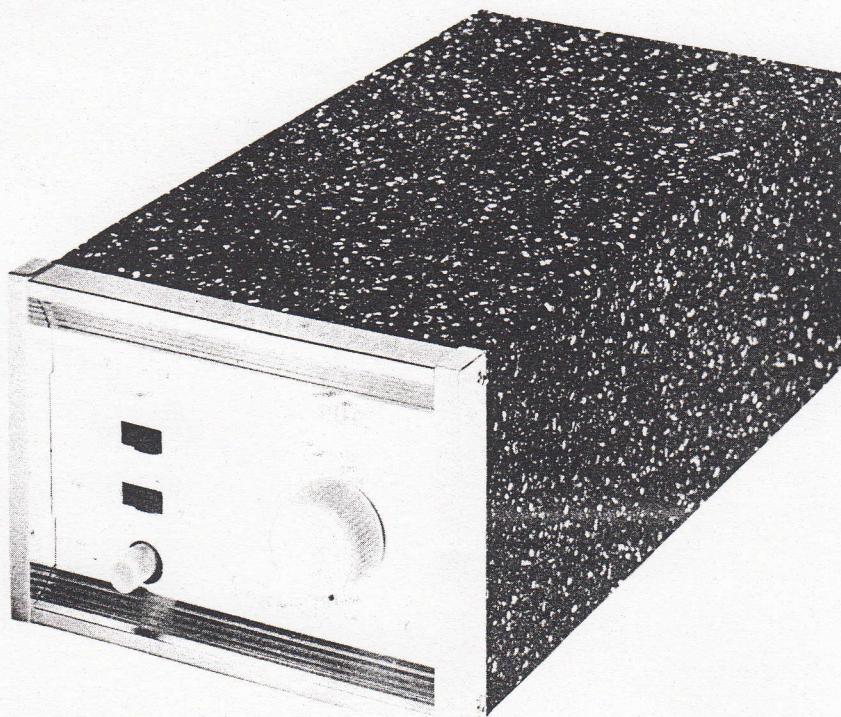


**SHERWOOD MODELS**  
**SMX-A, -B, -S**

**SHERWOOD MODELS**  
**SMX-A, -B, -S**



**SHERWOOD MODELS**  
**SMX-A, -B, -S**

TRADE NAME	Sherwood Models SMX-A, SMX-B, SMX-S	
MANUFACTURER	Sherwood Electronic Laboratories, Inc., 4300 N. California Ave., Chicago 18, Illinois	
TYPE SET	AC Operated 4 Tube FM Multiplex Adapter	
POWER SUPPLY	110-125 Volts AC, 50-60 Cycles	RATING 14 Watts, .16 Amp. @ 117 Volts AC

## ADJUSTMENTS

### SPLIT CHANNEL STEREO

Place the Circuit Selector switch in SPLIT position, Balance control in FM position and then rotate clockwise to MX. Adjust sound level with the MX Level control until equal sound output is heard as Balance control is switched between FM and MX. Turn Balance control to Stereo. Further balancing of the program can be done by moving the Balance control to the right or left from the Stereo position.

### CROSBY SYSTEM STEREO

Place the Circuit switch in CROSBY position, Balance control to FM and then rotate clockwise to MX. Adjust

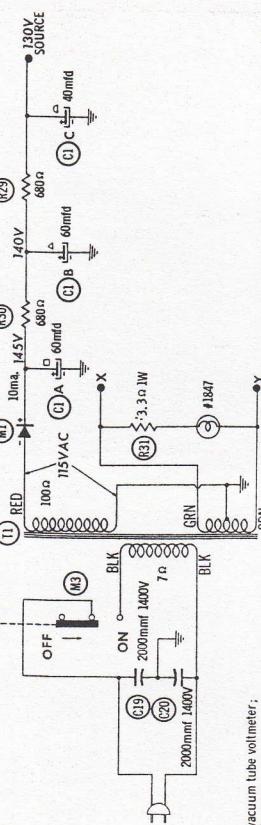
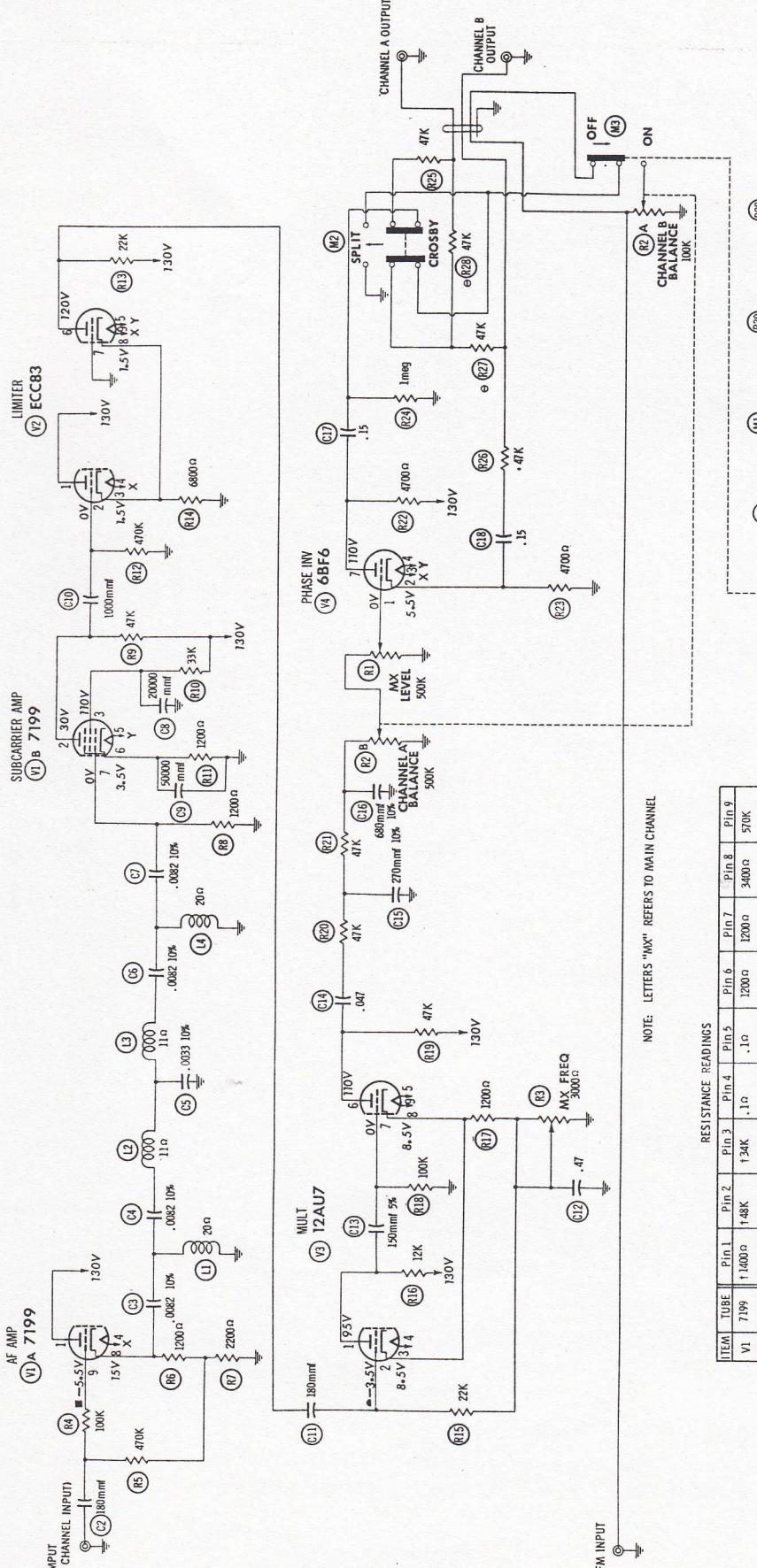
the sound level with the MX Level control until equal sound output is heard as Balance control is switched between FM and MX. Rotate Balance control to Stereo. The Balance control will now serve as the Demension control. Rotation toward MX will result in greater separation and rotation toward FM will provide less separation.

### FREQUENCY CONTROL

The Frequency control is located on top of the chassis and may be reached thru a hole in the bottom plate with a screwdriver. Adjust for the clearest reception. This adjustment is not critical and for most cases may be set in the center of its range.

**HOWARD W. SAMS**  
The listing of any available replacement parts herein  
is not conclusive in any case. It is recommended, however,  
to guarantee by Howard W. Sams & Co., Inc., as to the  
availability of such replacement parts. The name  
of these parts have been compiled from information furnished  
to Howard W. Sams & Co., Inc., by the manufacturer.  
1221

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1. AC voltage measurements taken with vacuum tube voltmeter;
2. AC voltages measured at 100 ohms per volt.
3. Socket connections are shown as bottom views.
4. Measured values are from socket pins to common negative.
5. Line voltage maintained at 117 volts for voltage readings.
6. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
7. All controls at minimum, proper output load connected.

SEE PARTS LIST FOR ALTERNATE  
VALUE OR APPLICATION  
DC COIL RESISTANCE VALUES UNDER ONE OHM  
NOT SHOWN ON SCHEMATIC DIAGRAM

**SHERWOOD MODELS**  
**SMX-A, -B, -S**

## PARTS LIST AND DESCRIPTIONS

### CHASSIS—TOP VIEW

CBS				GENERAL ELECTRIC				RAYTHEON				SYLVANIA			
ITEM No.	USE	TYPE	ITEM No.	ITEM No.	USE	TYPE	ITEM No.	ITEM No.	USE	TYPE	ITEM No.	ITEM No.	USE	TYPE	
V1	A.F. Amp.-Sub Carrier Amp	7199	SHERWOOD PART No.	AEROVOX PART No.	CORNELL-DUBLINER PART No.	MALLORY PART No.	CENTRALAB PART No.	ELMENCO PART No.	PYRAMID PART No.	SPRAGUE PART No.	7199	12AU7A	Sylvania		
V2	Limiter	200	200	200	BR4025	BR4025	DD-180	DD-181	TMD-22	TVLS-3485.5 *	12AU7A	6BF6	Phase Inverter		

\* Alternate

### ELECTROLYTIC CAPACITORS

REPLACEMENT DATA									
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBLINER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
C2	180	.0082 400V 10%	DI-180	DD-181	L10718	CCD-181	GP318	IOTS-T18	
C3	.0082 400V 10%				6DP-2-822	6DP-2-822	GEM-16282	6TM-D18	
C4	.0082 400V 10%				6DP-2-822	6DP-2-822	GEM-16282	6TM-D18	
C5	.0033 400V 10%		V84C4D33-105	PM6D33	6DP-1-332	GEM-16233	6TM-D33		
C6	.0082 400V 10%				6DP-2-822	6DP-2-822	GEM-16282	6TM-D18	
C7	.0082 400V 10%				6DP-2-822	6DP-2-822	GEM-16282	6TM-D18	
C8	20000	BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20		
C9	50000	BPD-05	DD-503	H-0555	6DP-3-503	GP150	5HK-S5		
C10	1000	BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10		
C11	180	DI-180	DD-181	L10718	CCD-181	GP318	IOTS-T18		
C12	.47 200V	P288N-0045	TC2-150	CUBP2P47	2285T15	CM-20B-474	GEM-2047	2TM-P47	
C13	.15 5%	1469-00045	DD-503	CUBAS47	4DP-3-473	4DP-3-473	GEM-4147	MS-315	
C14	.047 400V	P498N-047	DD-271	L10727	CCD-271	GP327	47TM-S47		
C15	.270 10%	DI-270	DD-681	IRST68	CCD-681	GP368	IOTS-T27		
C16	.680 10%	DI-680	DD-681	CUB2P15	2DP-3-154	GEM-2015	10TS-T68		
C17	.15 200V	P288N-15	DAC-3	CUB2P15	2DP-3-154	GEM-2015	2TM-P15		
C18	.15 200V	P288N-15	DAC-3	DD30-202	HVC20D2	16DP-1-202	UAC-220	BL-D20	
C19	2000 1400V		DAC-3	DD30-202	HVC20D2	16DP-1-202	UAC-220	BL-D20	
C20	2000 1400V								

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

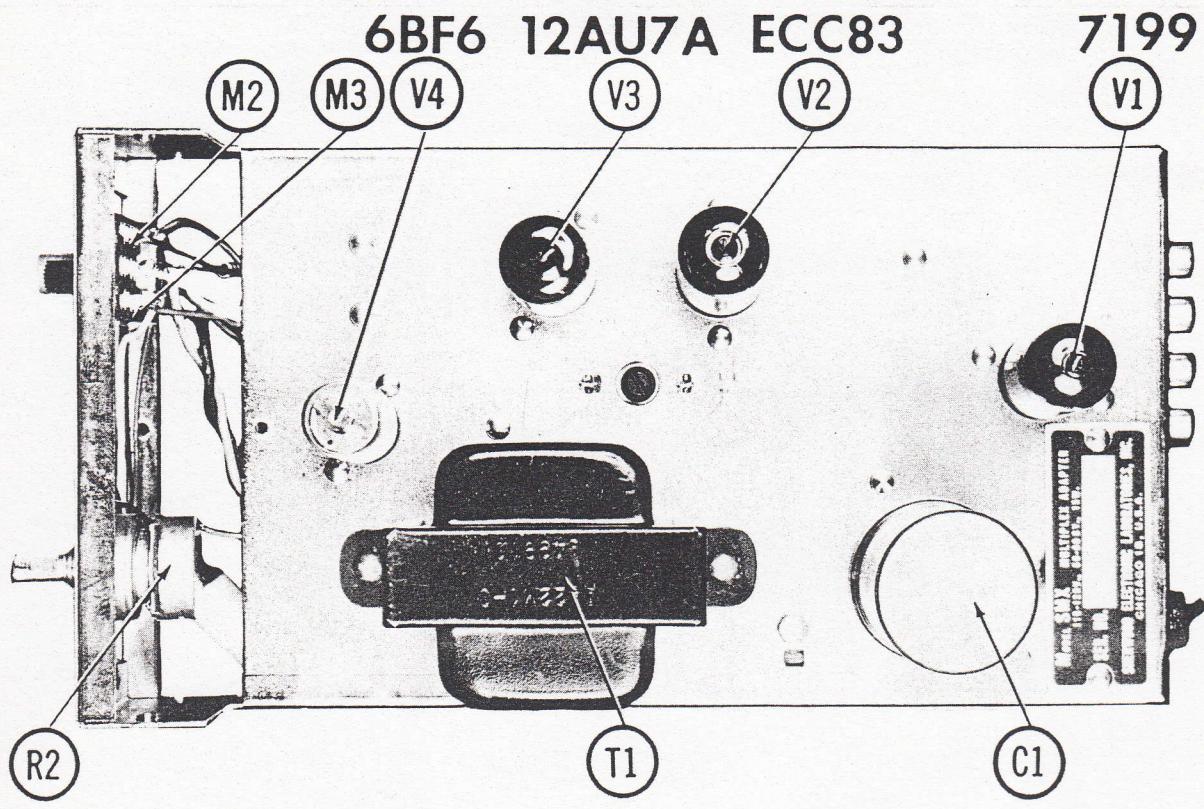
### FIXED CAPACITORS

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

REPLACEMENT DATA									
ITEM No.	RATING	REMARKS	SHERWOOD PART No.	CENTRALAB PART No.	CLAOSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES	
RL	5.00K		1 1/2	A67OM2					
R1	100K		1 1/2	A67OM1					
R2	500K		1 1/2	A67OM3					
R3A	3000Ω		1 1/2	Shaft					
R3B			1 1/2						

### CONTROLS

ITEM No.	RATING	SHERWOOD PART No.	CENTRALAB PART No.	CLAOSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
RL	5.00K						
R1	100K						
R2	500K						
R3A	3000Ω						
R3B							



## PARTS LIST AND DESCRIPTIONS (Continued)

### RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R4	100K		R4	6800Ω	
R5	470K		R5	22K	
R6	1200Ω		R6	12K	
R7	2200Ω		R7	1200Ω	
R8	1200Ω		R8	100K	
R9	47K		R9	47K	
R10	33K		R10	47K	
R12	470K		R12	47K	
R13	22K		R13	4700Ω	
			R23	4700Ω	

Note 1. R27 & R28 matched within 3%.

### COILS (RF-IF)

ITEM No.	USE	SHERWOOD PART No.	Gramer PART No.	REPLACEMENT DATA			NOTES
				Meissner PART No.	Merit PART No.	Miller PART No.	
L1	RF Choke						Note 1 Note 1
L2	RF Choke						
L3	RF Choke						
L4	RF Choke						

### TRANSFORMER (POWER)

ITEM No.	RATING	SEC. 1	SEC. 2	REPLACEMENT DATA			NOTES
				SHERWOOD PART No.	Hallidore PART No.	Merit PART No.	
T1	117V @ .16A	115V @ .010A	6.3VCT @ 1.3A	A922M1-3			2.5MH 1.6MH 1.6MH 2.5MH

### RECTIFIERS

ITEM No.	CURRENT (Measured)	SHERWOOD PART No.	INTERNATIONAL PART No.	REPLACEMENT DATA			NOTES
				ITT PART No.	SARKES TARZAN PART No.	SYLVANIA PART No.	
M1	.010A	①	① RS065	① 1234AH	① 65	② SR200	① Selenium Type ② Silicon Type

### MISCELLANEOUS

ITEM No.	PART NAME	SHERWOOD PART No.	NOTES
M2	Switch		Split - Crosby (DPDT, Slide Type)
M3	Switch		Power Off-On (DPDT, Slide Type)

### 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
Power Cord .....	Use BELDEN No. 1765-B (6 Ft. Length) 1725-K ( $\frac{1}{2}$ Ft. Length)

## CHASSIS—BOTTOM VIEW

