna or suitable load.	DC VTVM between point $\text{\textcircled{C}}$ and ground.	A11	Key transmitter. Adjust A11 clockwise until there is no meter indication. Then slowly adjust A11 CCW until a reading of -25V is obtained. Check reading for all four channels.
8.	"	"	A12, A13	Key transmitter. Adjust A12 for a meter deflection. Then turn A13 for maximum meter indication. Repeat this procedure. SLIGHT retuning may be necessary when the unit is connected to the antenna.
Neutralization must be done when either of the tubes are replaced. Remove plate and screen voltage from V2. Disconnect the twisted wire gimmick at both ends and replace with two 3" pieces of #22 solid insulated wire.				
9.	Connect antenna or suitable load.	DC probe of VTVM thru crystal diode to antenna terminal, common to chassis.	A12, A13	Twist the two wires together starting as close to V2 as possible. Readjust A12 and A13 for MINIMUM. Continue twisting leads and adjusting A12 and A13 for MINIMUM, until the lowest possible reading is obtained. Clip the excess lead lengths and bend the gimmick toward the front panel. Reconnect voltage to V2.

**BC RECEIVER ALIGNMENT**

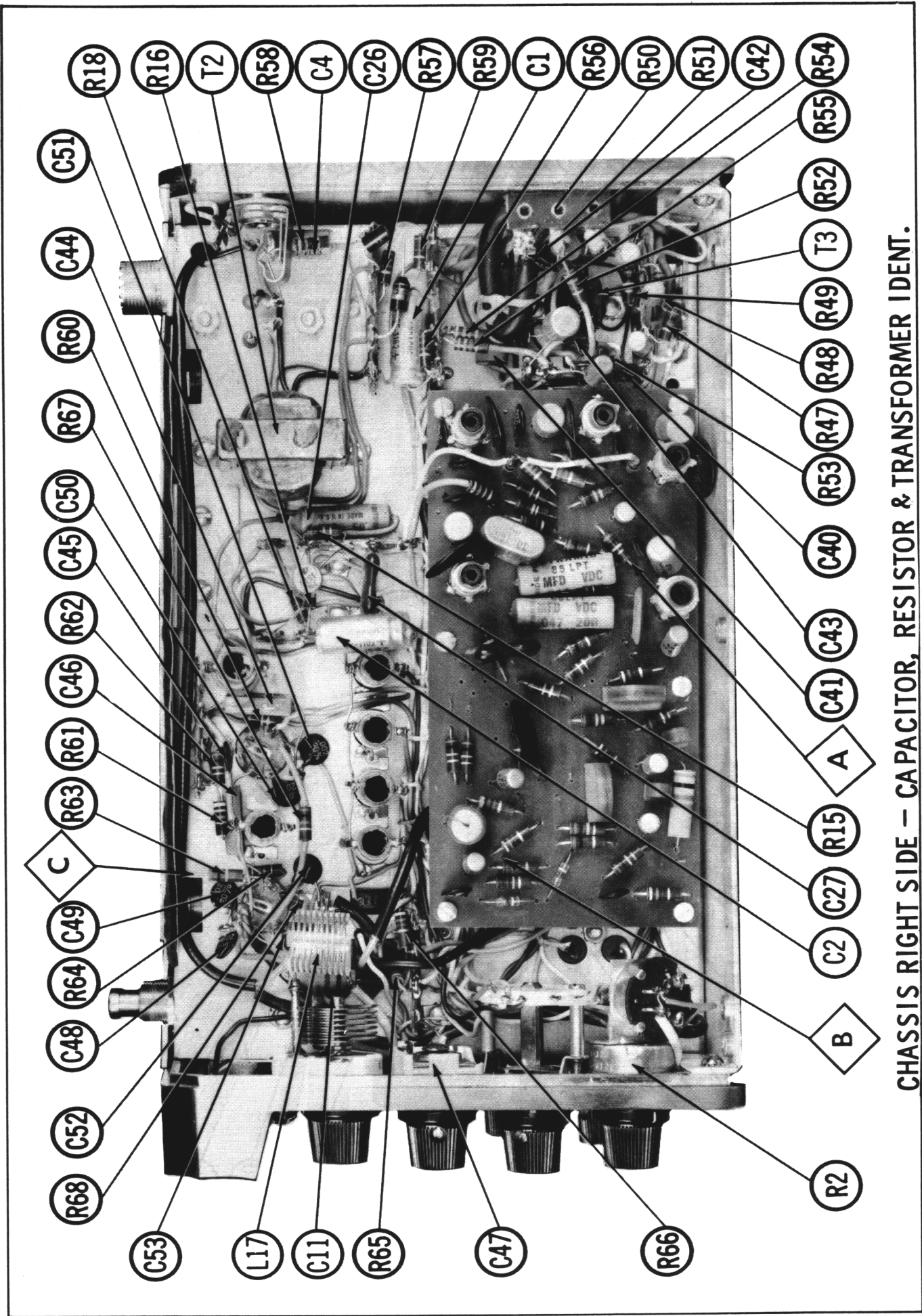
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	535KC (Unmod.)	AM Tuning gang fully closed.	VTVM to point $\text{\textcircled{D}}$ , common to 12.5V.	A14	Adjust for maximum deflection.
11.	"	600KC	600KC	"	A15	"
12.	"	1200KC	1200KC	"	A16	"



CHASSIS - LEFT SIDE





CHASSIS RIGHT SIDE - CAPACITOR, RESISTOR & TRANSFORMER IDENT.

# PARTS LIST AND DESCRIPTIONS

## ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING		REPLACEMENT DATA					NOTES	
	CAP.	VOLT.	VOCALINE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.		SPRAGUE PART No.
C5A	20	25	77-84	PRS2075	BBRD2202	Q72-5	TC286	TDLD-3	TVA-2428
C6	2	15	77-85	PTT62	NLW2-50	MTI-1	TT150X2	MLV2-50	TE-1149
C7	2	15	77-85	PTT62	NLW2-50	MTI-1	TT150X2	MLV2-50	TE-1149
C8	2	15	77-85	PTT62	NLW2-50	MTI-1	TT150X2	MLV2-50	TE-1149
C9	20	25	77-109	PTT81	NLW20-50	MTI-1	TT25X20	MLV25-25	TE-1206

## WIRING DATA

General-use Hook-up Wire .... Use BELDEN No. 8530 (Solid) Available in 12 Colors  
 Shielded Antenna Lead ..... Use BELDEN No. 8224 (Stranded) Available in 12 Colors  
 8237 Low Loss (RG-8/U Type)  
 8240 (Solid) Miniature (RG-58/U)  
 8259 (Stranded) Miniature (RG-58A/U)  
 8497 3 Conductor - 1 Shielded for Press-to-Talk (Neoprene)  
 8498 3 Conductor - 1 Shielded for Press-to-Talk (Vinyl)  
 Ignition Noise Suppression ..... Use BELDEN No. 7300-Series Spark-Plug Sets  
 Bonding Strap ..... Use BELDEN No. 8661 (3/8 In.)

## FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					SPRAGUE PART No.
			AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C10	250		DI-250	DD-251	LI0725	CCD-251	GP325	10TS-T25
C11	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C12	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C13	50 5%		DI-50	DD-500	LI045	CCD-500	GP450	10TS-Q50
C14	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C15	50 5%		DI-50	DD-500	LI045	CCD-500	GP450	10TS-Q50
C16	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C17	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C18	50 5%		DI-50	DD-500	LI045	CCD-500	GP450	10TS-Q50
C19	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C20	100 NPO		NPO-DI100	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C21	.047 200V		P288N-047	DD-503	C10TIC	CCTO-101	CNO-310	10TC-C-110
C22	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C23	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C24	50 5%		DI-50	DD-500	LI045	CCD-500	GP450	10TS-Q50
C25	100 N330		P288N-100	DD-503	CUB285	4DP-3-503	GEM-415	2TM-S50
C26	.001 5%		1469-1000	DD-503	5R5D1	CM-20B-102J	MCJ255	MS-21
C27	330 5%		1469-330	DD-502	22R5T33	CM-20B-331J	MS-333	5HK-D50
C28	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-S10
C29	.001		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C30	.001		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C31	.001		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C32	.001		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C33	.047 200V		P288N-047	DD-502	CUB2847	4DP-3-473	GEM-4147	5HK-S10
C34	.001 5%		1469-10000	DD-502	IDR5S1	CM-35B-103J	MCE475	MS-11
C35	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C36	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C37	.002		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C38	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C39	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C40	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C41	.047 200V		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-4147	5HK-D20
C42	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C43	100 5%		1469-100	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C44	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C45	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C46	100 5%		1469-100	DD-202	22R5T1	CM-20B-101J	MCE235	MS-31
C47	100-500			DD-202	22R5T1	CM-20B-101J	MCE235	MS-31
C48	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C49	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C50	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C51	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C52	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C53	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20

\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.  
 # Vocaline Part Number.

## CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	USE	REPLACEMENT DATA				MALLORY PART No.	NOTES
			VOCALINE PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
R1	10K	Volume, Power Sensitivity, Squelch Switch	79-124	B13-116, 5K7				
R2	20K		79-123					

## TUBES

ITEM No.	GENERAL ELECTRIC	RCA	RAYTHEON	SYLVANIA	TYPE
V1	Transmit Oscillator				3V4
V2	Final Amplifier				3V4

## TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA		NOTES
			GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
X1	2N1515	1st CB RF Amplifier	GE-1	PNP	CB-Citizens Band
X2	2N1515	2nd CB RF Amplifier	GE-1	PNP	BC-Standard Broadcast
X3	2N1515	1st CB Mixer	GE-1	PNP	
X4	2N1515	CB Crystal Oscillator	GE-1	PNP	
X5	2N1526	BC Mixer	2N484	PNP	
X6	2N1515	Tune CB-BC Osc.		PNP	
X7	2N1526	2nd CB Mixer-1st BC IF Amplifier	2N484	PNP	
X8	2N1524	1st CB-2nd BC Amplifier	2N483	PNP	
X9	2N1524	2nd CB-3rd BC Amplifier	2N483	PNP	
X10	2N406	Emitter Follower	2N382	PNP	
X11	2N406	1st AVC Amplifier	2N406	PNP	
X12	2N406	2nd AVC Amplifier	2N406	PNP	
X13	2N406	Driver	2N406	PNP	
X14	2N406	Driver Bias Control	2N406	PNP	
X15	2N270	Output-Modulator	2N270	PNP	
X16	2N406	Speech Amplifier	2N362	PNP	
X17	2N406	HV Oscillator	2N301	PNP	

## POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES	NOTES
			RCA PART No.	RAYTHEON PART No.		
M19	.140A	485-15	IN3195*	154B	LY Supply Bridge. * 4 Required	
X20		485-16	IN3194	F-2	External Battery Polarity Protection	
X21	.0075A	85-5	IN3194	F-4	HV Rectifier	
X22	.0075A	85-5	IN3194	F-4	HV Rectifier	
X23		85-12	IN295A	IN295A	Meter Output Rectifier (IN295A)	
X24		85-12	IN295A	IN295A	Audio Detector (IN295A)	
X25		85-12	IN295A	IN295A	Audio Detector (IN295A)	
X26		85-12	IN295A	IN295A	Noise Limiter (IN295A)	
X27		85-14	IN295A	IN295A	Output Bias (IN295A)	

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	VOCALINE PART No.	REPLACEMENT DATA				SPRAGUE PART No.	
			AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.		
C1	100	77-89	PTT73	NLW100-15	MTI-19	TT15X100	MLV100-15	TE-1162
C2	100	77-89	PTT73	NLW100-15	MTI-19	TT15X100	MLV100-15	TE-1162
C3A	40	77-100	PRS52195	BBRD4415	Q72-9	TC848	TDLD-7	TVA-2445
C4	10	77-108	PTT92	NLW10-50	MTI-6	TT50X10	MLV10-50	TE-1304

# PARTS LIST AND DESCRIPTIONS (Continued)

## RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
	IRC PART No.	WORKMAN PART No.			REMARKS	REMARKS
R3			R37	1000Ω		
R4	10K		R38	1000Ω		
R5	10K		R39	470Ω		
R6	470Ω		R40	470Ω		
R7	100K 5%		R41	10K		
R8	10K 5%		R42	10K		
R9	100K 5%		R43	2200Ω		
R10	10K		R44	10K 5%		
R11	1000Ω		R45	47K		
R12	47K		R46	10K		
R13	10K		R47	1000Ω		
R14	1000Ω		R48	6800Ω 5%		
R15	100K		R49	100K 5%		
R16	10K		R50	8200Ω		
R17	1000Ω		R51	4.7Ω		
R18	1000Ω		R52	470Ω		
R19	3.3Ω 1W		R53	270K		
R20	100K 5%		R54	47K		
R21	10K 5%		R55	3300Ω		
R22	3300Ω 5%		R56	2200Ω		
R23	2200Ω		R57	2200Ω		
R24	100K 5%		R58	47Ω		
R25	10K 5%		R59	150Ω		
R26	4700Ω		R60	100K		
R27	1000Ω		R61	4700Ω		
R28	10K 5%		R62	10K		
R29	100K 5%		R63	100K		
R30	4700Ω		R64	47K		
R31	10K		R65	82Ω		
R32	100K 5%		R66	470Ω		
R33	4700Ω		R67	100Ω		
R34	1000Ω		R68	220Ω		
R35	22K		R69	50Ω 5W		
R36	4700Ω		R70	3.3Ω 1W		

Note 1

Note 1. When R19 is 1.5Ω, R70 is not used.  
† Value used in early versions.

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		VOCALINE PART No.	Miller PART No.	Stancor PART No.	
L1	RF Choke (1MH)	66-13			
L2	Rec. Ant.	66-81			
L3	1st RF	66-82			
L4	2nd RF	66-82			
L5	Mixer Plate	66-84			
L6	1st CB Osc.	66-85			
L7	2nd CB Osc.	486-88			
L8	Channel A Osc.	66-68			
L9	Channel B Osc.	66-68			
L10	Channel C Osc.	66-68			
L11	Channel D Osc.	66-68			
L12	BC Osc.	66-86			
L13	Loopstick	66-87			
L14	RF Choke (1MH)	66-13			
L15	RF Choke (1MH)	66-13			
L16	Transmit Osc.	66-68			
L17	Final Plate	66-18			
L18	RF Choke (1MH)	66-13			

## TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA			NOTES
		VOCALINE PART No.	MERIT PART No.	STANCOR THORDARSON PART No.	
T1	117V @ .040A ④ .175A	99-55			

## TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA				NOTES
		VOCALINE PART No.	MERIT PART No.	STANCOR THORDARSON PART No.	TRIAD PART No.	
T2	14VDC ④ .458A ④ .018A ④ .15MA	99-52				

## TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO	REPLACEMENT DATA			NOTES
		VOCALINE PART No.	MERIT PART No.	STANCOR THORDARSON PART No.	
T3	1:1	99-53			

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA			NOTES
		VOCALINE PART No.	MERIT PART No.	Stancor Thordarson PART No.	
T4	2700Ω	99-54			

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		VOCALINE PART No.	QUAM PART No.	
SPL	4" PM	98-3	4A07	

## BATTERIES

ITEM No.	VOLTAGE	REPLACEMENT DATA			NOTES
		VOCALINE PART No.	BURGESS PART No.	EVEREADY PART No.	
M1	7½V	4125-3	"A"	"B"	
M2	1.5V	4125-3	"A"	"B"	2 Required

## FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			BUSS PART No.
			VOCALINE PART No.	HOLDER	FUSE	
M2	3AG	½ Amp 125V	4118-28		315, 500	MDV ½

## MISCELLANEOUS

ITEM No.	PART NAME	VOCALINE PART No.	REPLACEMENT DATA			NOTES
			VOCALINE PART No.	HOLDER	FUSE	
M3	Tuning Cap.	77-107				2 Gang (Ant. 123mmf Max. Osc. 78mmf Max.) 1 Section, Transmit Final (0-50mmf) 1 Section, CB, Fine Tuning (2.3-14.2mmf) Transmit Oscillator Transmit Oscillator Transmit Oscillator First CB Oscillator, 30.765MC Function (Rotary Water Type) Channel Selector, (Rotary Water Type) Noise Limiter, (DST Slide Type) Lamp, (Spring Loaded Normally Off, Push-Button Type) Transmit-Receive
M4	Tuning Cap.	77-101				
M5	Tuning Cap.	77-105				
M6	Crystal	112-8-FR				
M7	Crystal	112-8-FR				
M8	Crystal	112-8-FR				
M9	Crystal	112-8-FR				
M10	Crystal	112-7				
M11	Switch	64-78				
M12	Switch	64-79				
M13	Switch	64-76				
M14	Switch	64-77				
M15	Relay	93-30				
M16	455KC IF	127-1				
M17	455KC IF Bypass	127-2				
M18	455KC IF Bypass	127-1				
M19	455KC IF Bypass	102-7				
M20	Microphone Meter Printed Board	126-1 105-11				