

® with **CIRCUITRACE**®

Met dank aan Jef Bos

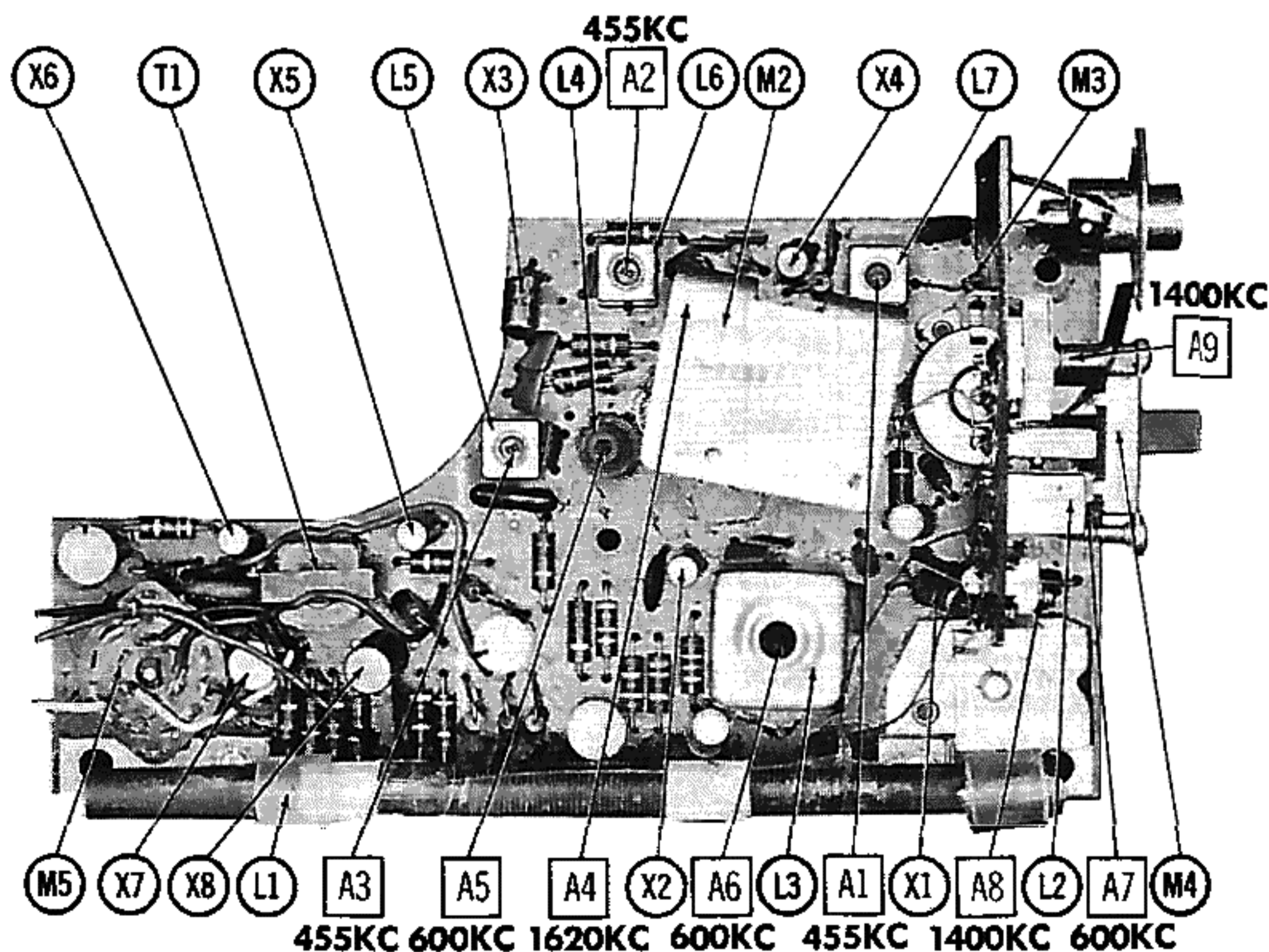


TRADE NAME: Arvin Model 62R59 Ch. 1.73401
 SUPPLIER: Arvin Industries, Inc., Columbus, Indiana
 TYPE SET: 8 Transistor AM Receiver
 POWER SUPPLY: 6 Volts DC
 RATING: 14 ma @ 6V (No Signal Min. Vol.)
 20 ma @ 6V (Signal, Normal Vol.)
 TUNING RANGE: BROADCAST 535-1620 KC

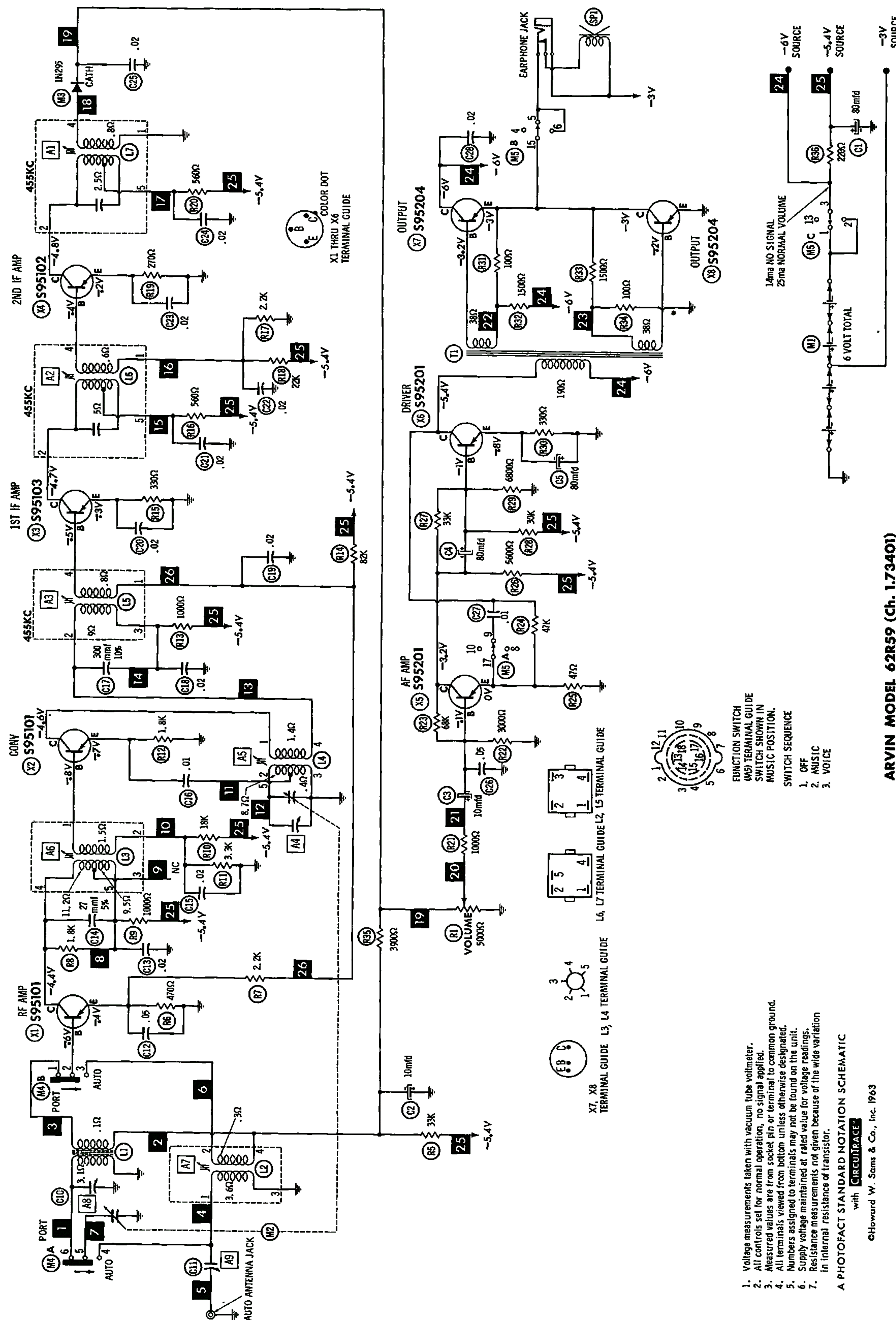
ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
 Fashion loop of several turns of wire and connect generator across loop.
 Adjust output of generator to radiate only enough signal into receiver to obtain a suitable indication.
 Suggested Alignment Tools: A1, A2, A3, A7 GENERAL CEMENT #9440
 WALSCO #2501
 A5, A6 GENERAL CEMENT #8606, 8282
 WALSCO #2526, 2543
 A4, A8, A9 GENERAL CEMENT #5000, 5066, 8290
 WALSCO #2512, 2525, 2528

SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC (400% Mod.)	Tuning gang fully open.	Output Meter across voice coil.	A1, A2, A3	Adjust for maximum. Repeat as required.
2. 1620KC	"	"	A4	Adjust for maximum.
3. 600KC	Tune to Signal.	"	A5, A6 A7	Rock tuning gang and adjust for maximum. Repeat steps 2 and 3.
4. 1400KC	"	"	A8, A9	Adjust for maximum.



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



1. Voltage measurements taken with vacuum tube voltmeter.
2. All controls set for normal operation, no signal applied.
3. Measured values are from socket pin or terminal to common ground.
4. All terminals viewed from bottom unless otherwise designated.
5. Numbers assigned to terminals may not be found on the unit.
6. Supply voltage maintained at rated value for voltage readings.
7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITACE**

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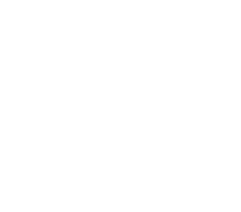
ARVIN MODEL 62R59 (Ch. 1.73401)

FUNCTION SWITCH

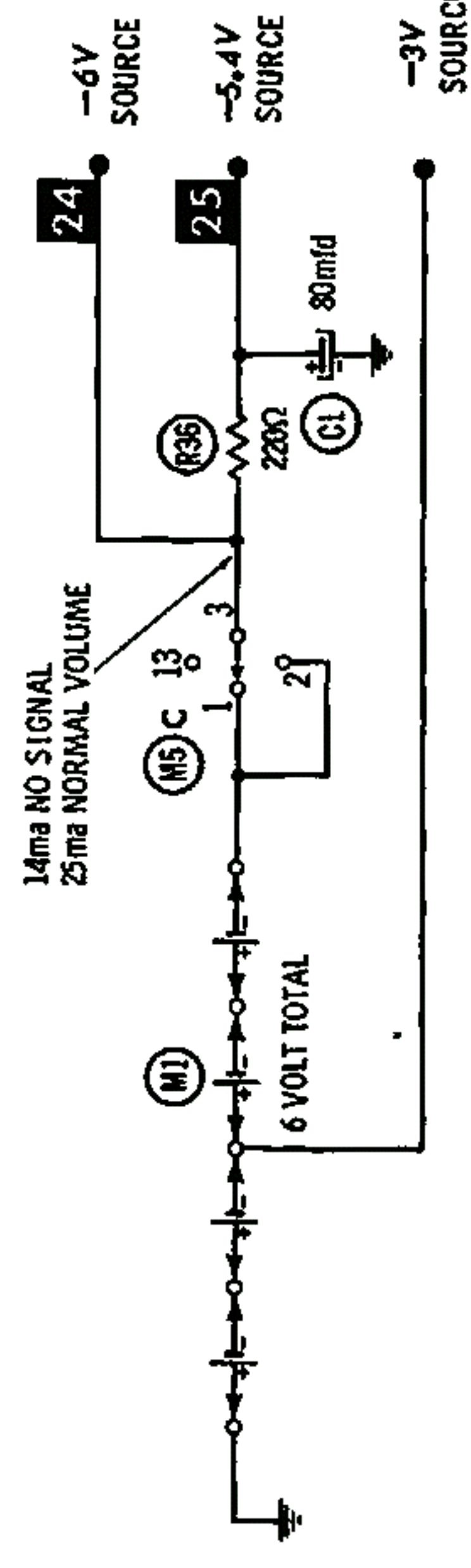
- M5) TERMINAL GUIDE
SWITCH SHOWN IN
MUSIC POSITION.
SWITCH SEQUENCE
1. OFF
2. MUSIC
3. VOICE



X7, X8
TERMINAL GUIDE L3, L4 TERMINAL GUIDE L6, L7 TERMINAL GUIDE L5 TERMINAL GUIDE



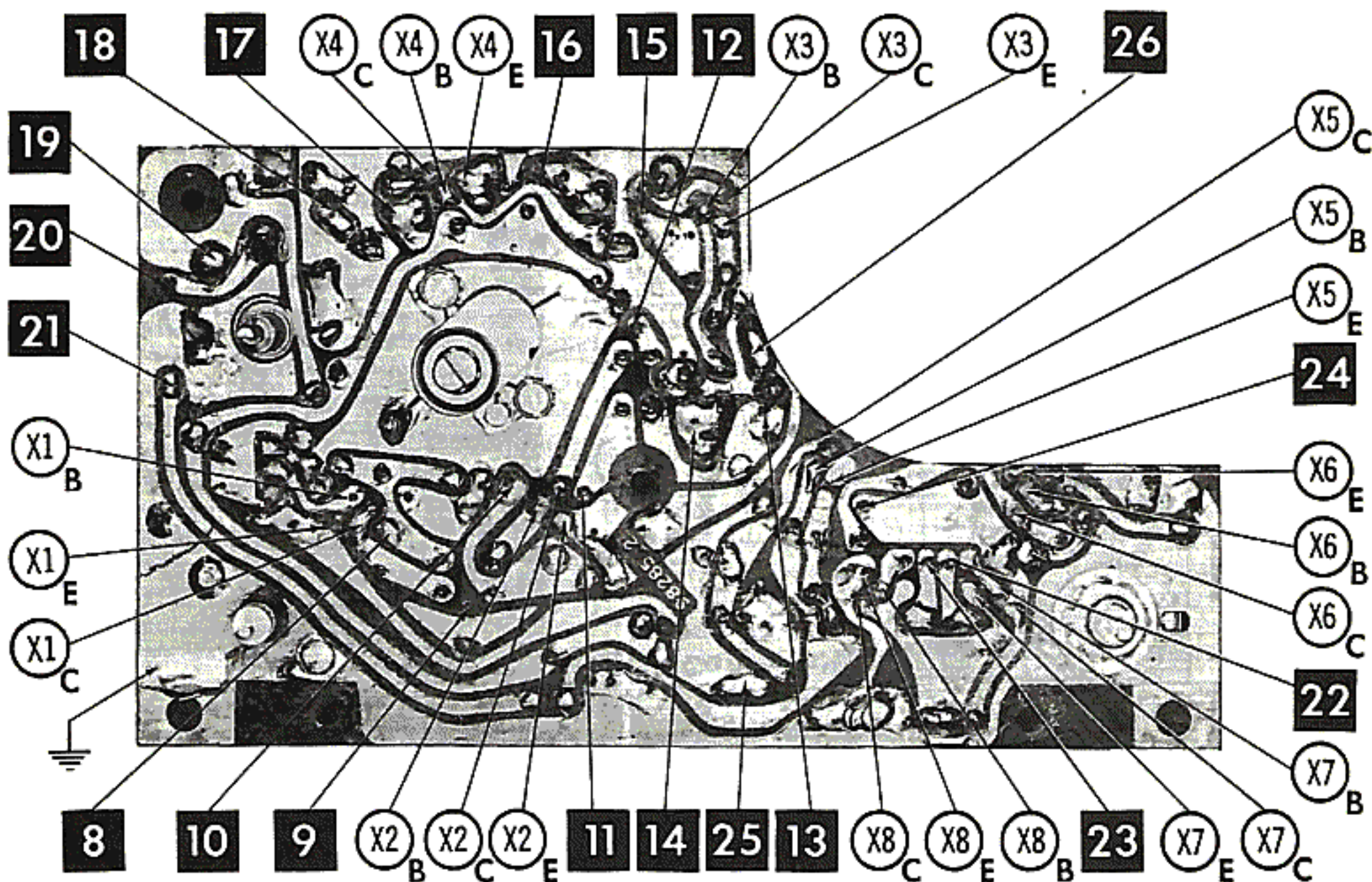
14ma NO SIGNAL
25ma NORMAL VOLUME



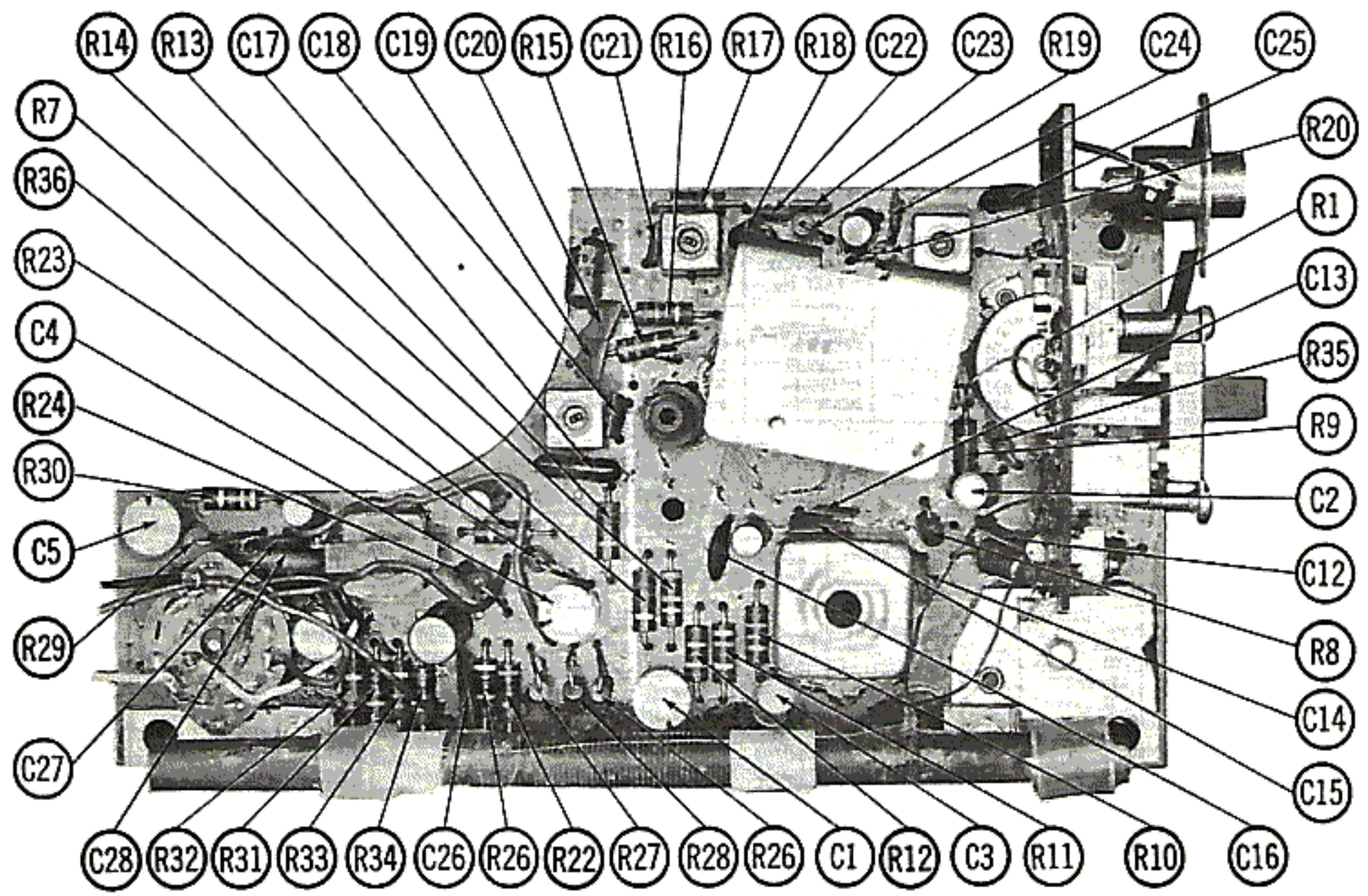
-3V SOURCE

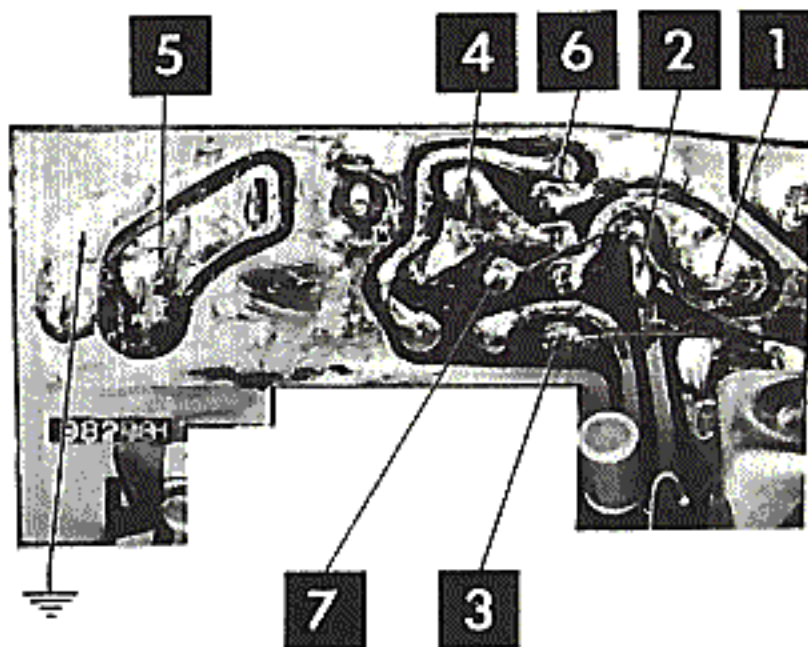
-5.4V SOURCE

-6V SOURCE

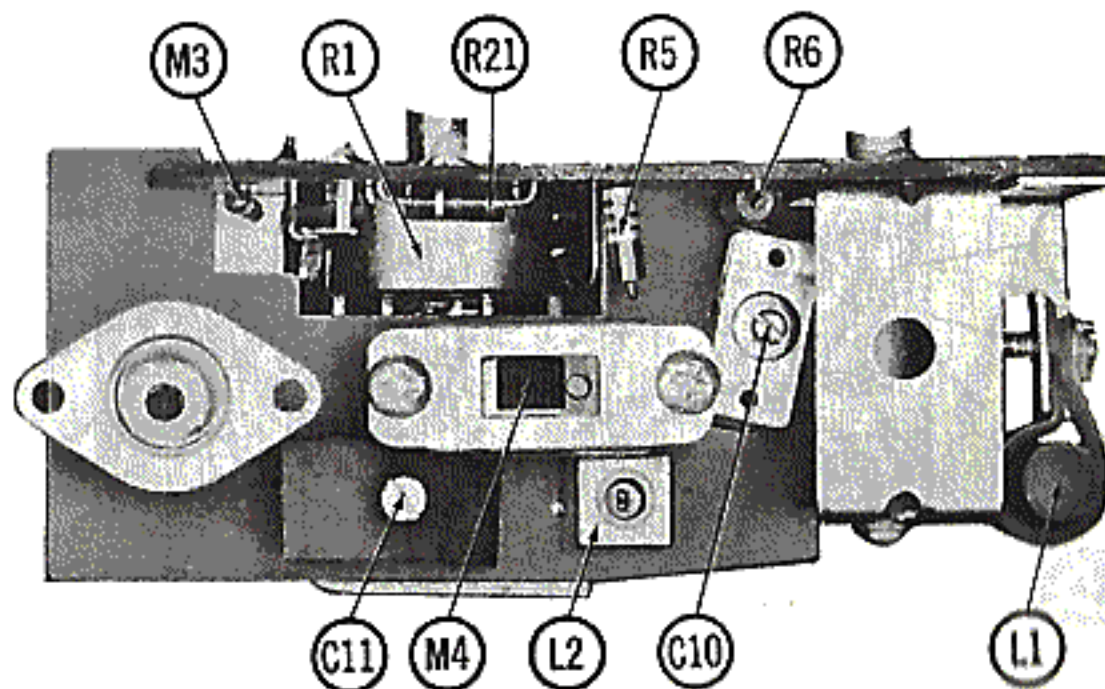


Howard W. Sams **CIRCUITRACE** Photo





A Howard W. Sams CIRCUITRACE Photo



PARTS LIST AND DESCRIPTION

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	S95101	RF Amp.	DS-25	GE-1		PNP
X2	S95101	Converter	DS-25	GE-1		PNP
X3	S95103	1st IF Amp.	DS-25	GE-1		PNP
X4	S95102	2nd IF Amp.	DS-25	GE-1		PNP
X5	S95201	AF Amp.	DS-26	GE-2	2N406	PNP
X6	S95201	Driver	DS-26	GE-2	2N406	PNP
X7	S95204	Output	DS-26	GE-2	2N408	PNP
X8	S95204	Output	DS-26	GE-2	2N408	PNP

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	ARVIN PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	80	10	49385-5	BCD10080	NLW75-10	MT1-19	BL1730		VL-1140
C2	10	10	49385-2	BCD10010	ECSP10-15	MT1-5	BL-1231	PET1340	VL-1127
C3	10	10	49385-2	BCD10010	ECSP10-15	MT1-5	BL-1231	PET1340	VL-1127
C4	80	10	49385-5	BCD10080	NLW75-10	MT1-19	BL-1730		VL-1140
C5	80	10	49385-5	BCD10080	NLW75-10	MT1-19	BL-1730		VL-1140

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.	
C10									
C11									
C12	.05		TTD-05	CK-503	H5			TA-150	TG-S50
C13	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C14	27	5%						CNO-427	10TCC-Q27
C15	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C16	.01		TTD-01	CK-103	H2			TA-110	TG-S10
C17	300	10%	1469-0003		22R5T3		CM-20B-301K	MCB241	MS-33
C18	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C19	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C20	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C21	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C22	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C23	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C24	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C25	.02		TTD-02	CK-203	H3			TA-120	TG-S20
C26	.05		TTD-05	CK-503	H5			TA-150	TG-S50
C27	.01		TTD-01	CK-103	H2			TA-110	TG-S10
C28	.02		TTD-02	CK-203	H3			TA-120	TG-S20

PARTS LIST AND DESCRIPTION (CONTINUED)

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			ARVIN PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	5000Ω	49000-2				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		ARVIN PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Loopstick	46861-11					
L2	Ant. Coil	97234-1					
L3	RF	47655-3					
L4	Osc.	45783-22					
L5	1st IF	49388-12					
L6	2nd IF	49388-21					
L7	3rd IF	49388-31					

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			ARVIN PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.1						
T1	3.3	1	45604-13					
		SEC.2						
		1						

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		ARVIN PART No.	QUAM PART No.	
SP1	3½" PM 12Ω	46523-10	3A07Z12	

BATTERIES

ITEM No.	VOLTAGE	ARVIN PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	1½V		130 (AL-1)	635 (E93)	M-14R (MN1400)	4 Used

MISCELLANEOUS

ITEM No.	PART NAME	ARVIN PART No.	NOTES
M2	Tuning Cap	49873-2	2 Gang
M3	Det-AVC Diode	48287	
M4	Switch	95074-5	Function
M5	Switch	49871-1	On-Off-Tone

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Knob, Volume, Tone	49520	Cabinet, Front	49519
Knob, Switch	49849	Cabinet, Leather	98273

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid 22AWG) Available in 12 Colors
 8524 (Stranded 22AWG)
 8570 (Stranded 26AWG)