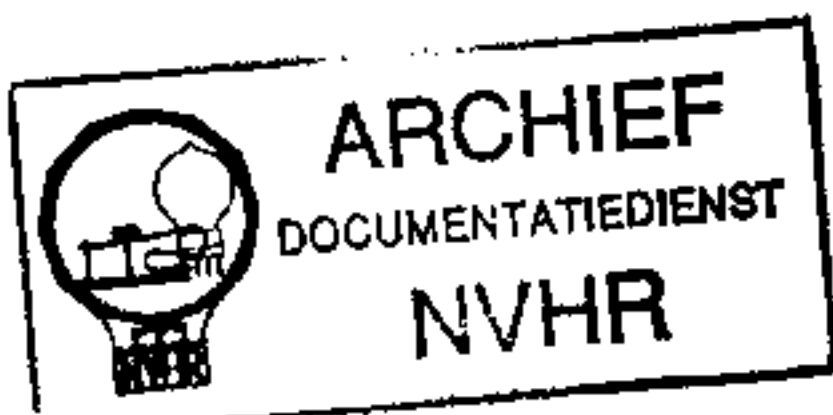


PHOTOFACT[®] with

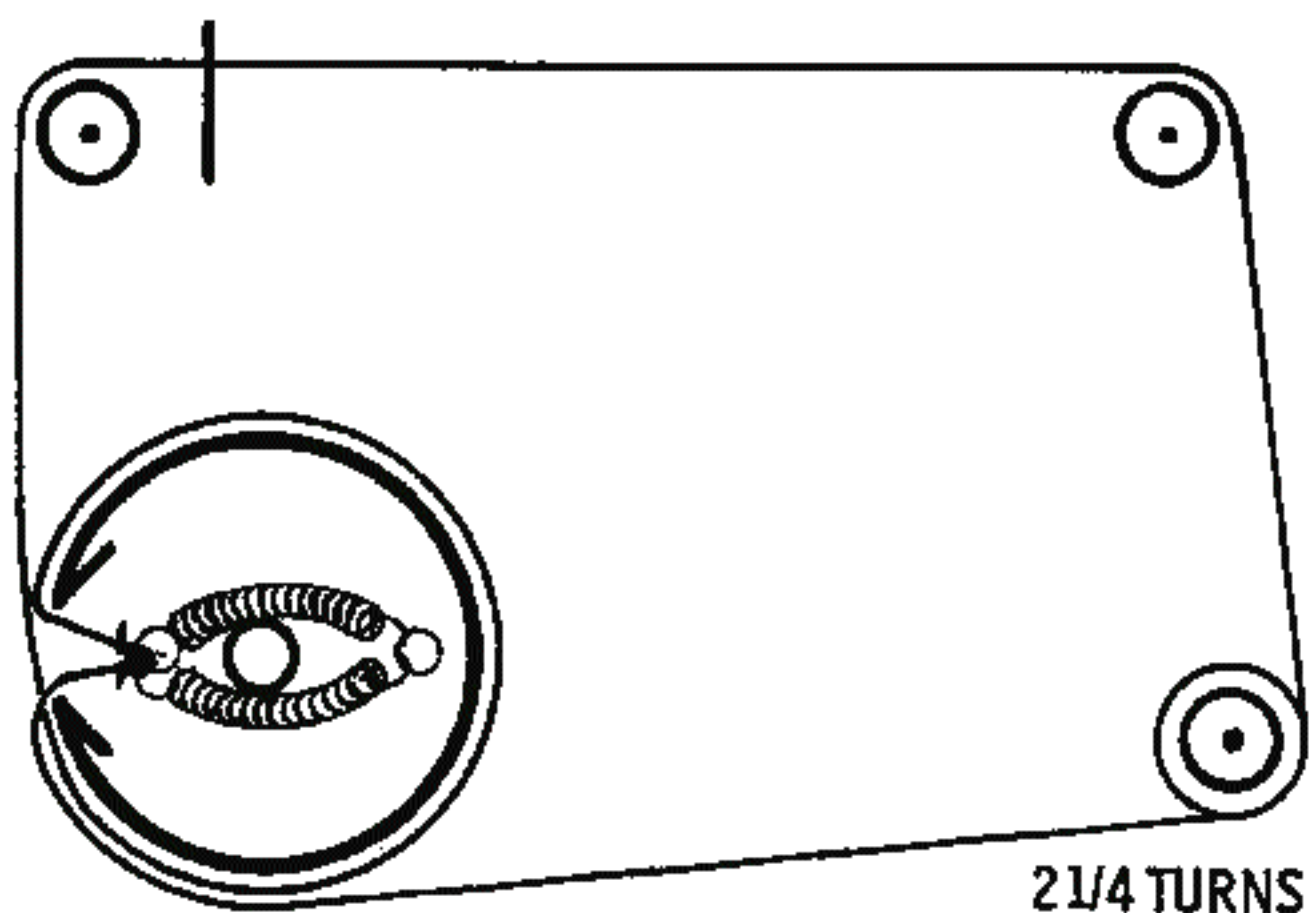
CIRCUITRACE[®]

Met dank aan Jef Bos

TRADE NAME: Panasonic Model T-7
 SUPPLIER: Matsushita Electric Corp. of America
 41 E. 42nd Street, New York 17, N. Y.
 TYPE SET: 8 Transistor AM Receiver
 POWER SUPPLY: 9 Volts DC
 RATING: 8MA @ 9VDC (No Signal, Min. Volume)
 30MA @ 9VDC (Signal, Normal Volume)
 TUNING RANGE: BROADCAST 540 - 1620KC
 Ned. Ver. v. Historie v/d Radio



DIAL CORD STRINGING

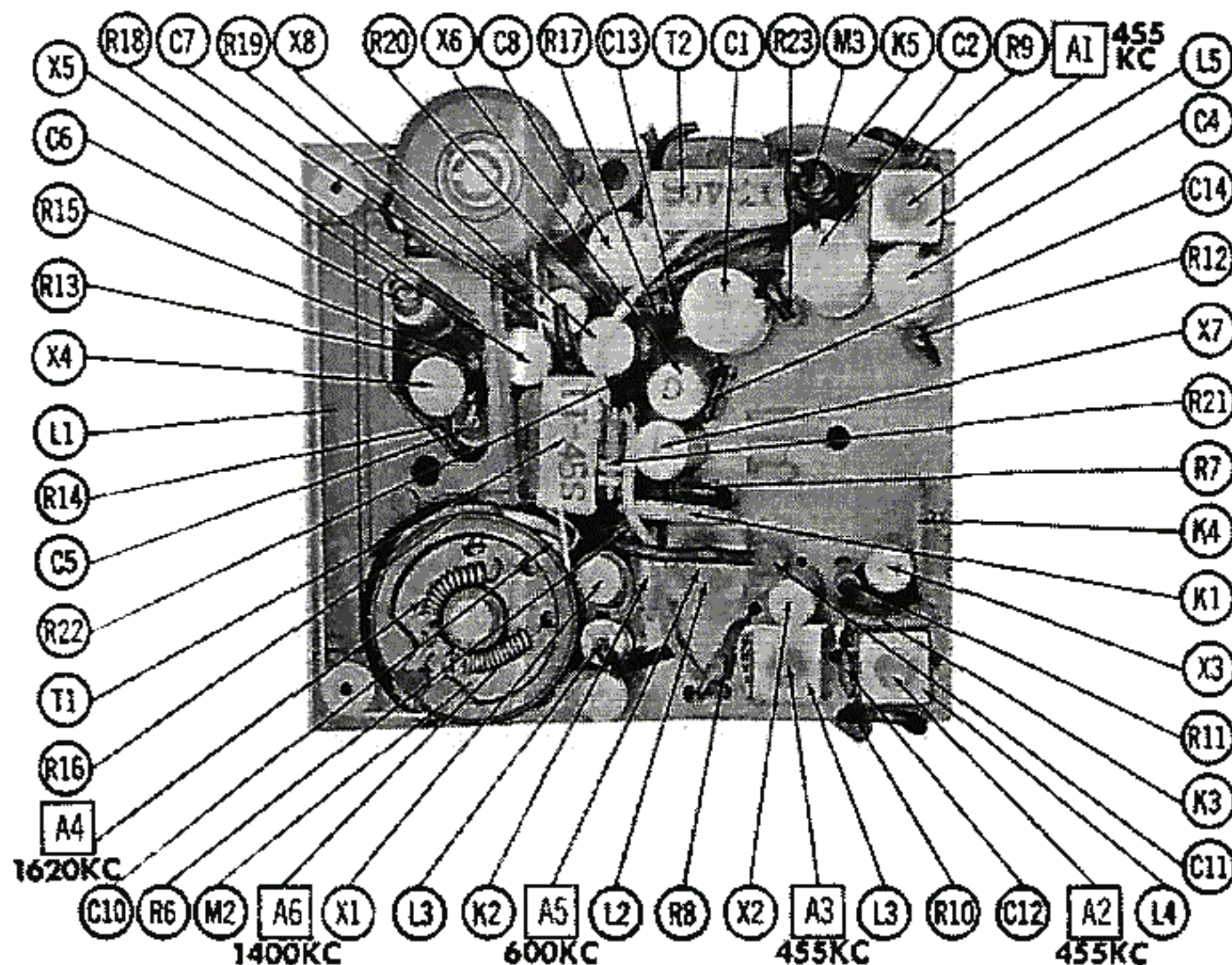


ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
 Fashion loop of several turns of wire. Connect generator across loop and adjust output to radiate only enough signal into receiver to obtain a suitable indication on output meter across voice coil.
 Suggested Alignment Tools:

- A1, A2, A3, A5... GENERAL CEMENT #5067, 8282, 8606
 WALSCO #2526, 2543
- A4, A6..... GENERAL CEMENT #5000, 5066, 8290
 WALSCO #2512, 2525, 2528

SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
1. 455KC (400v Mod.)	Tuning gang fully open.	A1, A2, A3	Adjust for maximum. Repeat as required.
2. 1620KC	"	A4	Adjust for maximum.
3. 600KC	Tune to signal.	A5	Rock tuning gang and adjust for maximum. Repeat steps 2 and 3.
4. 1400KC	"	A6	Adjust for maximum.



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

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	2SA102	Converter	DS-25			PNP
X2	2SA102	1st IF Amplifier	DS-25			PNP
X3	2SA102	2nd IF Amplifier	DS-25			PNP
X4	2SB173	AF Amplifier				PNP
X5	2SB171	Driver			2N408	PNP
X6	2SB172	Output			2N408	PNP
X7	2SB172	Output			2N408	PNP
X8	MA23	Bias Regulator				PNP

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	PANASONIC PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	30	10	NCA-10V30						
C2	30	10	NCA-10V30						
C3	10	3	NCT-3V10S	CRE207A	NLW10-3				TE-1053
C4	30	3	NCA-3V30	CRE212A	NLW25-3				
C5	5	3	NCT-3V5S	CRE204A	NLW5-3	MT1-3			TE-1052, 3
C6	10	3	NCT-3V10S	CRE207A	NLW10-3				TE-1053
C7	.5	10	NCT-10V0.5SX	CRE400A	NLW1-50				
C8	30	3	NCA-3V30	CRE212A	NLW25-3				

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C10	2		NPO-DI 2.2	DTZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C11	135							
C12	2		NPO-DI 2.2	DTZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C13	.0039	#MKAZ05392K						
C14	.0039	#MKAZ05392K						

Panasonic Part Number.

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			PANASONIC PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Switch	2000Ω	SNV9C				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PANASONIC PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Loopstick	AM-1257-B					
L2	Osc.	AOP4-U					
L3	1st IF	TI-S ₁ C	BC-569	2061	RTC-9262		
L4	2nd IF	TI-S ₂ D	BC-570	2062	RTC-9263		
L5	3rd IF	TI-S ₃ C	BC-571	2063	RTC-9264		

D DESCRIPTION

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			PANASONIC PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T1	1.4	1	TT-45S					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			PANASONIC PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T2	500Ω CT	6-8Ω	TT-40S					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		PANASONIC PART No.	QUAM PART No.	
SP1	2 1/8" PM 6-8Ω	P-245S		

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PANASONIC PART No.	REPLACEMENT DATA
K1	Osc. Feedback	5600Ω, .025mfd	CR22PK562 (A)	
K2	Converter Emitter Bias	1800Ω, .01mfd	CR21MK182 (A)	
K3	IF Emitter Bias	1000Ω, .025mfd	CR22PK102 (A)	
K4	IF Base Bias	4700Ω, .025mfd	CR22PK472 (A)	
K5	Diode RF Filter	470Ω, .01mfd, .01mfd	CR31PK471 (A)	

BATTERIES

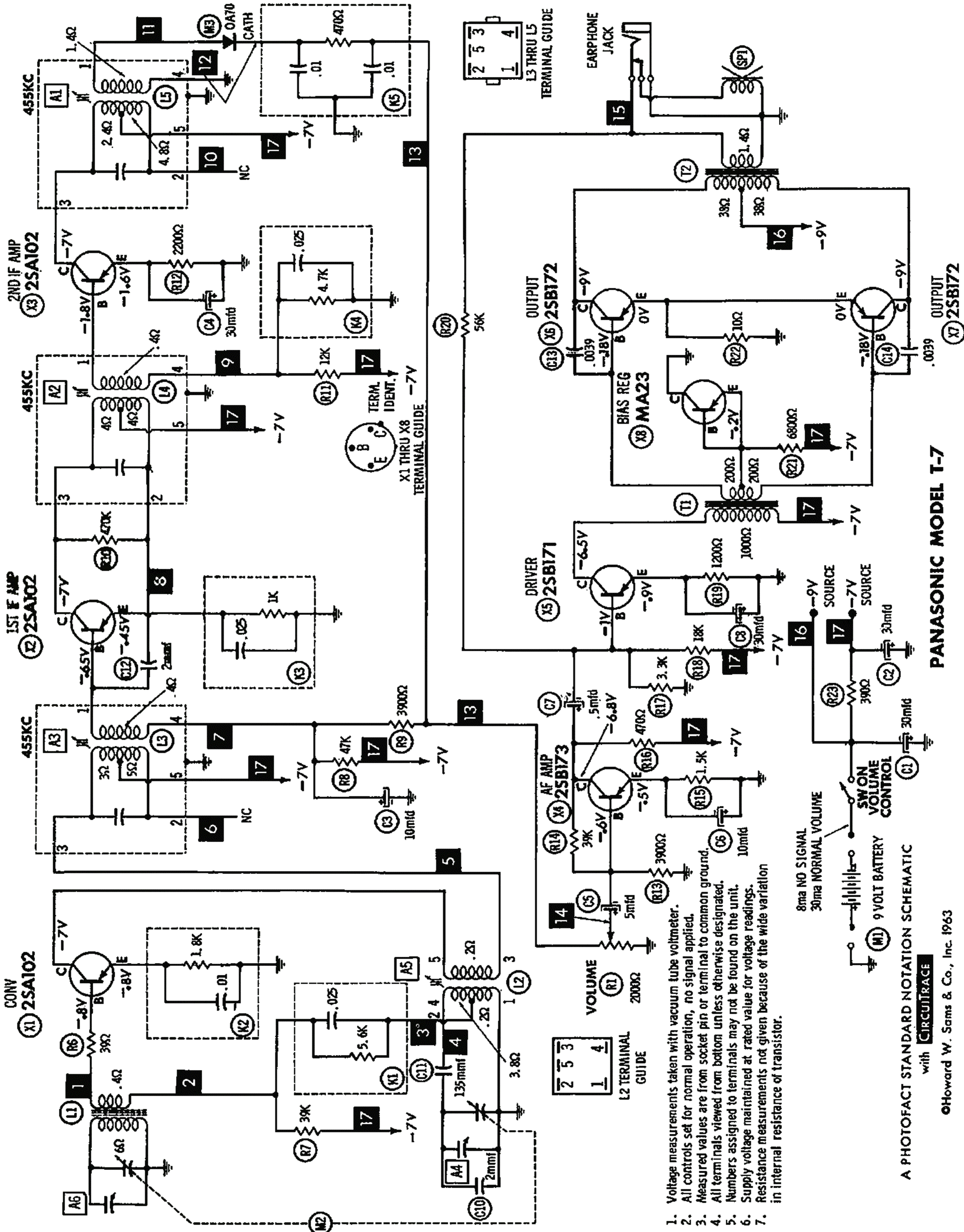
ITEM No.	VOLTAGE	PANASONIC PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	9		2U6 (or E146)	216 (or E146)	M-1604 (or MNI604, TR-146)	

MISCELLANEOUS

ITEM No.	PART NAME	PANASONIC PART No.	NOTES
M2 M3	Tuning Cap. Detector	PVC-2Z OA70X	

WIRING DATA

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

