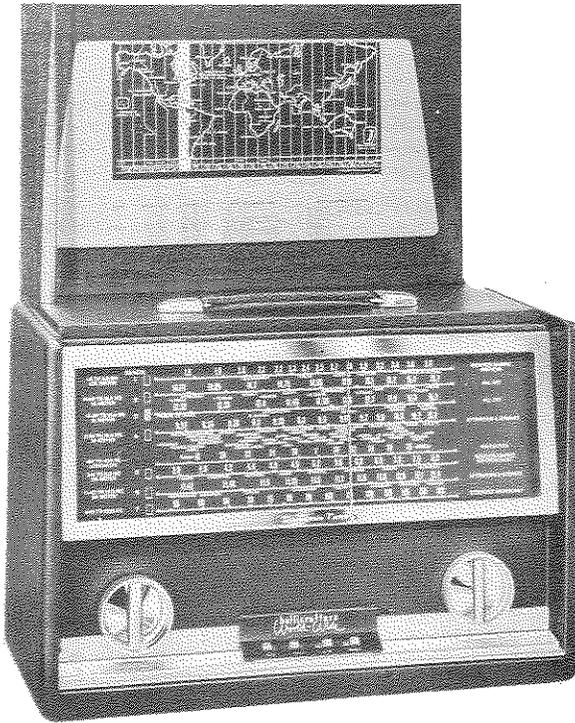


the hallicrafters co.
MANUFACTURERS OF RADIO AND ELECTRONIC EQUIPMENT, CHICAGO 24, U. S. A.

TECHNICAL SPECIFICATIONS



Hallicrafters World-Wide Portable
Model TW-1000

TUBES AND RECTIFIERS 5 tubes plus 1 selenium rectifier
 POWER SUPPLY . . . 105-120 volt DC or 50/60 cycle AC;
 90V "B" / 9V "A" battery pack;
 220 volt AC/DC with Ballast Adapter 1X1438.
 POWER CONSUMPTION 20 watts
 SPEAKER 5 X 7 inch oval; 3.2-ohm voice coil
 HEADPHONE OUTPUT IMPEDANCE 3.2 ohms
 INTERMEDIATE FREQUENCY 455 KC
 ANTENNA Loop and "Skyrider" for bdst and LW bands, SW whip, and terminals for long wire for use on all bands.

FREQUENCY COVERAGE

Band	Frequency Range
1	1.8 - 3.9 MC
2	14.62 - 15.7 MC
3	17.32 - 18.2 MC
4	9.22 - 10.3 MC
5	3.9 - 8.0 MC
6	11.42 - 12.3 MC
7	540 - 1600 KC
LW	180 - 400 KC

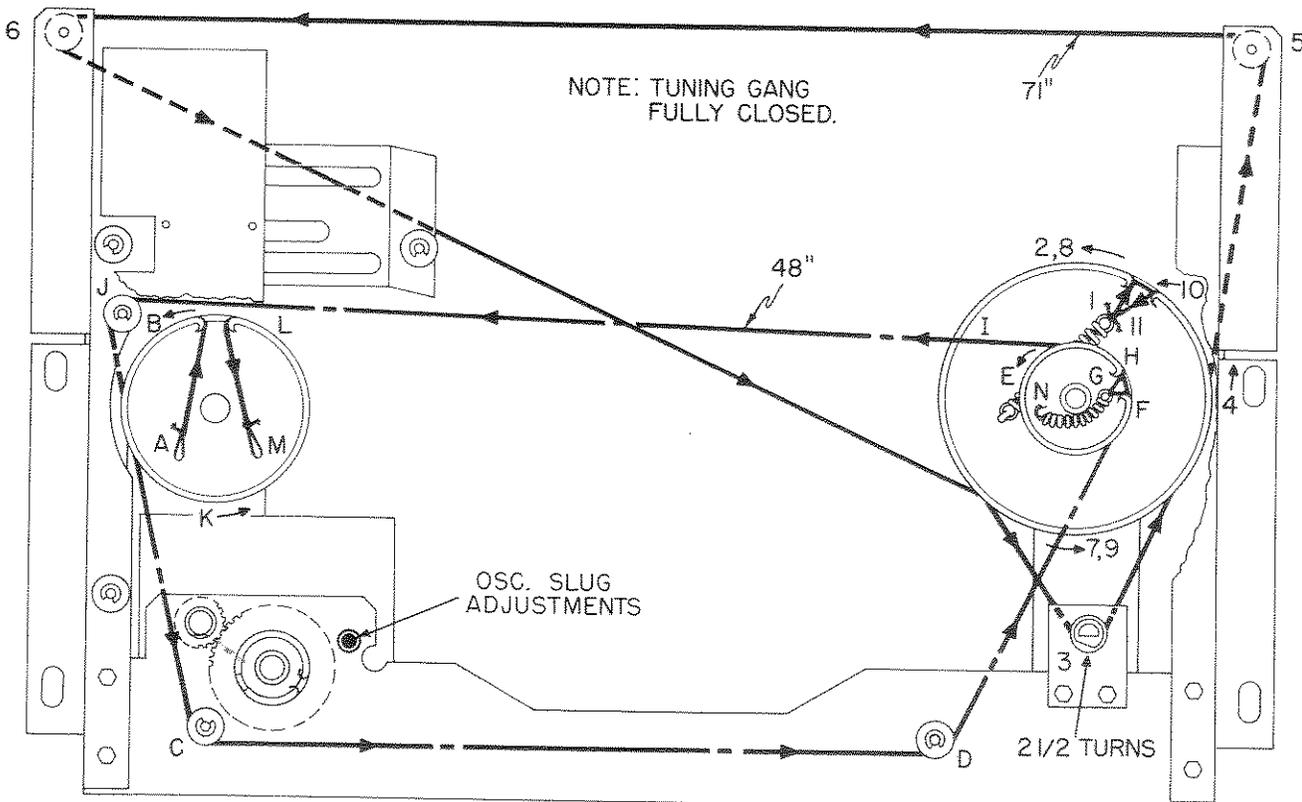


Fig. 1. Dial Pointer and Tuning Gang Stringing Diagram

**NOTE: BAND SELECTOR CONTROL
SET FULLY CLOCKWISE.**

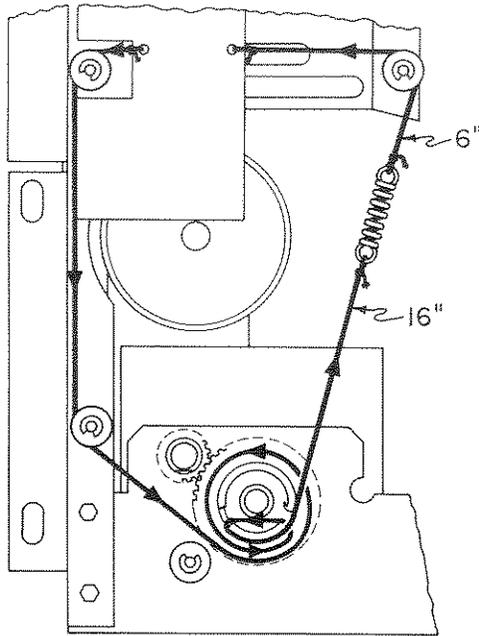


Fig. 2. Band Indicator Plate Stringing Diagram 9281819

TUNING DIAL

To tune bands 1 thru 7, set the Band Selector knob so that the red band indicator at the left side of the dial is opposite the desired band. To tune the longwave band (yellow band), rotate the Band Selector knob fully clockwise so that the yellow band indicators become visible at the left side of the dial.

REMOVING CHASSIS AND FRONT PANEL ASSEMBLY FROM CABINET

The chassis and entire front panel assembly may be removed from the cabinet by removing the three screws at the bottom of the cabinet and the two machine screw nuts on the inside of the front panel assembly. The whip and loop antenna plugs must be removed before removing the chassis from the cabinet.

TUNER SERVICE

GENERAL

The Dynamic Turret Tuner employed in the TW-1000 portable consists of a 1U4 RF amplifier stage and a 1L6 mixer-oscillator stage.

Band selection is accomplished by rotation of the tuner turret assembly, which has a separate set of two snap-in coil strips for each band. One strip contains the antenna coil and the other contains the RF and oscillator coils. (See Fig. 6). Coils can be identified as to band by the number stamped on the outside of the coil strip. Refer to the chart at the top of the schematic diagram for cross reference of coil marking, band, and frequency range.

Extreme care must be exercised in handling or servicing the tuner. Location and lead dress of components and wiring are usually very critical. Parts location and ground connections should be as originally made. The tuner was carefully aligned at the factory and should normally not require complete realignment under normal operating conditions.

Replacement of tubes (especially 1L6 mixer-oscillator) may cause some slight detuning of the tuner circuits. When replacing the 1L6, it may be necessary to touch up the oscillator slug adjustments. Replacement of the tuning gang may require complete realignment of the receiver.

Be sure that the coils are properly paired for the indicated band and that the coils follow proper sequence. Refer to chart at top of schematic diagram.

REMOVING TUNER FROM CHASSIS

- a. Remove the front control knobs.
- b. Remove dial escutcheon by removing the screws at sides and bottom.
- c. Remove dial scale by removing (4) screws at front of dial and (1) screw at rear.
- d. Disconnect the speaker leads.
- e. Remove baffle board assembly by removing the (2) long and (2) short machine screws.
- f. Remove large gear and pulley assembly by removing (2) Allen Head set screws.
- g. Disconnect the tuner leads.
- h. Remove (2) screws at front of chassis and (2) studs at rear of chassis holding tuner in place.
- i. Lift out tuner at rear and remove.

REMOVING TUNER TURRET ASSEMBLY

- a. Remove tuner from chassis as outlined above.
- b. Remove the front and rear turret retainer springs by depressing straight end of spring from tab on tuner chassis end plate.
- c. Grasp turret shaft at front and rear and remove turret from tuner assembly.
- d. For reassembly, position turret so that the stop at the rear end of turret is facing outward from the tuner assembly. Then press turret into position and replace front and rear turret retaining springs.

REMOVING SNAP-IN COIL STRIPS

Insert a screwdriver blade between the coil retainer spring and the turret end plate. Twist the blade away from the turret and lift the end of the coil upward and remove.

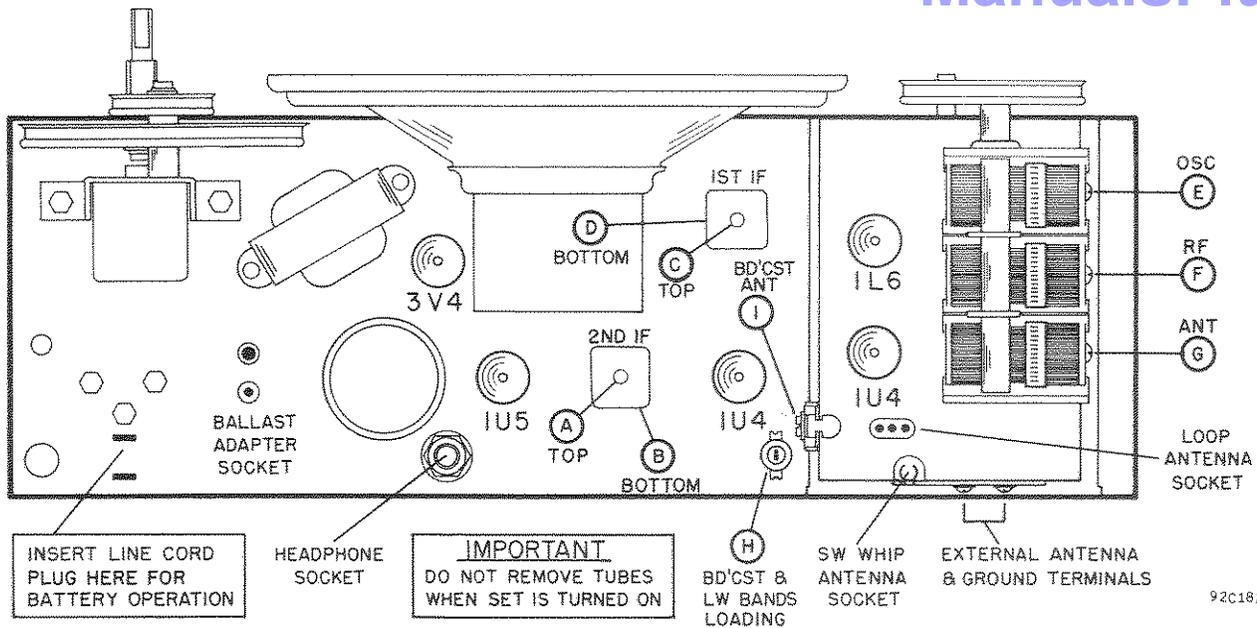


Fig. 3. Top View of Chassis Showing Location of Alignment Adjustments and Tubes

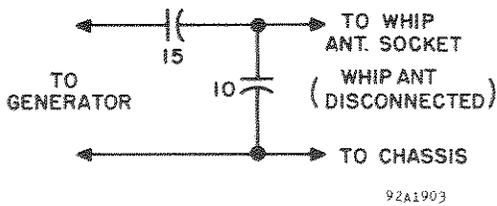


Fig. 4. Dummy Antenna for Bands 1 and 5

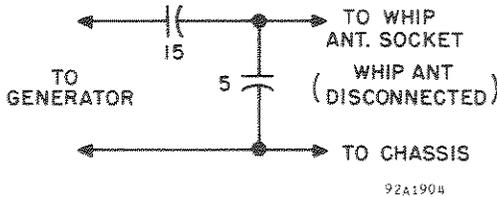


Fig. 5. Dummy Antenna for Bands 2, 3, 4 and 6

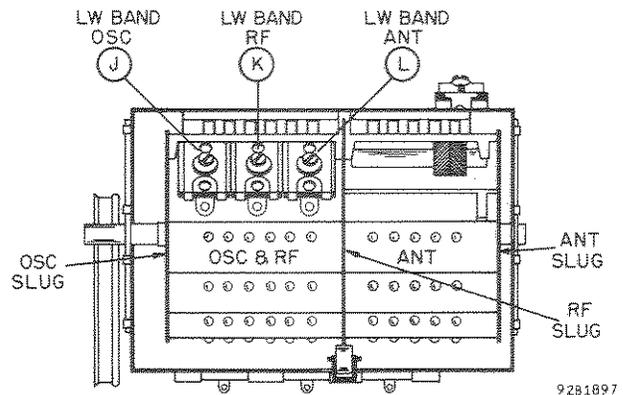


Fig. 6. Bottom View of Tuner Showing Location of Alignment Adjustments

ALIGNMENT INSTRUCTIONS

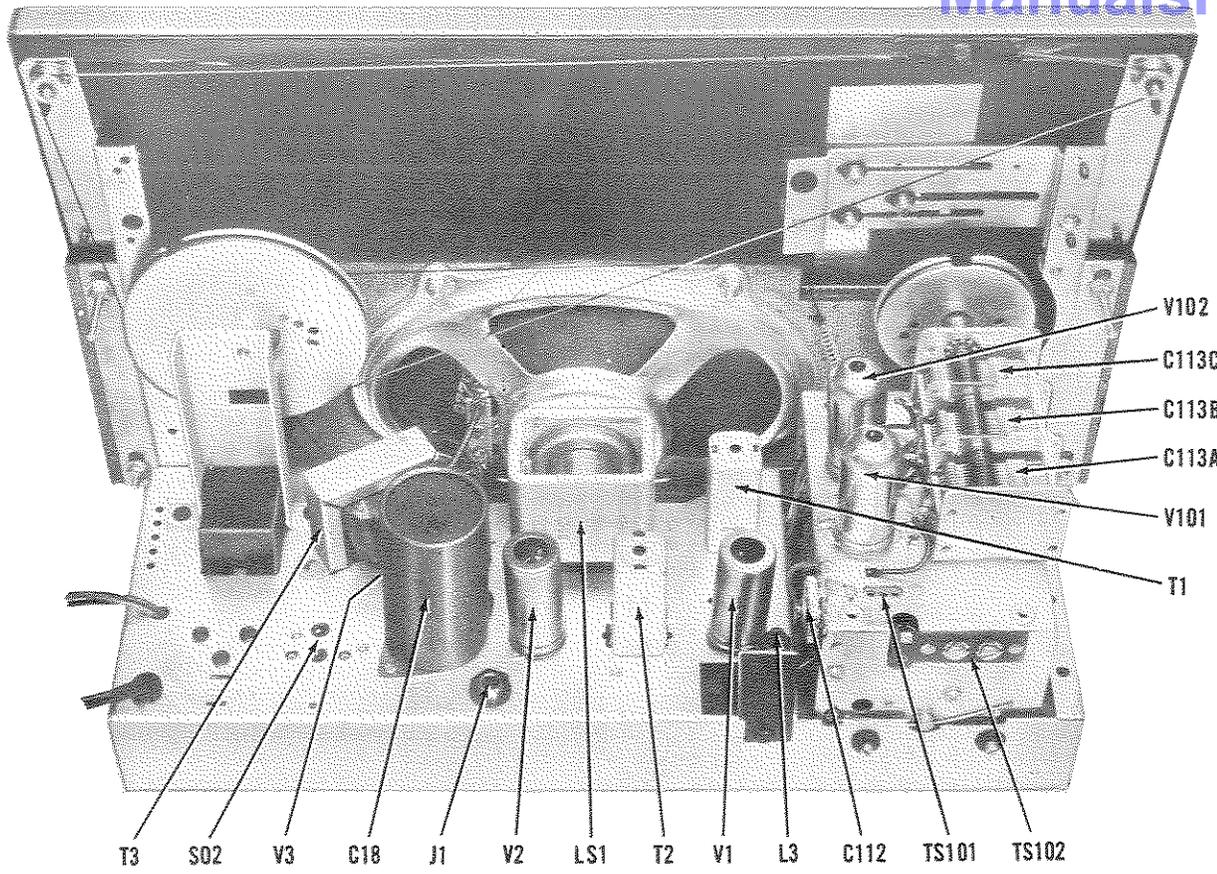
- Be sure both the set and the signal generator are thoroughly warmed up before starting alignment.
- Use an accurate signal generator which has a modulated output and covers 455 KC to 17.55 MC.
- Set the volume control at maximum and disconnect the SW whip antenna. Raise the front cover to place the loop in operating position.
- Use a non-metallic alignment tool with a 1/8 inch blade.
- Connect the output meter across the speaker voice coil.
- To avoid AVC action, use lowest output setting of signal generator which gives satisfactory reading on meter (approx. 50 milliwatts).
- To gain access to oscillator slug adjustments, it will first be necessary to remove the baffle board assembly and dial. This is accomplished by following steps (a) thru (e) under REMOVING TUNER FROM CHASSIS on page 3. The oscillator slugs may then be adjusted by placing a screwdriver thru the opening at the front of the tuner. (See Fig. 1). An opening is also provided at the rear of the tuner for access to the antenna slug adjustments. To gain access to the RF slug adjustments, it will first be necessary to unclip the antenna coil strip of the band being aligned. The RF slugs can then be adjusted by placing a screwdriver thru the opening at the rear of the tuner.
- Refer to Figs. 3 and 6 for location of alignment adjustments. The alignment adjustments are also shown on the schematic diagram.

ALIGNMENT PROCEDURE

Step	Signal Generator Connections	Generator Frequency	Band Selector Setting	Receiver Dial Setting	Adjust for Maximum Output
1	High side thru .1 mfd capacitor to stator plates of center section of tuning gang. Low side to chassis.	455 KC	7	1000 KC	A and B (2nd IF) C and D (1st IF)
2	Construct a loop of a few turns of wire and connect it to generator. Loosely couple this loop to the loop antenna of the receiver.	1500 KC	7	1500 KC	E (oscillator trimmer on gang)
3	Same as Step 2.	1400 KC	7	1400 KC	F (RF trimmer on gang)
4	Same as Step 2.	600 KC	7	600 KC	Oscillator and RF slugs.
5	Connect dummy antenna as shown in Fig. 4.	1.8 MC	1	1.8 MC	Oscillator slug
6	Same as Step 5.	2.2 MC	1	2.2 MC	RF slug
7	Same as Step 5.	3.5 MC	1	3.5 MC	G (antenna trimmer on gang)
8	Same as Step 2.	600 KC	7	600 KC	H (loading coil on main chassis)
9	Same as Step 2.	1400 KC	7	1400 KC	I (antenna trimmer on side of tuner)
10	Connect dummy antenna as shown in Fig. 5.	14.6 MC	2	Gang Closed	Oscillator slug
11	Same as Step 10.	14.8 MC	2	14.8 MC	RF and antenna slugs
12	Same as Step 10.	17.3 MC	3	Gang Closed	Oscillator slug
13	Same as Step 10.	17.55 MC	3	17.55 MC	RF and antenna slugs
14	Same as Step 10.	9.2 MC	4	Gang Closed	Oscillator slug
15	Same as Step 10.	9.5 MC	4	9.5 MC	RF and antenna slugs
16	Same as Step 5.	4.0 MC	5	4.0 MC	Oscillator slug
17	Same as Step 5.	5.2 MC	5	5.2 MC	RF and antenna slugs
18	Same as Step 10.	11.4 MC	6	Gang Closed	Oscillator slug
19	Same as Step 10.	11.6 MC	6	11.6 MC	RF and antenna slugs
20	Same as Step 2.	400 KC	Long Wave	400 KC	J (oscillator trimmer)
21	Same as Step 2.	360 KC	Long Wave	360 KC	K (RF trimmer) and L (antenna trimmer)
22	Same as Step 2.	200 KC	Long Wave	200 KC	Oscillator, RF, and antenna slugs

REPLACEMENT BATTERY PACKS

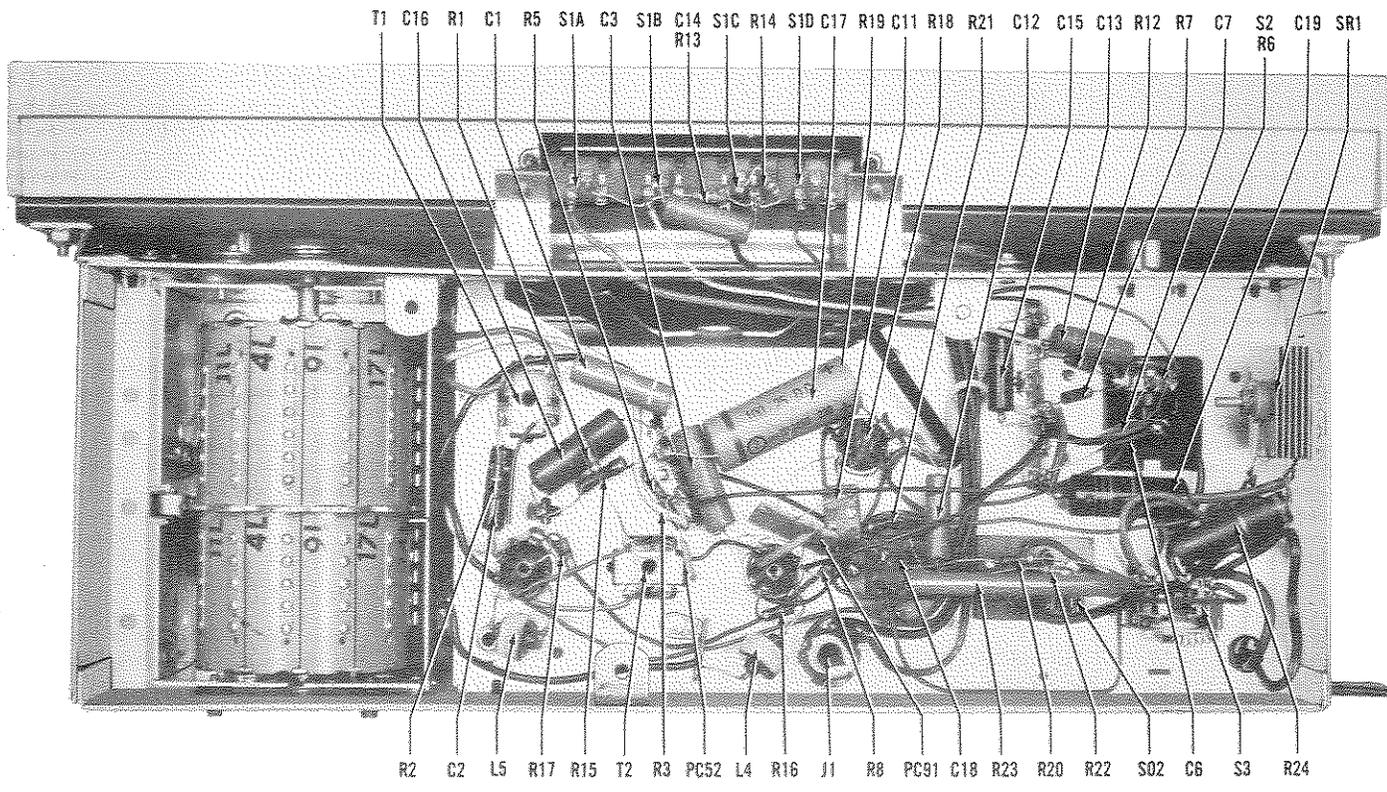
Hallcrafters	Willard	Eveready	RCA	Bright Star	Ray O-Vac	Olin Bond	Mont. Ward	Sears	General	Usalite
P999	WZ-3	752	VSO47	66-03	AB995	0616	37	6401	343	AB677



T3 S02 V3 C18 J1 V2 LS1 T2 V1 L3 C112 TS101 TS102 V102 C113C C113B C113A V101 T1

92X1899

Fig. 7. Top View of Chassis Showing Component Location



T1 C16 R1 C1 R5 S1A C3 S1B C14 S1C R13 R14 S1D C17 R19 C11 R18 R21 C12 C15 C13 R12 R7 C7 S2 R6 C19 SR1 R2 C2 L5 R17 R15 T2 R3 PC52 L4 R16 J1 R8 PC91 C18 R23 R20 R22 S02 C6 S3 R24

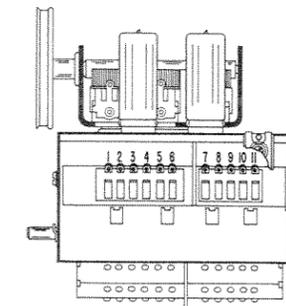
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Fig. 8. Bottom View of Chassis Showing Component Location

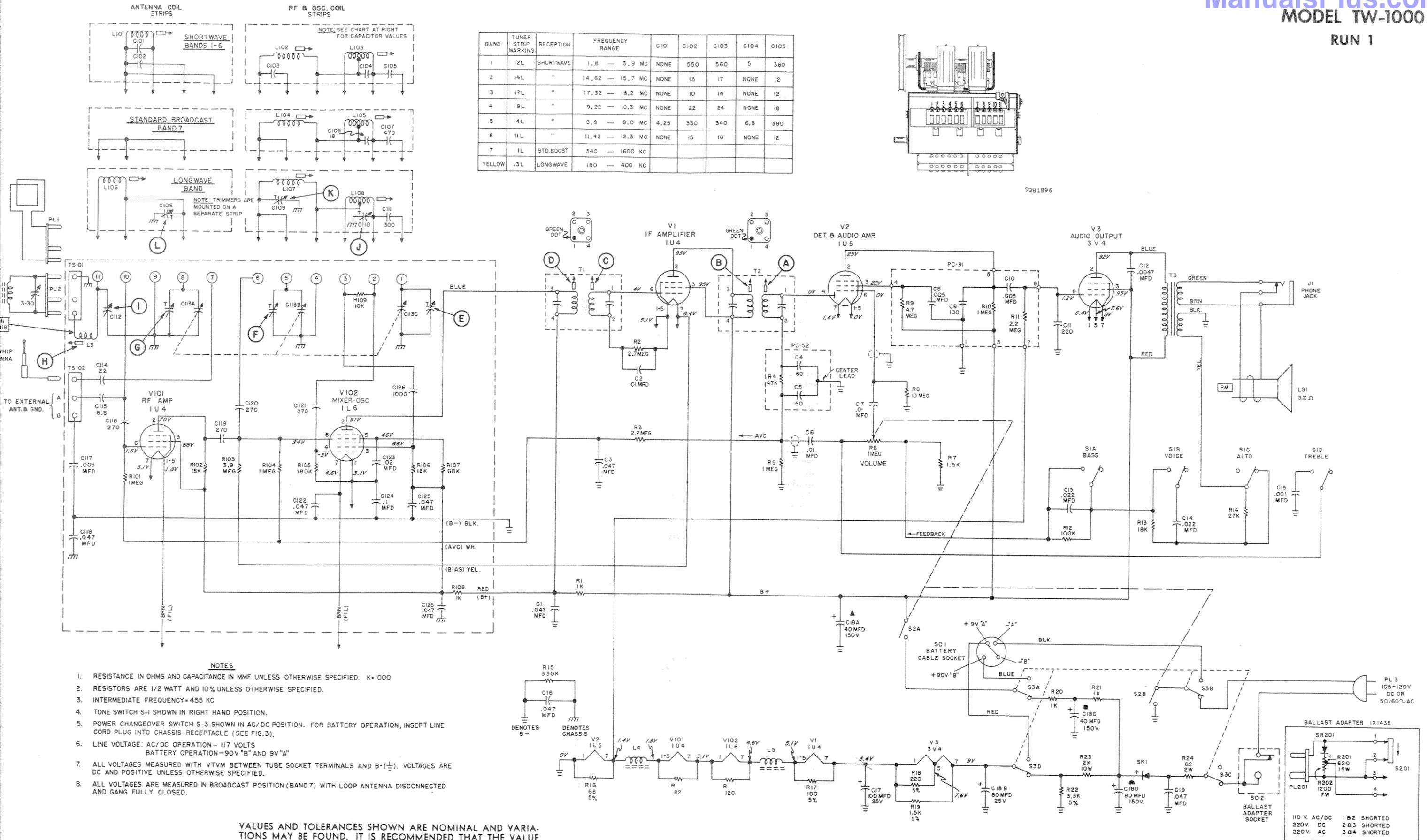
SERVICE PARTS LIST

Schematic Symbol	Description	Hallcrafters Part Number	Schematic Symbol	Description	Hallcrafters Part Number
CAPACITORS			PLUGS AND SOCKETS (Cont.)		
C-1,3	.047 mfd. 200V., molded tubular paper	46BS473L2	PL-2	Plug, Skyrider antenna (part of L-2)	-----
C-2	.01 mfd. 400V., molded tubular paper	46BS103L4	PL-3	Line cord and plug	87A3592
C-4,5	50 mmf. (part of diode filter plate PC-52)	-----	SO-1	Socket, battery cable (less shell)	10A296
C-6,7	.01 mfd. 450V., ceramic disc	47A217	SO-2	Shell for socket SO-1	10A294
C-8,10	.005 mfd. (part of pentode couplate PC-91)	-----		Socket, ballast adapter	10A507
C-9	100 mmf. (part of pentode couplate PC-91)	-----		Socket, tube; 7 pin miniature	6B297
C-11	220 mmf. 500 V., mica	47X20B221K	TUBES AND RECTIFIERS		
C-12	.0047 mfd. 600V., molded tubular paper	46BS472L6	V-1	1U4: IF amplifier	90X1U4
C-13,14	.022 mfd. 200V., molded tubular paper	46BS223L2	V-2	1U5: detector and audio amplifier	90X1U5
C-15	.001 mfd. 600V., molded tubular paper	46BS102L6	V-3	3V4: audio output	90X3V4
C-16	.047 mfd. 400V., molded tubular paper	46BS473L4	V-101	1U4: RF amplifier	90X1U4
C-17	100 mfd. 25V., electrolytic	45B214	V-102	1L6: converter	90X1L6
C-18	Dual 40 mfd. 150V., 80 mfd. 150V., 80 mfd. 25V.; electrolytic	45B215	SR-1	Rectifier, selenium; 100 ma.	27A161
C-19	.047 mfd. 600V., molded tubular paper	46BR473L6	SWITCHES		
RESISTORS			S-1	Switch assembly, tone	60A503
R-1,20,21	1000 ohms 10%, 1/2 watt, carbon	23X20X102K	S-2	Switch, on-off (part of volume control R-6)	-----
R-2	2.7 megohms 10%, 1/2 watt, carbon	23X20X275K	S-3	Switch, AC/DC - battery changeover	60B504
R-3	2.2 megohms 10%, 1/2 watt, carbon	23X20X225K	MISCELLANEOUS		
R-4	47,000 ohms (part of diode filter plate PC-52)	-----		Antenna, telescoping whip	57B173
R-5	1 megohm 10%, 1/2 watt, carbon	23X20X105K		Cabinet	78F904
R-6	Volume control, 1 megohm (includes on-off switch S-2)	25B1009		Channel, rubber; 1" length	16A300
R-7	1500 ohms 10%, 1/2 watt, carbon	23X20X152K		Channel, rubber; 5" length	16A301
R-8	10 megohms 10%, 1/2 watt, carbon	23X20X106K	PC-52	Clip, IF transformer mtg.	76A385
R-9	4.7 megohms (part of pentode couplate PC-91)	-----		Clip, mtg. (for mtg. tone escutcheon to trim strip)	76A989
R-10	1 megohm (part of pentode couplate PC-91)	-----		Cord, dial (specify length)	38A026
R-11	2.2 megohms (part of pentode couplate PC-91)	-----		Cover, loop antenna	8D1829
R-12	100,000 ohms 10%, 1/2 watt, carbon	23X20X104K		Dial scale	83D425
R-13	18,000 ohms 10%, 1/2 watt, carbon	23X20X183K		Dial glass	22B369
R-14	27,000 ohms 10%, 1/2 watt, carbon	23X20X273K		Diode filter plate (includes R-4, C-4 and C-5)	49A023
R-15	330,000 ohms 10%, 1/2 watt, carbon	23X20X334K		Escutcheon, dial	7D386
R-16	68 ohms 5%, 1/2 watt, carbon	23X20X680J		Escutcheon, tone control	7C389
R-17	100 ohms 5%, 1/2 watt, carbon	23X20X101J		Grille and baffle board assembly	7D393
R-18	220 ohms 5%, 1/2 watt, carbon	23X20X221J		Grip, finger; front cover	30B289
R-19	1500 ohms 5%, 1/2 watt, carbon	23X20X152J		Grommet, rubber	16A299
R-22	3300 ohms 5%, 1/2 watt, carbon	23X20X332J		Knob, on-off volume	15C532
R-23	2000 ohms 5%, 10 watts, wirewound	24A959		Knob, band selector	15C533
R-24	82 ohms 5%, 2 watts, carbon	23X40X820J		Knob, tuning	15C534
COILS AND TRANSFORMERS				Lock, line cord	76A974
L-1	Antenna, loop	57C169		Mtg. base, tube shield	69A308
L-2	Antenna, Skyrider (complete with plug and cable)	57C170		Nameplate, Hallcrafters Precision Built	13A1120
L-3	Coil, antenna loading	51B1586		Operating Instructions	94X917
L-4,5	Choke, RF	53A265	PC-91	Pentode couplate (includes R-9, R-10, R-11, C-8, C-9 and C-10)	49A024
T-1,2	Transformer, IF	50C242		Plate, electrolytic capacitor mtg.	8A749
T-3	Transformer, audio output	55C198		Pointer, dial	82B223
PLUGS AND SOCKETS				Pulley, 1-1/4" string dia.	28A067
J-1	Jack, phone	36A002	LS-1	Pulley, 3/4" string dia.	28A137
PL-1	Plug, loop antenna	10B517		Pulley, 3-1/2" string dia.	28A128
				Shield, tube	69A306
				Speaker, PM; 5" x 7" oval (3.2 ohm voice coil)	85C130
				Spring, dial cord tension; 7/8" overall	75A012
				Spring, dial cord tension; 11/16" overall	75A163
				Spring, band indicator plate; 9/64" overall	75A266
				Strap, battery	76B1008
				Trim strip, control marking	8C1888
				Dynamic Turret Tuner assembly, complete with tubes	1D1382

BAND	TUNER STRIP MARKING	RECEPTION	FREQUENCY RANGE	C101	C102	C103	C104	C105
1	2L	SHORTWAVE	1.8 — 3.9 MC	NONE	550	560	5	360
2	14L	"	14.62 — 15.7 MC	NONE	13	17	NONE	12
3	17L	"	17.32 — 18.2 MC	NONE	10	14	NONE	12
4	9L	"	9.22 — 10.3 MC	NONE	22	24	NONE	18
5	4L	"	3.9 — 8.0 MC	4.25	330	340	6.8	380
6	11L	"	11.42 — 12.3 MC	NONE	15	18	NONE	12
7	1L	STD. BDCST	540 — 1600 KC					
YELLOW	.3L	LONGWAVE	180 — 400 KC					



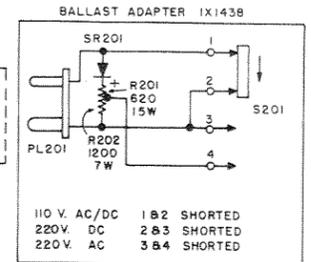
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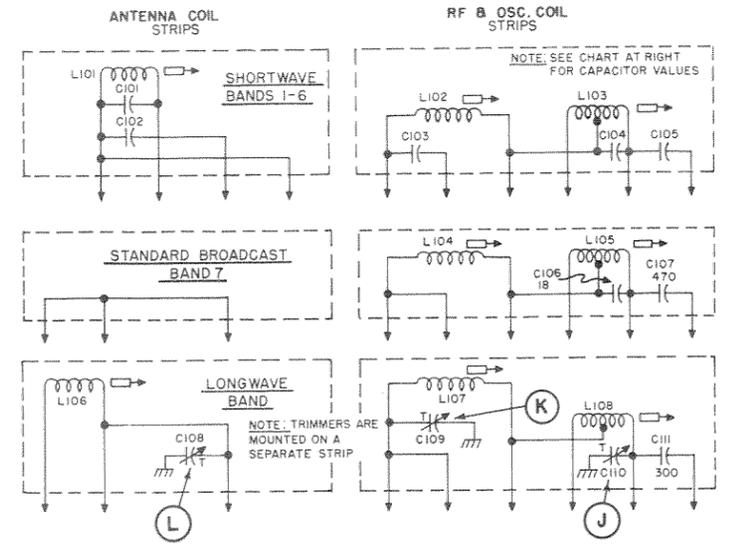
NOTES

1. RESISTANCE IN OHMS AND CAPACITANCE IN MMF UNLESS OTHERWISE SPECIFIED. K=1000
2. RESISTORS ARE 1/2 WATT AND 10% UNLESS OTHERWISE SPECIFIED.
3. INTERMEDIATE FREQUENCY = 455 KC
4. TONE SWITCH S-1 SHOWN IN RIGHT HAND POSITION.
5. POWER CHANGEOVER SWITCH S-3 SHOWN IN AC/DC POSITION. FOR BATTERY OPERATION, INSERT LINE CORD PLUG INTO CHASSIS RECEPTACLE (SEE FIG.3).
6. LINE VOLTAGE: AC/DC OPERATION - 117 VOLTS
BATTERY OPERATION - 90V "B" AND 9V "A"
7. ALL VOLTAGES MEASURED WITH VTVM BETWEEN TUBE SOCKET TERMINALS AND B-($\frac{1}{2}$). VOLTAGES ARE DC AND POSITIVE UNLESS OTHERWISE SPECIFIED.
8. ALL VOLTAGES ARE MEASURED IN BROADCAST POSITION (BAND 7) WITH LOOP ANTENNA DISCONNECTED AND GANG FULLY CLOSED.

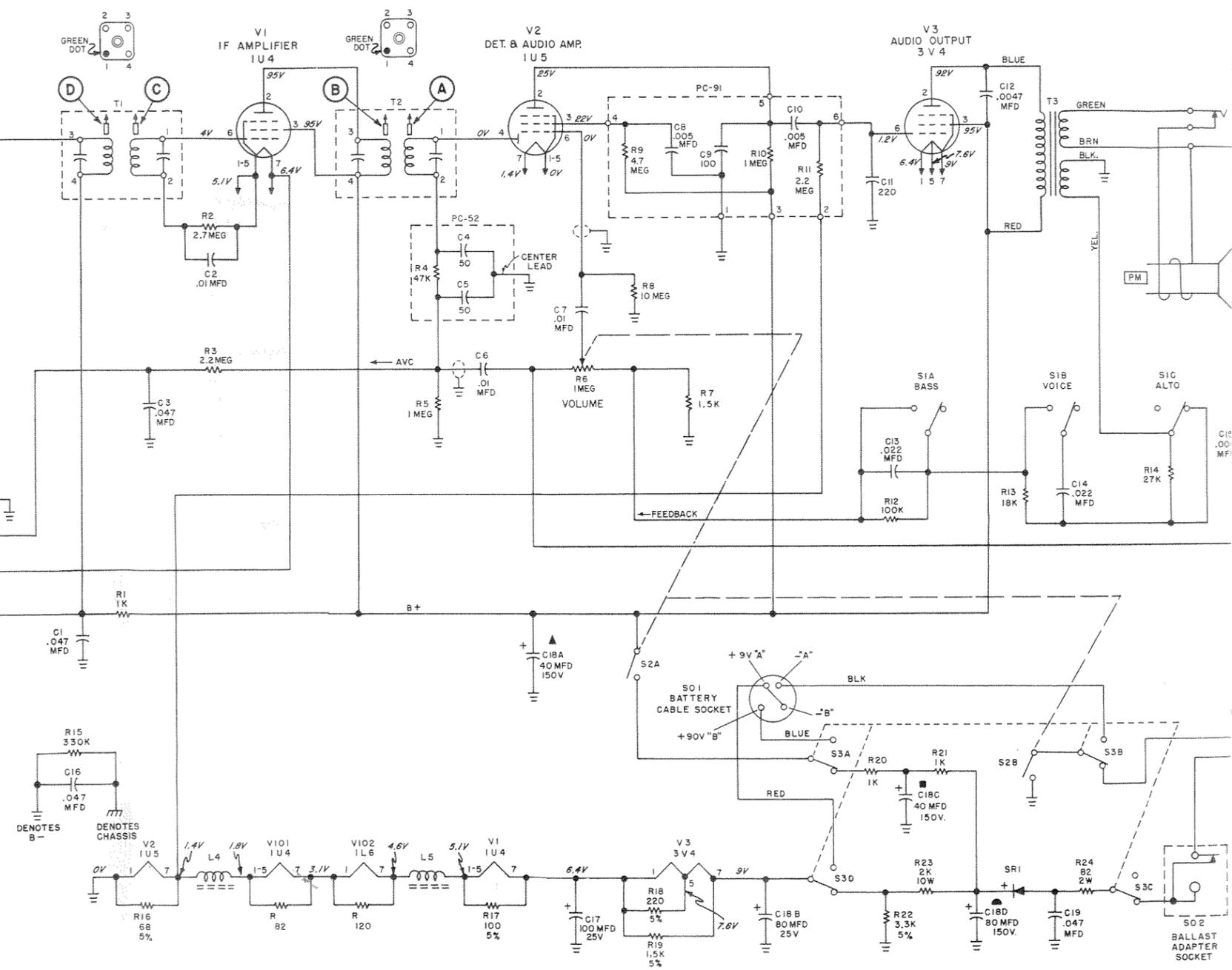
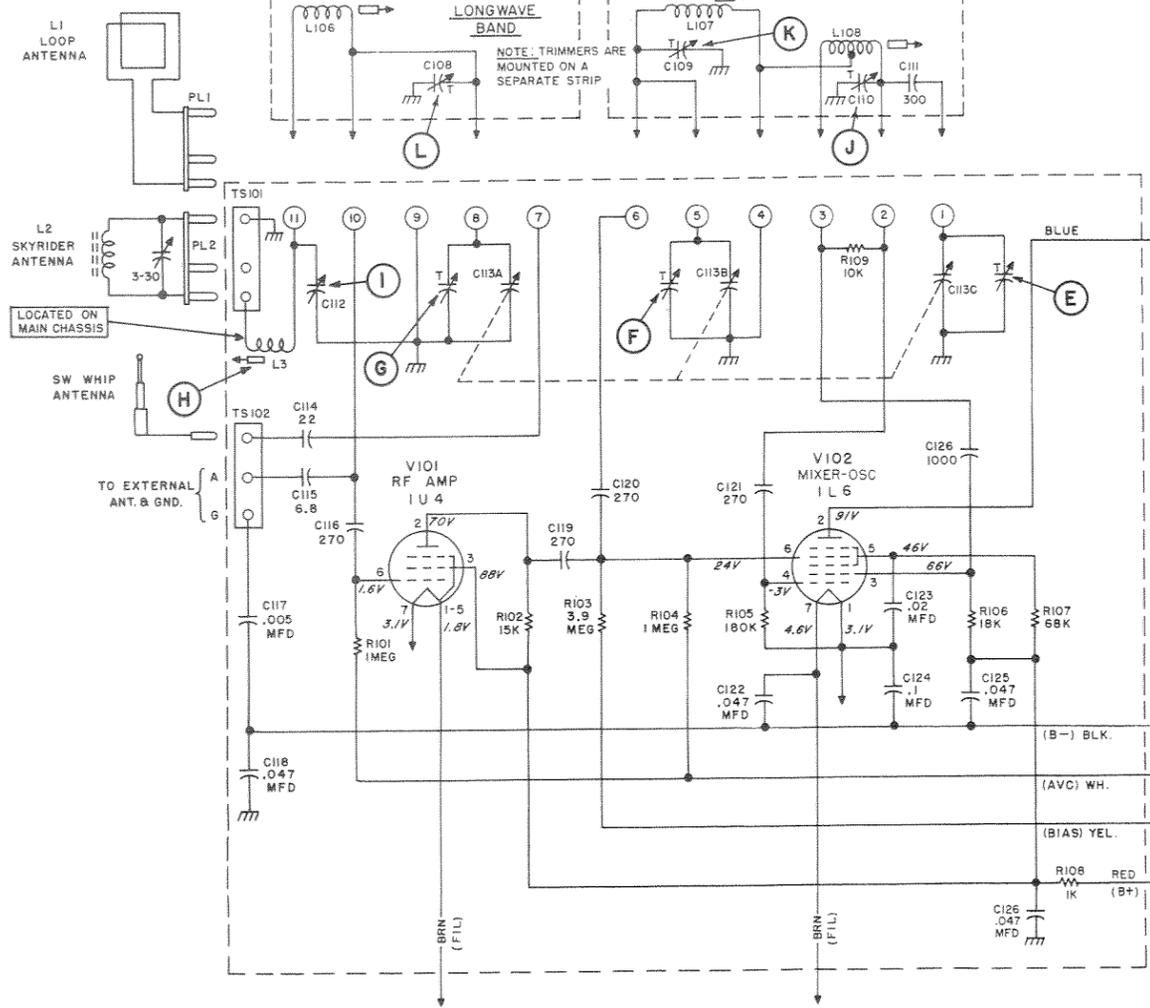
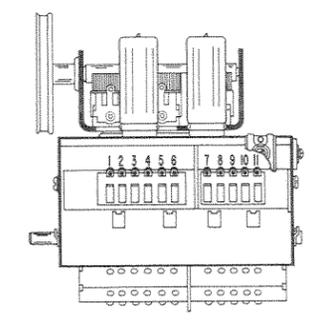
VALUES AND TOLERANCES SHOWN ARE NOMINAL AND VARIATIONS MAY BE FOUND. IT IS RECOMMENDED THAT THE VALUE OF ANY REPLACEMENT CORRESPOND TO THE NOMINAL VALUE OF THE PART BEING REPLACED.



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BAND	TUNER STRIP MARKING	RECEPTION	FREQUENCY RANGE	C101	C102	C103	C104	C105
1	2L	SHORTWAVE	1.8 — 3.9 MC	NONE	550	560	5	360
2	14L	"	14.62 — 15.7 MC	NONE	13	17	NONE	12
3	17L	"	17.32 — 18.2 MC	NONE	10	14	NONE	12
4	9L	"	9.22 — 10.3 MC	NONE	22	24	NONE	18
5	4L	"	3.9 — 8.0 MC	4.25	330	340	6.8	380
6	11L	"	11.42 — 12.3 MC	NONE	15	18	NONE	12
7	1L	STD. BDCST	540 — 1600 KC					
YELLOW	.3L	LONGWAVE	180 — 400 KC					



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BATTERY OPERATION - 90V "B" AND 9V "A"
 7. ALL VOLTAGES MEASURED WITH VTVM BETWEEN TUBE SOCKET TERMINALS AND B-($\frac{1}{2}$). VOLTAGES ARE DC AND POSITIVE UNLESS OTHERWISE SPECIFIED.
 8. ALL VOLTAGES ARE MEASURED IN BROADCAST POSITION (BAND 7) WITH LOOP ANTENNA DISCONNECTED AND GANG FULLY CLOSED.

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Schematic Symbol	Description	Hallcrafters Part Number	Schematic Symbol	Description	Hallcrafters Part Number
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C-1,3	.047 mfd. 200V., molded tubular paper	46BS473L2	PL-2	Plug, Skyrider antenna (part of L-2)	-----
C-2	.01 mfd. 400V., molded tubular paper	46BS103L4	PL-3	Line cord and plug	87A3592
C-4,5	50 mmf. (part of diode filter plate PC-52)	-----	SO-1	Socket, battery cable (less shell)	10A296
C-6,7	.01 mfd. 450V., ceramic disc	47A217	SO-2	Shell for socket SO-1	10A294
C-8,10	.005 mfd. (part of pentode couplate PC-91)	-----		Socket, ballast adapter	10A507
C-9	100 mmf. (part of pentode couplate PC-91)	-----		Socket, tube; 7 pin miniature	6B297
C-11	220 mmf. 500 V., mica	47X20B221K	TUBES AND RECTIFIERS		
C-12	.0047 mfd. 600V., molded tubular paper	46BS472L6	V-1	1U4: IF amplifier	90X1U4
C-13,14	.022 mfd. 200V., molded tubular paper	46BS223L2	V-2	1U5: detector and audio amplifier	90X1U5
C-15	.001 mfd. 600V., molded tubular paper	46BS102L6	V-3	3V4: audio output	90X3V4
C-16	.047 mfd. 400V., molded tubular paper	46BS473L4	V-101	1U4: RF amplifier	90X1U4
C-17	100 mfd. 25V., electrolytic	45B214	V-102	1L6: converter	90X1L6
C-18	Dual 40 mfd. 150V., 80 mfd. 150V., 80 mfd. 25V.; electrolytic	45B215	SR-1	Rectifier, selenium; 100 ma.	27A161
C-19	.047 mfd. 600V., molded tubular paper	46BR473L6	SWITCHES		
RESISTORS					
R-1,20,21	1000 ohms 10%, 1/2 watt, carbon	23X20X102K	S-1	Switch assembly, tone	60A503
R-2	2.7 megohms 10%, 1/2 watt, carbon	23X20X275K	S-2	Switch, on-off (part of volume control R-6)	-----
R-3	2.2 megohms 10%, 1/2 watt, carbon	23X20X225K	S-3	Switch, AC/DC - battery changeover	60B504
R-4	47,000 ohms (part of diode filter plate PC-52)	-----	MISCELLANEOUS		
R-5	1 megohm 10%, 1/2 watt, carbon	23X20X105K		Antenna, telescoping whip	57B173
R-6	Volume control, 1 megohm (includes on-off switch S-2)	25B1009		Cabinet	78F904
R-7	1500 ohms 10%, 1/2 watt, carbon	23X20X152K		Channel, rubber; 1" length	16A300
R-8	10 megohms 10%, 1/2 watt, carbon	23X20X106K	PC-52	Channel, rubber; 5" length	16A301
R-9	4.7 megohms (part of pentode couplate PC-91)	-----		Clip, IF transformer mtg.	76A385
R-10	1 megohm (part of pentode couplate PC-91)	-----		Clip, mtg. (for mtg. tone escutcheon to trim strip)	76A989
R-11	2.2 megohms (part of pentode couplate PC-91)	-----		Cord, dial (specify length)	38A026
R-12	100,000 ohms 10%, 1/2 watt, carbon	23X20X104K		Cover, loop antenna	8D1829
R-13	18,000 ohms 10%, 1/2 watt, carbon	23X20X183K		Dial scale	83D425
R-14	27,000 ohms 10%, 1/2 watt, carbon	23X20X273K		Dial glass	22B369
R-15	330,000 ohms 10%, 1/2 watt, carbon	23X20X334K		Diode filter plate (includes R-4, C-4 and C-5)	49A023
R-16	68 ohms 5%, 1/2 watt, carbon	23X20X680J		Escutcheon, dial	7D386
R-17	100 ohms 5%, 1/2 watt, carbon	23X20X101J		Escutcheon, tone control	7C389
R-18	220 ohms 5%, 1/2 watt, carbon	23X20X221J		Grille and baffle board assembly	7D393
R-19	1500 ohms 5%, 1/2 watt, carbon	23X20X152J		Grip, finger; front cover	30B289
R-22	3300 ohms 5%, 1/2 watt, carbon	23X20X332J		Grommet, rubber	16A299
R-23	2000 ohms 5%, 10 watts, wirewound	24A959		Knob, on-off volume	15C532
R-24	82 ohms 5%, 2 watts, carbon	23X40X820J		Knob, band selector	15C533
COILS AND TRANSFORMERS					
L-1	Antenna, loop	57C169	PC-91	Knob, tuning	15C534
L-2	Antenna, Skyrider (complete with plug and cable)	57C170		Lock, line cord	76A974
L-3	Coil, antenna loading	51B1586		Mtg. base, tube shield	69A308
L-4,5	Choke, RF	53A265		Nameplate, Hallicrafters Precision Built	13A1120
T-1,2	Transformer, IF	50C242	LS-1	Operating Instructions	94X917
T-3	Transformer, audio output	55C198		Pentode couplate (includes R-9, R-10, R-11, C-8, C-9 and C-10)	49A024
PLUGS AND SOCKETS					
J-1	Jack, phone	36A002		Plate, electrolytic capacitor mtg.	8A749
PL-1	Plug, loop antenna	10B517		Pointer, dial	82B223
				Pulley, 1-1/4" string dia.	28A067
				Pulley, 3/4" string dia.	28A137
				Pulley, 3-1/2" string dia.	28A128
				Shield, tube	69A306
				Speaker, PM; 5" x 7" oval (3.2 ohm voice coil)	85C130
				Spring, dial cord tension; 7/8" overall	75A012
				Spring, dial cord tension; 11/16" overall	75A163
				Spring, band indicator plate; 9/64" overall	75A266
				Strap, battery	76B1008
				Trim strip, control marking	8C1888
				Dynamic Turret Tuner assembly, complete with tubes	1D1382

NOTES

