

OPERATING INSTRUCTIONS

Threading the Tape

1. Depress the Stop key.
2. Open the lid.
3. Place a reel of tape on supply spindle (12).
4. Place an empty reel on the take-up spindle (11).
5. Unwind about eight inches of tape, hold a section taut and insert it in the tape slot. Insert the free end in one of the reel slots, turn the reel a few turns clockwise to secure the tape to the reel.

NOTE: Place the full reel of tape on the supply spindle so the tape will unwind in a clockwise direction.

Recording from a Microphone

1. Insert the microphone into the input jack color coded red.
2. Depress the Record key, color coded red.
3. Plug the earphone into the output jack, color coded blue.
4. Thread the tape.
5. Turn the remote control switch so the black portion is showing.
6. Depress the forward key, marked by a single arrow.

7. Adjust the Volume control so a clear tone is heard while monitoring through the earphone.

Recording from a Radio or TV

Recordings from a radio or TV may be made in one of three ways:

1. Across Voice Coil Terminals

- a. Connect a patch cord across the voice coil terminals and plug the other end into the input jack.
- b. Adjust the volume of the sound source.
- c. Proceed with steps 2 through 7 as outlined in "Recording from Microphone."

2. From Speakers, Using Microphone

- a. Adjust the volume of the sound source.
- b. Proceed with steps 1 through 7 as outlined in "Recording from Microphone."

3. Across Audio Detector

- a. Connect a patch cord to the detector output and plug the other end into the input jack.
- b. Proceed with steps 2 through 7 as outlined in "Recording from Microphone."

Dual-Track Recording

After one track of the tape has been recorded, remove the full reel from the take-up (right) spindle. Remove the empty reel from the supply (left) spindle.

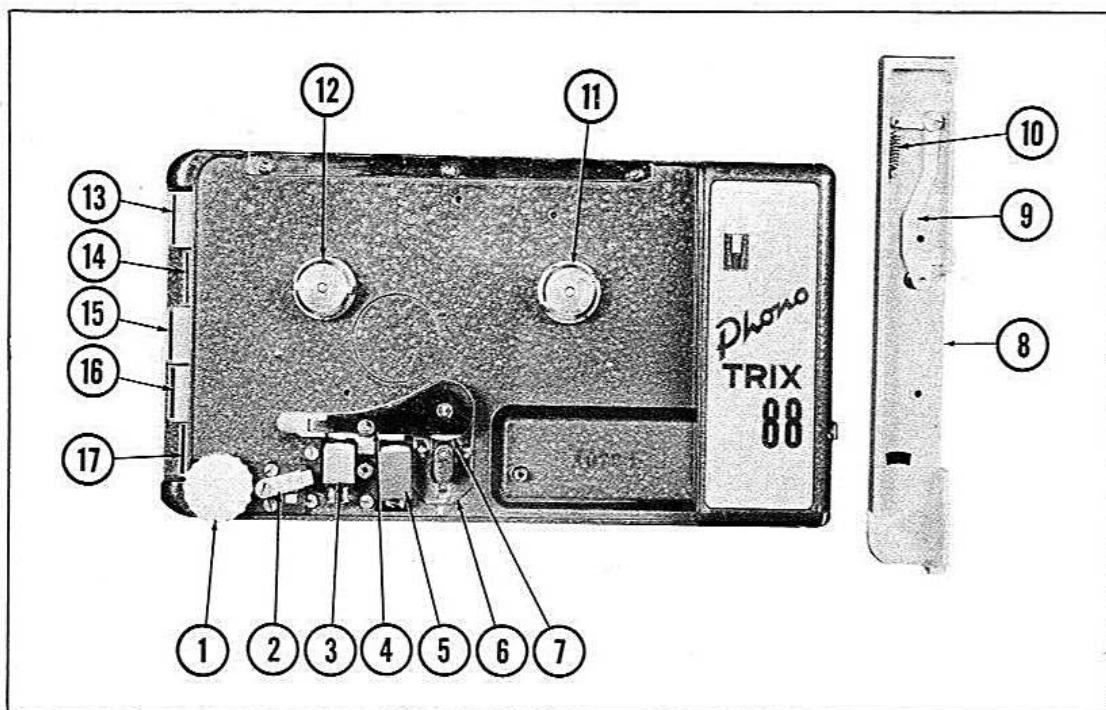


FIG. 1 TOP VIEW OF MECHANISM WITH COVERS REMOVED

Turn the full reel over and place it on the supply (left) spindle. Place the empty reel on the take-up (right) spindle. Rethread the tape and continue the recording.

Rewind

The rewind key is marked with a double arrow. When the key is pushed in, the record button is released. This prevents accidental erasing. The tape will rewind onto the supply (left) spindle at a rapid speed.

Playback

1. Connect the earphone to the output jack.
2. Thread the tape.
3. Depress the Playback key.
4. Depress the Forward key.

5. Adjust the Volume control to the desired listening level.

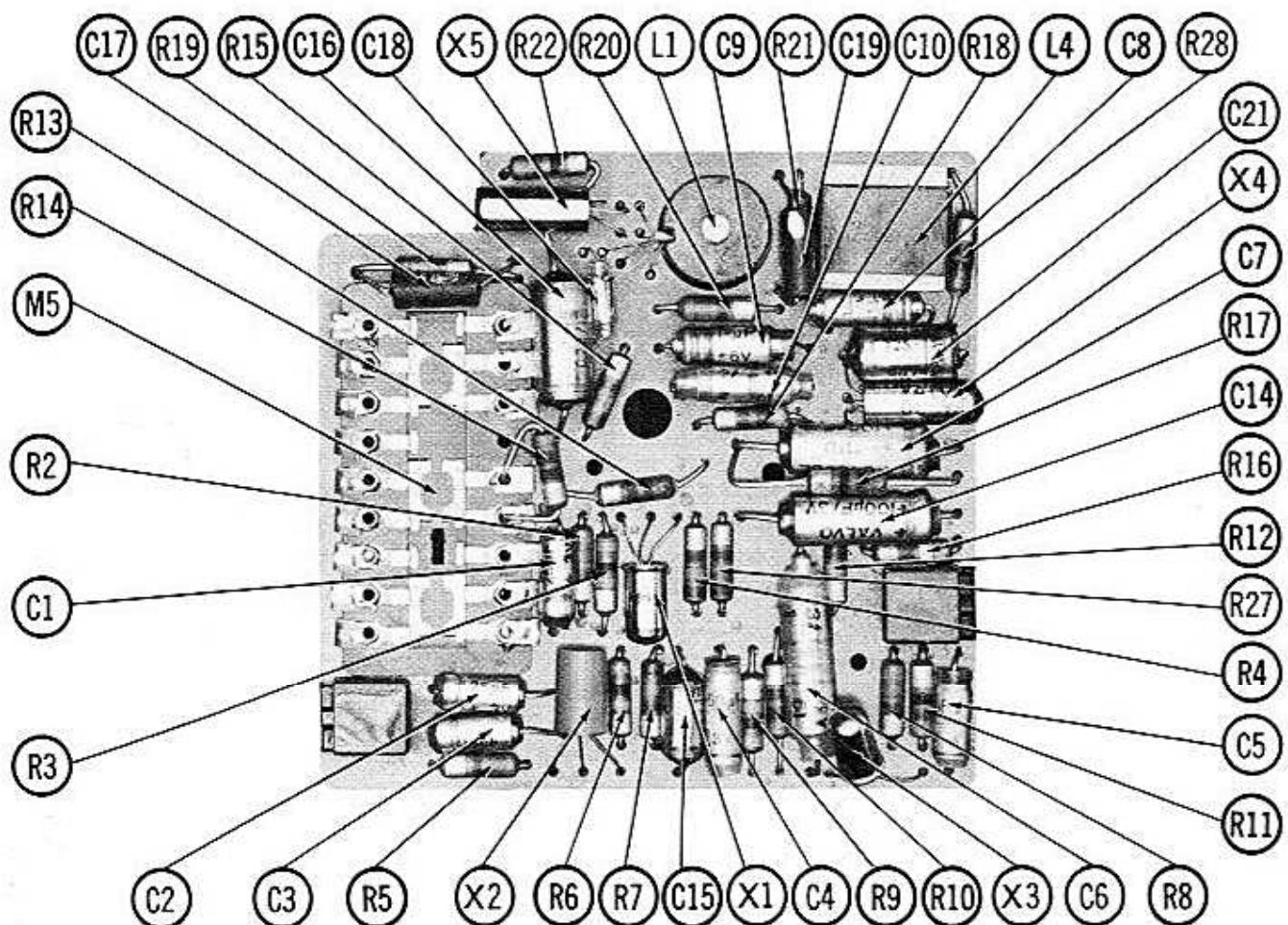
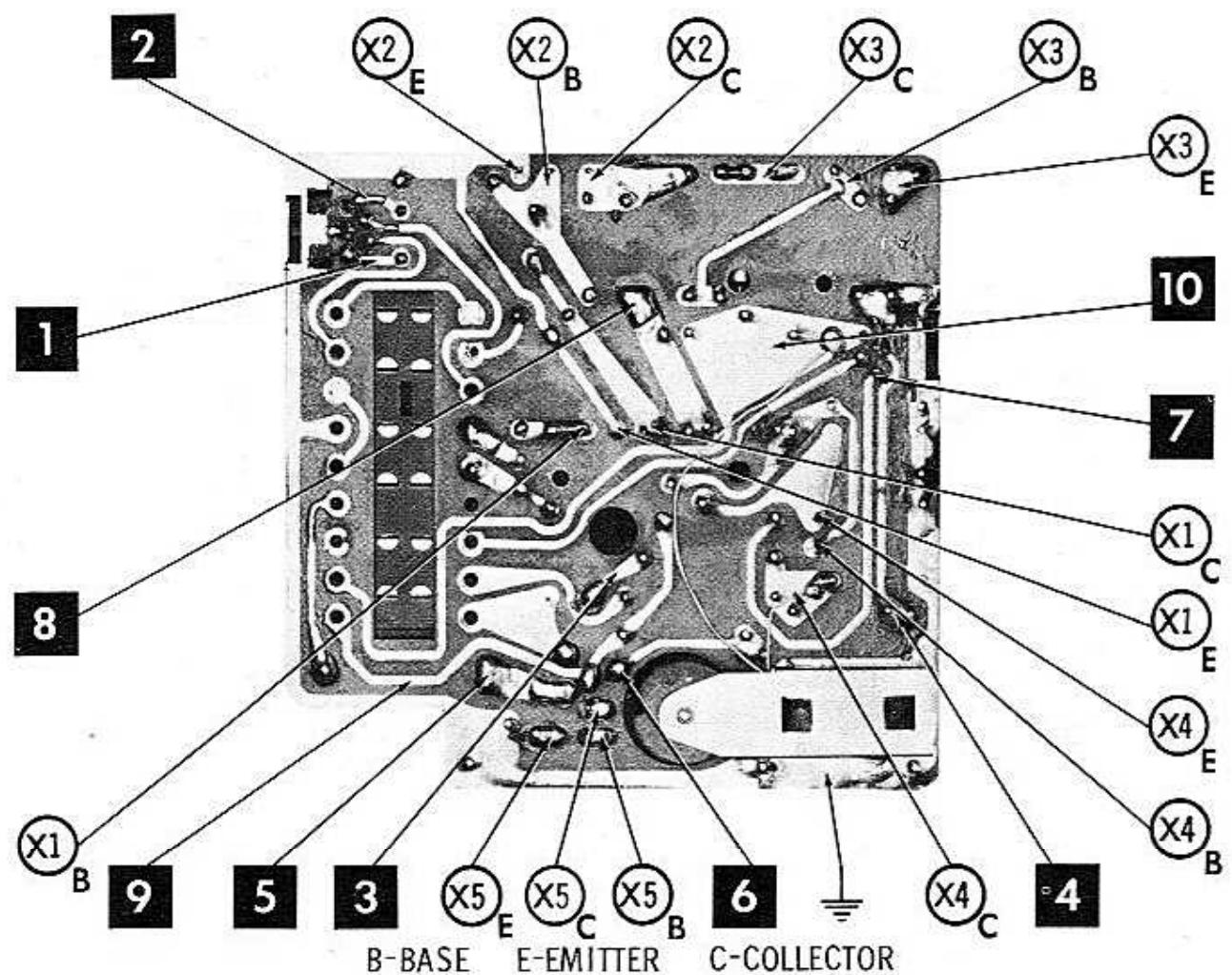
Playback through a Radio

Connect one end of a patch cord across the volume control of the radio. Plug the other end to the recorder output jack. The volume can be controlled from either the radio or recorder.

Erasing Tape

A tape is automatically erased before new material is recorded. To erase tape without recording new material, depress the Record key and the Forward key. Turn the Volume control to its minimum position. After one track is erased, reverse the reels, rethread the tape, and repeat the procedure.

MODELS 88, 88B, 8810
PHONO TRIX



PREAMP PARTS LIST AND DESCRIPTIONS

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA		NOTES
			RCA PART No.	RAYTHEON PART No.	
X1	TR65	AF Amplifier	2N408		
X2	OC803*	AF Amplifier	2N408		
X3	TR65	AF Amplifier	2N408		
X4	OC74*	AF Amplifier	2N408		
X5	OC76*	Driver	2N360		
X6	OC74*	Bliss Oscillator	2N408		
		Motor Speed Control	2N408		

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	CAP. VOLT.	Phone Trix PART No.	AEROVOX PART No.	REPLACEMENT DATA		NOTES
					GENERAL ELECTRIC PART No.	MALLORY PART No.	
C1	.25	3	346/C1				
C2	.25	3	346/C3				
C3	.25	3	Note 1	346/C2			
C4	.50	3	Note 1	346/C1			
C5	.5	70	363/C6				
C6	.50	4	Note 1	349/C1			
C7	.100	3	349/C9	PTT23	NLW100-6	MLV50-6	TE-100
C8	.10	6	345/C10	PTT23	NLW10-6	MLV100-3	TE-039.5
C9	.10	6	345/CU	PTT6	NLW10-6	MLV10-6	TE-087
C10	.10	3	345/C16	PTT20	NLW50-10	MLV10-3	TE-053
C11	.50	6	347I	PTT30	NLW10-25	MLV50-6	TE-100
C12	.25	6			NLW10-25	MLV10-6	TE-1032
C13	.100	6	350/C19		NLW100-12	MLV100-6	TE-102
C14	.100	3	349/C4		NLW100-12	MLV100-3	TE-1059.5

Note 1. Some versions may use 25mf in this application.

FIXED CAPACITORS

REPLACEMENT DATA

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	ELMENCO PART No.	MALLORY PART No.	REPLACEMENT DATA	
							SPRAGUE PART No.	NOTES
C15	.047 125V	#354/C21					25WF-S47	
C16	.22 125V	#344/C10						
C17	.005							
C18	.006							
C19	.005							
C20	.006							
C21	.1 125V							

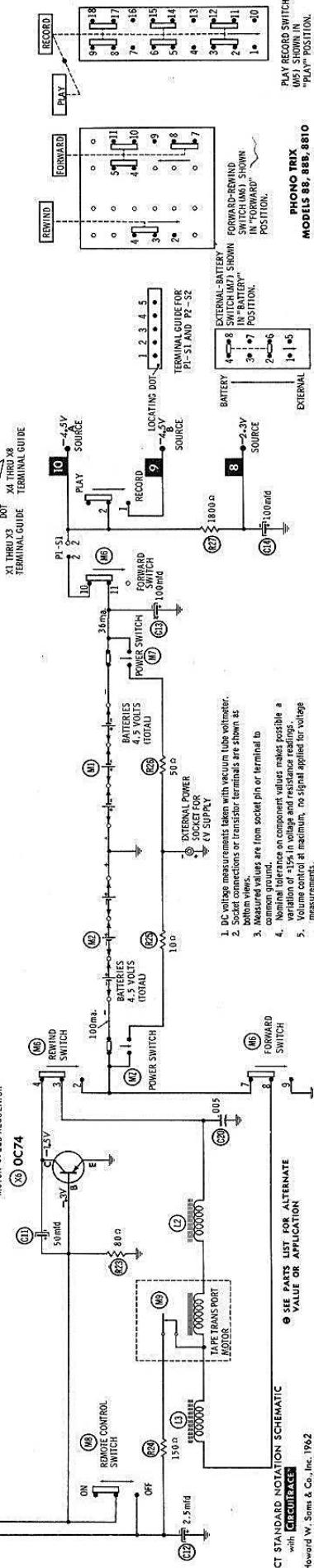
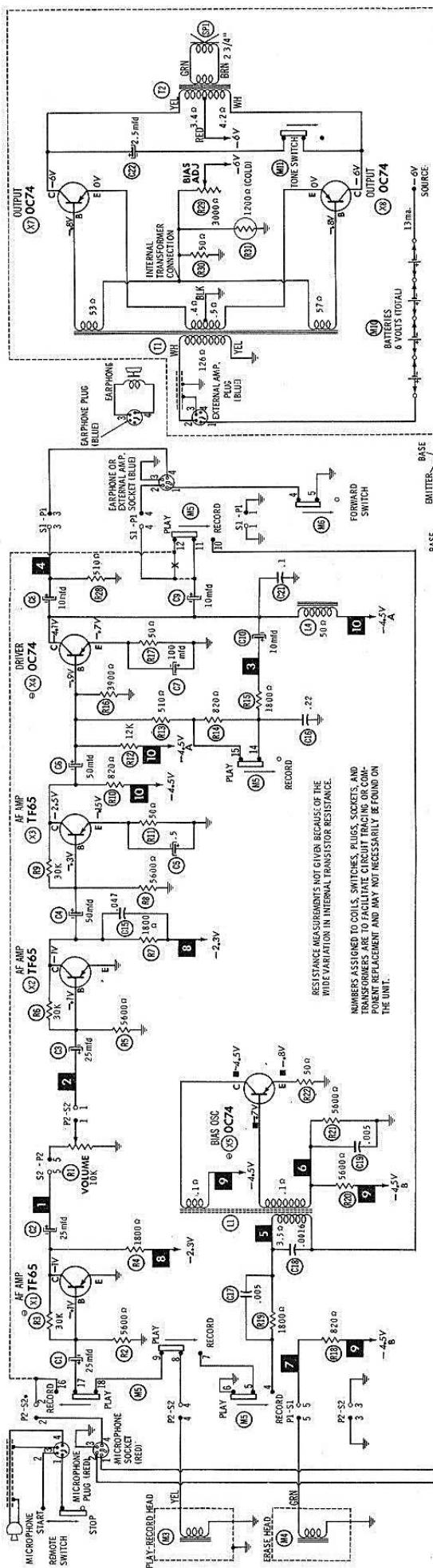
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	ELMENCO PART No.	MALLORY PART No.	REPLACEMENT DATA	
							SPRAGUE PART No.	NOTES
R16	3900Q							
R17	50Ω							
R18	82Ω							
R19	180Ω							
R20	58Ω							
R21	58Ω							
R22	50Ω							
R23	80Ω							
R24	15Ω							
R25	10Ω							
R26	50Ω							
R27	51Ω							
R28	51Ω							

COILS (RF-IF)

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	ELMENCO PART No.	MALLORY PART No.	REPLACEMENT DATA	
							SPRAGUE PART No.	NOTES
L1	Bias Osc.						20T	
L2	Motor Choke						29B	
L3	Motor Choke						29B	

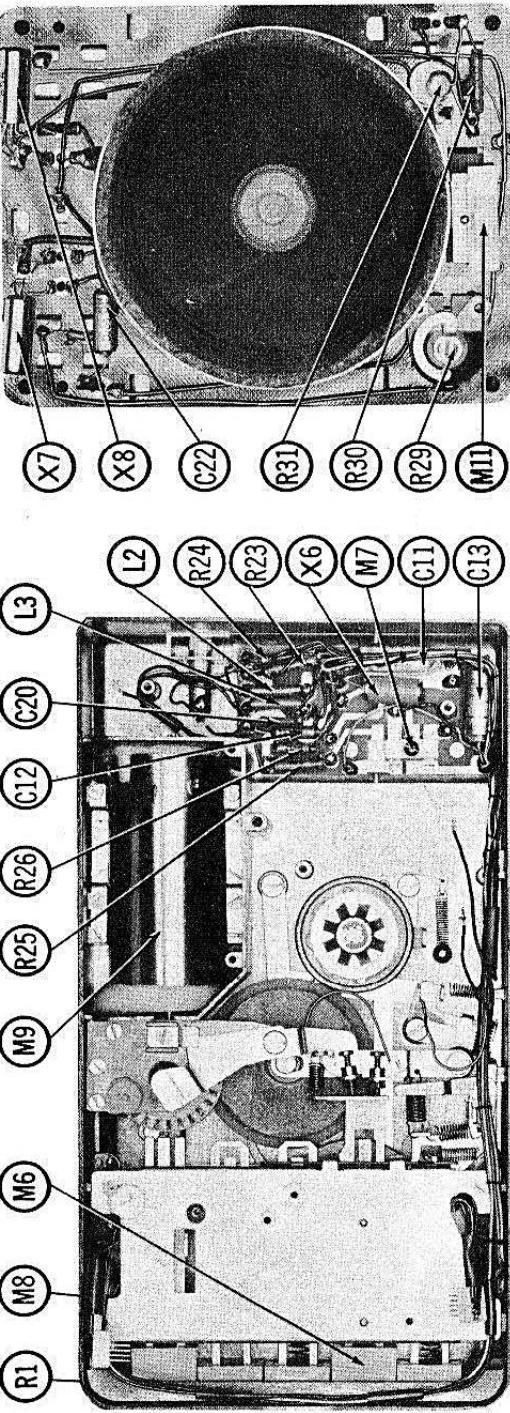
DRIVER CHOKE

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	ELMENCO PART No.	MALLORY PART No.	REPLACEMENT DATA	
							SPRAGUE PART No.	NOTES
L4	50Ω						5HR-D50	
							5HR-D55	
							5HR-D50	
							5HR-D50	
							5HR-D50	



PLAY RECORD SWITCH
SWITCHES SHOWN IN
"PLAY" POSITION.

PHONO TRIM
MODELS 88, 88B, 8810



A PHOTOFACSIMILE SCHEMATIC
with CIRCUITACE
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1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections or transistor terminals 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 to voltage measurements.

INTERNAL BATTERY
SWITCHES SHOWN IN
"PLAY" POSITION.
TERMINAL GUIDE
FOR PI-STAND PZ-52

PI STAND PZ-52
TERMINAL GUIDE
X1 THRU X3 DOT
X4 THRU X8
TERMINAL GUIDE
FOR PI-STAND PZ-52

PLAY RECORD SWITCH
SWITCHES SHOWN IN
"PLAY" POSITION.