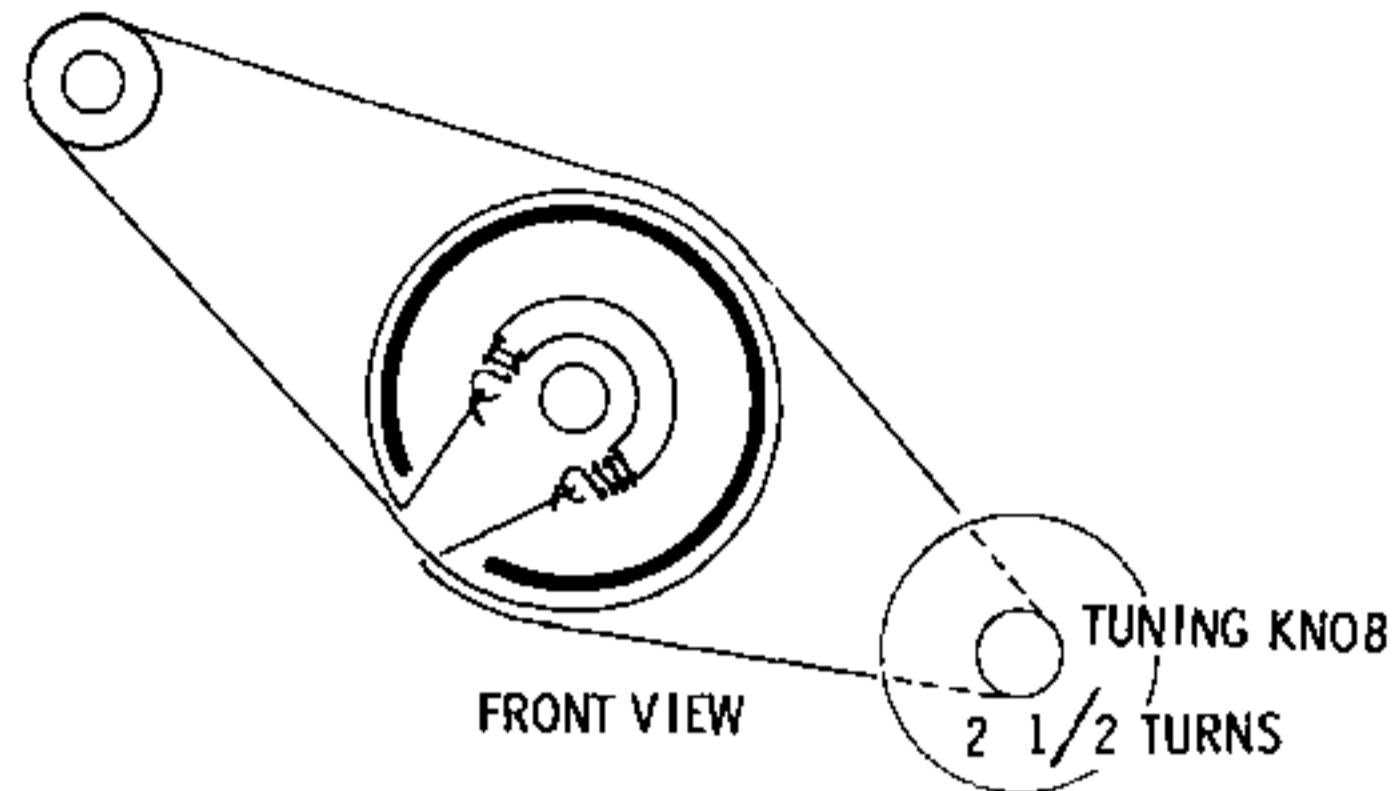
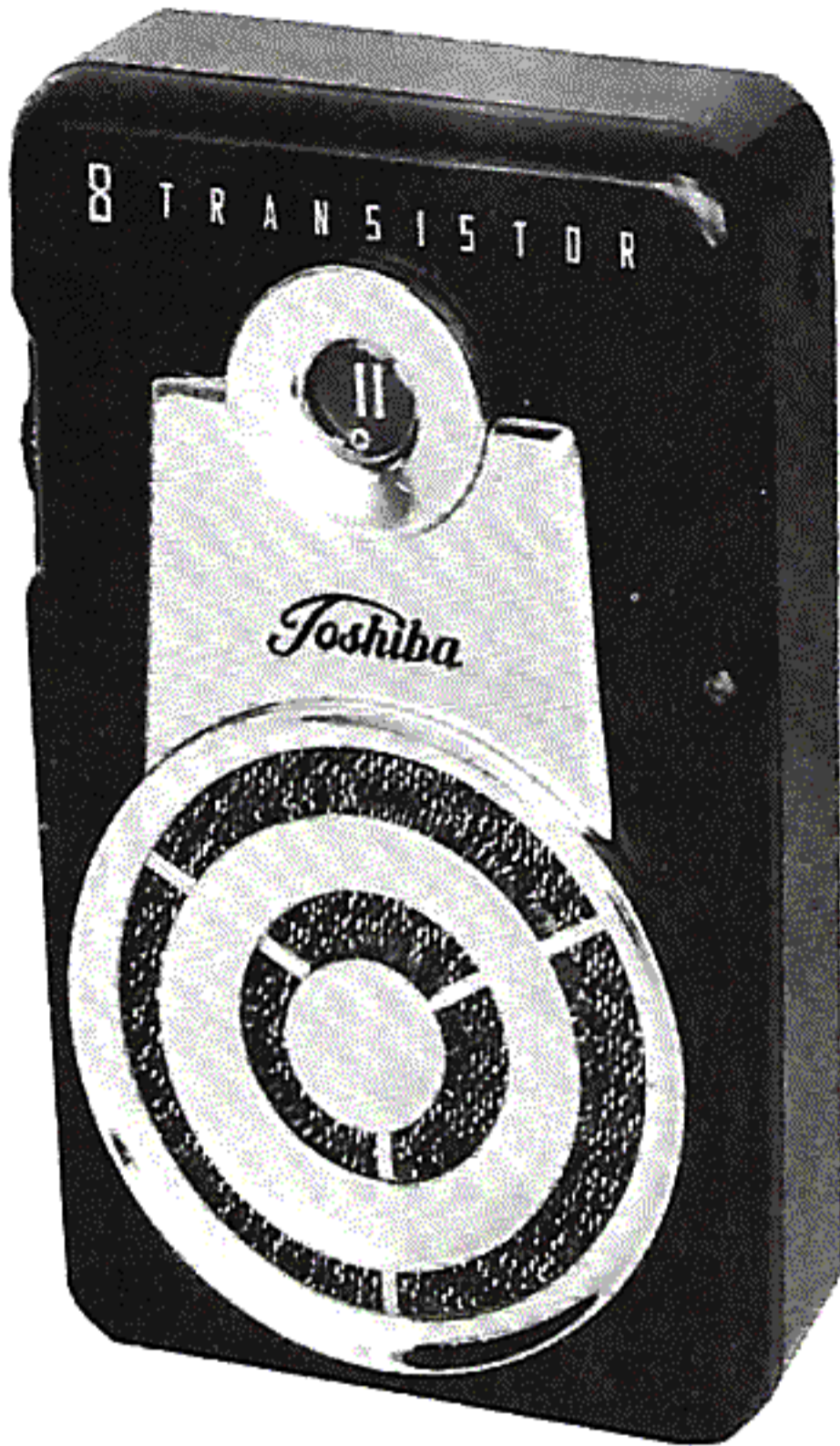


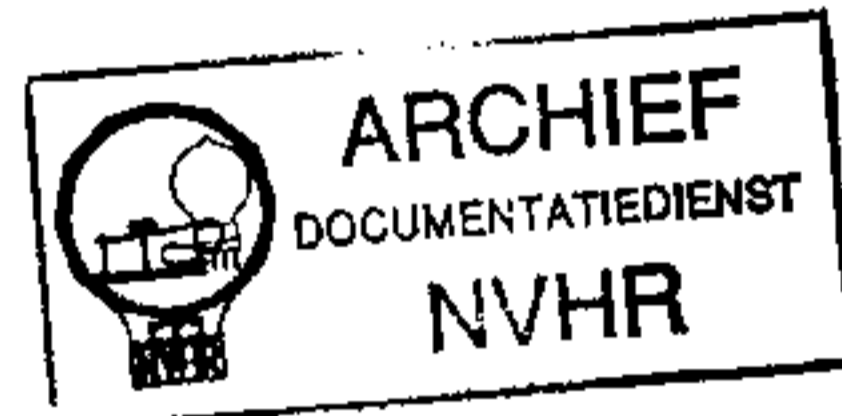


DIAL CORD STRINGING



Met dank aan Jef Bos

Ned. Ver. v. Historie v/d Radio



MODEL 8TP-90

TRADE NAME	Tcshiba Model 8TP-90		
SUPPLIER	Transistor World Corp., 513 W. 24th Street, New York 11, N. Y.		
TYPE SET	Battery Operated 8 Transistor Portable AM Receiver		
POWER SUPPLY	9 Volts DC	RATING	12MA @ 9 Volts DC (No Signal, Min. Volume)
TUNING RANGE--BROADCAST	530 - 1650KC		18MA @ 9 Volts DC (Signal, Normal Volume)

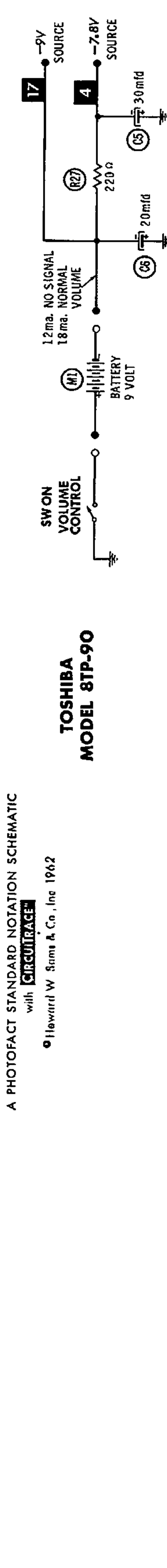
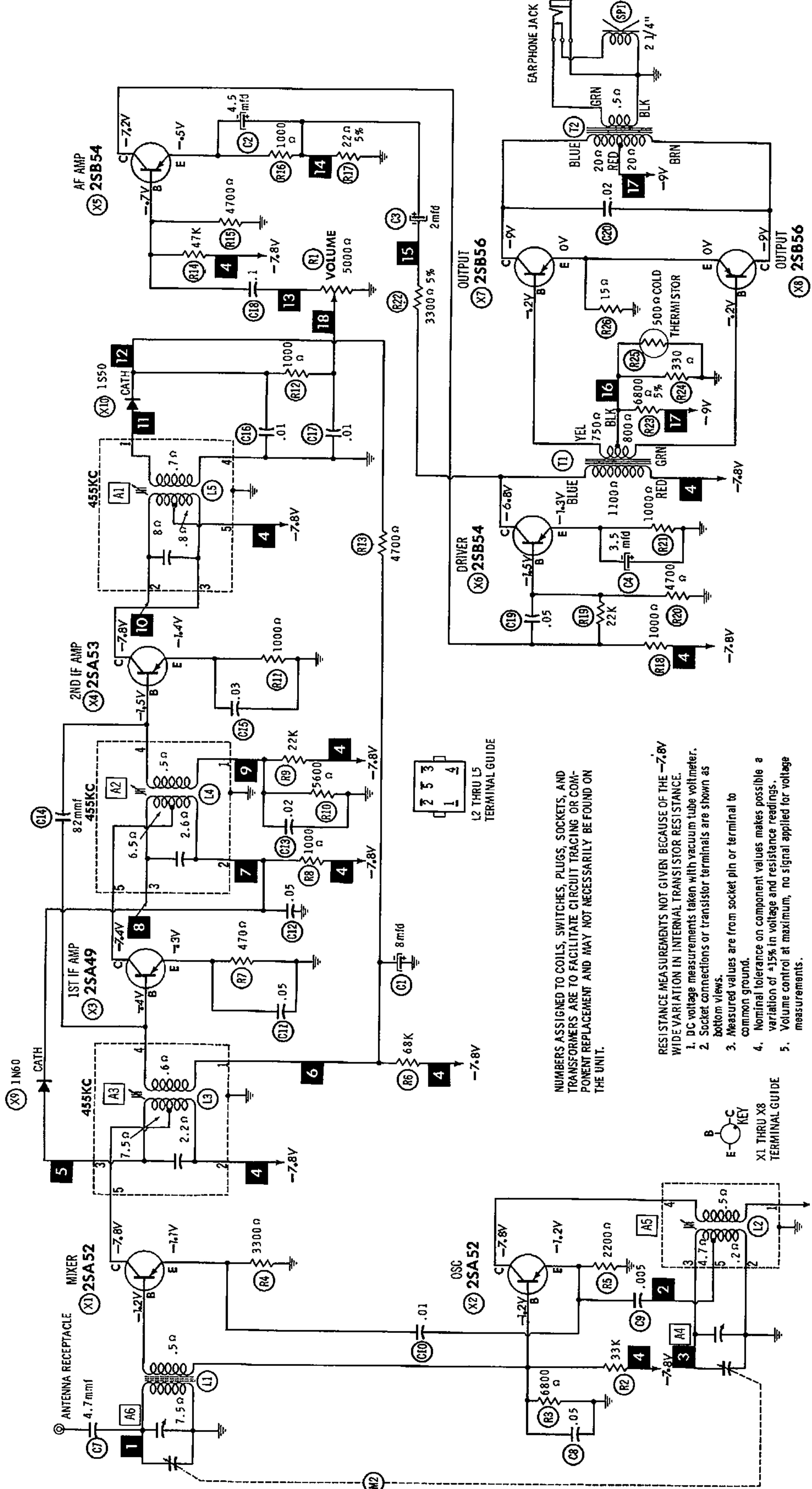
ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS--READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT					
Use only enough generator output to provide a usable indication.					
Suggested Alignment Tools:					
A1 thru A6..... GENERAL CEMENT #5000, 5003, 5066, 8276, 8290, 9087, 9089					
WALSCO #2512, 2525, 2528					
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. Fashion loop of several turns of wire and radiate signal into loop of receiver.	455KC (Unmod.)	Tuning gang fully open.	DC VTVM across Volume Control.	A1, A2, A3	Adjust for maximum deflection.
2. "	1650KC	"	"	A4	"
3. "	530KC	Tuning gang fully closed.	"	A5	Adjust for maximum deflection while rocking tuning gang. Repeat Step 2.
4. "	1400KC	1400KC	"	A6	Adjust for maximum deflection.

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 LF619

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NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

- RESISTANCE MEASUREMENTS NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.
1. DC voltage measurements taken with vacuum tube voltmeter.
 2. Socket connections or transistor terminals are shown as bottom views.
 3. Measured values are from socket pin or terminal to common ground.
 4. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
 5. Volume control at maximum, no signal applied for voltage measurements.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**

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**TOSHIBA
MODEL 8TP-90**

PARTS LIST AND DESCRIPTIONS

WIRING DATA

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

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA		NOTES
			GENERAL ELECTRIC PART No.	RCA PART No.	
X1	2SA52	Mixer	GE-1		PNP
X2	2SA52	Oscillator	GE-1		PNP
X3	2SA49	1st IF Amplifier	GE-1		PNP
X4	2SA53	2nd IF Amplifier	GE-1		PNP
X5	2SB54	AF Amplifier	GE-2	2N406	PNP
X6	2SB54	Driver	GE-2	2N406	PNP
X7	2SB56	Output	GE-2	2N408	PNP
X8	2SB56	Output	GE-2	2N408	PNP

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES	NOTES
			RCA PART No.	SARKES TARZIAN PART No.		
X9 X10		1N60 1S50				Overload Detector

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	TOSHIBA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	8	3		CRE206	NLW8-10				
C2	4.5	6		CRE304	NLW5-15	MT1-3			TE-1085
C3	2	10		CRE401	NLW2-50	MT1-1			TE-1121
C4	3.5	6		CRE303	NLW4-15	MT1-3			TE-1088
C5	30	10							
C6	20	10							

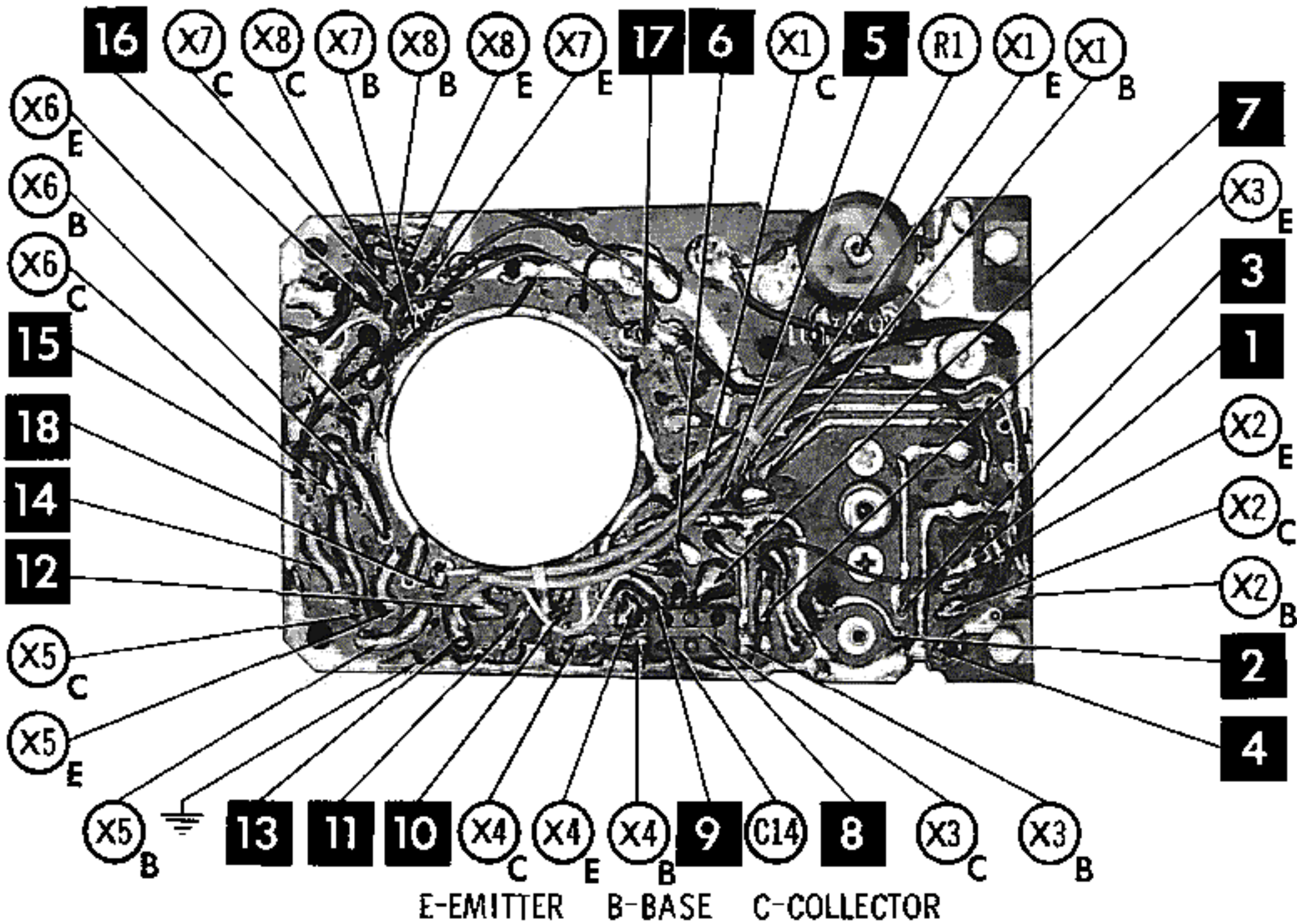
FIXED CAPACITORS

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.	
C7	4.7								TH-S50
C8	.05		TTD-05	DDA-503	H-05S5				TG-D50
C9	.005		TTD-005	DM-502	H-05D5		TA-250		TG-S10
C10	.01		TTD-01	DM-103	H-05S1		TA-110		TH-S50
C11	.05		TTD-05	DDA-503	H-05S5				TH-S50
C12	.05		TTD-05	DDA-503	H-05S5				TH-S50
C13	.02		TTD-02	DDM-203	H-05S2		TA-120		TH-S50
C14	82		CM-20B-820	DD-820	L10Q82	CM-20B-820			
C15	.03		TTD-03	DDA-303	H-05S3				TH-S30
C16	.01		TTD-01	DM-103	H-05S1		TA-110		TG-S10
C17	.01		TTD-01	DM-103	H-05S1		TA-110		TG-S10
C18	.1		TTD-1	DDA-104	H-05P1				TG-P10
C19	.05		TTD-05	DDA-503	H-05S5				TH-S50
C20	.02		TTD-02	DDM-203	H-05S2		TA-120		TG-S20

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			TOSHIBA PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Switch	5000Ω	61.06				



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R2	33K				R15	4700Ω			
R3	8800Ω				R16	1000Ω			
R4	3300Ω				R17	22Ω 5%			
R5	2200Ω				R18	1000Ω			
R6	68K				R19	22K			
R7	470Ω				R20	4700Ω			
R8	1000Ω				R21	1000Ω			
R9	22K				R22	3300Ω 5%			
R10	5600Ω				R23	6800Ω 5%			
R11	1000Ω				R24	330Ω			
R12	1000Ω				R25	500Ω Cold			#M8601
R13	4700Ω				R26	15Ω			
R14	47K				R27	220Ω			

Toshiba Part Number.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TOSHIBA PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	
L1	Loop Bar	LH-214A					
L2	Osc.	LH-167					
L3	1st IF	IT-0757					
L4	2nd IF	IT-0773	BC-569				
L5	3rd IF	IT-0762	BC-571				

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.	TOSHIBA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	TOSHIBA PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	

SPEAKER

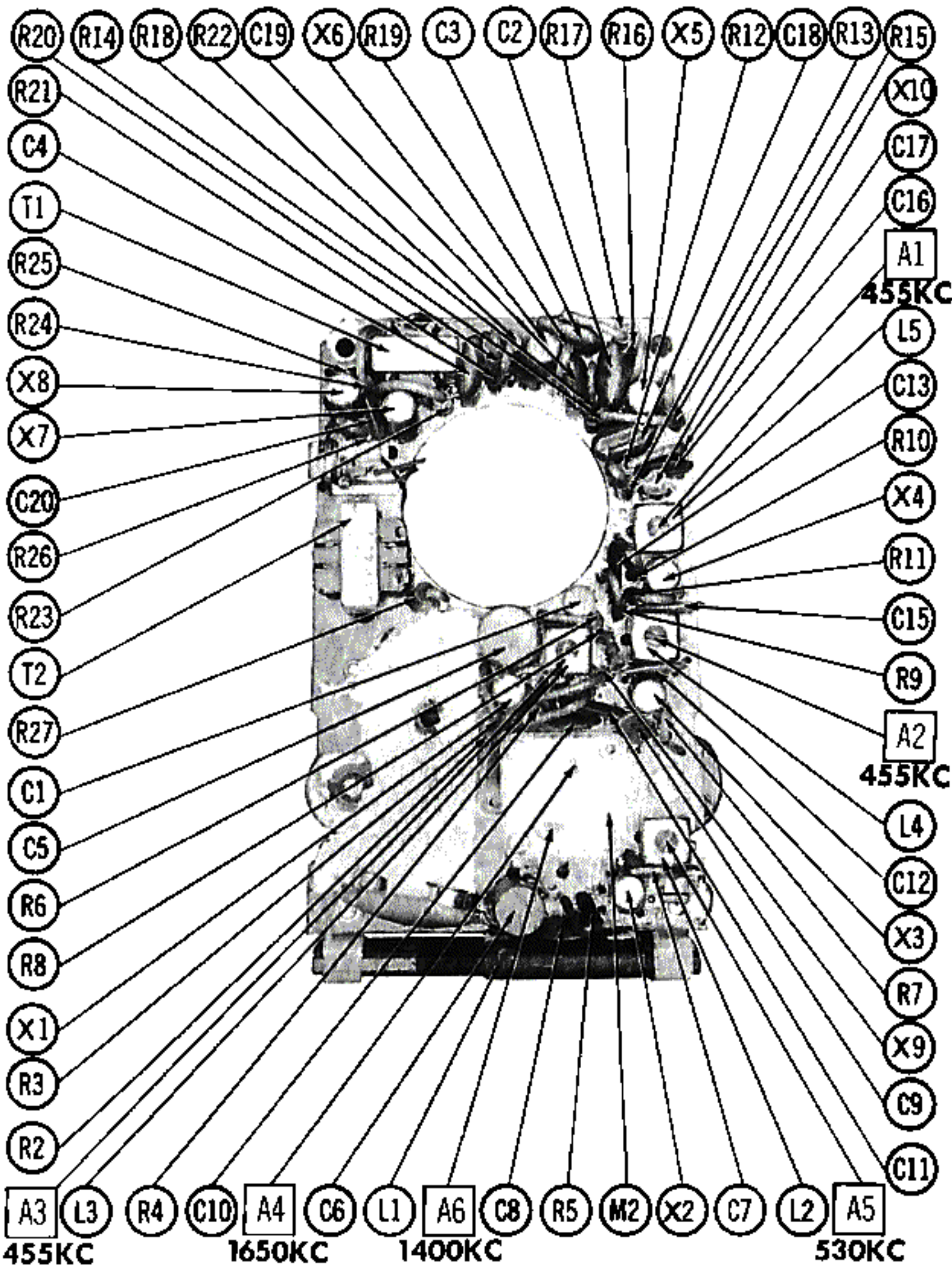
ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	TOSHIBA PART No.	QUAM PART No.	

BATTERIES

ITEM No.	VOLTAGE	TOSHIBA PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V	006P		2U6		216		M-1604	

MISCELLANEOUS

ITEM No.	PART NAME	TOSHIBA PART No.	NOTES
M1



- R20
- R21
- C4
- T1
- R25
- R24
- X8
- X7
- C20
- R26
- R23
- T2
- R27
- C1
- C5
- R6
- R8
- X1
- R3
- R2
- A3 455KC
- L3
- R4
- C10 1650KC
- A4
- C6
- L1
- A6 1400KC
- C8
- R5
- M2
- X2
- C7
- L2
- A5 530KC
- R14
- R18
- R22
- C19
- X6
- R19
- C3
- C2
- R17
- R16
- X5
- R12
- C18
- R13
- R15
- X10
- C17
- C16
- A1 455KC
- L5
- C13
- R10
- X4
- R11
- C15
- R9
- A2 455KC
- L4
- C12
- X3
- R7
- X9
- C9
- C11