BELL SOUND MODEL 2420

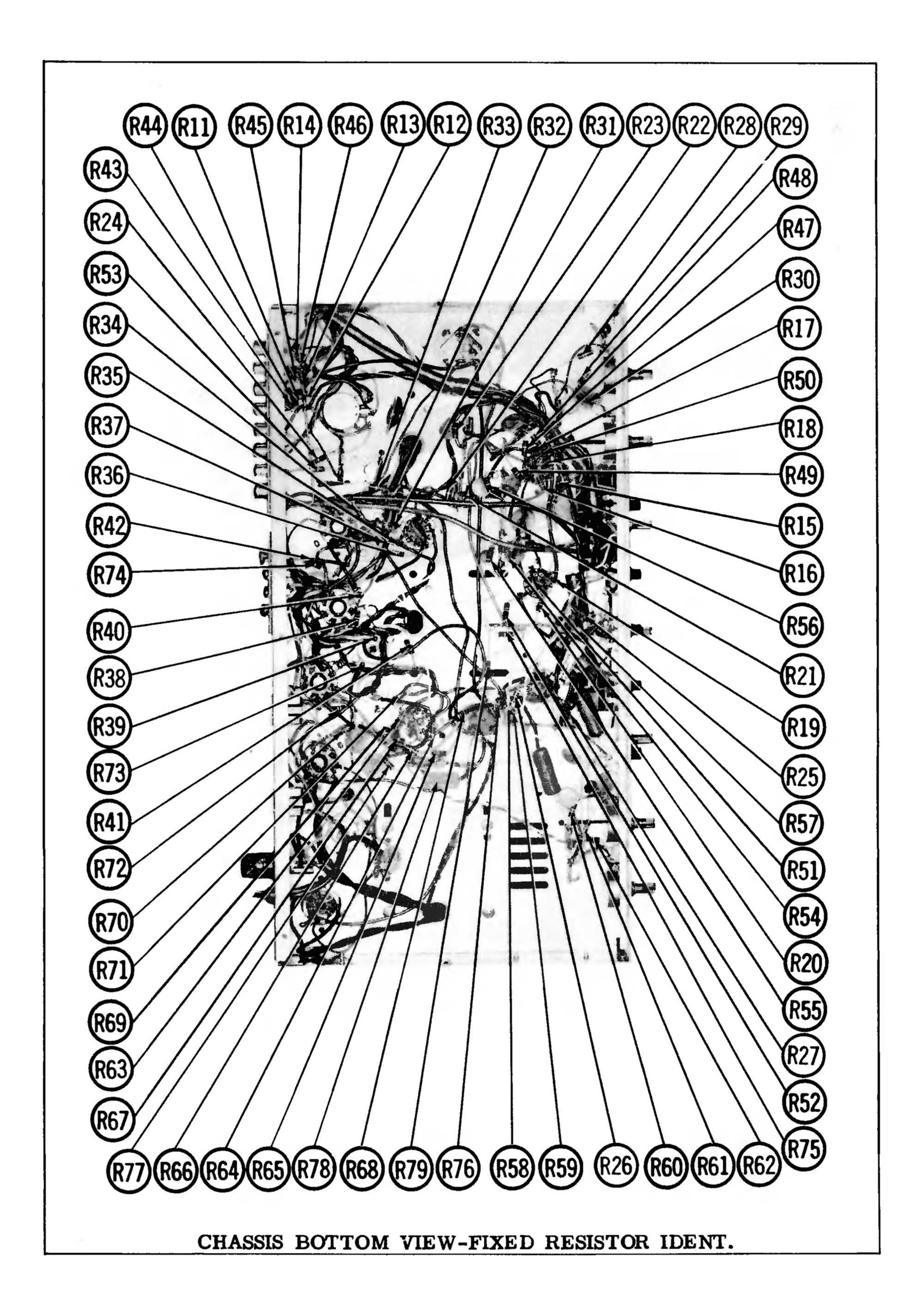


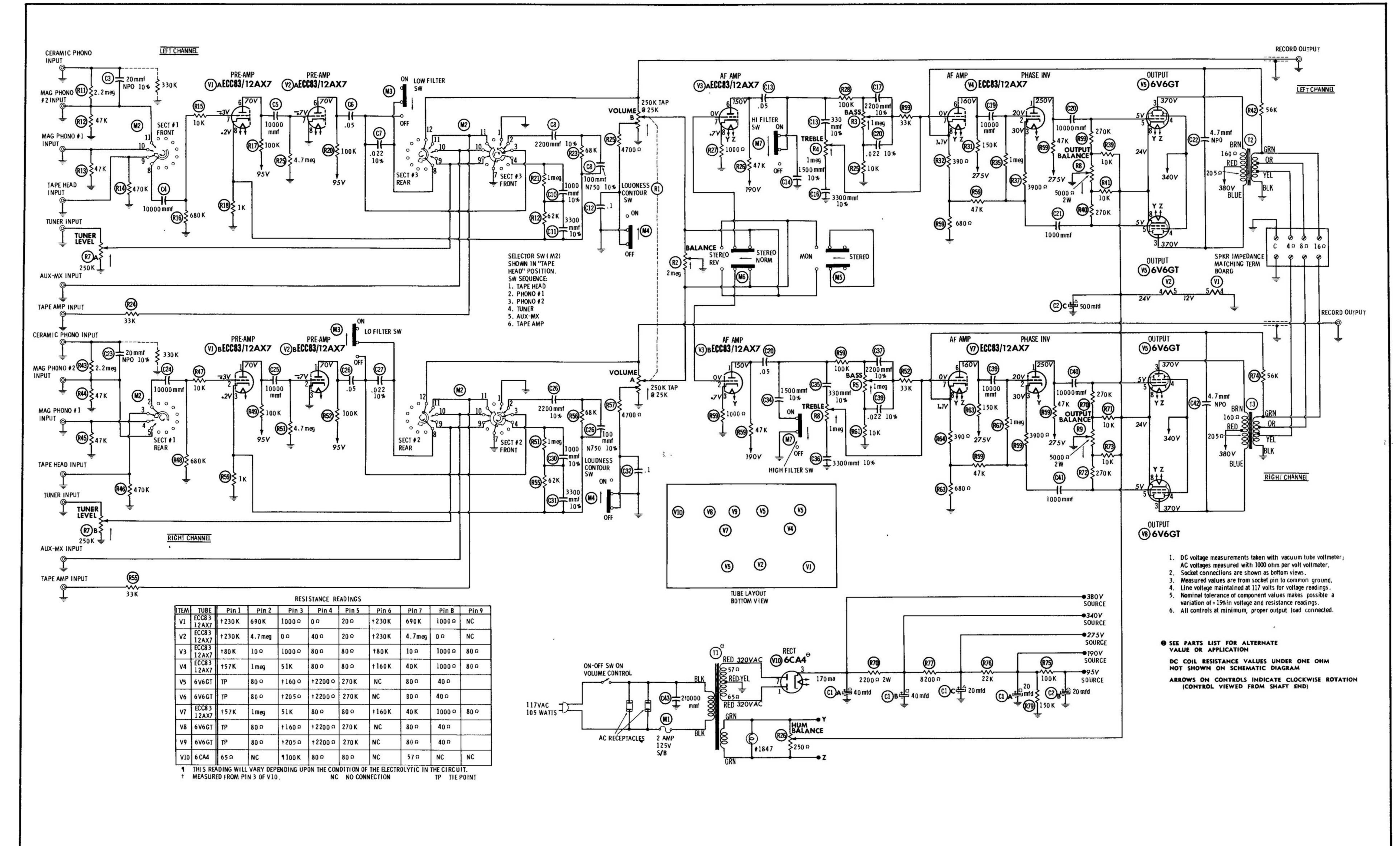
TRADE NAME Bell Sound Model 2420

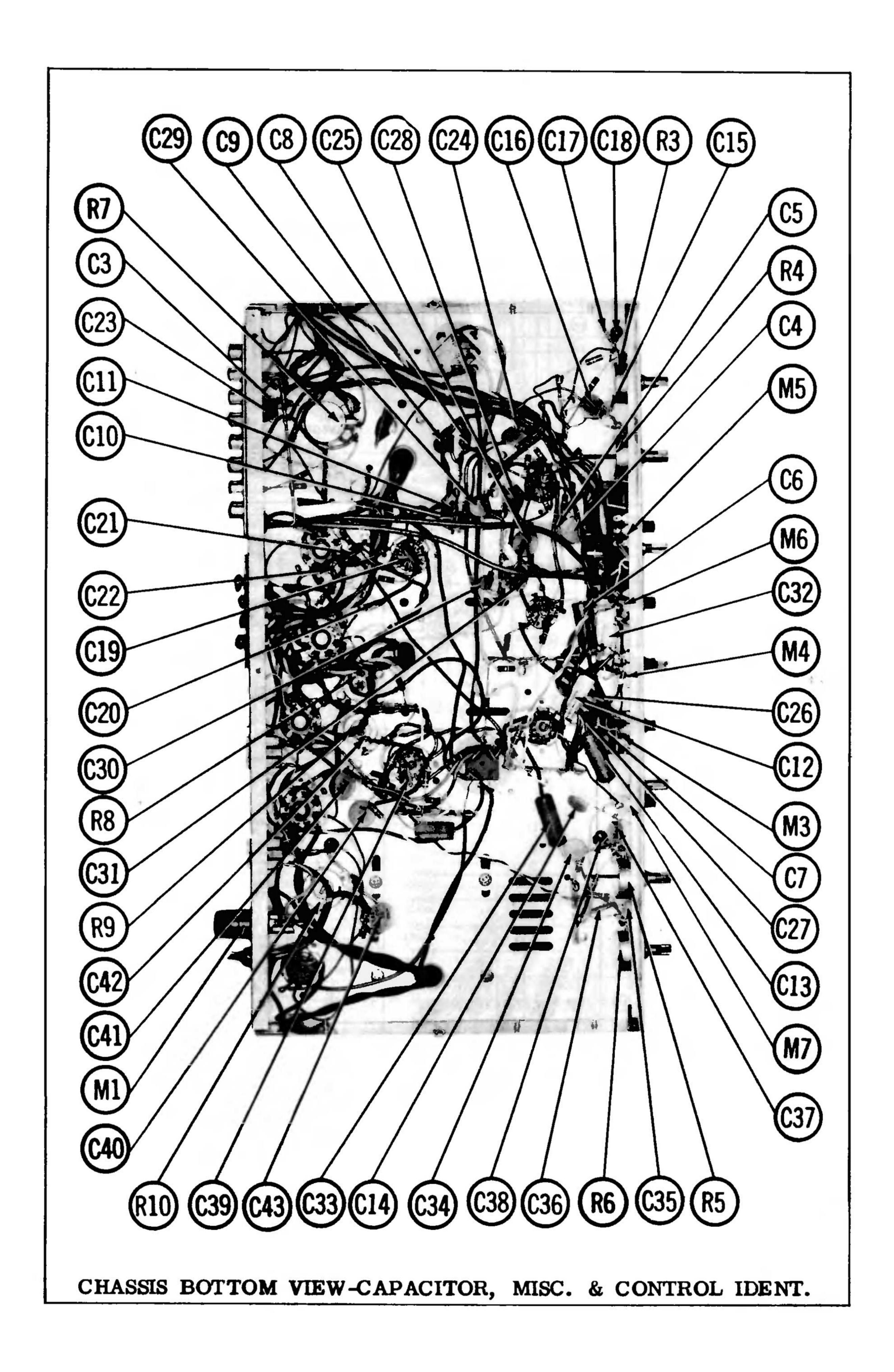
MANUFACTURER Bell Sound Div., Thompson Ramo Wooldridge Inc., 555 Marion Road, Columbus 7, Ohio

TYPE SET AC Operated 10 Tube Stereo Amplifier

POWER SUPPLY 110 - 120 Volts AC, 60 Cycles RATING 105 Watts, . 94 Amp. @ 117 Volts AC







PARTS LIST AND DESCRIPTIONS

TUBES

RAYTHEON SYLVANIA GENERAL ELECTRIC ITEM No. No. USE TYPE TYPE USE V5 V6 V7 Left Channel Preamp. -6V6GT Left Channel Output ECC83/12AX7 5V5GT Right Channel Preamp. Left Channel Output Left Channel Preamp. -Right Channel AF Amp. -ECC83/12AX7 ECC83/12AX7 Right Channel Preamp. Right Channal Phase Inv. Right Channel Output 6V5GT Left Channel AF Amp. -ECC83/12AX7 Right Channel Output 6V6GT Right Channel AF Amp. 6CA4 (EZ81) * Rectifier Left Channel AF Amp. -ECC 83/ 12AX7 Left Channel Phase Inv.

* Alternate

ELECTROLYTIC CAPACITORS

	RATING			REPLACEMENT DATA								
No.	CAP.	VOLT.	Bell Sound PART No.	AEROVOX PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES			
CLA B	.40 .40 .20	450 450 450	23B87	AFH3-43-50	C0330	FP376.9	TMT-3745	TVL-3786				
C2A B	_20 _20 _500	350 350 25	23B86		B0500 BR5002	FP282.5 TC2505	TMD-2640 TD-500-25	TVL-2759 TVA-1209				

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

	, , , , , , , , , , , , , , , , , , ,		T		REPLACE	MENT DATA		
No.	RATING	REMARKS	AEROVOX PART No.	PART No.	CORNELL- DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C3	20 NPO 10%		NPO-DI 20	DTZ-20	C10Q20C	CCTO-200	CNO-422	10TCC-Q20
C4	10000		BPD-0i	DD-103	BYAIOSI	CCD-103	B-110	5HK-810
C5	10000		BPD-01	DD-103	BYA108i	CCD-103	B-110	5HK -810
C5	.05 400V		P488N-05	DD-503	CUB485	4DP-3-503	GEM-415	4TM-850
C7	.022 50V 10%		V84C2622-10%		PM4822	IDP-1-223		2TM-822
C8	2200 10%		DI-2200		PM6D22	CCD-222	GP222	10TS-D22
C9	100 N750 10%		N750-DI 100	DTN-100	C10T1U	CCTN-101	CN7-310	10TC U-T10
C10	1000 10%		DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
CII	3300 10%		DI-3300		PM5D33	CCD-332	JL-233	10TS-D33
C12	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM~P10
C13	.05 400V		P488N-05	DD-503	CUB4S5	4DP-3-503	GEM-415	4TM-850
CI4	1500 10%		DI -1500	DD-152	PM6D15	CCD-152	GP215	10TS-D15
C15	330 10%		DI-330	DD-331	L10T33	CCD-331	GP333	10TS-T33
CIS	3300 10%		DI-3300		PM5D33	CCD-332	JL-233	10TS-D33
CI7	2200 10%		DI-2200		PM6D22	CCD-222	GP222	10TS-D22
C18	.022 50V 10%		V94C2S22-10%		PM4S22	IDP-1-223		2TM-S22
C19	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C20	10000	ì	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C 21	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C22	4.7 NPO		NPO-DI 4.7	DTZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C23	20 NPO 10%		NPO-DI 20	DTZ-20	C10Q20C	CCTO-200	CNO-422	10TCC-Q20
C24	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C25	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C26	.05 400V		P488N-05	DD-503	CUB485	4DP-3-503	GEM-415	4TM-S50
C27	.022 50V 10%		V84C2S22-10%	****	PM4S22	IDP-1-223		2TM-S22
C28	2200 10%]	DI-2200		PM5D22	CCD-222	GP222	10TS-D22
C29	100 N750 10%		N750-DI 100	DTN-100	C10T22U	CCTN-101	CN7-310	10TCU-T10
C30	1000 10%		DI-1000	DD-102	5 R5D 1	CCD-102	GP210	10TS-D10
C3i	3300 10%	İ	DI-3300		PM6D33	CCD-332	JL-233	10TS-D33
C32	. i 200V	i	P288N-1	DF-104	C UB2Pi	2DP-3-104	GEM-201	2TM-P10
C33	.05 400V		P488N-05	DD-503	CUB485	4DP-3-503	GEM-415	4TM-S50
C34	1500 10%		DI-1500	DD-152	PM6D15	CCD-152	GP215	10TS-D15
C35	330 10%	}	DI-330	DD-331	L10 T33	CCD-331	GP333	10TS-T33
C36	3300 10%	}	DI-3300		PM5D33	CCD-332	JL-233	10TS-D33
C37	2200 10%		DI-2200		PM5D22	CCD-222	GP222	10TS-D22
C38	. 022 50V 10%		V84C2S22-10%		PM4S22	IDP-1-223		2TM-822
C39	10000			DD-103	BYA1081	CCD-103	B-110	5HK-S10
C40	10000		BPD-01	DD-103	BYA1081	CCD-103	B-110	5HK-S10
C4i	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-810
C42	4.7 NPO		NPO-DI 4.7	DTZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C43	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20

CONTROLS

	DATI			RE	PLACEMENT DA	TA		
ITEM	RATII	NG	Bell Sound	CENTRALAB	CLAROSTAT	CTS-IRC	MALLORY	INSTALLATION NOTES
No.	RESIST- ANCE	WATTS	PART No.	PART No.	PART No.	PART No.	PART No.	INSTALLATION NOTES
RIA	250K 25K Tap	1/2	15A 90					Volume, Right Channel
В	250K 25K Tap	1/2						Volume, Left Channel
C	Switch							Push - Pull Off - On
R2A B	2meg Shaft	1	15A 87	B-75 Not Req.	A47-2meg-8 KSS-3	Q11-139 Not Req.	U56 Not Req.	Balance
R3A	imeg	1	15A 92	B-70	A47-imeg-Z	Q13/137	U53	Bass, Left Channel
_ В	Shaft	1.		Not Req.	KSS-3	Not Req.	Not Req.	
R4A	lmeg	1	15A92	B-70	A47-lmeg-Z	Q13-137	U53	Treble, Left Channel
В	Shaft	1 ,	15400	Not Req.	KSS-3	Not Req.	Not Req.	Done Birth Charact
R5A	lmeg	3	15A92	B-70	A47-lmeg-Z	Q13-137	U53	Bass, Right Channel
B R6A	Shaft imeg	1	15A92	Not Req. B-70	KSS-3 A47-lmeg-Z	Not Req. Q13-137	Not Req. U53	Treble, Right Channel
В	Shaft	•		Not Req.	K88-3	Not Req.	Not Req.	
R7A	250K	1	15A96	F1-35		† QJ-1536R	■ UE4079 /	Tuner Level, Left Channel
В	250K	1		R2-35		1 40-10001	- 02.0.0	Tuner Level, Right Channel
R8	5000Ω	2(WW)	15A94			63		Output Balance, Left Channel
R9	5000Ω	2(WW)	15A 94			16 3		Output Balance, Right Channel
RIOA	250Ω	1 2	15B35	TT-2	į	B11-201		Hum Balance
В	Shaft			Not Req.		TM4		

[&]quot;CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements and Shafts: B13-130, P9-018 (Panel)
(Not available as a factory assembled unit).

B13-130, R11-028 (Rear)

R5 (Retainer)

RESISTORS

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

		REP	LACEMENT DA	TA			RE	PLACEMENT DA	ATA
No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS	No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS
RII	2. 2meg				R46	470K			
Ri2	47K				R47	10K			
R13	47K				R48	580K			
RI4	470K				R49	100K			
R15	10 K	}			R50	Ω 0001			
RI5	580K				R51	4.7meg			
R17	100K	ł			R52	10 QK			
R18	1000Ω				R53	33K			
RI9	4.7meg				R54	lmeg			
R20	100K				R55	52K]	
R21	lmeg				R56	58K			í-
R22	52K				R57	4700Ω		}	
R23	58K				R58	47K			
R24	33K				R59	1000Ω			
R25	4700Ω				R60	100K			
R25	47K	i i			R61	10 K			
R27	1000Ω				R62	33K			
R28	100K		+		R63	150K			
R29	1 0K	i i	.]		R54	390Ω			
R30	33K		1		R65	580Ω		1	
R31	150K				R65	47K			
R32	390Ω		:		R67	lmeg			
R33	590Ω				R68	47K			
R24	47K				R69	3900Ω			
R25	lmeg		1		R70	270K			
R35	47K				R71	10 K	i.e.		
R37	3900Ω				R72	270K			
R38	270K				R73	10 K			
R29	10K				R74	55K			
R40	270K				R75	100K			
R4i	10K		1		R75	22K			
R42	56K				R77	8200Ω			
R43	2. 2meg				R78	2200Ω 2W	1		
R44	47K				R79	15 0K	1		
R45	47K								

[&]quot;STA-LOC" Equivalent: FA254A, RU254A, OK500, IK875.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

					REPLACEMENT DATA					
No.			RATING		Merit DADT No	Stancor PART No.	Thordarson	Triad	NOTES	
	PRI.	SEC. 1	SEC. 2	PART No.	PART No.	PARI No.	PART No.	PART No.		
Tı	117V @ . 84A	840VCT ② . 170A DC	6. 3V @ 6A	32B123 ①					D Part #32Bl24 is used in 50% version.	

TRANSFORMER (AUDIO OUTPUT)

	1			REPLA				
No.	IMPED	ANCE	Bell Sound PART No.	Merit	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
	PRI.	SEC.	PARI NO.	PART No. P	PARI NO.	PARI NO.	PAKT NO.	
T2	9500Ω CT	16Ω Tap ② 8Ω 4Ω	32B140			24519		
тз	9500Ω CT	16Ω Tap ② 8Ω, 4Ω	32B140			24519		

FUSES

	TYPE		REPLACEMENT DATA							
ITEM No.		RATING	Bell Sound PART No.		LITTELFUSE PART No.		BUSS PART No.			
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER		
MI	3AG	3A 125V S/B	53A16	53A8	313002 (3AG 2A 125V) S/B	342001	MDL 2	HKP		

MISCELLANEOUS

ITEM No.	PART NAME	Bell Sound PART No.	NOTES
M2 M3 M4 M5 M6 M7	Switch Switch Switch Switch Switch	43A45 43A45 43A45 43A45 43A45	Function Selector (Rotary Type) Lo-Filter (DPDT Slide Type) Loudness Contour (DPDT Slide Type) Mono-Stereo (DPDT Slide Type) Normal-Reverse (DPDT Slide Type) Hi-Filter (DPDT Slide Type)

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob Knob Knob Panel	84A59 84A61 84A70 72D437	With Indicator; Volume, Balance Tone Function Selector Front

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No.	8530 (Solid) Available in Ten Colors
		8524 (Stranded) Available in Ten Colors
Power Cord	USE BELDEN NO.	1765-B (6 Ft. Length) 1725-K (7½ Ft. Length)

CHASSIS-TOP VIEW

