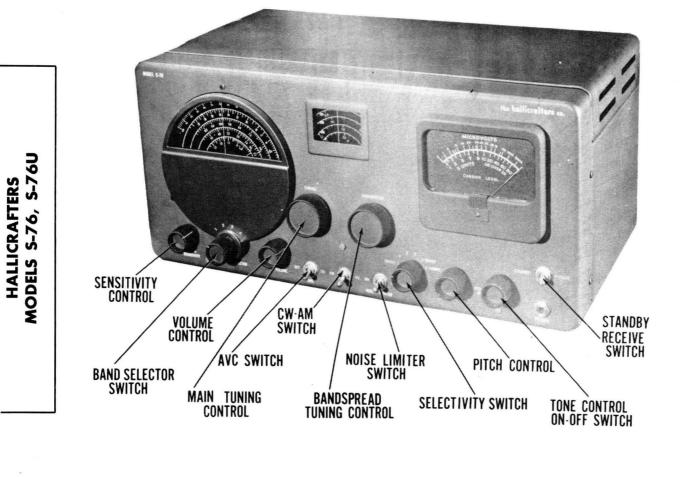
PHOTOFACT^{*} Folder



HALLICRAFTERS MODELS S-76, S-76U



TRADE NAME	Hallicrafters, Models S-76, S-76U			
MANUFACTURER The Hallicrafters Co., 5th. and Kostner Avenues, Chicago, Illinois				
TYPE SET	AC Operated Multi-Band Superheterodyne Communications Type Receiver			
TUBES (ELEVEN)	Types 6CB6 RF Amp., 6AU6 1650KC Mixer, 6C4 Oscillator, 6BA6 1650KC IF Amp., 6BE6 50KC Converter, 6BA6 50KC IF Amp., 6AL5 DET-AVC-Noise Limiter, 6SC7 AF AmpBF0, 6K6GT Power Output, VR-150/0D3 Voltage Regulator, 5Y3GT Rectifier			
POWER SUPPLY	105-125 Volts AC (Model S-76), 105 or 250 Volts AC (Model S-76U)			
RATING	.71 Amp. at 117 Volts AC			
TUNING RANGE	Band 1 538-1580KC, Band 2 1720KC-4.9MC, Band 3 4.6-13MC, Band 4 12-34MC			

HALLICRAFTERS MODELS S-76, S-76U

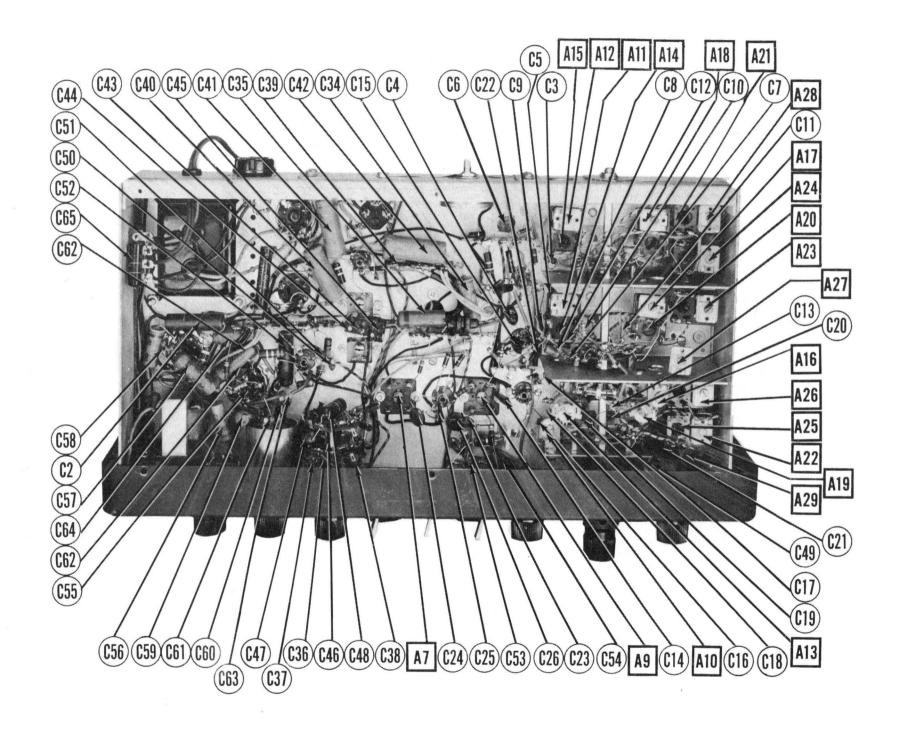
HOWARD W. SAMS & CO., INC. . Indianapolis 5, Indiana

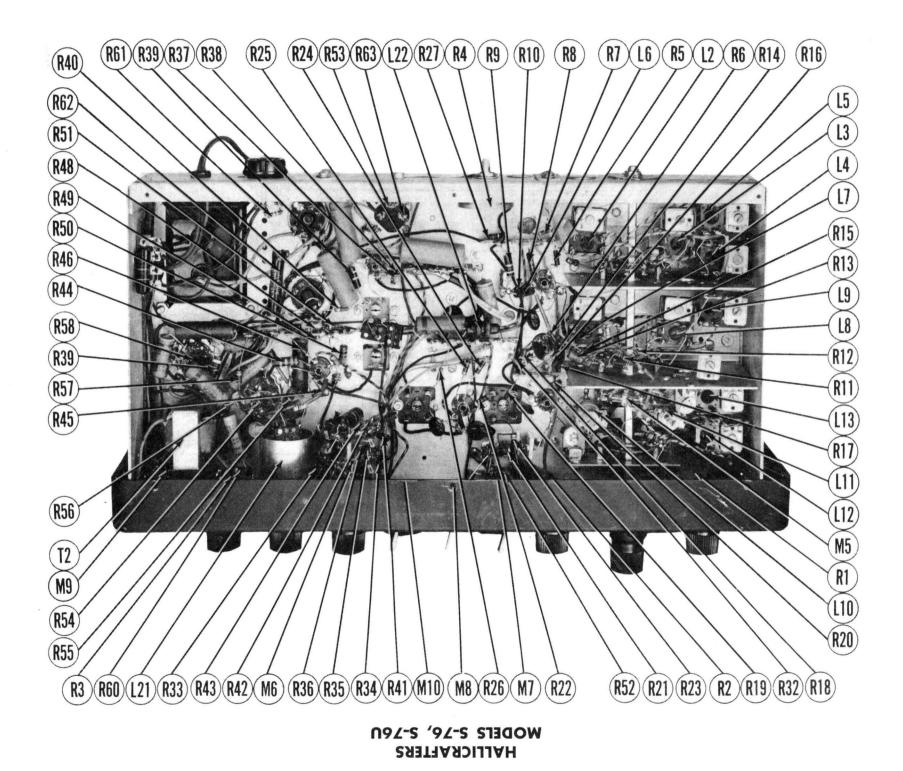
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of 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. Copyright 1952 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc.'' Printed in U. S. of America

FOLDER 9

SET 143

DATE 9 - 51





PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

		REPLACEN	IENT DATA	RMA	
ITEM No.	USE	Hallicrafters PART No.	STANDARD REPLACEMENT	BASE	INSTALLATION NOTES
V1	RF Amplifier	90X6CB6	6CB6	6CK	
V2	1650KC Mixer	90X6AU6	6AU6	7BK	
V3	Oscillator	90X6C4	6C4	6BG	
V4	1650KC IF Amp.	90X6BA6	6BA6	7BK	
V5	50KC Converter	90X6BE6	6BE6	7CH	
V6	50KC IF Amplifier	90X6BA6	6BA6	7BK	
V7	Detector-AVC-	,			
	Noise Limiter	90X6AL5	6AL5	6BT	
V 8	AF Amplifier-BFO	90X6SC7	6SC7	8S	
V 9	Power Output	90X6K6GT	6K6GT	7S	
V10	Voltage Regulator	VR150/0D3	VR150/0D3	4AJ	
V 11	Rectifier	90X5V3CT	5Y3GT	5T	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic

and	Paper	Capacitors,	and II	n mmfd.	tor	Mica	ana	Ceramic	Capacitors.	
-----	-------	-------------	--------	---------	-----	------	-----	---------	-------------	--

			· · · · ·		REPLACEMEN	T DATA			
ITEM		ING	Hallicrafters	AEROVOX	CENTRALAB	CORNELL-	ERIE	SPRAGUE	IDENTIFICATION CODES AND
No.	CAP.	VOLT	PART No.	PART No.	PART No.	DUBILIER PART No.	PART No.	PART No.	INSTALLATION NOTES
CIA	60	450	45B113			UPT62245		TVL-3790	• Filter
в	20	450						TVA-1705	Filter
С	20	450							▲ Filter
C2	10	25	45A121	PRS25/10		BR102A		TVA-1204	Output Cathode
C3	220		47B20221K5	SI220	D6-221	5R5T25	GP2K-221	5GA-T22	RF Coupling
C4	5000		47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	RF Amp. Screen
C5	5000	ļ	47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	RF Amp. Cathode
C6	5000		47A168	BPD-005	DD-502	1D5D5		5HK-D5	AVC Filter
C7	2.2		47A160-4		TCZ-2.2		NP0K-2R2		Fixed Trimmer
C8	220	1	47B20221K5	SI220	D6-221	5R5T25		5GA-T22	RF Bypass
C 9	5000		47A168	BPD-005	DD-502	1D5D5		5HK-D5	RF Bypass
C10	25		47X20UK250K					5TCU-Q25	RF Coupling
Cll	2.2		47A160-4		TCZ-2.2		NP0K-2R2		RF Coupling
C12	100		47X20UJ101K	SI100N750	TCN-100			5TCU-Tl	RF Coupling
C13	2.2		47A160-4		TCZ-2.2		NP0K-2R2		Osc. Coupling
C14	5000		47A168	BPD-005	DD-502	1D5D5		5HK-D5	1650KC Mixer Plate
C15	5000		47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	1650 KC Mixer Screen
C16	100		47X20UJ101K	SI100N750	TCN-100		N750L-101	5TCU-TI	Osc. Feedback
C17 C18	100 25		47X20UJ101K	SI100N750	TCN-100		N750L-101	5TCU-T1	Osc. Grid Cap.
C18 C19	25	500	47X20UK250K 47X30D242J	1464-0025	1	1R5D25	N750K-250	5TCU-Q25	
C19 C20	1000	500	47X25D102J	1464-0025		IR5D25 IR5D1		MS-21	Fixed Padder Fixed Padder
C20 C21	470	500	47X20B471K	1469-0005	TCN-470	5R5T5	N750L-471	MS-21 MS-35	Fixed Padder Fixed Padder
C21	5000	300	47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	1650KC Mixer Cathode
C22	5000		47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5 5HK-D5	AVC Filter
C24	5000		47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	1650KC IF Amp. Dec.
C25	5000		47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	1650 KC IF Amp. Screen
C26	5000		47A168	BPD-005	DD-502	1D5D5	811-005	5HK-D5	1650 KC IF Amp. Cathode
C27	. 05	200	46AU503J	P288-05	DF-503	PTE4S5	011 000	2TM-S5	Osc. Anode Dec.
C28	100		47X20UJ101K	SI100N750	TCN-100		N750L-101	5TCU-T1	Osc. Grid Cap.
C29	. 05	200	46AU503J	P288-05	DF-503	PTE4S5		2TM-85	Conv. Cathode
C30	100		47X20UJ101K	S 1100N750	TCN-100		N750L-101	5TCU-TI	Fixed Trimmer
C31	2.2		47A160-4		TCZ-2.2		NP0K-2R2		IF Coupling
C32	390	500	47X20D391J	1469-0004	TCN-390	5R5T4	N750L-391	MS-34	Fixed Trimmer
C33	390	500	47X20D391J	1469-0004	TCN-390	5R5T4	N750L-391	MS-34	Fixed Trimmer
C34	. 05	200	46AU503 J	P288-05	DF-503	PTE4S5		2TM-S5	50KC Conv. Dec.
C35	. 02	600	46A4203J	P688-02	DF-203	PTE6S2		6TM-S2	RF Bypass
C36	. 0047	600	46A181	P688-0047	D6-472		GP2-333-472	6TM-D47	Fixed Padder
C37	. 01	600	46A179	P688-01	D6-103	PTE6S1	GP2-333-103	6TM-S1	Fixed Padder
C38	. 022	600	46A180	P688-022				6TM-S22	Fixed Padder
C39	470	500	47X20B471K	1469-0005	TCN-470	5R5T5	N750L-471	MS-35	IF Coupling
C40	. 05	600	46AY503J	P688-05	DF-503	PTE6S5		6TM-S5	50KC IF Amp. Dec.
C41	. 05	600	46AY503J	P688-05	DF-503	PTE6S5		6TM-S5	50KC IF Amp. Screen
C42	.25	200	46A T254J	P488-25		GT2P25		2TM -P25	50KC IF Amp. Cathode
C43	2.2		47A160-4		TCZ-2.2		NP0K-2R2		IF Coupling
C44	390	500	47K20D391J	1469-0004	TCN-390	5R5T4	N750L-391	MS-34	Fixed Trimmer
C45	390	500	47X20D391J	1469-0004	TCN-390	5R5T4	N750L-391	MS-34	Fixed Trimmer
C46	. 0047	600	46A181	P688-0047	D6-472	DEFR	GP2-333-472	6TM-D47	Fixed Padder
C47	. 01	600	46A179	P688-01	D6-103	PTE6S1	GP2-333-103	6TM-Sl	Fixed Padder

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

	ITEM	RATING			MENT DATA	
	No.		-	Hallicrafters	IRC	IDENTIFICATION CODES
	-	RESISTANCE	WATTS	PART No.	PART No.	
	R28	15Ω	1/2	23X20X150K		Parasitic Suppressor
	R2 9	22KΩ	12 12 12	23X20X223K	BTS-22K	50KC Osc. Grid
	R30	10 K Ω		23X30X103K	BTA-10K	50KC Osc. Anode
	R31	150Ω	12	23X20X151K	BTS-150	50KC Conv. Cathode
	R32	3300Ω	1/2	23X20X332K	BTS-3300	50KC Conv. Plate Decoupling
	R33	470Ω	$\frac{1}{2}$	23X20X471K	BTS-470	Bias Network
	R34	180Ω	1/2	23X20X181K	210 110	Parasitic Suppressor
	R35	22 0Ω	1/2	23X20X221K		Parasitic Suppressor
	R36	3 90Ω	1/2	23X20X391K		Parasitic Suppressor
	R37	1Meg	1 1 2 2 - 1 - 1	23X20X105K	BTS-lMeg	50KC IF Amp. Grid
	R38	100Ω	1/2	23X20X101K	BTS-100	50KC IF Amp. Grid 50KC IF Amp. Cathode
	R39	39KΩ	í	23X30X393K	BTA-39K	50KC IF Amp. Cathode 50KC IF Amp. Screen
	R40	3300Ω		23X20X332K	BTS-3300	50KC IF Amp. Screen 50KC IF Amp. Decoupling
	R41	180Ω		23X20X181K	D10-3300	Parasitic Suppressor
	R42	22 0Ω	1	23X20X221K	1	Parasitic Suppressor Parasitic Suppressor
	R43	390Ω	1	23X20X391K		
	R44	6.8Ω	i	23X30X068K		Parasitic Suppressor Diode Filament
	R45	1.5Meg		23X20X155K	BTS-1.5Meg	
	R46	lMeg	1	23X20X105K	BTS-IMeg	Noise Limiter Diode Load
CODES	R47	1Meg	1	23X20X105K	BTS-IMeg	Voltage Divider
	R48	82KΩ	1	23X20X823K	BTS-82K	Voltage Divider
IOTES	R49	330KΩ	1	23X20X323K	BTS-330K	Det. Diode Load
	R50	47ΚΩ	1	23X20X473K	BTS-47K	Det. Diode Load
	R51	3.3Meg	1	23X20X335K		AVC Network
	R52	100Ω	1	23X20X101K	BTS-3.3Meg BTS-100	AVC Network
	R53	470KΩ	1	23X20X10IK	BTS-470K	AVC Network
	R54	120KΩ		23X20X124K	BTS-120K	Phono Input Shunt
	R55	39KΩ	1	23X20X393K		BFO Grid-See Note 2
e	R56	15Meg	1	23X20X393K 23X20X156K	BTS-39K	BFO Plate-See Note 3
c	R57	220KΩ	1	23X20X156K	BTS-15Meg	AF Amp. Grid
	R58	470KΩ	1	23X20X224K 23X20X474K	BTS-220K	AF Amp. Plate
	R59	3900	$\frac{2}{1}$		BTS-470K	Output Grid
	R60	560Ω	1	23X30X391K	BTA-390	Output Cathode
	R61	390KΩ	1	23X30X561K	BTA-560	Output XFMR Shunt
	R62	300.0Ω		23X20X394K	BTS-390K	Bias Network-See Note 4
	R63	10KΩ	10	24BG302E	1 3/4A-3000	Voltage Regulator Load
	1000	10121	2	23X20X103K	BTS-10K	Filter

Note 1 Some models use 2.2Meg resistor in this application. Note 2 Some models use $100 K\Omega$ resistor in this application. Note 3 Some models use $47 K\Omega$ resistor in this application.

Note 4 Some models use $350 \text{K}\Omega$ resistor in this application.

TRANSFORMER (POWER)

						REPLACEMENT DATA					
ITEN No.		RAT	ING		Hallicrafters	STANCOR	MERIT	CHICAGO			
e	PRI.	SEC. 1	SEC. 2	SEC. 3	PART No.	PART No.	PART No.	PART No.			
Tl	117VAC @.71A	540VCT .105ADC		6.3VAC a) 3.5A	52C221 52C222 ①		P-3052 ④	PH-120 ③			

Used in model S-76U.
Add series resistor to reduce plate voltage.
Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

		RAT	ING			REPLACEM			
ITEM No.	IMPED				Hallicrafters	STANCOR	MERIT	CHICAGO	INSTALLATION NOTES
	PRI.	SEC.	PRI.	SEC.	PART No.	PART No.	PART No.	PART No.	
T2	7K Ω	500Ω	370Ω	52Ω	55B120	A-3878	A2900	RO-13	
		Tap		Tap .40					
		3.2Ω		· · · ·					

PARTS LIST AND DESCRIPTIONS (Continued) CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic

and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

				REPLACEMENT DATA						
ITEM		ATING Hallicrafters		AEROVOX	CENTRALAB	CORNELL-	ERIE	SPRAGUE	IDENTIFICATION CODE	
No.	CAP.	VOLT	PART No.	PART No.	PART No.	DUBILIER PART No.	PART No.	PART No.	INSTALLATION NOTES	
248	. 022	600	46A180	P688-022				6TM-S22	Fixed Padder	
249	. 25	200	46AT254J	P488-25		GT2P25		2TM-P25	RF Bypass	
C50	220	1	47B20221K5	SI220	D6-221	5R5T25	GP2K-221	5GA-T22	Diode RF Filter	
251	220		47B20221K5	SI220	D6-221	5R5T25	GP2K-221	5GA-T22	Diode RF Filter	
252	. 02	600	46AY203J	P688-02	DF-203	PTE6S2		6TM-S2	Audio Coupling	
253	. 02	600	46AY203J	P688-02	DF-203	PTE6S2		6TM-S2	Audio Coupling	
254	. 02	600	46AY203J	P688-02	DF-203	PTE6S2		6TM-S2	Audio Coupling	
255	220		47B20221K5	SI220	D6-221	5R5T25	GP2K-221	5GA-T22	RF Bypass	
256	. 005	600	46AY502J	P688-005	D6-502	PTE6D5	GP2-333-502	6TM-D5	Tone Comp.	
257	. 02	600	46AY203J	P688-02	DF-203	PTE6S2	{	6TM-S2	Audio Coupling	
258	. 01	600	46X35X103J	P688-01	D6-103	PTE6S1	GP2-333-103	6TM-S1	Output Plate	
259	. 02	600	46AY203J	P688-02	DF-203	PTE6S2		6TM-S2	BFO Feedback	
C60	470	500	47X20B471K	1469-0005		5R5T5		MS-35	BFO Grid Cap.	
261	560	500	47X20D561J						Fixed Trimmer	
262	. 02	600	46AY203J	P688-02	DF-203	PTE6S2		6TM-S2	RF Bypass	
263	47		47X20UK470K	SI47	D6-470	5R5Q5	GP1K-470	5GA-Q47	BFO Coupling	
264	. 05	200	46AU503J	P288-05	DF-503	PTE4S5		2TM-S5	Noise Limiter Filter	
265	. 01	600	46X35X103J	P688-01	D6-103	PTE6S1	GP2-333-103	6TM -S1	Line Filter	

CONTROLS

	RATING			LACEMENT DA	TA				
ITEM		NG	Hallicrafters	IRC	CLAROSTAT	CENTRALAB	INSTALLATION NOTES		
No.	RESIST- ANCE	WATTS	PART No.	PART No.	PART No.	PART No.			
RIA	10 K Ω	$\frac{1}{2}$	25B590	Q13-116	AM-81-Z	B-15	Sensitivity Control		
B	Shaft		Not Req.	Not Req.	RS-2	Not Req.	Attach to RIA Per Instructions.		
R2A	500KΩ	$\frac{1}{2}$	25B534	Q13-133	AM-60-Z	B-60	Volume Control		
В	Shaft		Not Req.	Not Req.	RS-2	Not Req.	Attach to R2A Per Instructions.		
R3A	500KΩ	1 12	25B605	Q13-133	AG-60-Z	B-60-S	Tone Control		
В	Shaft		Not Req.	Not Req.	RS-2	Not Req.	Attach to R3A Per Instructions.		
С	Switch		Not Req.	76-1	SWB	Not Req.	Attach to R3A Per Instructions.		
R4	500Ω	4	-		RTV-25		"S" Meter Adjustment-Wire Wound		

RESISTORS

			REPLACEM	ENT DATA	
ITEM No.	RATING	3	Hallicrafters		IDENTIFICATION CODES
	RESISTANCE	WATTS	PART No.	PART No.	
R5	22Ω	$\frac{1}{2}$	23X20X220K		Parasitic Suppressor
R6	15Ω	12	23X20X150K		Parasitic Suppressor
R7	1Meg	1212	23X20X105K	BTS-1Meg	RF Amp. Grid
R 8	180Ω	12	23X20X181K	BTS-180	RF Amp. Cathode
R 9	39K Ω	1	23X30X393K	BTA-39K	RF Amp. Screen
R 10	1000Ω	$\frac{1}{2}$	23X20X102K	BTS-1000	RF Choke Shunt
Rll	3300Ω	121212	23X20X332K	BTS-3300	RF Amp. Plate
R12	3300Ω	12	23X20X332K	BTS-3300	RF Amp. Plate
R13	6800Ω	1	23X30X682K	BTA-6800	RF Amp. Plate
R14	3300Ω	-12-12-12-12-12	23X20X332K	BTS-3300	RF Amp. Plate Decoupling
R15	15Ω	12	23X20X150K		Parasitic Suppressor
R15 R16	1.5Meg	12	23X20X155K	BTS-1.5Meg	1650KC Mixer Grid-See Note 1
R 17	22 00Ω	12	23X20X222K	BTS-2200	1650 KC Mixer Cathode
R18 حت	330KΩ	12	23X20X334K	'BTS-330K	1650 KC Mixer Screen
R 19	33 00Ω	12	23X20X332K	BTS-3300	1650 KC Mixer Plate Decoupling
R2 0	22ΚΩ	12	23X20X223K	BTS-22K	Osc. Grid
R21	10 K Ω	1	23X30X103K	BTA-10K	Osc. Plate
R22	15Ω	12	23X20X150K		Parasitic Suppressor
C R23	120KΩ	12	23X20X124K	BTS-120K	AVC Network-See Note 2
G R24	100Ω	12	23X20X101K	BTS-100	1650KC IF Amp. Cathode
S R25	8200Ω	[શ્ર]શ્ર]શ્ર]શ્	23X20X822K	BTS-8200	1650 KC IF Amp. Screen
	3300Ω	12	23X20X332K	BTS-3300	1650 Kt. IF Amp. Plate Decoupling
R27 ع	270Ω	±	23X20X271K	BTS-270	"S" Meter Shunt

PARTS LIST AND DESCRIPTIONS (Continued)

FILTER CHOKE

			RATINGS			REPLACEMEN			
ES	ITEM No.	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 S)	Hallicrafters PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	INSTALLATION NOTES
s	Ll	.105A	33 0Ω	9 Henries	56B107		C-2995 ②	R-231102	2 One new mounting hole.

COILS (RF-IF)

						/
				REPLACEM	ENT DATA	
ITEM No.	USE	PRI.	RES.	Hallicrafters PART No.	MEISSNER PART No.	NOTES
L2 L3 L4 L5 L6 L7 L8 L9A L9B L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21	Ant. Coil Ant. Coil Ant. Coil Ant. Coil RF Choke RF Coil RF Coil RF Coil Osc. Coil Osc. Coil Osc. Coil Osc. Coil Osc. Coil Ist IF Znd IF Osc. Coil Ist IF Pri. Ist IF Sec. Znd IF Sec. BFO Osc. Coil	. 2Ω . 3Ω . 4Ω 28Ω 1. 3Ω 9Ω 1. 5Ω 6. 5Ω 2Ω 2Ω . 5Ω . 5Ω . 5Ω . 5Ω . 8Ω . 4Ω 32Ω 32Ω 32Ω	0Ω .1Ω 1.5Ω 5.8Ω 0Ω .1Ω .1Ω .9Ω 2Ω .8Ω .8Ω	51B1325 51B1324 51B1323 51B1323 53A215 53A215 51B1327 51B1327 51B1327 51B1327 51B1327 51B1320 51B1320 51B1320 51B1320 51B1328 50B488 50B488 50B489 50B489 50B489 50B489		Band 4 Band 3 Band 2 Band 1 Band 3 Band 3 Band 4 Band 3 Band 1 Form Band 3 Band 4 Band 1 1650KC 1650KC 1600KC 50KC 50KC
L22	RF Choke	9Ω		54B045 53A107		(Tap 69Ω)

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEM Hallicrafters PART No.	ENT DATA	NOTES
M1 M2 M3 M4	Bayonet Bayonet Bayonet Bayonet	6-8 6-8 7.5 7.5	.25 .25 .2 .2	Blue Blue White White	39A 003 39A 003		Type number 44. Type number 44. Type number 51. Type number 51.

MISCELLANEOUS

ITEM PART NAME		HALLICRAFTERS PART No.	NOTES				
M5A	Switch	62B053	Band, Ant. Section				
в	Switch	62B053	Band, RF Section				
С	Switch	62B054	Band, Osc. Grid Section				
D	Switch	62B055	Band, Osc. Plate Section				
M6	Switch	60B399	Selectivity				
M7	Switch	60A138	AVC				
M8	Switch	60A138	AM-CW				
M 9	Switch	60A192	Receiver-Standby				
M 10	Switch	60A138	Limiter				
M 11	Meter	82C183	Carrier Level				
M12	3 Gang Var. Cap.	48C244	(12-420MMF) Each Section				
M13	3 Gang Var. Cap.	48C243	Bandspread				
	Cabinet	66D652					
	Dial Scale	83B387	Main				
	Dial Scale	83B388	Bandspread				

ltem	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
٧١	6CB6	0 V	26VDC	0 V	6.3VAC	260VDC	255VDC	26VDC	
V 2	6AU6	-3. SVDC	0 V	0 v	6.3VAC	255VDC	70VDC	4.6VDC	
V 3	6C4	85VDC	0 V	0 V	6.3VAC	85VDC	§-11VDC	0 v	
V 4	6BA6	0 V	26VDC	0 V	6.3VAC	260VDC	135VDC	26VDC	
ν5	6BE6	§-1.8VDC	1.4VDC	0 V	6.3VAC	260VDC	85VDC	0 V	
V 6	6BA6	0 v	26VDC	0 V	6.3VAC	250VDC	220VDC	26VDC	
V 7	6AL5	0 v	IVDC	0 V	4.3VAC	0 V	0 V	1VDC	
V 8	6SC7	0 V	▲115VDC	5VDC 1VDC	3VDC	95VDC	0 V	0 V	6.3VAC
٧9	6K6GT	0 v	0 v	265VDC	260VDC	0 V	280VDC	6.3VAC	16VDC
V 10	VR-150/0D3	ov	0 v	140 VDC	260VDC	140VDC	0 V	140VDC	0 V
V 11	5Y3GT	260VDC	280VDC	0 v	280VAC	0 V	280VAC	0 V	280VDC

VOLTAGE READINGS

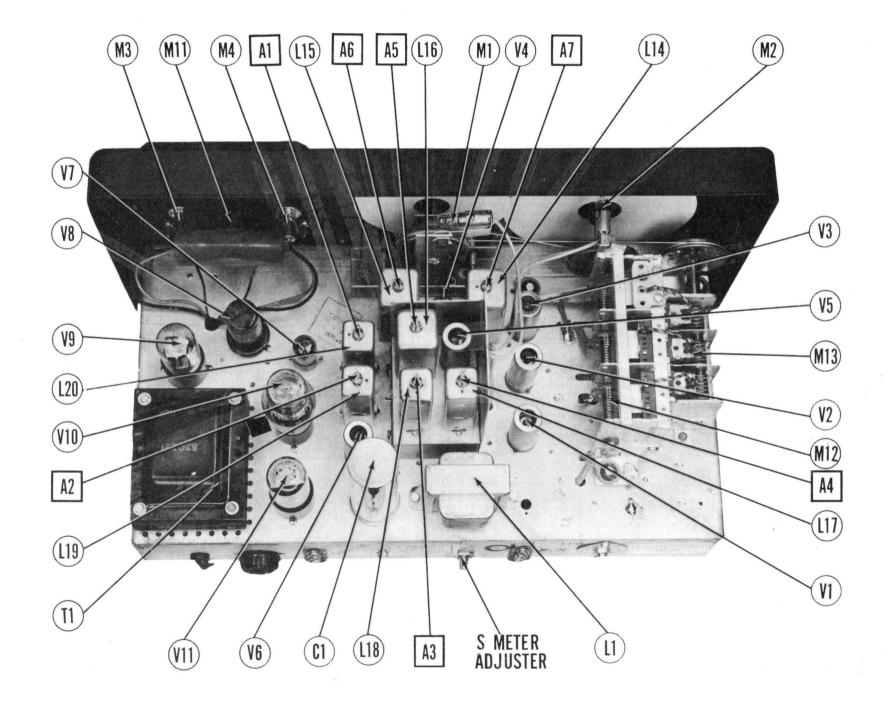
RESISTANCE READINGS

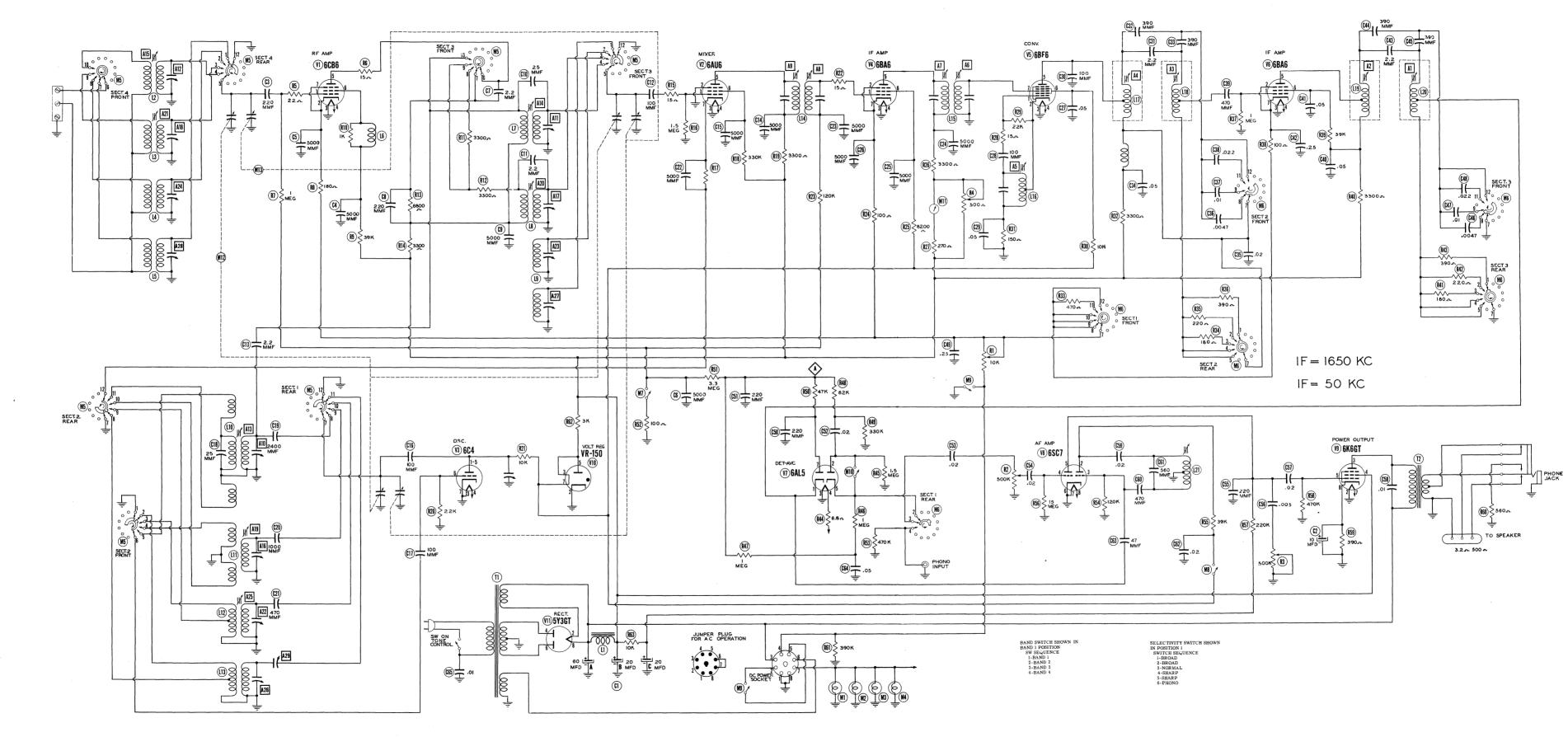
ltem	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin ó	Pin 7	Pin 8
V 1	6CB6	4.7 M eg	10 K Ω	0Ω .	. 1Ω	†10KΩ	†39K Ω	10K0	
V 2	6AU6	1.5 M eg	0Ω	0Ω	. 1Ω	†3.6KΩ	†330KΩ	2.2KΩ	
V 3	6C4	†13KΩ	Inf.	0Ω	. 1Ω	†1 3K Ω	22KΩ	ΩΟ	
V 4	6BA6	3.8Meg	10KΩ	Ω_0	. 1Ω	†3.6KΩ	†11 K Ω	10 K Ω	
V 5	6BE6	22K Ω	150Ω	0Ω	. 1Ω	†3.6KΩ	†13KΩ	.80	
V 6	6BA6	1Meg	10 K Ω	0Ω	. 1Ω	†3.6KΩ	†42KΩ	10KΩ	
V 7	6AL5	3 90Ω	1.5Meg	0Ω	2.5 Ω	2.4Meg	Inf.	450KΩ	
V 8	6SC7	0 Ω	† ▲42KΩ	120KΩ	15Meg	†230KΩ	0Ω	Ω0	. 1Ω
V 9	6K6GT	Inf.	Ω0	†37 0Ω	† 33 0Ω	470KΩ	†0Ω	.1Ω	3 90Ω
V 10	VR-150/0D3	Inf.	0Ω	†3.3KΩ	†330Ω	†3.3KΩ	Inf.	†3.3KΩ	Inf.
V 1 1	5Y3GT	† 33 0Ω	40KΩ	Inf.	70Ω	Inf.	78Ω	Inf.	40KΩ

▲ CW AND AM SWITCH IN CW POSITION. § TAKEN WITH VACUUM TUBE VOLTMETER. ALL MEASUREMENTS TAKEN IN BC BAND #1. ▲ CW AND AM SWITCH IN CW POSITION. † MEASURED FROM PIN 8 OF VII. SELECTIVITY SWITCH IN BROAD 1. AVC SWITCH IN ON POSITION. NOISE LIMITER SWITCH IN ON POSITION.

DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.

- Socket connections are shown as bottom views.
- 3. Measured values are from socket pin to common negative.
- 4. Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal ap-plied for voltage measurements.





A PHOTOFACT STANDARD NOTATION SCHEMATIC © Howard W. Sams & Co., Inc. 1951 143-9

.

.

	ALIGNMENT INSTRUCTIONS-READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT											
	To set dial turn tuning gang fully closed and set the zero on the logging scale under the dial index line. Turn the noise limiter and AVC switches to "off", send-receive switch to "receive", CW/AM switch to AM, and the band selector to "band 2". Turn both main tuning and bandspread capacitors to half meshed. During alignment of the 50KC IFs, (step 1), remove the first oscillator tabe, (V3). from its socket to prevent signal interferent Connect a 3.2 or 500Ω speaker.											
	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS				
1.	.01MFD	High side to term- inal 1 on L15. Low side to chassis.	50KC (unmod.)	2	Tuning gang half meshed.	Use VTVM DC Probe to Point A . Common to chassis.	Al, A2, A3, A4	Adjust in the order given for maximum deflection. Then repeat the adjustments in the same order.				
2.	"	High side to stator on center section of main tuning gang. Low side to chassis.	1650KC		"	n	A5, A6, A7, A8, A9	Replace V3. Adjust A5 for maximum deflection. Then retune signal gen. for maximur deflection. Adjust A6, A7, A8, and A9 for maximum deflection at the new frequency. Rotate th selectivity switch from step 5 t step 1. The reading on the VTY should decrease progressively, if not repeat step.1.				
3.	"	High side to terminal 1 on L15. Low side to chassis.	50KC (unmod.)	"	.,	Use speaker as indicator		Turn CW/AM switch to "CW". Remove pitch control knob. Turn pitch control shaft for zer beat indication on speaker. Replace knob with indicator lin straight up. Turn switch back to "AM".				
		BAND SPREAD, VOLU other controls as set.	ME, TONE, a	and SENSI	TIVITY controls	fully clockwis	e. Turn	the SELECTIVITY switch to 3.				
4.	330Ω carbon resistor	High side thru 330Ω to antenna terminal "A1", (connect link) Low side to chassis.	30MC (400∿ Mod.)	4	30MC	DC Probe to Point A . Common to chassis.	A10, A11 A12	Adjust for maximum deflection				
5.		"	14MC		14MC	"	A13, A14 A15	Adjust for maximum deflection Repeat steps 4 and 5 until no further improvement can be made.				
6.	"	17	11.5MC	3	11.5MC	"	A16, A17 A18	Adjust for maximum deflection				
7.	.,	п	5.1MC	"	5.1MC	"	A19, A20 A21	Adjust for maximum deflection. Repeat steps 6 and 7 until no further improvementscan be made.				
8.	.,	"	4.6MC	2	4.6MC	"	A22, A23 A24	Adjust for maximum deflection				
9.	"	"	1.925MC	"	1.925MC		A25	Adjust for maximum deflection Repeat steps 8 and 9 until no further improvement can be made.				
10.		"	1400KC	1	1400KC	"	A26, A27, A28	Adjust for maximum deflection				
п.	'n		600KC	"	600KC		A29	Adjust for maximum deflection Repeat steps 10 and 11 until no further improvement can be made.				

