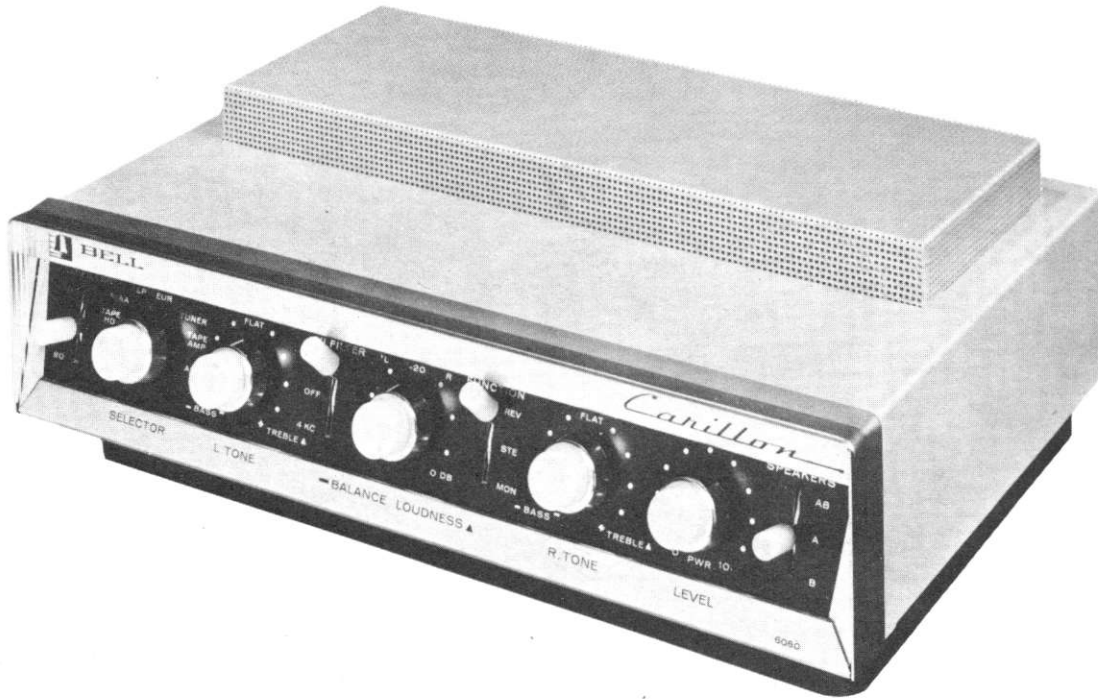




BELL SOUND
MODEL 6060



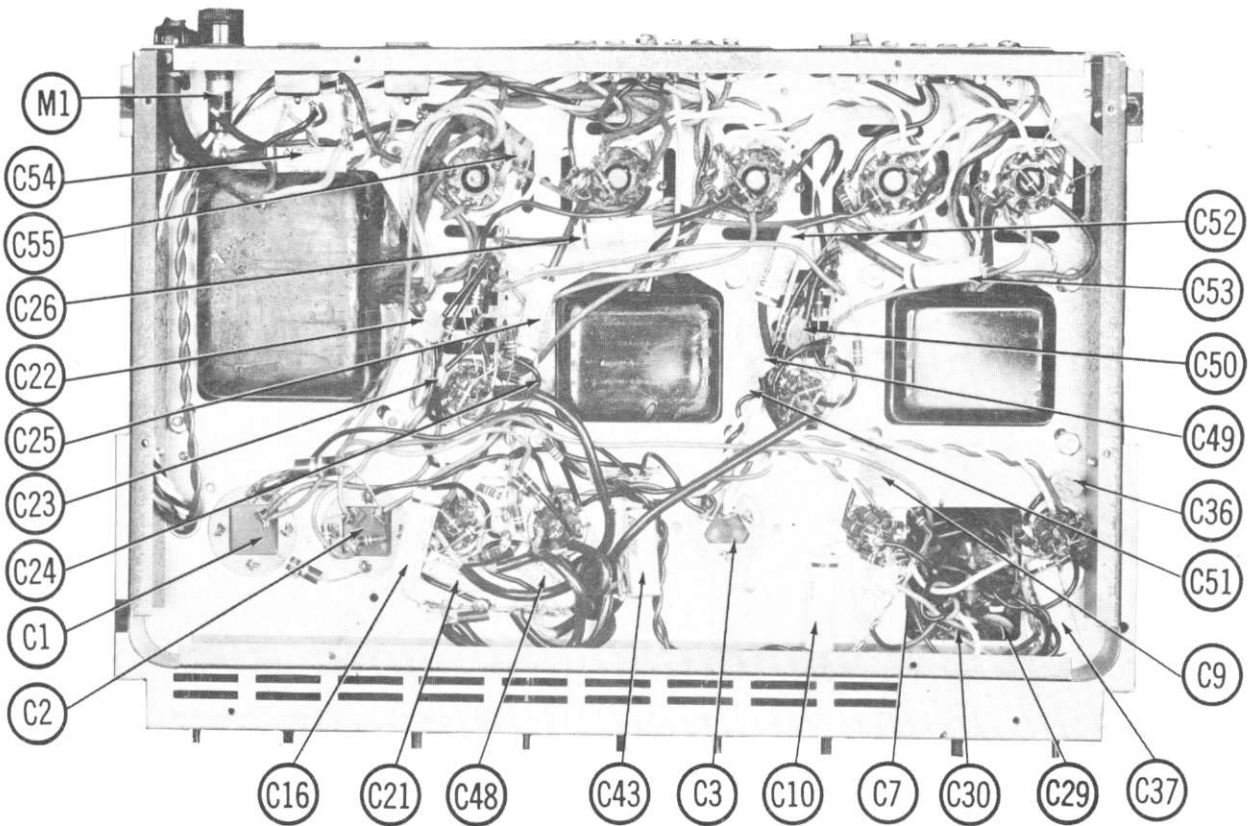
BELL SOUND
MODEL 6060

TRADE NAME	Bell Sound Model 6060		
MANUFACTURER	Bell Sound Div., Thompson Ramo Wooldridge Inc., 555 Marlon Road, Columbus, Ohio		
TYPE SET	AC Operated 11 Tube Stereo Amplifier		
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING	230 Watts, 2.2 Amp. @ 117 Volts AC

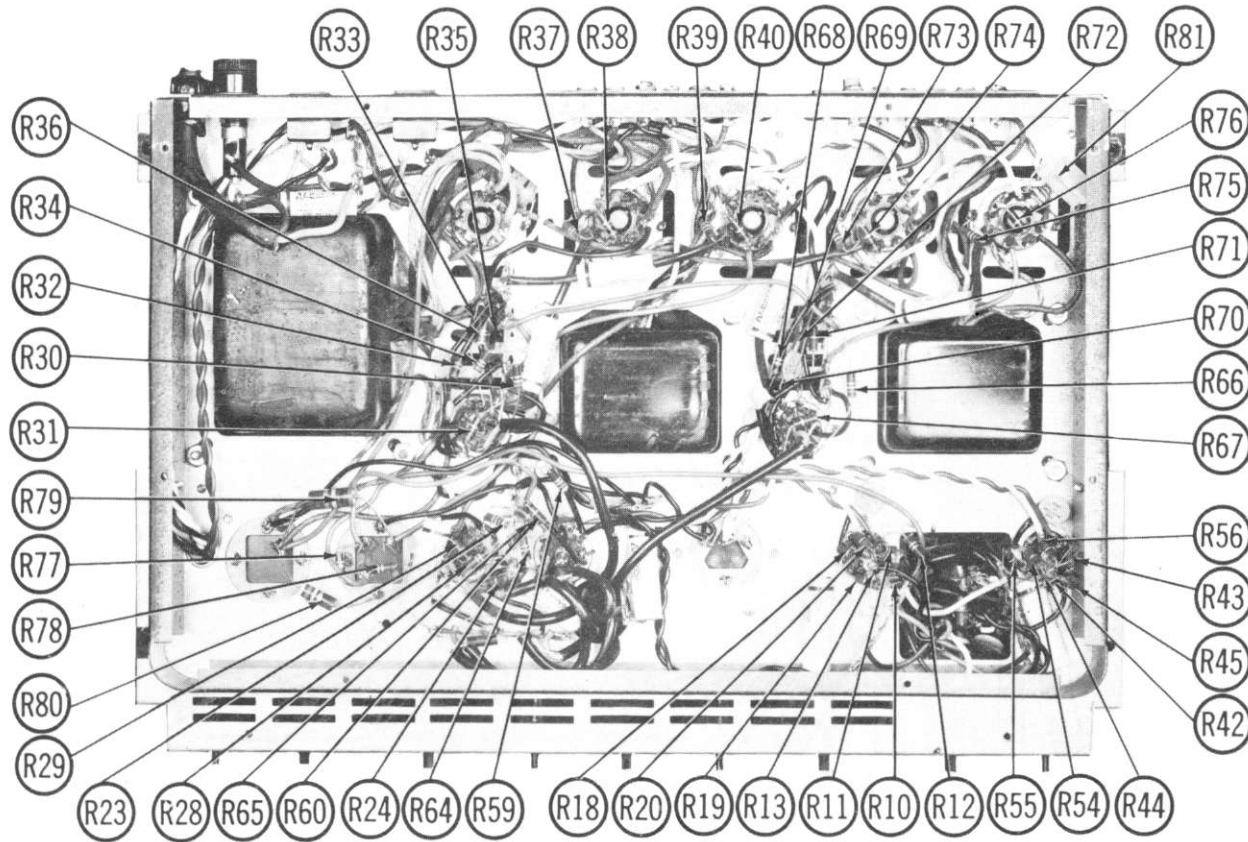
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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 JV313

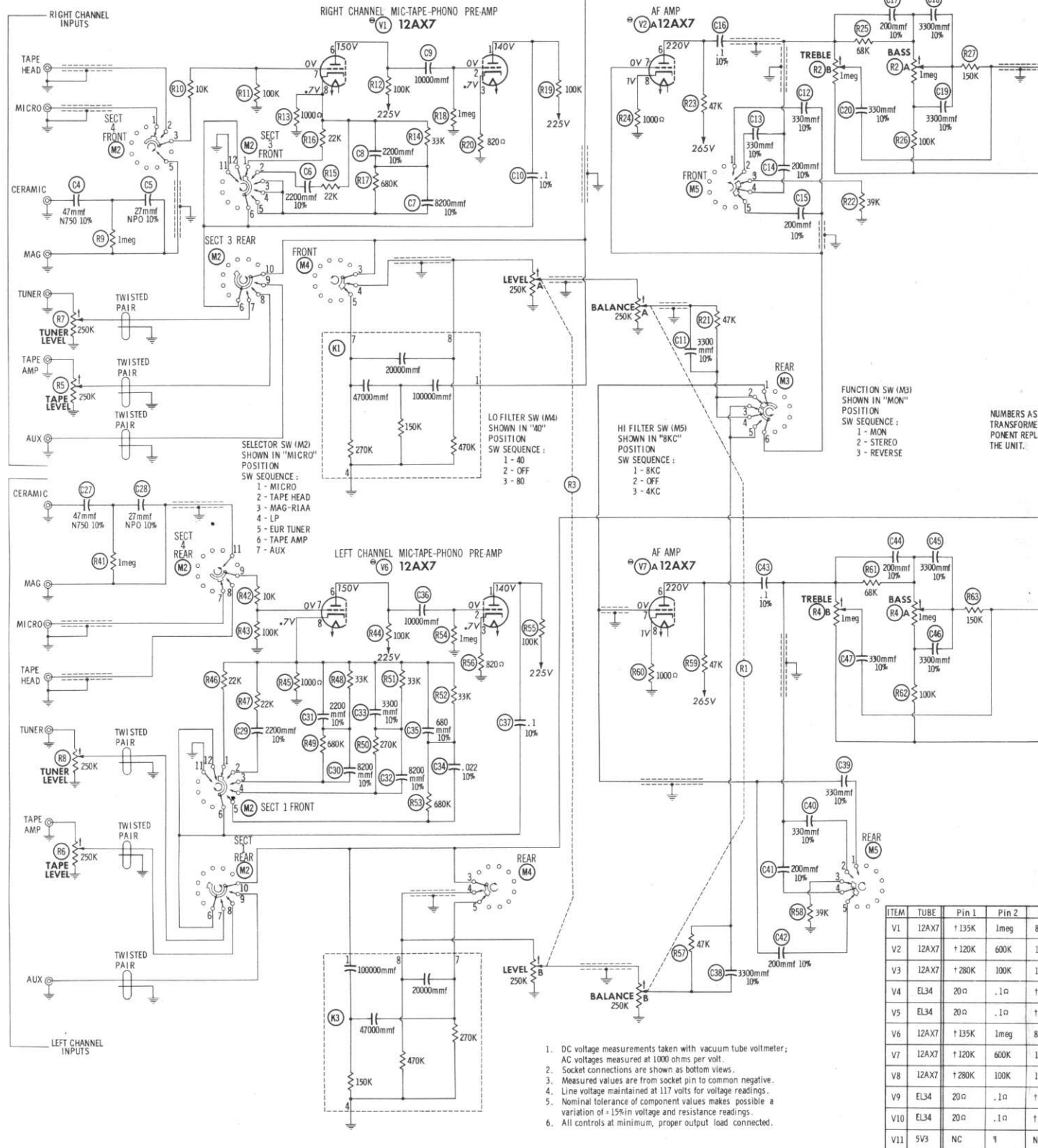
the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1959 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America



CHASSIS BOTTOM VIEW - CAPACITOR & MISC. IDENT.



CHASSIS BOTTOM VIEW - RESISTOR IDENT.



FUNCTION SW (M3)
SHOWN IN "MON"
POSITION
SW SEQUENCE:
1 - MON
2 - STEREO
3 - REVERSE

NUMBERS ASS
TRANSFORMER
POINT REPLA
THE UNIT.

SELECTOR SW (M2)
SHOWN IN "MICRO"
POSITION
SW SEQUENCE:
1 - MICRO
2 - TAPE HEAD
3 - MAG-RIAA
4 - LP
5 - EUR TUNER
6 - TAPE AMP
7 - AUX

LO FILTER SW (M4)
SHOWN IN "40"
POSITION
SW SEQUENCE:
1 - 40
2 - OFF
3 - 80

HI FILTER SW (M5)
SHOWN IN "8K"
POSITION
SW SEQUENCE:
1 - 8K
2 - OFF
3 - 4K

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

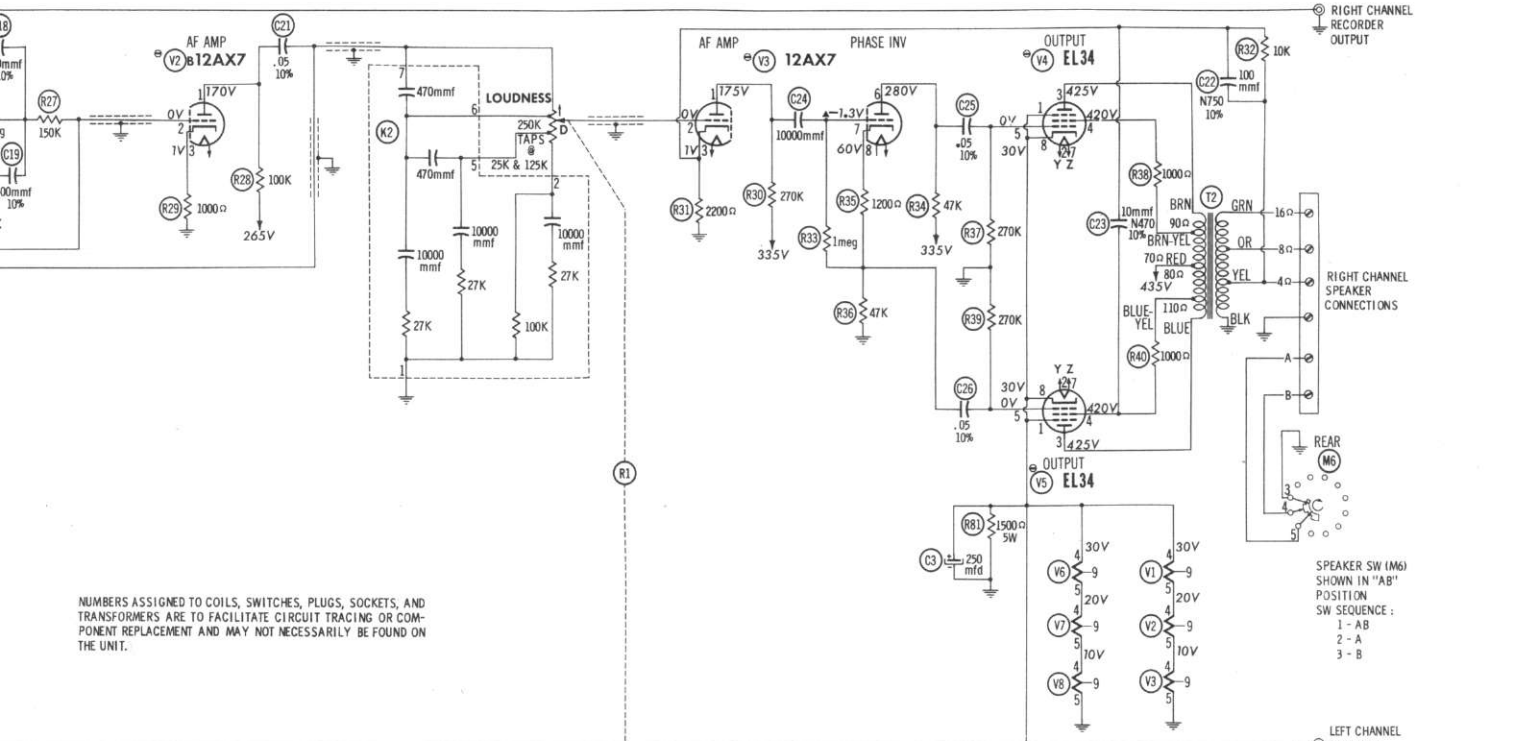
ITEM	TUBE	Pin 1	Pin 2
V1	12AX7	† 135K	1meg
V2	12AX7	† 120K	600K
V3	12AX7	† 280K	100K
V4	EL34	20Ω	.1Ω
V5	EL34	20Ω	.1Ω
V6	12AX7	† 135K	1meg
V7	12AX7	† 120K	600K
V8	12AX7	† 280K	100K
V9	EL34	20Ω	.1Ω
V10	EL34	20Ω	.1Ω
V11	5V3	NC	†

† THIS READING WILL VARY DE
 † MEASURED FROM PIN 8 OF V1
 † MEASURED FROM PIN 8 OF V3
 † MEASURED FROM PIN 8 OF V8

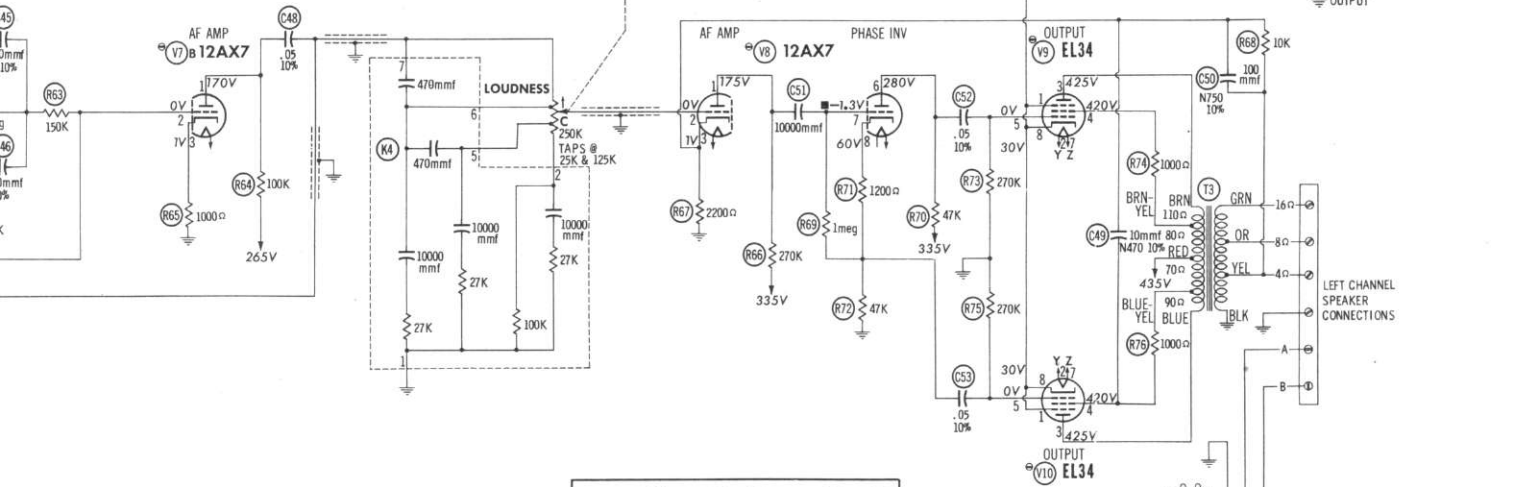
● SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)



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.

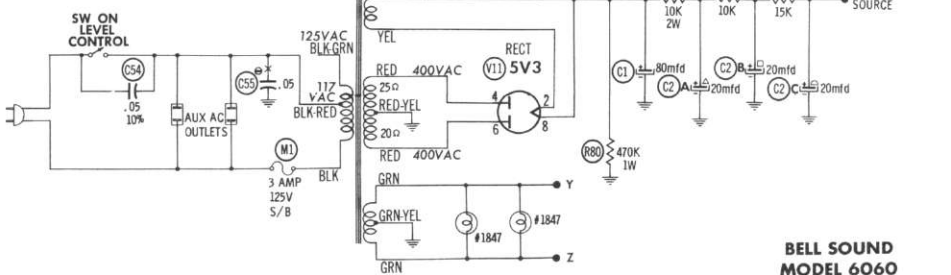
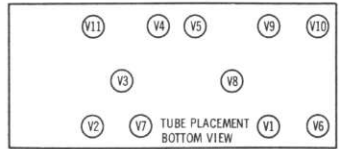


RESISTANCE READINGS

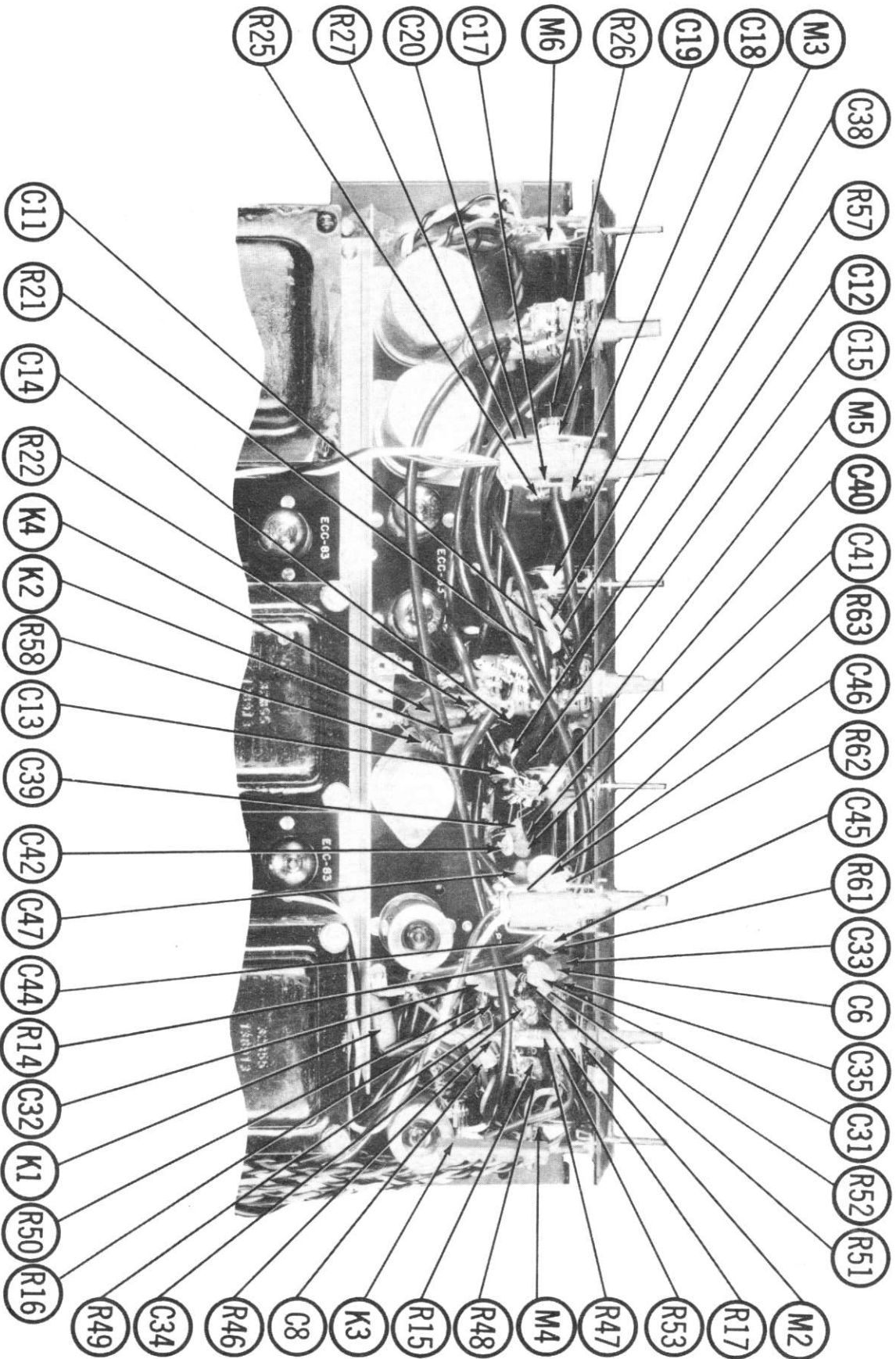
	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	+135K	1meg	820Ω	20Ω	17Ω	+135K	100K	1000Ω	18Ω
V2	+120K	600K	1000Ω	17Ω	10Ω	+67K	47K	1000Ω	14Ω
V3	+280K	100K	1800Ω	10Ω	0Ω	+57K	1meg	48K	5Ω
V4	20Ω	.1Ω	+160Ω	+1000Ω	270K	TP	.1Ω	20Ω	
V5	20Ω	.1Ω	+190Ω	+1000Ω	270K	TP	.1Ω	20Ω	
V6	+135K	1meg	820Ω	20Ω	17Ω	+135K	100K	1000Ω	18Ω
V7	+120K	600K	1000Ω	17Ω	10Ω	+67K	47K	1000Ω	14Ω
V8	+280K	100K	1800Ω	10Ω	0Ω	+57K	1meg	48K	5Ω
V9	20Ω	.1Ω	+190Ω	+1000Ω	270K	TP	.1Ω	20Ω	
V10	20Ω	.1Ω	+160Ω	+1000Ω	270K	TP	.1Ω	20Ω	
V11	NC	†	NC	25Ω	NC	20Ω	NC	†	

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
 † MEASURED FROM PIN 8 OF V11.
 † MEASURED FROM PIN 8 OF V3.
 † MEASURED FROM PIN 8 OF V8.

NC NO CONNECTION
 TP TIE POINT



BELL SOUND
 MODEL 6060



CHASSIS TOP VIEW - CONTROL PANEL REAR

PARTS LIST AND DESCRIPTIONS

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
 Power Cord Use BELDEN No. 8524 (Stranded) Available in Ten Colors
 Use BELDEN No. 1785-B (6 Ft. Length)
 Use BELDEN No. 1785-K (7 1/2 Ft. Length)

TUBES

CBS		GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	USE	ITEM No.	TYPE		
V1	Right Channel Mic-Tape-Phono Preamp.	12AX7 ECC83*	Left Channel Mic-Tape-Phono Preamp.	V6	12AX7 ECC83*		
V2	Right Channel AF Amp.	12AX7 ECC83*	Left Channel AF Amp.	V7	12AX7 ECC83*		
V3	Right Channel AF Amp.	12AX7 ECC83*	Right Channel AF Amp. Inv.	V8	12AX7 ECC83*		
V4	Right Channel Phase Inv.	EL34 6CA7*	Left Channel Phase Inv.	V9	EL34 6CA7*		
V5	Right Channel Output	EL34 6CA7*	Left Channel Output	V10	EL34 6CA7*		
			Rectifier	V11	5V3		

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	BELL SOUND PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLOY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C1	80	500	23B40	AFH1-62	A0560	FP187	TMS-70	TVL-1958	
C2A	20	450	23B11	AFH3-36	C0270	FP376.5	TMT-34	TVL-3760	
C3	250	50	23B42	AFHS1-94-24		CP117	TMS-14	TVL-1324	
						TC3501			

CAPACITORS (cont)

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	BELL SOUND PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLOY PART No.	SPRAGUE PART No.		
C22	100	N750	24B20	N750-DI 100	C107TU	CNT-310	5TCU-T15	10%*	
C23	10	N470	24B71	DI-10000	BYA10S1	B-110	5HK-S1	10%*	
C24	10000		24B81	V84C4S47	PM4S5	GTM-4147	4TM-S5	10%*	
C25	.05	400	28B4	N750-DI 47	PM4S5	GTM-4147	4TM-S5	10%*	
C26	.05	400	28B4	V84C4S47	C10047U	CNT-447	5TCU-Q47S	10%*	
C27	47	N750	24B55	N750-DI 47	C10027C	CNO-427	5TCU-Q27S	10%*	
C28	27	NPO	24B72	DI-2200		JL-222	5GA-D22S	10%*	
C29	2200		24B17	DI-2200		JL-222	5GA-D22S	10%*	
C30	8200		24B57	DI-2200		JL-222	5GA-D22S	10%*	
C31	2200		24B17	DI-3300		JL-233	5GA-D22S	10%*	
C32	8200		24B57	V84C2S22	PM4S22	GTM-1122	5GA-D22S	10%*	
C33	3300		24B22	DI-680	MD-681	JL-368	5GA-T08S	10%*	
C34	.022	50	28B7	DI-10000	MD-103	EL10	5HK-S1	10%*	
C35	680		28B6	V84C4P1		GTM-401	4TM-P1	10%*	
C36	10000		28B6	V84C4P1		GTM-401	4TM-P1	10%*	
C37	3300		24B22	DI-3300	MD-331	L10T33	5GA-D33S	10%*	
C38	3300		24B22	DI-330	MD-331	L10T33	5GA-T33S	10%*	
C39	330		24B75	DI-330	MD-331	L10T33	5GA-T33S	10%*	
C40	330		24B75	DI-200	MD-201	L10T2	5GA-T2S	10%*	
C41	200		24B76	DI-200	MD-201	L10T2	5GA-T2S	10%*	
C42	200		24B76	V84C4P1		GTM-401	4TM-P1	10%*	
C43	.1	400	28B6	DI-200	MD-201	L10T2	5GA-T2S	10%*	
C44	200		24B76	DI-200	MD-201	L10T2	5GA-T2S	10%*	
C45	3300		24B22	DI-3300		JL-233	5GA-D33S	10%*	
C46	3300		24B22	DI-3300		JL-233	5GA-D33S	10%*	
C47	330		24B75	DI-330		JL-333	5GA-T33S	10%*	
C48	.05	400	28B4	V84C4S47		5GTM-4147	4TM-S5	10%*	
C49	10	N470	24B71	N750-DI 100	DTN-100	CNT-71	5TCU-T15	10%*	
C50	100	N750	24B20	DI-10000	MD-103	BYA10S1	5HK-S1	10%*	
C51	10000		24B81	V84C4S47		GTM-4147	4TM-S5	10%*	
C52	.05	400	28B4	V84C4S47		GTM-4147	4TM-S5	10%*	
C53	.05	400	28B4	V84C4S47		GTM-4147	4TM-S5	10%*	
C54	.05	400	28B4	P488N-05	DF-503	GEM-415	4TM-S5	10%*	
C55	.05	400	28B4					①	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

① Not used in some versions.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA						INSTALLATION NOTES
	RESIST. ANCE	WATTS	BELL SOUND PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLOY PART No.		
RIA	250K		15B42					Balance, Right Channel	
B	250K							Balance, Left Channel	
C	250K *							Loudness, Left Channel	
D	250K *							Loudness, Right Channel	
R2A	Imeg		F1-51			QJ-111IR	UE4031	Treble, Right Channel	
R3A	250K		R2-51					Treble, Left Channel	
B	250K							Push Pull, Off-On	
C	Switch							Bas. Left Channel	
R4A	Imeg		F1-51			QJ-111IR	UE4031	Bas. Right Channel	
R5A	Imeg		R2-51					Level, Right Channel	
B	250K		AB-51					Level, Left Channel	
B	250K		AK-1					Bas. Left Channel	
R6A	250K		AB-51					Tape Level, Right Channel	
B	250K		AK-1					Tape Level, Left Channel	
R7A	250K		AB-1					Tuner Level, Right Channel	
B	250K		AK-1					Tuner Level, Left Channel	
R8A	250K		AK-1					Tuner Level, Right Channel	
B	250K		AK-1					Tuner Level, Left Channel	

* "STA-LOC" equivalent: FA161, RU16L, OS750A, IS1082

* Taps @ 25K and 125K.

* "Concentrik". Equivalent: K-2 Kit with base elements and shafts: BIL-137, PI-1024 (Panel)

* Not available as a factory assembled unit.

MODEL 6060

BELL SOUND

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	BELL SOUND PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLOY PART No.	SPRAGUE PART No.		
C4	47	N750	24B55	N750-DI 47	DTN-47	C10047U	CNT-447	5TCU-Q47S	10%*
C5	27	NPO	24B72	DI-2200	DI-2200	C10027C	CNO-427	5TCU-Q27S	10%*
C6	2200		24B17	DI-10000	BYA10S1	B-110	5HK-S1	5GA-D22S	10%*
C7	8200		24B57	V84C4P1		GTM-401	4TM-P1	5GA-D22S	10%*
C8	2200		24B17	DI-3300	MD-103	BYA10S1	B-110	5HK-S1	10%*
C9	10000		28B6	DI-3300	MD-103	BYA10S1	B-110	5HK-S1	10%*
C10	.1	400	28B6	DI-3300	MD-103	BYA10S1	B-110	5HK-S1	10%*
C11	3300		24B22	DI-3300	MD-331	L10T33	GTM-401	5GA-D33S	10%*
C12	330		24B75	DI-330	MD-331	L10T33	JL-233	5GA-T33S	10%*
C13	330		24B75	DI-330	MD-331	L10T33	JL-233	5GA-T33S	10%*
C14	200		24B76	DI-200	MD-201	L10T2	JL-333	5GA-T2S	10%*
C15	200		24B76	DI-200	MD-201	L10T2	JL-333	5GA-T2S	10%*
C16	.1	400	28B6	V84C4P1		GTM-401	GTM-4P1	4TM-P1	10%*
C17	200		24B76	DI-200	MD-201	L10T2	JL-233	5GA-T2S	10%*
C18	3300		24B22	DI-3300	MD-331	L10T33	JL-233	5GA-D33S	10%*
C19	3300		24B22	DI-3300	MD-331	L10T33	JL-233	5GA-D33S	10%*
C20	330		24B75	DI-330	MD-331	L10T33	JL-333	5GA-T33S	10%*
C21	.05	400	28B4	V84C4S47		PM4S5	GTM-4147	4TM-S5	10%*

FOLDER 3

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R10	10K		R60	1000Ω		R60	1000Ω	
R11	100K		R61	68K		R61	68K	
R12	100K		R62	100K		R62	100K	
R13	1000Ω		R63	150K		R63	150K	
R14	33K		R64	100K		R64	100K	
R15	22K		R65	1000Ω		R65	1000Ω	
R16	22K		R66	270K		R66	270K	
R17	680K		R67	2200Ω		R67	2200Ω	
R18	1meg		R68	10K		R68	10K	
R19	100K		R69	1meg		R69	1meg	
R20	820Ω		R70	47K		R70	47K	
R21	47K		R71	1200Ω		R71	1200Ω	
R22	39K		R72	47K		R72	47K	
R23	47K		R73	270K		R73	270K	
R24	1000Ω		R74	1000Ω		R74	1000Ω	
R25	68K		R75	270K		R75	270K	
R26	100K		R76	1000Ω		R76	1000Ω	
R27	150K		R77	15K		R77	15K	
R28	100K		R78	10K		R78	10K	
R29	1000Ω		R79	10K 2W		R79	10K 2W	
R30	270K		R80	470K 1W		R80	470K 1W	
R31	2200Ω		R81	1500Ω 5W		R81	1500Ω 5W	
R32	10K							
R33	1meg							

FUSES

ITEM No.	TYPE	RATING	BELL SOUND PART No.		LITTLE FUSE PART No.		BUSS PART No.
			FUSE	HOLDER	FUSE	HOLDER	
M1	3AG	3A 125V S/B	53A7	53B5	312003. (3AG 3A 125V S/B)	342001	FUSE MDX-3 HOLDER HKP

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	BELL SOUND PART No.	REPLACEMENT DATA
K1	Preamp. Tone Comp. Right Channel	20000mmf, 47000mmf, 100000mmf, 150K, 270K, 470K	91A200	
K2	Loudness Control Tone Comp. -Right Channel	470mmf, 470mmf, 10000mmf, 10000mmf, 10000mmf, 27K, 27K, 27K, 100K	91A198	
K3	Preamp. Tone Comp. Left Channel	20000mmf, 47000mmf, 100000mmf, 150K, 270K, 470K	91A200	
K4	Loudness Control Tone Comp. -Left Channel	470mmf, 470mmf, 10000mmf, 10000mmf, 10000mmf, 27K, 27K, 27K, 100K	91A198	

MISCELLANEOUS

ITEM No.	PART NAME	BELL SOUND PART No.	NOTES
M2	Switch	43B39	Selector (Rotary Wafer Type)
M3	Switch	43B42	Function (DPTT Lever Type)
M4	Switch	43B47	Lo Filter (DPTT Lever Type)
M5	Switch	43B46	Hi Filter (DPTT Lever Type)
M6	Switch	43B41	Speaker (DPTT Lever Type)

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	84A28	Large Inner Concentric
Knob	84A27	Small Outer Concentric
Knob	84A26	Integral
Knob	84A29	Push-On, Lever
Front Panel	94C28	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA						
	PRI.	SEC. 1	SEC. 2	BELL SOUND PART No.	Hollidson PART No.	Merit PART No.	Ram PART No.	Stencor PART No.	Thordarson PART No.	Triod PART No.
T1	125V Tap ① 117V ② 2.2A SEC. 3 ③ 6.3VCT ④ 6.3A	5V ③ .300A ④ 3.8A		32B43						R-24B ①

① 117VAC Primary only.