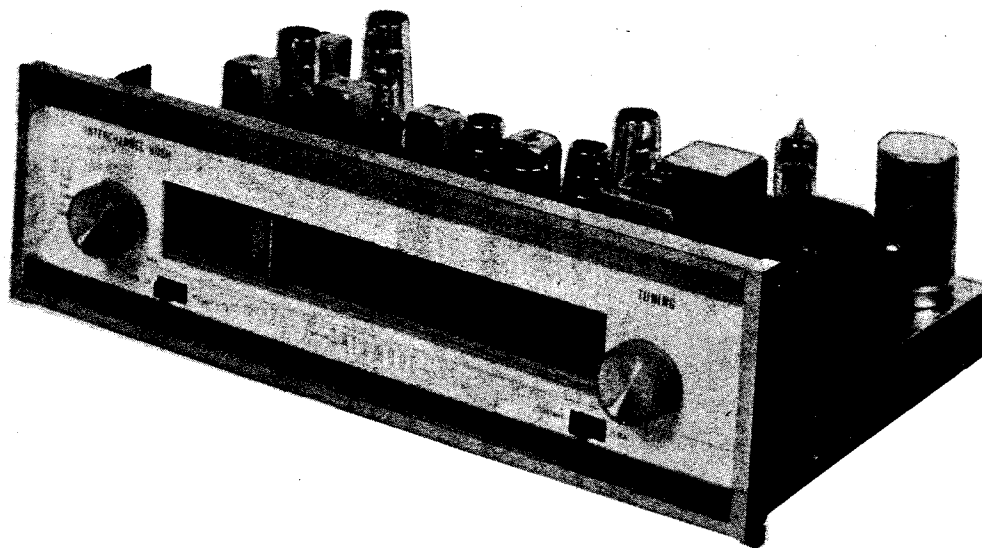
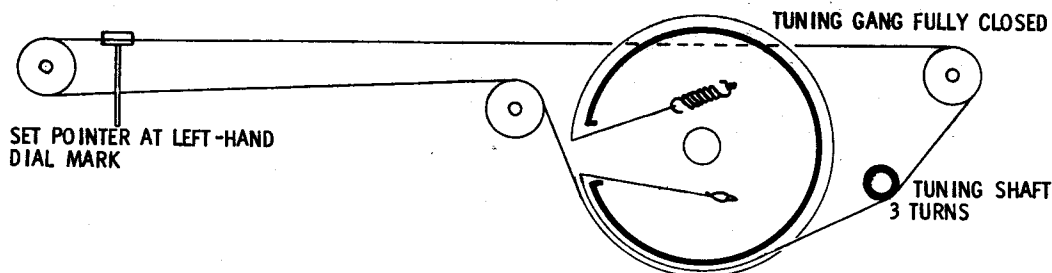


PHOTOFACT® Folder

SHERWOOD MODEL
S-3000 IISHERWOOD MODEL
S-3000 IISHERWOOD MODEL
S-3000 II

TRADE NAME	Sherwood Model S-3000 II		
MANUFACTURER	Sherwood Electronic Laboratories, Inc., 4300 N. California Ave., Chicago 18, Illinois		
TYPE SET	AC Operated 10 Tube FM Tuner		
POWER SUPPLY	110-120 Volts AC, 50-60 Cycles	RATING	41 Watts, .42 Amp. @ 117 Volts AC
TUNING RANGE	FREQ. MOD. 88 - 108MC		

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 JJ535

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. © 1960 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

DATE 3-60

SET 476

FOLDER 14

CASCODE FM RF AMP.

6BS8

FM MIXER

6AB4 *

FM 1st IF

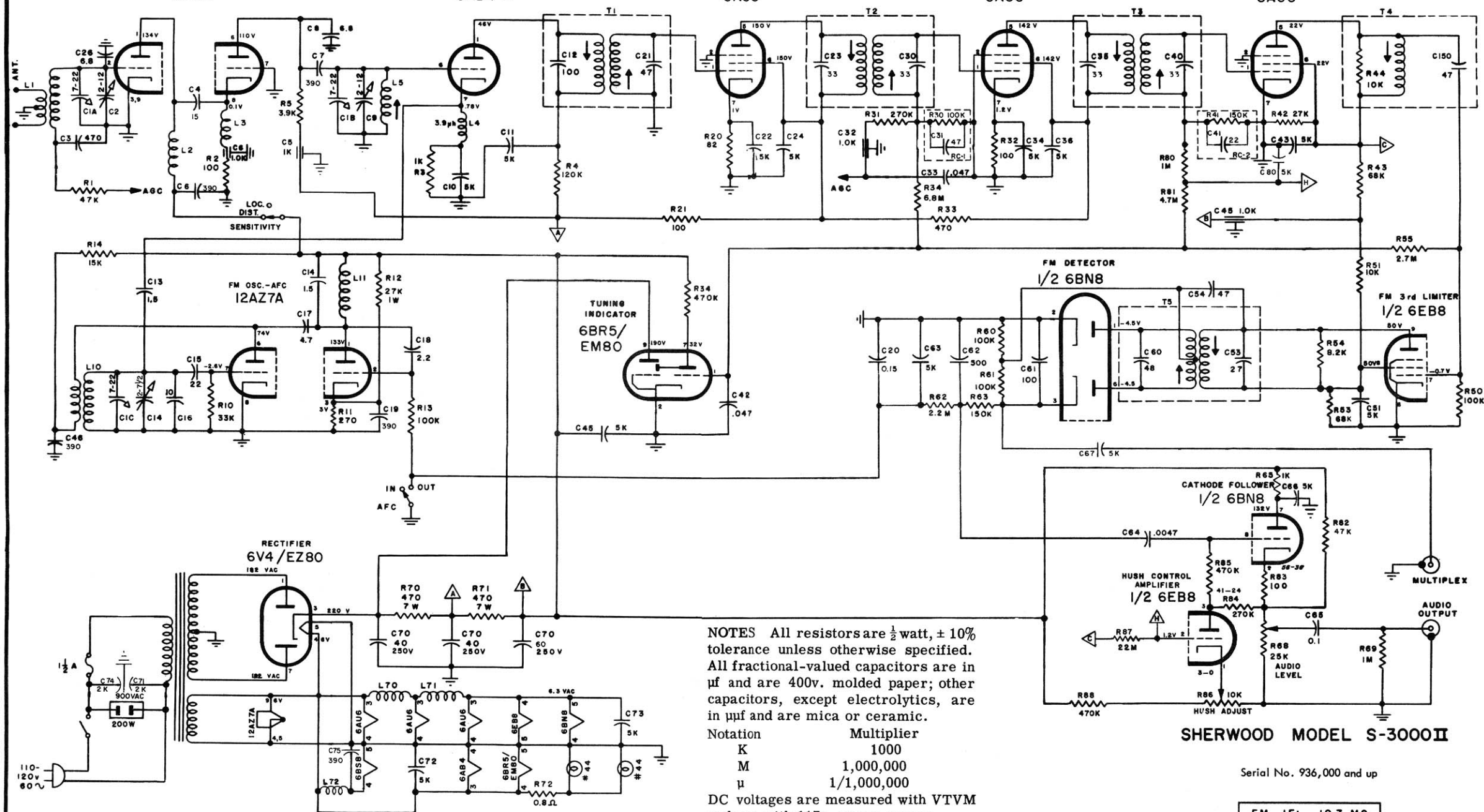
6AU6

FM 1st LIMITER

6AU6

FM 2nd LIMITER

6AU6



ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Audio Level should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

Suggested Alignment Tools: A1 thru A11 GENERAL CEMENT #8282, 8606, 8606L, 9295

WALSCO #2526, 2543, 2544, 2545

A12 thru A14 GENERAL CEMENT #5000, 5003, 5014, 5015, 5016, 8276, 8290

WALSCO #2512, 2515, 2522, 2523, 2525, 2537

IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

AFC off. Local - Distant switch on Distant.

	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 to point (A). Common to chassis.	A1, A2, A3, A4	Adjust for maximum deflection.
2.	"	"	"	DC probe thru 100K to point (B). Common to chassis.	A5, A6, A7, A8	"
3.	"	"	"	DC probe thru 100K to point (C). Common to chassis.	A9	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

AFC off. Local - Distant switch on Distant.

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% 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. to point (B). Low side to chassis.	A1, A2, A3, A4, A5, A6, A7, A8	Adjust for maximum gain and symmetry of response similar to Fig. 1.
2.	"	"	"	Vert. Amp. thru 100K to point (C). Low side to chassis.	A9	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A8 for maximum amplitude and straightness of crossover lines.

RF ALIGNMENT

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
4.	Across FM antenna terminals with 120Ω in each lead.	90MC (400% FM)	90MC	Across Audio Output thru AC probe.	A10, A11, L6	Adjust for maximum deflection.
5.	"	106MC	106MC	"	A12, A13, A14	Adjust for maximum deflection. Repeat steps 4 and 5.

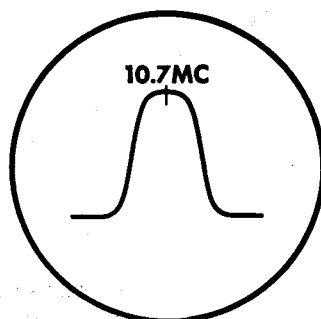


FIG. 1

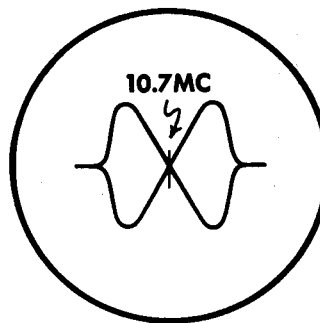


FIG. 2

PARTS LIST AND DESCRIPTIONS TUBES

CBS			GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	RF Amplifier	6BS8	V7	Tuning Indicator	EM80/6BR5	V10	Rectifier	6X4			
V2	Mixer	6AB4	V8	2nd Limiter -	6CM8						
V3	AFC - Osc.	12AT7	V9	Squelch Amplifier	6BN8						
V4	1st IF Amplifier	6AU6		Discriminator -							
V5	2nd IF Amplifier	6AU6		Cathode Follower							
V6	1st Limiter	6AU6		Rectifier							

ELECTROLYTIC CAPACITORS

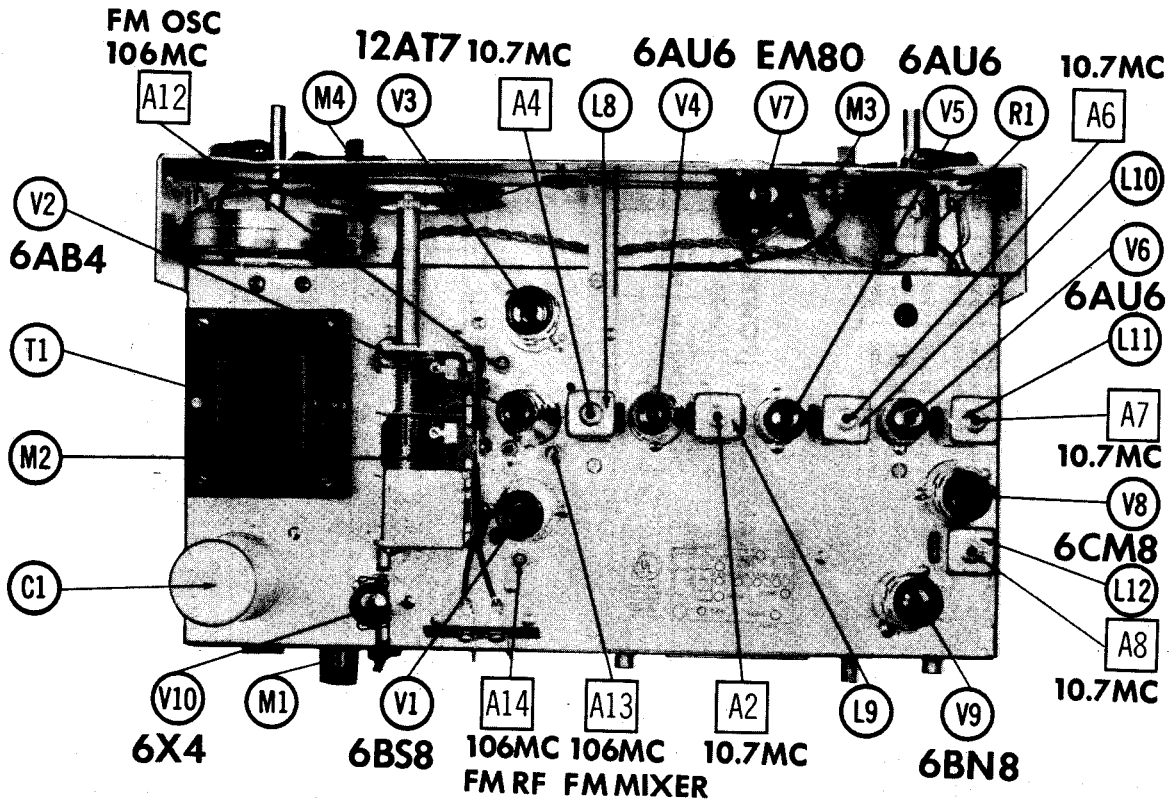
RATING			REPLACEMENT DATA		
ITEM No.	CAP.	VOLT.	SHERWOOD PART No.	CORNUELL DUBILIER PART No.	REMARKS
C1A	.40	300	120AD1	DD-471	
C1B	.40	300		DD-503	
C1C	.40	300		MFT-1000	

FIXED CAPACITORS

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

RATING			REPLACEMENT DATA		
ITEM No.	CAP.	VOLT.	SHERWOOD PART No.	CORNUELL DUBILIER PART No.	REMARKS
C2	.047	400V		DD-471	
C3	.047	400V		DD-503	
C4	.047	400V		MFT-1000	
C5	.047	400V		DD-471	
C6	.047	400V		DD-503	
C7	.047	400V		MFT-1000	
C8	.047	400V		DD-471	
C9	.047	400V		DD-503	
C10	.047	400V		MFT-1000	
C11	.047	400V		DD-471	
C12	.047	400V		DD-503	
C13	.047	400V		MFT-1000	
C14	.047	400V		DD-471	
C15	.047	400V		DD-503	
C16	.047	400V		MFT-1000	
C17	.047	400V		DD-471	
C18	.047	400V		DD-503	
C19	.047	400V		MFT-1000	
C20	.047	400V		DD-471	
C21	.047	400V		DD-503	
C22	.047	400V		MFT-1000	
C23	.047	400V		DD-471	
C24	.047	400V		DD-503	
C25	.047	400V		MFT-1000	
C26	.047	400V		DD-471	
C27	.047	400V		DD-503	
C28	.047	400V		MFT-1000	
C29	.047	400V		DD-471	
C30	.047	400V		DD-503	
C31	.047	400V		MFT-1000	
C32	.047	400V		DD-471	
C33	.047	400V		DD-503	
C34	.047	400V		MFT-1000	
C35	.047	400V		DD-471	
C36	.047	400V		DD-503	
C37	.047	400V		MFT-1000	
C38	.047	400V		DD-471	
C39	.047	400V		DD-503	
C40	.047	400V		MFT-1000	

CHASSIS—TOP VIEW



SHERWOOD MODEL
S-3000 II

PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			AEROVOX PART No.	CENTRALAB PART No.	CORNFEL PART No.	ELMENDO PART No.	SPRAGUE PART No.
C41	5000		BPD-005	DD-502	BYA10D5	CCD-502	5HK-D50
C42	5000		BPD-005	DD-502	BYA10D5	CCD-502	5HK-D50
C43	.022 400V	10%	P48BN-022	DD-303	CUB4823	4DP-3-223	4TM-323
C44	470		EX-470	DD-471	585T47	CCD-471	10T5-T47
C45	5000		BPD-005	DD-502	BYA10D5	CCD-502	5HK-D50
C46	.1 200V		P48BN-1	DD-303	CUB481	2DP-3-104	2TM-F1
C47A	2000 1400V		EVD-30-2200	DD30-202	HVC20D2	SCCD-202	30CA-D30
C47B	2000 1400V		EVD-30-2200	DD30-202	HVC20D2	SCCD-202	30CA-D30

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

CONTROLS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			INSTALLATION NOTES
			CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	
R1A	10K	1	B-26	A47-25K-8	BUL-120	Interchannel Bush (Squelch)
R2A	25K	1	Not Req.	FEB-1/4	TM2	Power (Push-Push) Audio Level

RESISTORS

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

ITEM No.	RATING	REMARKS	RATING	REMARKS	RATING	REMARKS
R3	47K		R17	6.8meg	R31	2.2meg
R4	5000G		R18	100K	R32	10meg
R5	100K		R19	1meg	R33	470K
R6	680K		R20	4.7meg	R34	470K
R7	1000G		R21	100K	R35	270K
R8	15K		R22	470K	R36	1000G
R9	33K		R23	150K	R37	47K
R10	100K		R24	2.7meg	R38	100K
R11	270K		R25	8200G	R39	1meg
R12	27K 1W		R26	3300G	R40	470G 7W
R13	680K		R27	68K	R41	470G 7W
R14	100K		R28	100K	R42	0.8G 1W
R15	270K		R29	100K	R43	1000G
R16	680K		R30	150K		

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SHERWOOD PART No.	REPLACEMENT DATA
X1	1st Limiter Grid	47meg, 100K		
X2	2nd Limiter Grid	22meg, 150K		

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	SHERWOOD PART No.	REPLACEMENT DATA				NOTES
			Gramer PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	
L1	AnL Trans.		19-1000	19-1000	EC-561	4802	1st
L2	RF Choke		19-1000	19-1000	EC-561	4802	1st
L3	Carbide Choke		19-1003	19-1003	EC-564	4808	3.9th ①
L4	Carbide Choke						
L5	RF Coil						
L6*	Osc. Coil						
L7	RF Choke	55-364	19-1003	19-1003	EC-564	4808	3.9th ①
L8	1st IF Trans.	59-154	16-3487	16-3487	FM-254	1463	
L9	2nd IF Trans.	59-154	16-3487	16-3487	FM-254	1463	
L10	3rd IF Trans.	59-154	16-3487	16-3487	FM-254	1463	
L11	4th IF Trans.	59-217	17-3494	17-3494	FM-253	1464	
L12	Discriminator	59-109	19-1002	19-1002	SW-430	4806	
L13	File Choke		19-1002	19-1002	SW-430	4806	
L14	File Choke		19-1002	19-1002	SW-430	4806	
L15	File Choke		19-1002	19-1002	SW-430	4806	

① IRC Part #C1A

TRANSFORMER (POWER)

ITEM No.	RATING	SHERWOOD PART No.	REPLACEMENT DATA				Triod PART No.
			Holldensen PART No.	Merit PART No.	Ram PART No.	Stencor PART No.	
T1	117V ② 45A ③ .050A ④ 3.5A	922AG1					

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			SHERWOOD PART No.	LITELUSE PART No.	BUSS PART No.	
M1	3AG	11A 250A	FUSE HOLDER	FUSE 3120L 5 (3AG 11A 250V)	FUSE HOLDER	HEP

MISCELLANEOUS

ITEM No.	PART NAME	SHERWOOD PART No.	NOTES
M2	Tuning Cap.		2 Gang
M3	Switch		AFC Off-On (SPDT, Slide Type)
M4	Switch		Sensitivity, Local-Distal (SPDT, Slide Type)

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
	1765-B (6 Ft. Length)
	1725-K (7 1/2 Ft. Length)