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Received from Neil Skok
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SERVICE DATA MODEL WR-1000

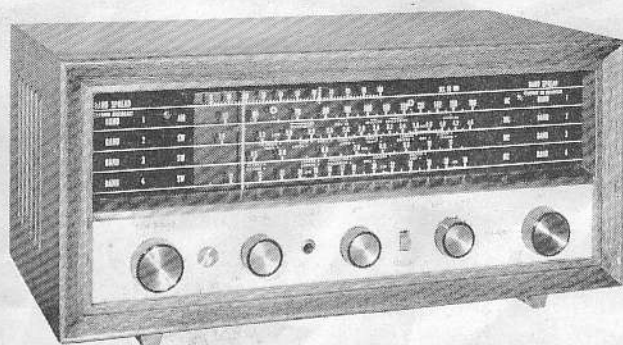


Figure 1. Hallicrafters Model WR-1000.

TECHNICAL SPECIFICATIONS

TUBES Four, plus rectifier
SPEAKER 5 inch PM, 8 ohm voice coil
ANTENNA Broadcast - Self contained ferrite
loopstick
Short wave - 45' collapsible whip
antenna and provision for single
wire or 50-600 ohm line
POWER SUPPLY.. 105-125 volts DC or AC (50/60 CPS)
POWER CONSUMPTION 30 watts
INTERMEDIATE FREQUENCY..... 455 KC
FREQUENCY COVERAGE 540 KC to 31 MC
DIMENSIONS.. 6-3/4" high, 14-1/2" wide, 9" deep
WEIGHT..... 11-3/4 lbs.
SHIPPING WEIGHT 14 lbs. approximately

TUBE AND DIAL LAMP REPLACEMENT

For access to the tubes, remove the cabinet rear panel which is held in place by two screws. Care should be exercised so as not to damage the leads to the loopstick antenna mounted on the inside of the rear panel. For dial lamp replacement, remove the chassis from the cabinet (see CHASSIS REMOVAL).

CHASSIS REMOVAL

To remove the chassis from the cabinet, remove the four screws that secure the chassis to the cabinet bottom. Slide the chassis out the rear of the cabinet.

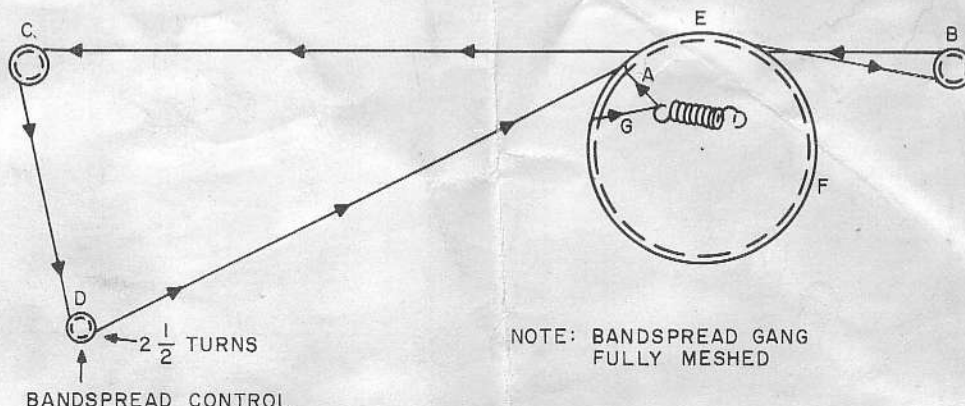
CAUTION: Just before removing the chassis from the cabinet rotate the MAIN TUNING and BAND SPREAD controls fully counterclockwise to prevent damage of the tuning capacitors.

DIAL CORD RESTRINGING

Remove the chassis from the cabinet to restring either dial cord (see CHASSIS REMOVAL).

To restring the BAND SPREAD dial cord remove control knobs, phone jack retaining nut, dial scale (two screws), and dial plate (four hex head screws). Care should be taken when removing the dial plate not to damage the pointers. Referring to figure 2, follow the arrows and letter sequence to string the dial cord. The dial cord spring should be expanded from 1/4" to 1/2". Place the BAND SPREAD pointer on the bottom of the dial rail and engage the dial cord with the pointer clips. Replace the dial plate, dial scale, and control knobs. With the BAND SPREAD control fully counterclockwise, align the pointer on "O" and apply a drop of cement to the dial cord and pointer clip. Replace chassis in the cabinet.

To restring the MAIN TUNING dial cord with the chassis removed from the cabinet, refer to figure 7 and follow the arrows and letter sequence. The dial cord spring should be expanded 1/4" to 1/2". Place the MAIN TUNING pointer on the dial rail and engage the dial cord with the pointer clips. With the MAIN TUNING control fully counterclockwise, align the pointer with "O" on the BAND SPREAD scale and apply a drop of cement to the dial cord and pointer clip. Replace the chassis in the cabinet.



092-009505

Figure 2. Band Spread, Stringing Diagram Front View

ALIGNMENT PROCEDURE ManualsPlus.com

- Use an amplitude modulated generator covering 455 KC to 30 MC.
- Connect the output meter across the speaker voice coil.
- Use a non-metallic alignment tool.
- Use a standard EIA dummy antenna as shown in figure 3.
- Set BFO control to OFF, VOLUME control maximum clockwise, RECEIVE/STANDBY control to RECEIVE, and the BANDSPREAD control to 100.
- Refer to figures 4 and 5 for location of adjustments.

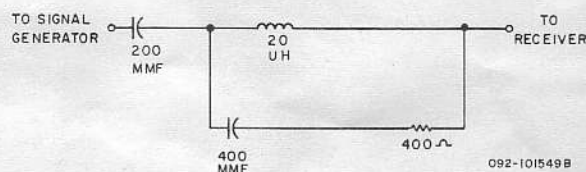


Figure 3. EIA Dummy Antenna

Step	Signal Generator Connections	Generator Frequency	Band Selector Setting	Receiver Dial Setting	Adjust
*1	High side through a .01 mfd capacitor to stator plates of rear section of TUNING capacitor.	455 KC (30% mod.)	1	1.0 MC	A, B, C and D for maximum output. Keep reducing the generator output to keep the output meter below 50 milliwatts.
2	High side through EIA antenna to terminal ANT on rear of chassis. Low side to chassis.	1400 KC (30% mod.)	1	1400 KC	C1 and C24 for maximum output as in step 1.
3	Same as step 2.	600 KC (30% mod.)	1	600 KC	L1 for maximum output as in step 1.
4	Same as step 2.	-	1	-	Repeat steps 2 and 3 until no increase in output can be obtained on either adjustment.
5	Same as step 2.	4.3 MC (30% mod.)	2	4.3 MC	C2 and C25 for maximum output as in step 1.
6	Same as step 2.	1.9 MC (30% mod.)	2	1.9 MC	T2 and L2 for maximum output as in step 1.
7	Same as step 2.	-	2	-	Repeat steps 5 and 6 until no increase in output can be obtained.
8	Same as step 2.	11 MC (30% mod.)	3	11 MC	C3 and C26 for maximum output as in step 1.
9	Same as step 2.	5 MC (30% mod.)	3	5 MC	T3 and L3 for maximum output as in step 1.
10	Same as step 2.	-	3	-	Repeat steps 8 and 9 until no increase in output can be obtained.
11	Same as step 2.	30 MC (30% mod.)	4	30 MC	C4 and C27 for maximum output as in step 1.
12	Same as step 2.	14 MC (30% mod.)	4	14 MC	T4 and L4 for maximum output as in step 1.
13	Same as step 2.	-	4	-	Repeat steps 11 and 12 until no increase in output can be obtained.

*Before beginning IF procedure, rotate AM/CW ratio control to its full counterclockwise position.

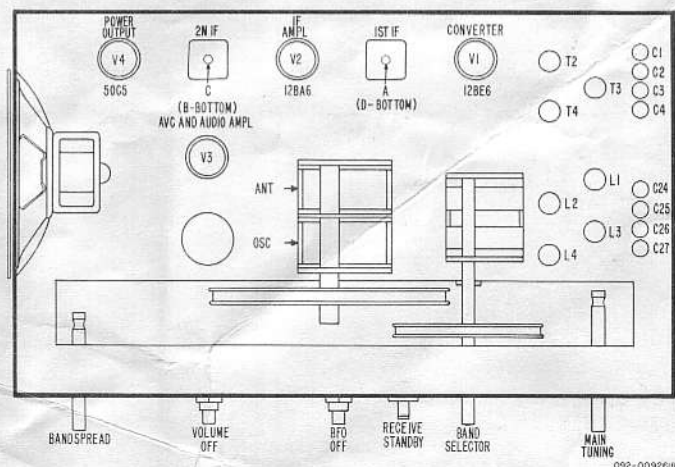


Figure 4. Chassis, Top View

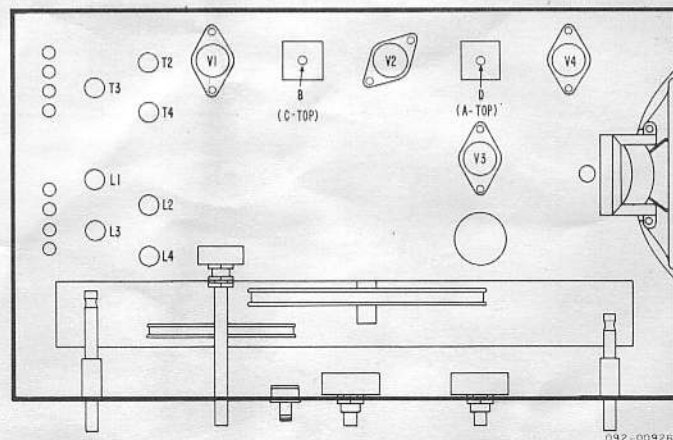
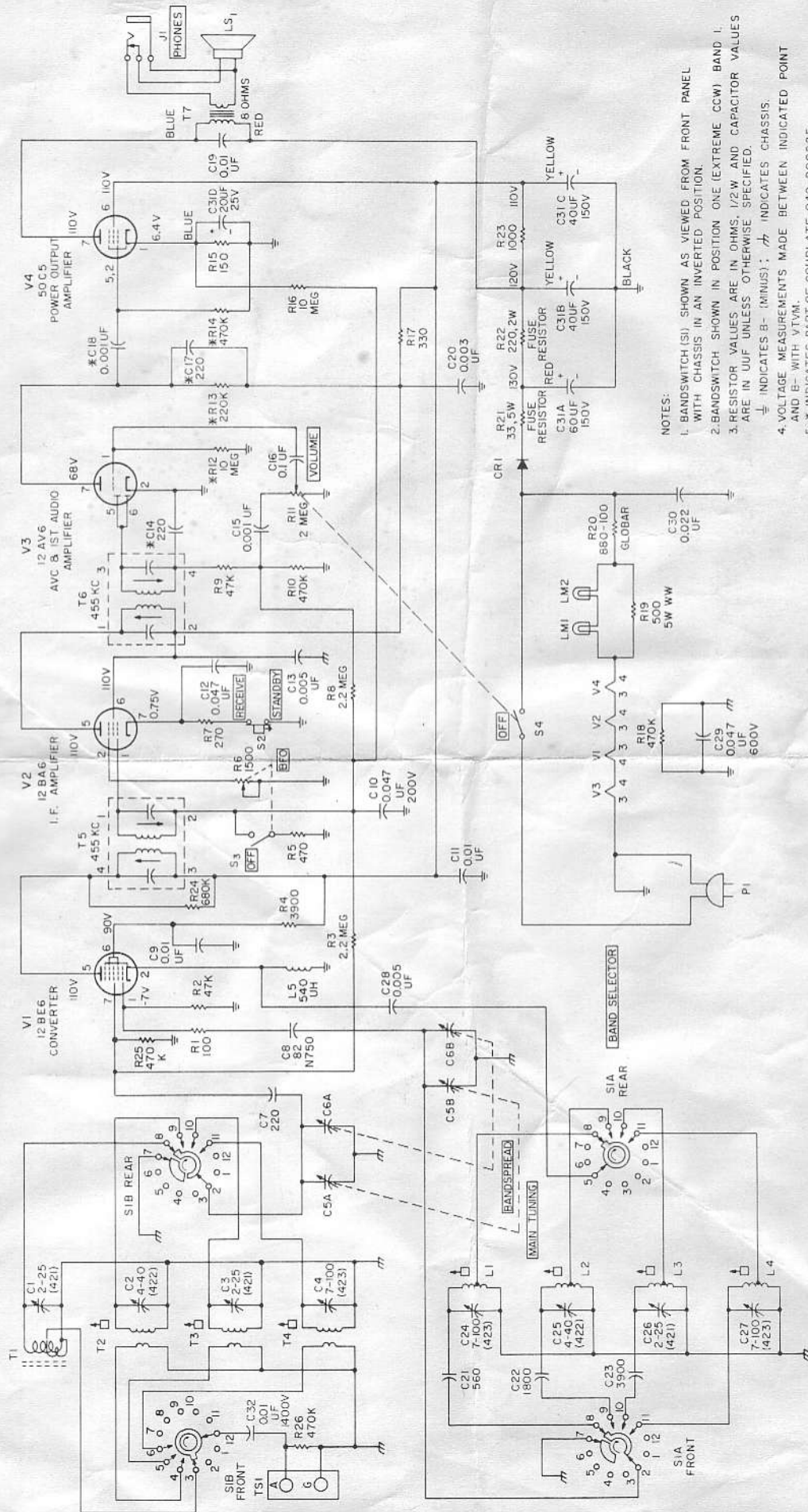


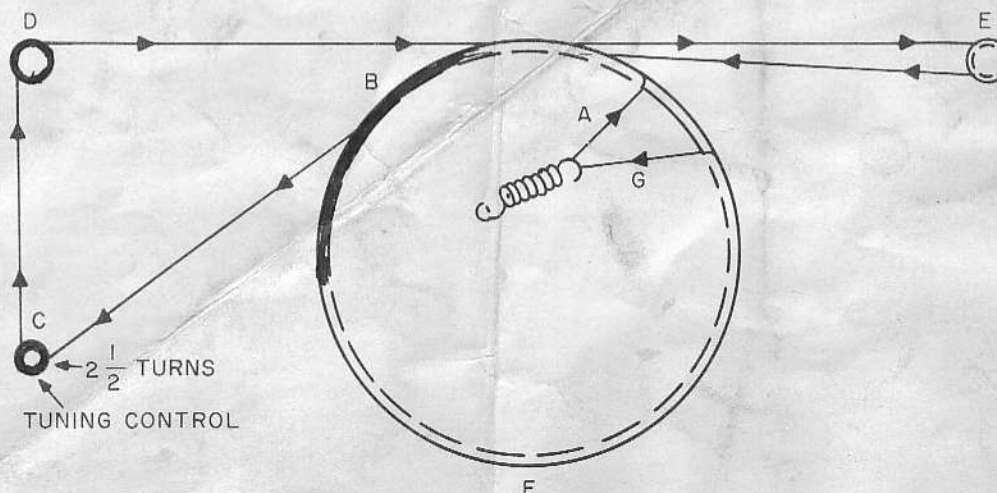
Figure 5. Chassis, Bottom View



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Figure 6. Schematic Diagram.

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
CAPACITORS			*RESISTORS (CONT)			TUBES, LAMPS, AND RECTIFIERS		
C1,2,3,4	Variable, Quad Trimmer Assembly, 2-25, 4-40, 2-25, 7-100 μ F (Inc. mounting bracket)	044-000533	R11	Variable, 2 Megohms, 30%, 1/8 watt, VOLUME (Inc. S4)	025-002025	CR1	Rectifier, Selenium	027-000290
C5A&B	Variable, MAIN TUNING	048-000479	R12,13,14	Part of Audio Couplate	-----	LML,2	Dial Lamp, NO. 47	039-100004
C6A&B	Variable, BAND SPREAD	048-000477	R15	150 Ohms	451-252151	V1	Tube, Type 12BE6	090-900040
C7	220 μ F, 20%, 500V, Ceramic Tubular	483-021221	R16	10 Megohms	451-252106	V2	Tube, Type 12BA6	090-900039
C8	82 μ F, 10%, 500V, N750, Ceramic Tubular	491-126820-95	R17	330 Ohms	451-252331	V3	Tube, Type 12AV6	090-901187
C9	0.01 μ F, GMV, 500V, Ceramic Disc	047-100224	R19	500 Ohms, 5 watts, wire wound	024-001328-06	V4	Tube, Type 50C5	090-900541
C10	0.047 μ F, 20%, 200V, Molded Paper	499-014473	R20	880-100 Ohms, Globar	023-000327	MISCELLANEOUS		
C11	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100217	R21	Resistor, Fuse, 33 Ohms 5 watts	024-001398	Antenna, Telescoping Type		057-000421
C12,29	0.047 μ F, 20%, 600V, Molded Paper	499-034473	R22	Resistor, Fuse, 220 Ohms, 2 watts	024-001399	Base, Tube Shield (V1)		076-100402
C13,28	0.005 μ F, 20%, 500V, Ceramic Disc	047-100442	R23	1000 Ohms	451-252102	Bracket, Antenna		067-009150
C14,17,18	Part of Audio Couplate	-----	R24	680K Ohms	451-252684	Bracket, Dial Plate		067-008766
C15	0.001 μ F, 20%, 600V, Molded Paper	499-034102	*ALL RESISTORS are carbon type, 10%, 1/2 watt unless otherwise specified.			Cabinet, Blonde		078-001714-03
C16	0.1 μ F, 20%, 100V, Molded Paper	046-001259-05	COILS AND TRANSFORMERS			Cabinet, Mahogany		078-001714-01
C19	0.01 μ F, 20%, 600V, Molded Paper	499-034103	L1	Coil, Oscillator (Band 1)	051-003476	Cabinet, Walnut		078-001714-02
C20	0.003 μ F, 20%, 600V, Molded Paper	499-034302	L2	Coil, Oscillator (Band 2)	051-003477	Clip, IF Transformer Mounting		076-100385
C21	560 μ F, 5%, 125V, Plastic	505-102561	L3	Coil, Oscillator (Band 3)	051-003478	Clip, Fuse Type (Antenna Mounting)		076-102724
C22	1800 μ F, 5%, 125V, Plastic	505-102182	L4	Coil, Oscillator (Band 4)	051-003479	Couplate, Audio		049-000225
C23	3900 μ F, 5%, 125V, Plastic	505-102392	L5	Coil, 540 μ H RF Choke	053-100107	Dial Cord		038-000049
C24,25,26,27	Variable Quad Trimmer Assembly, 7-100, 4-40, 2-25, 7-100 μ F (Inc. mounting bracket)	044-000534	T1	Loopstick Antenna	150-001606	Dial Scale, Calibrated		083-000982
C30	0.022 μ F, 20%, 600V, Molded Paper	499-034223	T2	Coil, RF (Band 2)	051-003473	Grommet, Nylon Plastic (Dial scale mounting)		002-202445
C31A,B,C&D	60-40-40 μ F, 150V; 20 μ F, 25V; Electrolytic	045-000711	T3	Coil, RF (Band 3)	051-003474	Grommet, (Capacitor stabilized plate)		016-100718
C32	0.01 μ F, 1400V, Spark-Gap type, Ceramic Disc	047-001309	T4	Coil, RF (Band 4)	051-003475	Grommet, (Capacitor stabilized plate)		016-100661
*RESISTORS			T5	Transformer, First IF	050-300531	Iron Core		003-004564
R1	100 Ohms	451-252101	T6	Transformer, Second IF	050-300532	Knob, BAND SELECTOR		015-001764-03
R2,9	47K Ohms	451-252473	T7	Transformer, Audio Output	Part of LS1	Knob, BAND SPREAD and MAIN TUNING		015-001779-02
R3,8	2.2 Megohms	451-252225	SWITCHES			Knob, BFO and VOLUME		015-001764-03
R4	3900 Ohms	451-252392	S1A&B	BAND SELECTOR	060-002526	Lock, Line Cord		076-200397
R5	470 Ohms	451-252471	S2	STANDBY - RECEIVE	060-002548	Plate, Dial		063-004908
R6	Variable, 1500 Ohms 30%, 1/4 watt, BFO (Inc. S3)	025-002024	S3	BFO - OFF	Part of R6	Pointer, BAND SPREAD		082-000471
R7	270 Ohms	451-252271	S4	VOLUME - OFF	Part of R11	Pointer, MAIN TUNING		082-000472
R10,18,25,26	470K Ohms	451-252474	SOCKETS AND CONNECTORS			Pointer, MAIN TUNING		082-000472
			J1	Jack, PHONES	036-000339	Ring, Electrolytic Mounting		076-003384
			P1	Line Cord and Plug	087-100078	Ring, Retaining		076-100883
			TS1	Terminal Board, Antenna	088-100020	Shaft, BAND SPREAD		074-002606
						Shaft, MAIN TUNING		074-002607
						Shield, Tube (V1)		069-100232
						Speaker, 8-Ohm (Inc. T7)		085-000210
						Spring, Dial Cord		075-100012



NOTE: TUNING GANG FULLY MESHD

092-009506