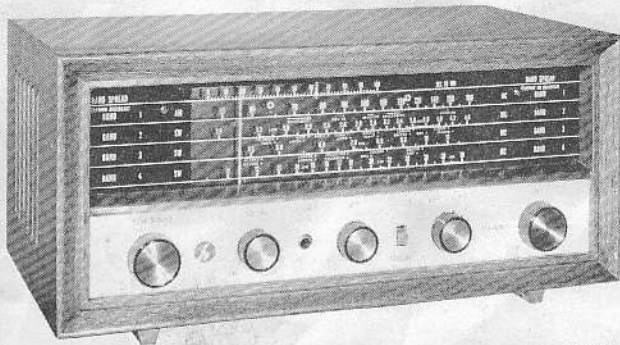




AD 2-2656
AD 2-2650

Received from Neil Skok
12-15-88

SERVICE DATA MODEL WR-1000



092-016787

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.

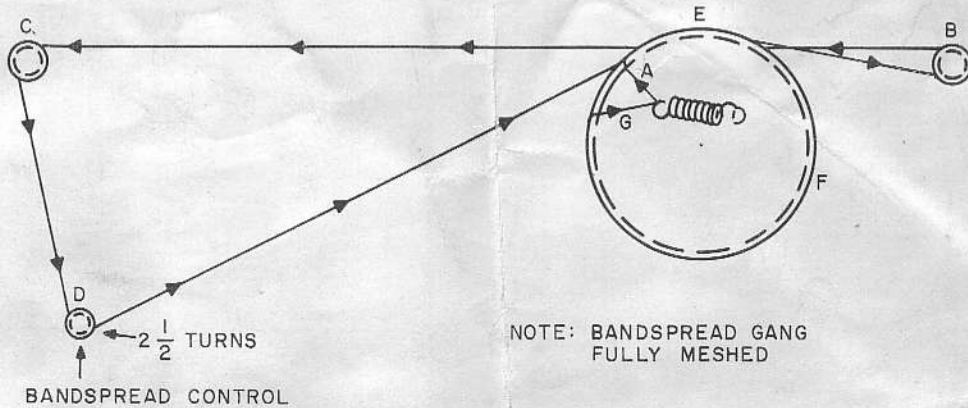
CAUTION: Just before removing the chassis from the cabinet rotate the MAIN TUNING and BAND SPREAD controls fully counterclockwise to prevent damage of the tuning capacitors.

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

- 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 BAND SPREAD control to 100.
- Refer to figures 4 and 5 for location of adjustments.

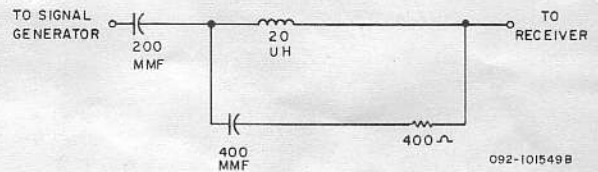


Figure 3. EIA Dummy Antenna

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.

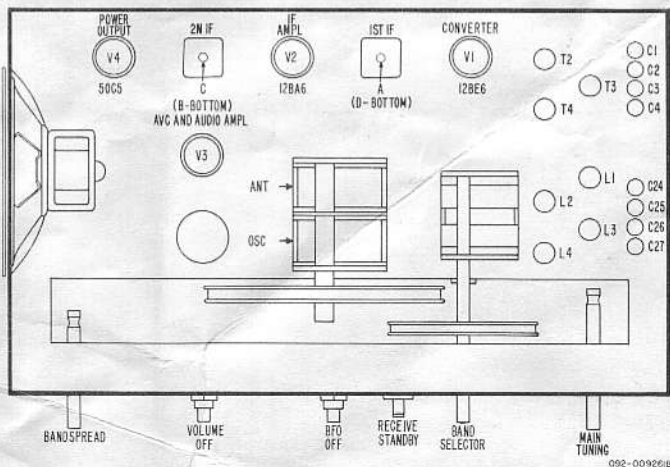


Figure 4. Chassis, Top View

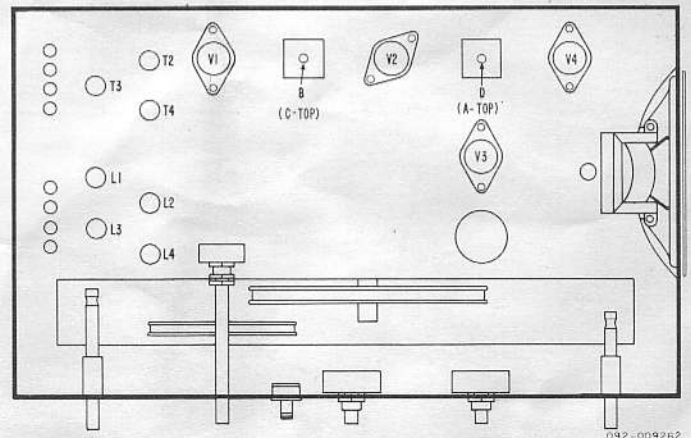
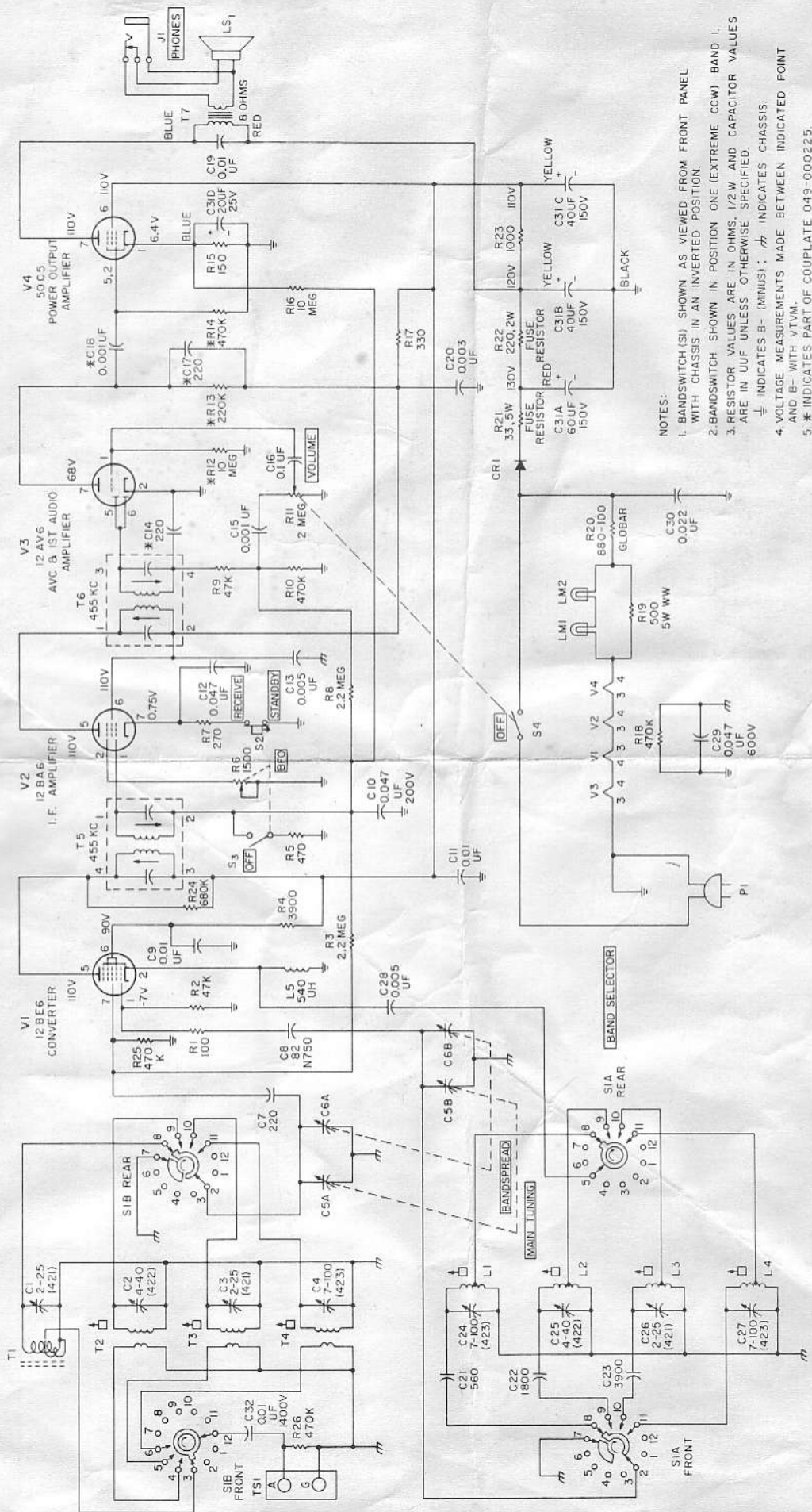


Figure 5. Chassis, Bottom View



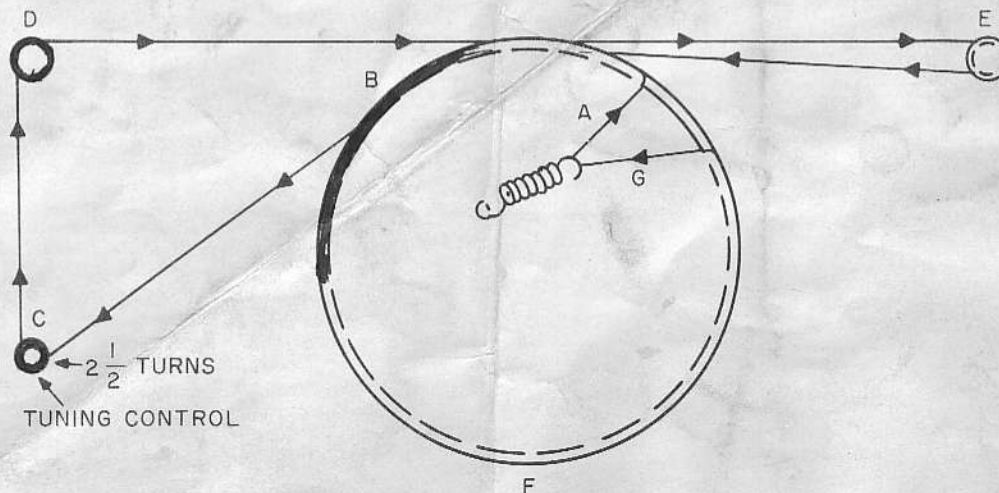
- NOTES:
1. BANDSWITCH (S1) SHOWN AS VIEWED FROM FRONT PANEL WITH CHASSIS IN AN INVERTED POSITION.
 2. BANDSWITCH SHOWN IN POSITION ONE (EXTREME CCW) BAND 1.
 3. RESISTOR VALUES ARE IN OHMS; 1/2 W AND CAPACITOR VALUES ARE IN UF UNLESS OTHERWISE SPECIFIED.
 4. VOLTAGE MEASUREMENTS MADE BETWEEN INDICATED POINT AND B- WITH VTVM.
 5. * INDICATES PART OF COUPLATE 049-000225.

089-002495C

Figure 6. Schematic Diagram.

SERVICE REPAIR PARTS LIST

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 Dial Lamp, NO. 47	027-000290
C5A&B	Variable, MAIN TUNING	048-000479	R12,13,14	Part of Audio Couplate	-----	LML,2	Tube, Type 12BE6	039-100004
C6A&B	Variable, BAND SPREAD	048-000477	R15	150 Ohms	451-252151	V1	Tube, Type 12BA6	090-900040
C7	220 μ F, 20%, 500V, Ceramic Tubular	483-021221	R16	10 Megohms	451-252106	V2	Tube, Type 12AV6	090-901187
C8	82 μ F, 10%, 500V, N750, Ceramic Tubular	491-126820-95	R17	330 Ohms	451-252331	V3	Tube, Type 50C5	090-900541
C9	0.01 μ F, GMV, 500V, Ceramic Disc	047-100224	R18	500 Ohms, 5 watts, wire wound	024-001328-06	MISCELLANEOUS		
C10	0.047 μ F, 20%, 200V, Molded Paper	499-014473	R19	880-100 Ohms, Globar	023-000327	Antenna, Telescoping Type		
C11	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100217	R20	Resistor, Fuse, 33 Ohms 5 watts	024-001398	Base, Tube Shield (V1)		
C12,29	0.047 μ F, 20%, 600V, Molded Paper	499-034473	R21	Resistor, Fuse, 220 Ohms, 2 watts	024-001399	Bracket, Antenna		
C13,28	0.005 μ F, 20%, 500V, Ceramic Disc	047-100442	R22	1000 Ohms	451-252102	Bracket, Dial Plate		
C14,17,18	Part of Audio Couplate	-----	R23	680K Ohms	451-252684	Cabinet, Blonde		
C15	0.001 μ F, 20%, 600V, Molded Paper	499-034102	R24	*ALL RESISTORS are carbon type, 10%, 1/2 watt unless otherwise specified.		Cabinet, Mahogany		
C16	0.1 μ F, 20%, 100V, Molded Paper	046-001259-05	COILS AND TRANSFORMERS			Cabinet, Walnut		
C17	0.01 μ F, 20%, 600V, Molded Paper	499-034103	L1	Coil, Oscillator (Band 1)	051-003476	Clip, IF Transformer Mounting		
C18	0.003 μ F, 20%, 600V, Molded Paper	499-034302	L2	Coil, Oscillator (Band 2)	051-003477	Clip, Fuse Type (Antenna Mounting)		
C19	560 μ F, 5%, 125V, Plastic	505-102561	L3	Coil, Oscillator (Band 3)	051-003478	Couplate, Audio		
C20	1800 μ F, 5%, 125V, Plastic	505-102182	L4	Coil, Oscillator (Band 4)	051-003479	Dial Cord		
C21	3900 μ F, 5%, 125V, Plastic	505-102392	L5	Coil, 540 μ H RF Choke	053-100107	Dial Scale, Calibrated		
C22,25	Variable Quad Trimmer Assembly, 7-100, 4-40, 2-25, 7-100 μ F (Inc. mounting bracket)	044-000534	T1	Loopstick Antenna	150-001606	Grommet, Nylon Plastic (Dial scale mounting)		
C23	0.022 μ F, 20%, 600V, Molded Paper	499-034223	T2	Coil, RF (Band 2)	051-003473	Grommet, (Speaker and Tuning capacitor mounting)		
C24,26,27	60-40-40 μ F, 150V; 20 μ F, 25V; Electrolytic	045-000711	T3	Coil, RF (Band 3)	051-003474	Grommet, (Capacitor stabilized plate)		
C28	0.01 μ F, 1400V, Spark-Gap type, Ceramic Disc	047-001309	T4	Coil, RF (Band 4)	051-003475	Iron Core		
C30	100 Ohms	451-252101	T5	Transformer, First IF	050-300531	Knob, BAND SELECTOR		
C31A,B,C&D	47K Ohms	451-252473	T6	Transformer, Second IF	050-300532	Knob, BAND SPREAD and MAIN TUNING		
C32	2.2 Megohms	451-252225	T7	Transformer, Audio Output	Part of LS1	Knob, BFO and VOLUME		
*RESISTORS			SWITCHES			SOCKETS AND CONNECTORS		
R1	470 Ohms	451-252392	S1A&B	BAND SELECTOR	060-002526	Lock, Line Cord		
R2,9	470 Ohms	451-252471	S2	STANDBY - RECEIVE	060-002548	Plate, Dial		
R3,8	Variable, 1500 Ohms 30%, 1/4 watt, BFO (Inc. S3)	025-002024	S3	BFO - OFF	Part of R6	Pointer, BAND SPREAD		
R4	270 Ohms	451-252271	S4	VOLUME - OFF	Part of R11	Pointer, MAIN TUNING		
R5	470K Ohms	451-252474	J1 Jack, PHONES			Ring, Electrolytic		
R6	470K Ohms	451-252474				P1 Line Cord and Plug		
R7	470K Ohms	451-252474	TS1 Terminal Board, Antenna			Ring, Retaining		
R10,18,25,26	470K Ohms	451-252474				006-101056 Socket, Tube, Wafer type (V1 through V4)		
			088-100020 Socket Assembly, Dial Light					
						086-000578		
			LS1					



NOTE: TUNING GANG FULLY MESHD

092-009506

Figure 7. Main Tuning Stringing Diagram, Rear View