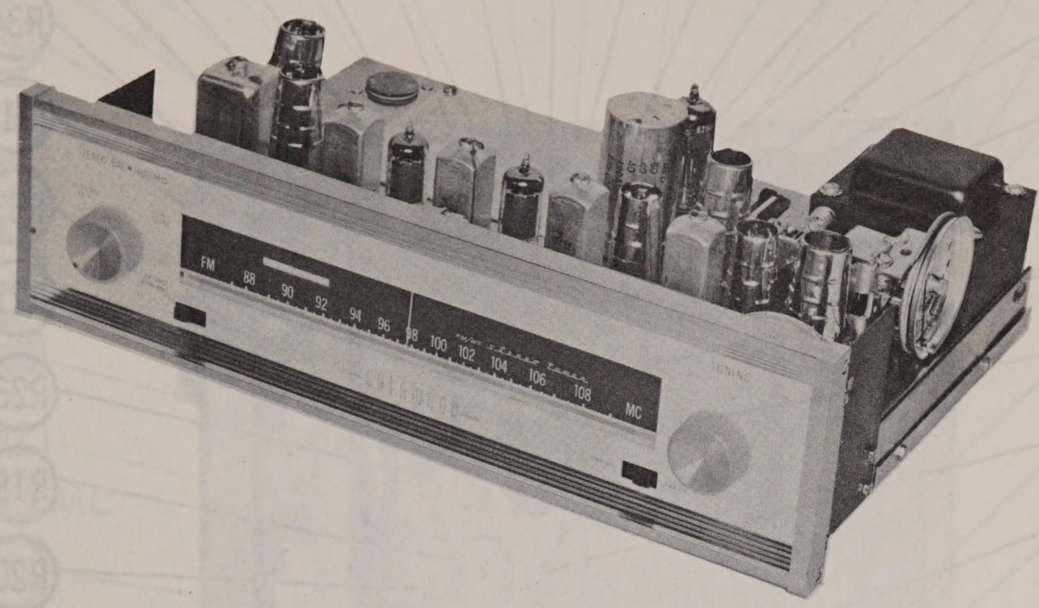




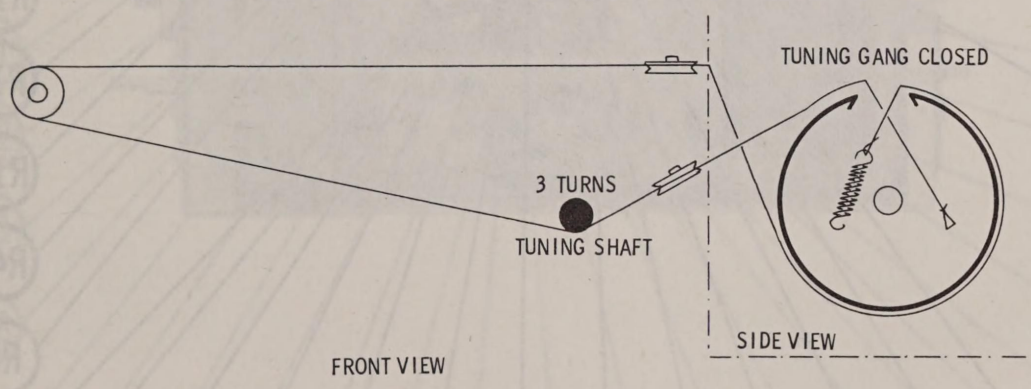
SHERWOOD MODEL
S-3000 III



SHERWOOD MODEL
S-3000 III

TRADE NAME	Sherwood Model S-3000 III (Serial #3012001 and up)		
MANUFACTURER	Sherwood Electronic Laboratories, Inc., 4300 N. California Ave., Chicago 18, Illinois		
TYPE SET	AC Operated 10 Tube FM-AM Tuner		
POWER SUPPLY	110 - 120 Volts AC, 50-60 Cycles	RATING	53 Watts, .52 Amp. @ 117 Volts AC
TUNING RANGE-FREQ. MOD.	88 - 108 MC		

DIAL CORD STRINGING

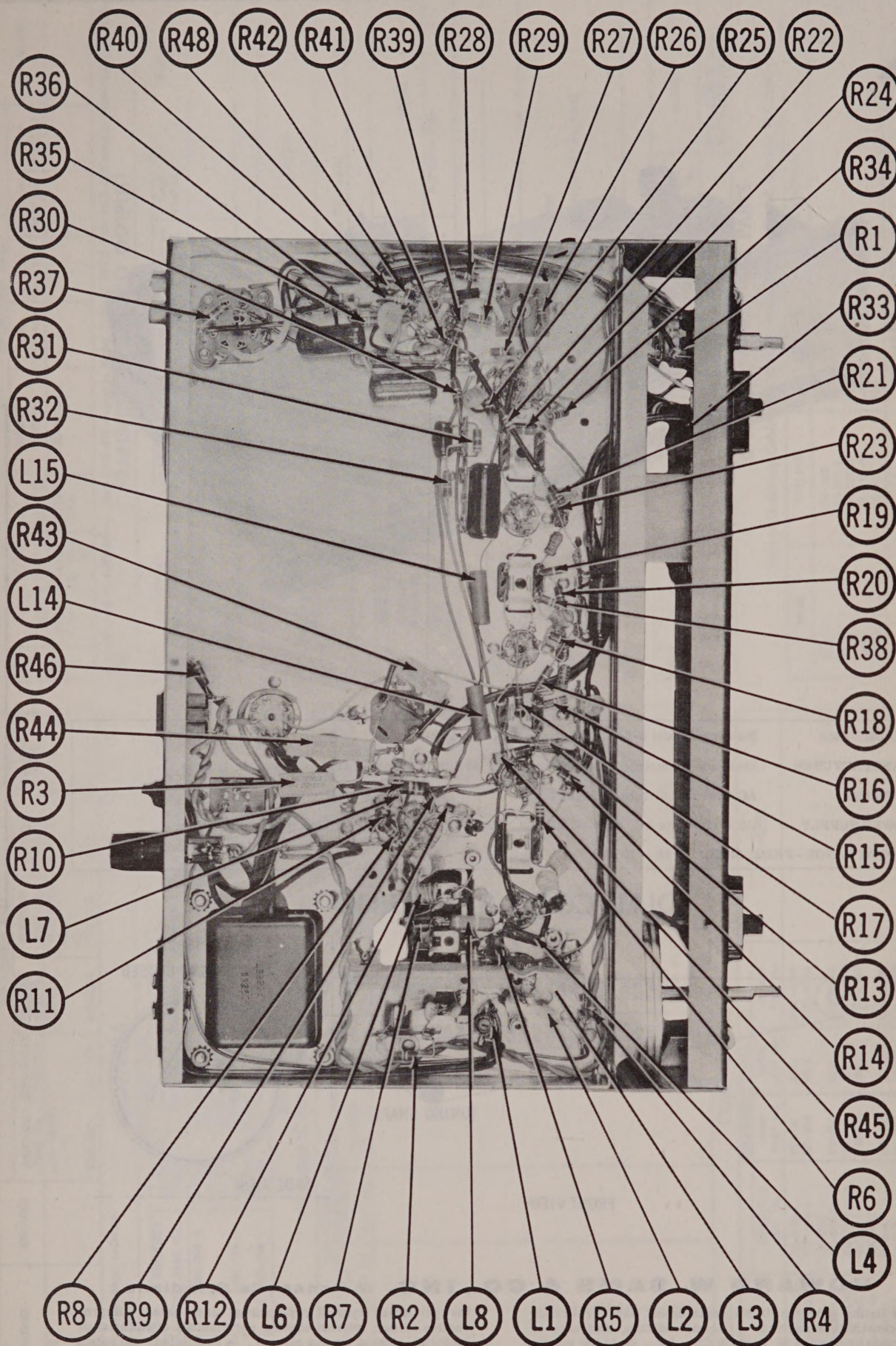


HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

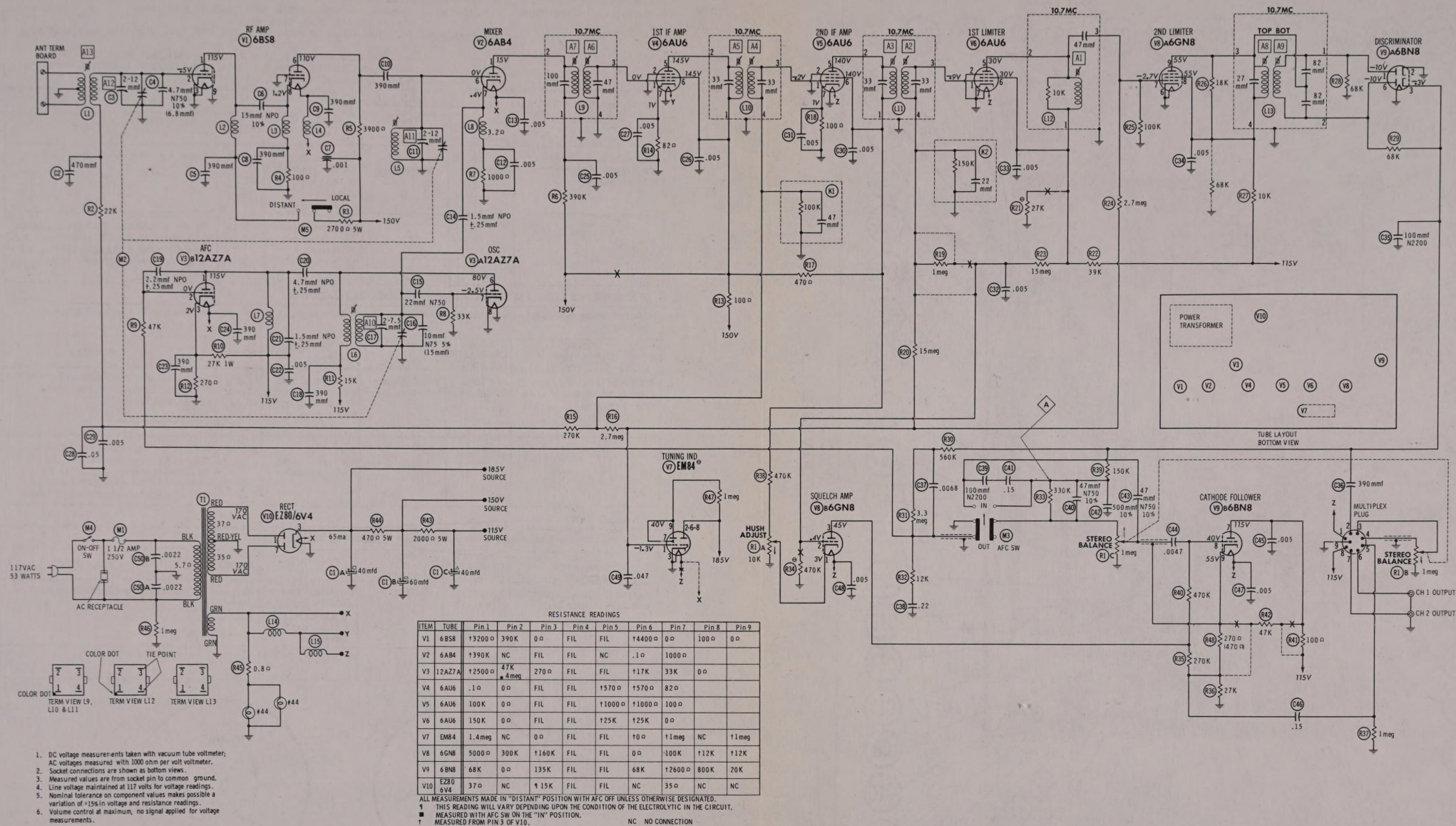
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of KJ669

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CHASSIS BOTTOM VIEW-RESISTOR & INDUCTOR IDENT.



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: A1 thru A9... GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440
WALSCO #2526, 2543, 2544, 2545

A10, A11, A12... GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291

WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538

A13... GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8729, 8987, 8988, 8989
WALSCO #2515, 2531, 2532

IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru .01mfd to pin 6 (grid) of Mixer. Low side to chassis.	10.7MC (Unmod.)	Point of non-interference.	DC probe thru 100K to pin 7 (grid) of 2nd Limiter. Common to chassis.	A1, A2, A3, A4, A5, A6, A7	Adjust for maximum deflection.
2.	"	"	"	DC probe to point Δ . Common to chassis.	A8, A9	Detune A9 and adjust A8 for maximum deflection. Adjust A9 for zero reading. A positive and a negative reading will be obtained on either side of the correct setting.

IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
1.	High side thru .01mfd to pin 6 (grid) of Mixer. Low side to chassis.	10.7MC (450KC Swp)	Point of non-interference.	Vert. amp. thru 100K to pin 7 (grid) of 2nd Limiter. Low side to chassis.	A1, A2, A3, A4, A5, A6, A7	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
2.	"	"	"	Vert. amp. to point Δ . Low side to chassis.	A8, A9	Adjust A8 for maximum amplitude. Adjust A9 to place marker at center of crossover lines similar to Fig. 2. Retouch A8 for maximum amplitude and straightness of crossover lines.

RF ALIGNMENT

Coils not containing adjustable cores are adjusted by expanding or compressing coil turns.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
3.	Across antenna terminals with 150 Ω in each lead.	106MC (Unmod.)	106MC	DC probe thru 100K to pin 7 (grid) of 2nd Limiter. Common to chassis.	A10, A11, A12	Adjust for maximum deflection.
4.	"	90MC	90MC	"	L6, L5, A13	"

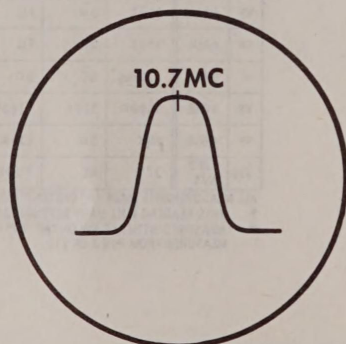


FIG. 1

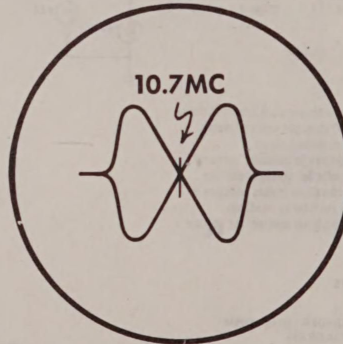


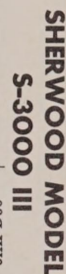
FIG. 2

CHASSIS—TOP VIEW

* Alternate Type.

ITEM No.	RATING		REPLACEMENT DATA							
	CAP.	VOLT.	SHERWOOD PART No.	AEROVOX PART No.	CORNEILL DUBIER PART No.	MALLYORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES	
CIA	40	250		AFH3-101-20	XB0243	FP328, 64	TMT-3304	TVL-3583		
B	50	250				BR4025				
C	40	250								

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORRELATION PART No.	REPLACEMENT DATA	MALLORY PART No.	SPRAGUE PART No.
C2	470		BFD-00047	DD-471	BYA10T47	CCD-471	B-347	10T5-T47
C3	2-12				C10V5U	CCTN-050	CN7-547	10TCU-V50
C4	4.7 N750 10%	(6, 8) †	DI-390	DTN-5	L10T39	CCD-391	CN7-539	10T5-T39
C5	390		NPO-DI 15	DTZ-15	C10Q15C	CCCTO-150	CNO-415	10TCC-Q15
C6	15 NPO 10%		EF-001	MFT-1000		CCF-102	CT280A	
C7	.001		DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C8	390		DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C9	390		DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C10	390		DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C11	2-12				BYA10D5	CCD-502	B-250	5HK-D50
C12	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C13	C3 .005		BFD-0005	DD-502	C10V15C	CNO-515	CNO-515	10TCC-V15
C14	1.5 NPO +.25mmf		NPO-DI 1.5	DTZ-1R5		CCCTN-220	CN7-422	10TCU-Q22
C15	22 N750 -		N750-DI 22	DTN-22	C10Q22U	*		
C16	10 N75 5%	(15) †		829-7				
C17	2-7, 5				L10T39	CCD-391	B-339	10T5-T39
C18	390		DI-390	DD-391	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C19	2.2 NPO +.25mmf		NPO-DI 2.2	DTZ-2R2	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C20	4.7 NPO +.25mmf		NPO-DI 4.7	DTZ-4R7	C10V15C	CNO-515	CNO-515	10TCC-V15
C21	1.5 NPO +.25mmf		NPO-DI 1.5	DTZ-1R5			B-215	5HK-D50
C22	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-339	10T5-T39
C23	390		DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C24	390		DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C25	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C26	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C27	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C28	.005		BFD-0005	DD-502	CUB68S	CCD-503	GP-150	5HK-S50
C29	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C30	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C31	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C32	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C33	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C34	.005		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C35	100 N2200	Note 1	DI-390	DD-391	L10T39	CCD-391	B-339	10T5-T39
C36	390		P488N-0068	D6-682	CUB6D68	6DP-1-682	GEM-6268	6TM-D68
C37	.0068 400V		P288N-22		CUB2P22	2DP-4-224	GEM-2022	2TM-P22
C38	22 200V					*		
C39	100 N2200	Note 1	N750-DI 47	DTN-47	C10Q47U	CCCTN-470	CN7-447	10TCU-Q47
C40	47 N750 10%	Note 1	P288N-15	CUB2P15	CUB2P15	2DP-1-154	GEM-2015	2TM-P15
C41	.15 200V	Note 1	DI-500	DD-501	5R575	CCCT-501	B-350	10T5-T50
C42	500 10%	Note 1	N750-DI 47	DTN-47	C10Q47U	CCCTN-47	CN7-447	10T5-T50
C43	47 N750 10%	Note 1	BFD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C44	.0047		BFD-0005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C45	.005							



PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELWENCO PART No.
C46	.15 200V		P288N-15	DD-502	CUB2P15	2DP-3-154
C47	.005		BPD-005	DD-502	BYA10D5	CCD-502
C48	.005		BPD-005	DD-502	BYA10D5	CCD-502
C49	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473
C50A	.0022		BPD-2X0022	DD-222	BYA10D22	CCD-222
B	.0022			DD-222	BYA10D22	CCD-222

† Alternate Value.

Note 1. Not used in some versions.

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

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			
		SHERWOOD PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
RIA	10K				
B	1meg	A670G2-4			
C	1meg				
					INSTALLATION NOTES
					Hush Adjust Stereo Balance Stereo Balance

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 TV PART No.			IRC PART No.	WORKMAN TV PART No.
R2	22K			R26	18K		
R3	2200Ω 5W			R27	10K		
R4	100Ω	PW5-2, 7K	5W-SQ-2, 7K	R28	68K		
R5	390Ω			R29	68K		
R6	390K			R30	560K		
R7	1000Ω			R31	3.3meg		
R8	33K			R32	12K		
R9	47K			R33	330K		
R10	27K 1W			R34	470K		
R11	15K			R35	270K		
R12	270Ω			R36	27K		
R13	100Ω			R37	1meg		
R14	82Ω			R38	470K		
R15	270K			R39	150K		
R16	2.7meg			R40	470K		
R17	470Ω			R41	100Ω		
R18	100Ω			R42	47K		
R19	1meg			R43	2000Ω 5W		
R20	15meg			R44	470Ω 5W		
R21	27K			R45	0.8Ω		
R22	39K			R46	1meg		
R23	15meg			R47	1meg		
R24	2.7meg			R48	270Ω		
R25	100K			Note 1			
				(470Ω) *			

Note 1. Not used in some versions.

* Alternate Value.

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SHERWOOD PART No.	REPLACEMENT DATA
K1	1st Limiter Grid Filter	47mmf, 100K		
K2	2nd Limiter Grid Filter	22mmf, 150K		

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		SHERWOOD PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.
L1	Ant.					
L2	RF Choke (1.1uh)		BC-561	4602	RTC-8515	T855
L3	RF Choke (1.1uh)		BC-561	4602	RTC-8515	T855
L4	F.I. Choke (1.5uh)		BC-562	4604	RTC-8515	T856
L5	RF					
L6	Oscillator					
L7	RF Choke (1.1uh)		BC-561	4602	RTC-8515	T855
L8	RF Choke (3.9uh)		BC-564	4608	RTC-8518	T858
L9	1st IF		FM-254	1463	RTC-8599	T633
L10	2nd IF		FM-254	1463	RTC-8599	T633
L11	3rd IF		FM-254	1463	RTC-8599	T633
L12	Limiter					
L13	Disriminator					
L14	F.I. Choke (1.5uh)		BC-562	4604	RTC-8518	T856
L15	F.I. Choke (1.5uh)		BC-562	4604	RTC-8518	T856

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA				NOTES
		SHERWOOD PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Tried PART No.
T1	117V @ .52A	SEC 1 340VCT ③. 065A DC	SEC 2 6.3V @ 4.2A	B922G3-10		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			SHERWOOD PART No.	LITTELFUSE PART No.	BUSS PART No.	
M1	3AG	1½A 250V				
			FUSE	FUSE	FUSE	HOLDER
			HOLDER	HOLDER	HOLDER	HOLDER
				31201.5 (3AG 1½A 250V)	342001	AGC 1½ HKP

MISCELLANEOUS

ITEM No.	PART NAME	SHERWOOD PART No.	NOTES
M2	Tuning Cap.		
M3	Switch		
M4	Switch		
M5	Switch		
			3 Gang AFC (DPDT Slide Type) Off-On (DPST Slide Type) Local-Dislstant (SPDT Slide Type)

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)