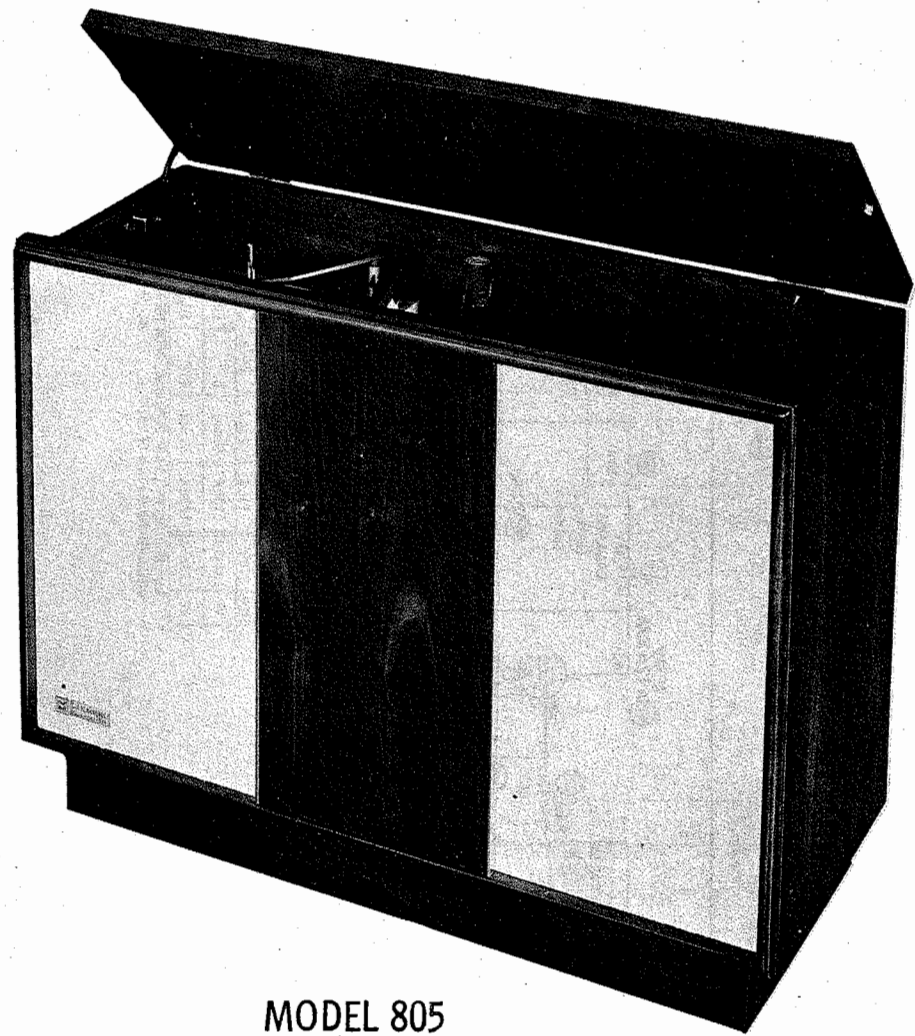


PHOTOFACT® Folder



V-M
MODELS 803, 805

V-M
MODELS 803, 805



MODEL 805

V-M
MODELS 803, 805

TRADE NAME	V-M Models 803, 805		
MANUFACTURER	V-M Corp., 375 W. Main Street, Benton Harbor, Michigan		
TYPE SET	AC Operated 5 Tube Stereo Phono Amplifier With 4 Speed Automatic Record Changer.		
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING	70 Watts, .66 Amp. @117 Volts AC (Less Motor)

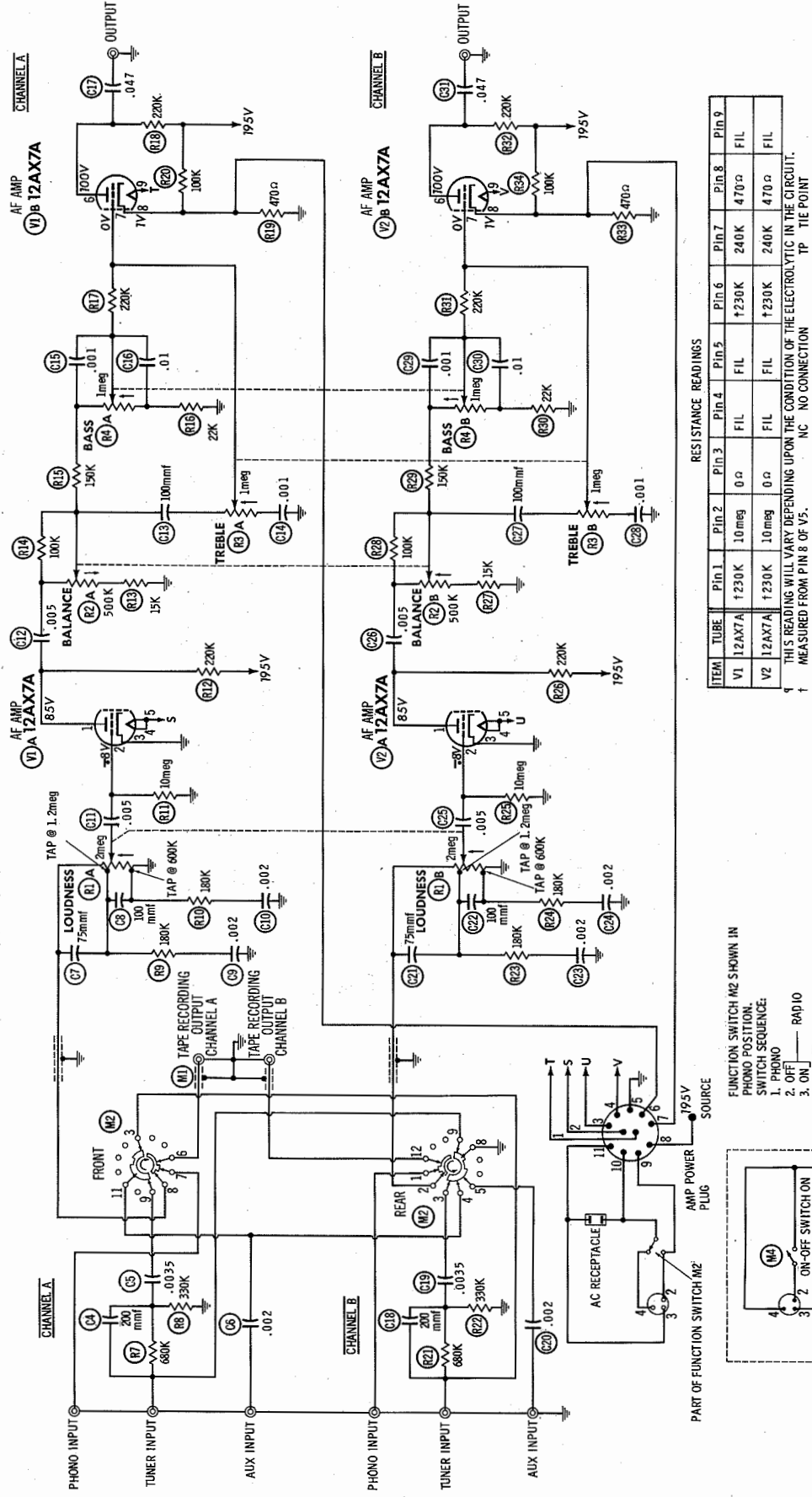
FOR SERVICE INFORMATION ON RECORD CHANGER — SEE V-M 1201 — PHOTOFACT SET 436 FOLDER 18
OR RECORD CHANGER MANUAL RC-12

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



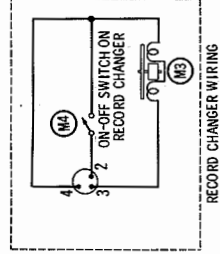
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of KT696

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. © 1961 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America



1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Meter connections are shown as footnotes in views.
3. Measured values are not stated for components in ground.
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.

FUNCTION SWITCH M2 SHOWN IN PHONO POSITION.
 SWITCH SEQUENCE:
 1. PHONO
 2. OFF
 3. ON RADIO
 4. MON-AUX.
 5. STEREO



A. PHOTOFACT STANDARD NOTATION SCHEMATIC
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PREAMP SCHEMATIC

V-M
 MODELS 803, 805

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (cont)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		IRC PART No.	WORKMAN TV PART No.			IRC PART No.	WORKMAN TV PART No.
R23	180K			R33	470K		
R24	180K			R34	100K		
R25	10meg			R35	470K		
R26	220K			R36	470K		
R27	15K			R37	820 3W		
R28	100K			R38	3300Ω		
R29	150K			R39	3300Ω		
R30	22K			R40	1500Ω 1W		
R31	220K			R41	10K		
R32	220K						

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		SEC. 1	SEC. 2			SEC. 1	SEC. 2
T1	117V @ .60A	540VCT @ .100A	120V 0-120V (Not Used) DC		470K		
	SEC. 3	SEC. 4	SEC. 5		100K		
	5V @ 2A	6.3V (Not Used)	6.3V @ 1A		470K		
	SEC. 6				820 3W		
	6.3V @ .9A				3300Ω		
					3300Ω		
					1500Ω 1W		
					10K		

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA		ITEM No.	IMPEDANCE	REPLACEMENT DATA	
		V-M PART No.	Merit PART No.			V-M PART No.	Merit PART No.
T2	3100Ω	1-22	12666-2①		3100Ω	1-22	12666-2①
T3	3100Ω	1-22	12666-2①		3100Ω	1-22	12666-2①

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		ITEM No.	TYPE	REPLACEMENT DATA	
		FIELD V. C. IMP.	QUAM PART No.			FIELD V. C. IMP.	QUAM PART No.
SP1	10"	3-4Ω	24071-2*		10"	3-4Ω	24071-2*
SP2	3"	PM	21226-1		3"	PM	21226-1

* Model 805 Only
† Used for SP1 and SP3 in Model 803

SPEAKER (cont)

ITEM No.	TYPE	REPLACEMENT DATA		ITEM No.	TYPE	REPLACEMENT DATA	
		SIZE	V. C. IMP.			SIZE	V. C. IMP.
SP3	10"	PM	3-4Ω		10"	PM	3-4Ω
SP4	3"	PM	3-4Ω		3"	PM	3-4Ω

PHONO CARTRIDGE & NEEDLES

*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

ITEM No.	V-M PART No.	CARTRIDGE	NEEDLE	ASTATIC PART No.	ELECTRO-VOICE PART No.	SONOTONE PART No.	NOTES
M1	23960A	24043 * (L.P.)	26S	17	Not Req.	87A4-S†	N-87A-S *
		24044 * (78RPM)				S3-3 *	16T-S

MISCELLANEOUS

ITEM No.	PART NAME	V-M PART No.	NOTES
M2	Switch	12437	
M3	Motor Ass'y.	21566	
M4	Switch	21338	

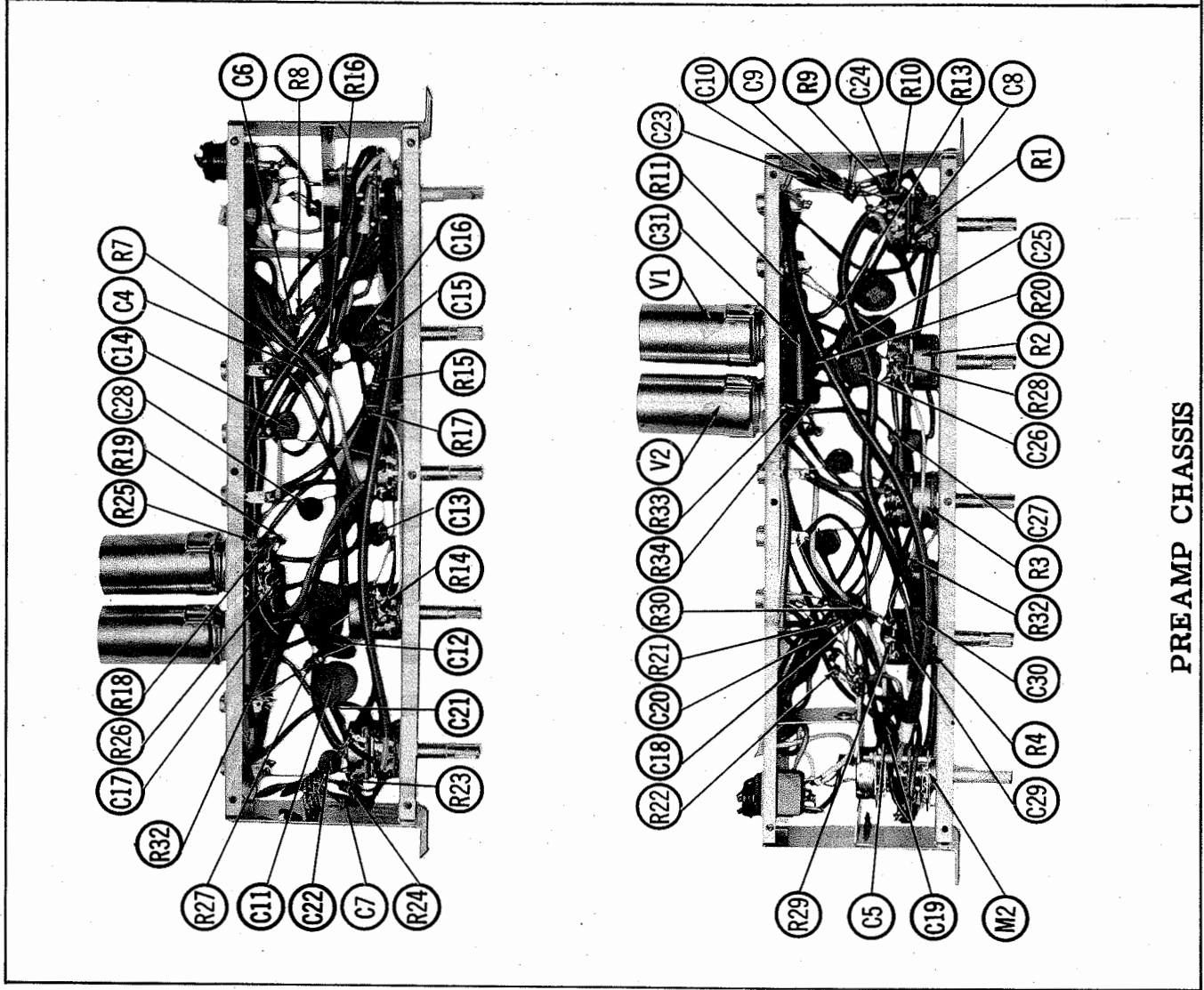
CABINETS & CABINET PARTS

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

ITEM No.	NAME	PART NO.	DESCRIPTION
	Knob	23987-A	Loudness, Bass, Treble
	Knob	23988-A	Balance
	Knob	23989-A	Function, Selector
	Cabinet	24149	Model 805 (Complete)
	Cabinet	24102	Model 803 (Complete)
	Leg	24604-A	Model 803 (Set of 4)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord	Use BELDEN No. 1765-B (6 Ft. Length)
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 8423-K (7½ Ft. Length)
Phone Pick-up Arm Cable	Use BELDEN No. 8430 (Two Conductor - Twisted)



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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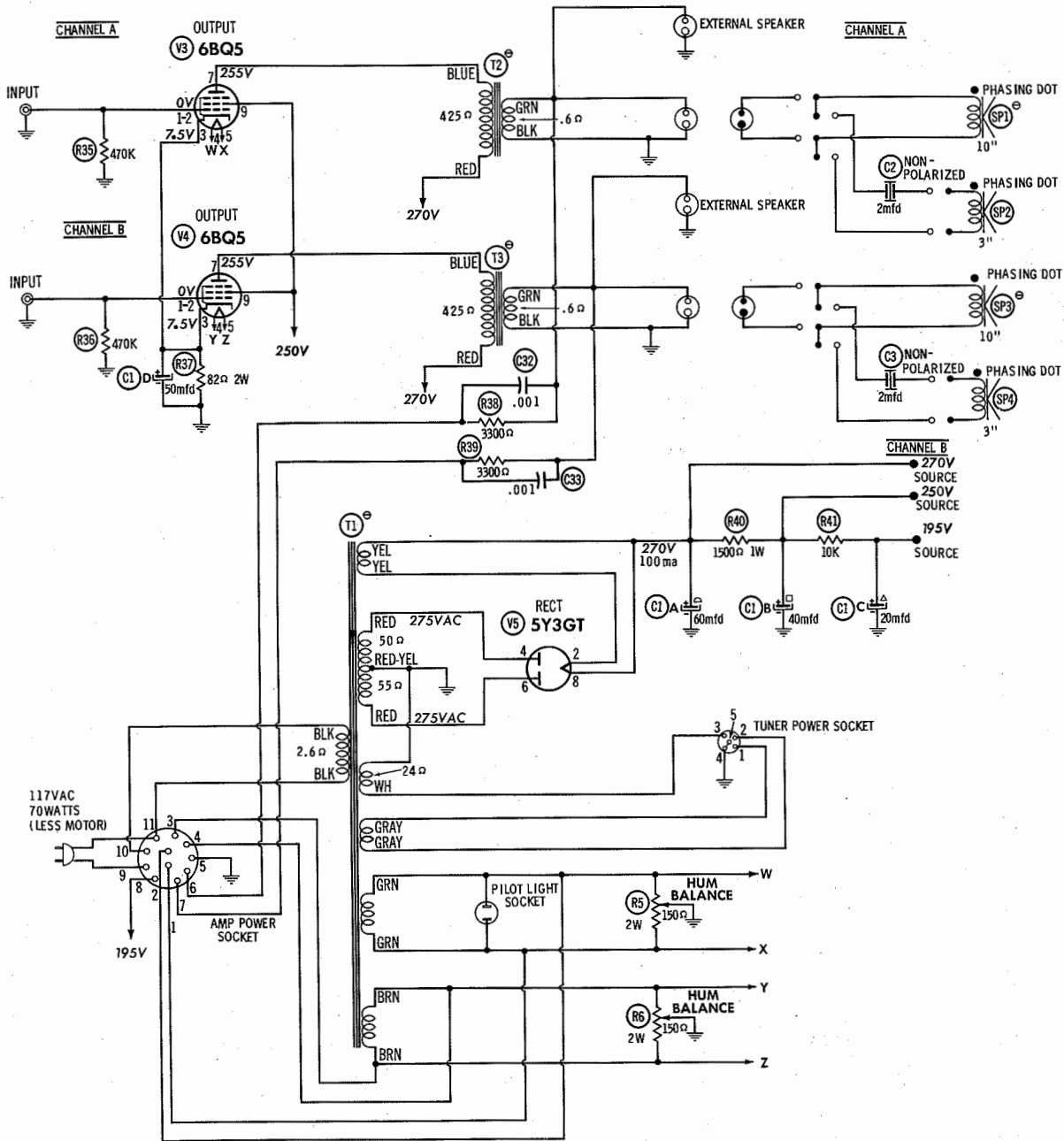
AMP SCHEMATIC

V-M
MODELS 803, 805

- DC voltage measurements taken with vacuum tube voltmeter;
- AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- All controls at minimum, proper output load connected.

RESISTANCE READINGS (Cont.)									
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 9
V3	6BQ5	NC	470 K	82 Ω	FIL	FIL	NC	$\pm 425 \Omega$	NC
V4	6BQ5	NC	470 K	82 Ω	FIL	FIL	NC	$\pm 425 \Omega$	NC
V5	5Y3GT	NC	1 60 K	NC	50 Ω	TP	55 Ω	NC	1 60 K

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
MEASURED FROM PIN 8 OF V5. NC NO CONNECTION TP TIE POINT



PARTS LIST AND DESCRIPTIONS

TUBES

GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Channel A AF Amp.	12AX7A	V4	Channel B Output Rectifier	6BQ5	V5	Rectifier	5Y3GT
V2	Channel A AF Amp.	6BQ5						
V3	Channel A Output	6BQ5						

ELECTROLYTIC CAPACITORS

REPLACEMENT DATA			REPLACEMENT DATA		
ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
C1A	60 450		C1	2meg* 400V	
C1B	40 450		C2	2meg* 400V	
C1C	20 450		C3	2meg* 400V	
C2	2 25NP				
C3	2 25NP				

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

FIXED CAPACITORS

REPLACEMENT DATA			REPLACEMENT DATA		
ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
C4	200 .0035		C15	100 .001	
C5	75 .002		C16	100 .001	
C6	100 .002		C17	100 .001	
C7	100 .002		C18	100 .001	
C8	100 .002		C19	100 .001	
C9	100 .002		C20	100 .001	
C10	100 .002		C21	100 .001	
C11	100 .002		C22	100 .001	
C12	100 .002		C23	100 .001	
C13	100 .002		C24	100 .001	

FIXED CAPACITORS (cont)

REPLACEMENT DATA			REPLACEMENT DATA		
ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
C25	.005		C29	.001	
C26	.005		C30	.001	
C27	.001		C31	.001	
C28	.001		C32	.001	
C29	.001		C33	.001	
C30	.001				
C31	.001				
C32	.001				
C33	.001				

CONTROLS

REPLACEMENT DATA			REPLACEMENT DATA		
ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R1A	2meg* 400V		R15	150K	
R1B	2meg* 400V		R16	22K	
R1C	2meg* 400V		R17	22K	
R2A	500K		R18	22K	
R2B	500K		R19	22K	
R2C	500K		R20	22K	
R3A	500K		R21	22K	
R3B	500K		R22	22K	
R3C	500K				
R4A	500K				
R4B	500K				
R4C	500K				
R5	500K				
R6	500K				

* Taps @ 800K & 1.2meg.

RESISTORS

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

REPLACEMENT DATA			REPLACEMENT DATA		
ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R7	680K		R15	150K	
R8	330K		R16	22K	
R9	180K		R17	22K	
R10	180K		R18	22K	
R11	10meg		R19	22K	
R12	220K		R20	22K	
R13	15K		R21	22K	
R14	100K		R22	22K	