

BELL SOUND MODELS  
5625M, 5625M3



MODEL 5625M3

TRADE NAME	Bell Sound Models 5625M, 5625M3
MANUFACTURER	Bell Sound Div., Thompson Ramo Wooldridge Inc., 555 Marion Road, Columbus 7, Ohio
TYPE SET	AC-Battery Operated 8 Tube Amplifier With Manual Phono
POWER SUPPLY	117 Volts AC, 60 Cycles (or) 6 Volt Storage Battery (or) 12 Volt Storage Battery
RATING	115 Watts, 1.1 Amp. @117 Volts AC, 60 Cycles (or) 16 Amp. @6.3 Volts DC (or) 8 Amp. @12.6 Volts DC

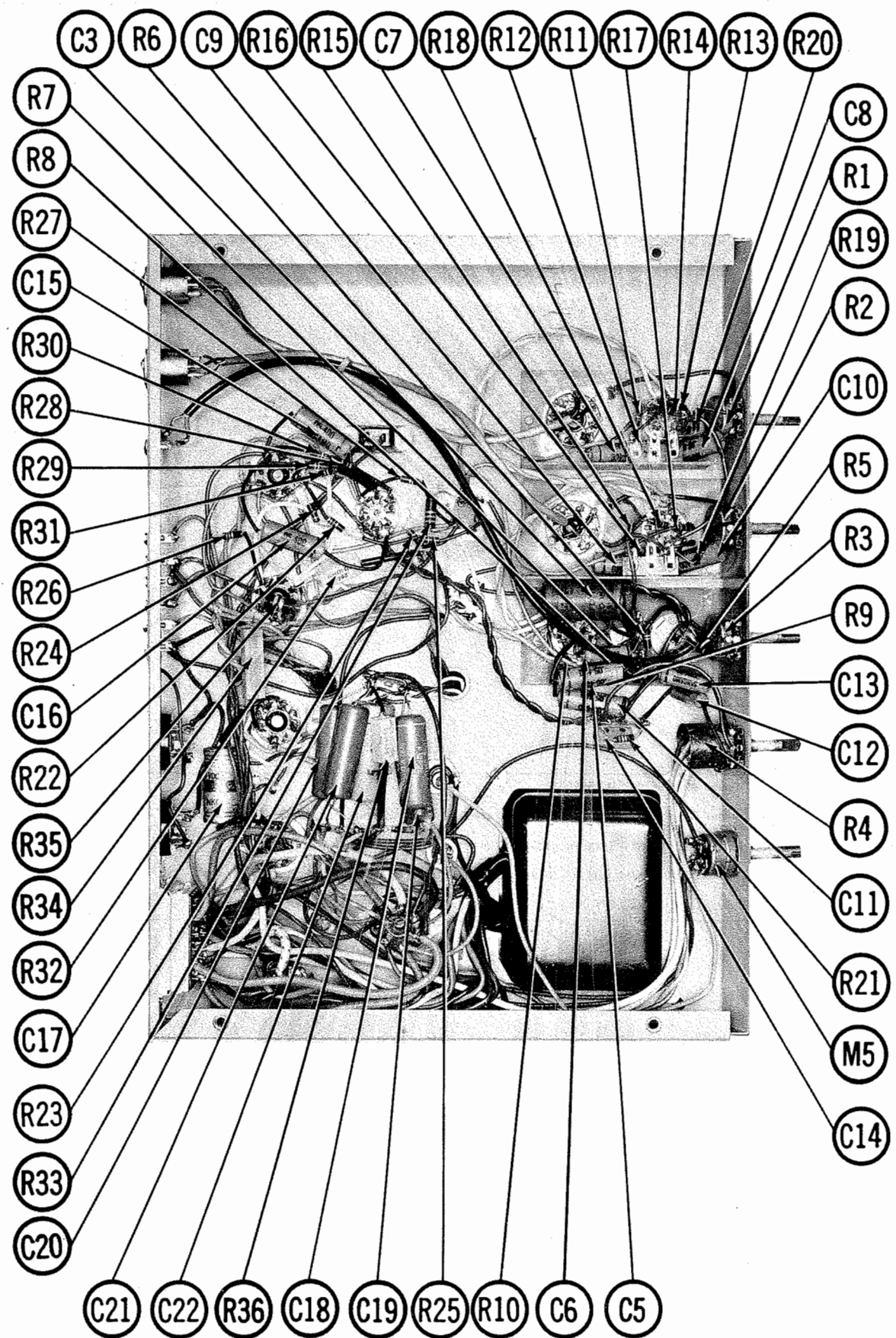
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**HOWARD W. SAMS & CO., INC.** Indianapolis 6, Indiana



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CHASSIS BOTTOM VIEW

PARTS LIST AND DESCRIPTIONS

TUBES

• GENERAL ELECTRIC • RAYTHEON • SYLVANIA •					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Phono Preamp. -AF Amp.	12AX7	V5	Output	6L6GB
V2	Mic 1 Preamp.	5879	V6	Output	6L6GB
V3	Mic 2 Preamp.	5879	V7	Rectifier	6AX5GT
V4	AF Amp. -Phase Inv.	12AX7	V8	Rectifier	6AX5GT

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					NOTES
	CAP.	VOLT.	BELL SOUND PART No.	AEROVOX PART No.	CORNELL-DUBILER PART No.	MALLOY PART No.	PYRAMID PART No.	
C1A	20	450	B-20048P23	AFH3-138	C0970	FP386	TMT-3640	
C1B	10	450						
C1C	50	50						
C2A	20	450	B-20048P35	AFH3-138	C0970	FP386	TMT-3640	
C2B	20	450						
C2C	50	25						
C3	150	15	B-20053P14	PR31370	BR1505		TD-150-50	
C4	4	235VAC	B-20052P33	RMO-982	KGNT-2040	TC25015		TVA-1311

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	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNING DUBNER PART No.	ELEMCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C5	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C6	.001 400V		P488N-001	D6-102	CUBED1	8DP-1-102	GEM-421	8TM-D10
C7	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C8	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C9	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C10	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C11	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C12	.001 400V		P488N-001	D6-102	CUBED1	8DP-1-102	GEM-421	8TM-D10
C13	.005 400V		P488N-005	D6-502	CUBED5	6DP-1-502	GEM-425	6TM-D50
C14	75 500V		1468-000075	D6-750	22RQ75	CM-20B-750M	MC230	1FM-475
C15	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C16	.05 400V		P488N-05	DD-503	CUBA55	4DP-3-503	GEM-415	4TM-S50
C17	.015 2000V	#B-20052P16						
C18	.25 200V		P288N-25		CUB2P25	2DP-4-254	GEM-2025	2TM-P25
C19	.25 200V		P288N-25		CUB2P25	2DP-4-254	GEM-2025	2TM-P25
C20	.25 300V		P288N-25		CUB2P25	2DP-4-254	GEM-2025	2TM-P25
C21	.25 300V		P288N-25		CUB2P25	2DP-4-254	GEM-2025	2TM-P25
C22	.5 400V		P488N-5		CUB4P5	4DP-8-504	GEM-405	4TM-P50

# Bell Sound Part Number.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	BELL SOUND PART No.	Merit PART No.	Stancor PART No.	Thorndarson PART No.	
T2	10K CT	500Ω Tap @ 70V, 16Ω, 8Ω, 4Ω	B20290				

VIBRATOR

ITEM No.	TYPE	INPUT VOLTS	FREQUENCY	REPLACEMENT DATA				NOTES
				BELL SOUND PART No.	CORNEILL-DUBIER PART No.	MALLORY PART No.	RADIART PART No.	
M1	Int.	6	60%		3485		3485	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			BELL SOUND PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M2	3AG	30A 32V 2A	B-20043P25		31030 (3AG 30A 32V) 312002 (3AG 2A 250V)		AGC 30 AGC 2	HKP HKP
M3	3AG	250V	B-20043P1					

PHONO CARTRIDGE & NEEDLES

\*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

ITEM No.	REPLACEMENT DATA					NOTES
	BELL SOUND PART No.	ASTATIC PART No.	ELECTRO-VOICE PART No.	SONOTONE PART No.		
	CARBIDE REEFE*	CARBIDE NEEDLE*	CARBIDE NEEDLE*	CARBIDE NEEDLE*	CARBIDE NEEDLE*	
M4	B-20237P4* Not Req.	591 Not Req.	47 Not Req.	27-S Not Req.	Not Req.	
Includes Tone Arm						

MISCELLANEOUS

ITEM No.	PART NAME	BELL SOUND PART No.	NOTES
M5	Switch	B-20105P21	Standby (Rotary Wafer Type)
M6	Motor	B-20105P2	Phono Off-On (Part of Phono Player) (Toggle)
M7	Power Cord	B-20239P7	Phono Drive (Part of Phono Player)
	Power Cord	1B0039	117VAC
	Power Cord	1B0040	6VDC
	Power Cord	1B0041	12VDC

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	84A55	Mic 1, Mic 2, Phono, Tone, Power

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord	8524 (Stranded) Available in Ten Colors
	Use BELDEN No. 1765-B (6 Ft. Length)
	1725-K (1½ Ft. Length)

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST-ANCE	WATTS	BELL SOUND PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	250K	1/4	B20066P145	B-51	A47-250K-Z	Q3-130	U44	Mic 1 Volume
R1B	B Shaft	1/4		Not Req.	FS-3	Not Req.	U44	Mic 2 Volume
R2A	250K	1/4	B20066P145	B-51	A47-250K-Z	Q3-130	U48	Phono Volume
R3A	500K	1/4	B20066P142	B-60	A47-500K-Z	Q3-133	U55	Tone
R4A	B Shaft	1/4		Not Req.	FS-3	Not Req.	U57	Power Off-On
R4B	2meg		B20066P144	B-76	A47-2meg-Z	Q3-139	U5-27	
R5	Switch			Not Req.	FS-3	Not Req.		
C				KR-2	SWE-20	76-2		

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
R5	1.2meg				R21	270K			(220K) *
R6	150K				R22	47K			
R7	8200Ω				R23	150K			
R8	150K				R24	2700Ω			
R9	180K				R25	2700Ω			
R10	2700Ω				R26	27K			
R11	2.2meg				R27	150K			
R12	150K				R28	6800Ω			
R13	75K				R29	220K			
R14	15K				R30	270K			
R15	2.2meg				R31	100K			
R16	150K				R32	250Ω 4W		5W-SQ-250	
R17	75K				R33	27K 1W			
R18	15K				R34	5000Ω 7W		10W-SQ-5000	
R19	150K				R35	100K 2W			
R20	150K				R36	25Ω 5W		5W-SQ-25	

\* Alternate Value.

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA				NOTES
	INPUT	SEC. 1	SEC. 2		BELL SOUND PART No.	Meril PART No.	Stancor PART No.	Thordarson PART No.	
T1	117V * @ 760VCT 1.1A or 6.3VCT @ 9A or 12.6VCT @ 4.5A		6.3VCT 6.2A	†	B20287				* For Phono Motor Power on DC Operation. † Not used on DC Operation.

\* For Phono Motor Power on DC Operation.  
† Not used on DC Operation.

CHASSIS—TOP VIEW

