

Hallicrafters, Inc.

Model: 5R30

Chassis:

Year: Pre 1955

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

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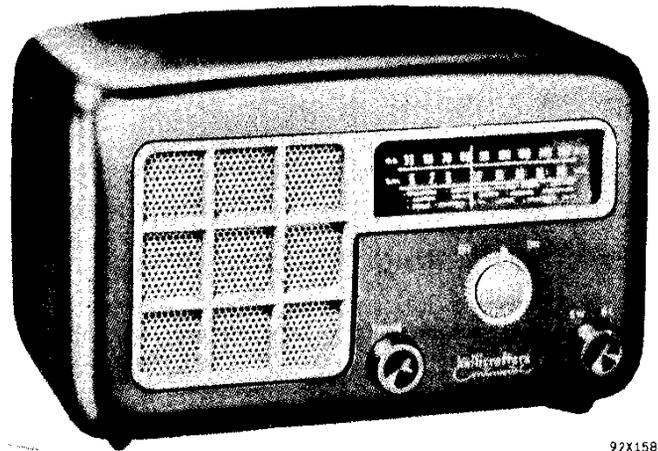
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MODELS 5R30, 5R31,
5R32, 5R33, 5R34,
Continental

GENERAL DESCRIPTION

Your Hallicrafters Continental provides reception of both the standard broadcast band and the 6 to 18 megacycle shortwave range. It is a 5 tube superheterodyne radio and is designed to operate from 105 to 125 volt direct current (DC) or 50/60 cycle alternating current (AC).

Fine performance of both standard and shortwave broadcasts can be obtained with the 15 foot antenna wire included with your receiver. It is merely necessary to uncoil this wire, connect one end of it to terminal A1 on the back of the set and then run it about the room in any convenient manner. To complete the antenna installation, the jumper should be connected between terminals A2 and G on the back of the set.



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HALLICRAFTERS CONTINENTAL
Models 5R30, 5R31, 5R32, 5R33 and 5R34

For your convenience, the principal shortwave stations of the world have been clearly marked on the dial. Since shortwave reception conditions vary with the season of the year and even with the time of day, shortwave programs may not be heard with the same regularity as standard broadcasts. It is important, therefore, that you refer to the table below as it provides an easy means of selecting the shortwave band most suitable to the time of day.

To get the maximum enjoyment from your Hallicrafters radio, carefully follow the instructions contained in this book.

BEST SHORTWAVE RECEPTION TABLE

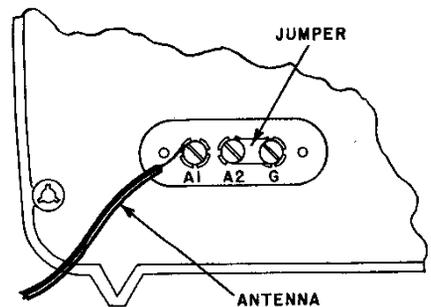
BAND	MOST FAVORABLE TIME	MOST FAVORABLE DISTANCE
6-7 MC	Night - Winter	Day-400 Miles Night - Over 1500 Miles
9-10 MC	Day - Late Afternoon and Night - Winter	Over 500 Miles
11-12 MC	Evenings or Late Summer Afternoons	Day - Under 1500 Miles Night - Over 1500 Miles
15-18 MC	Early Mornings and Summer Evenings	Over 1500 Miles

INSTALLATION INSTRUCTIONS

UNPACKING - Check all shipping labels and tags for instructions before removing or destroying them.

LOCATION - Do not locate the receiver close to sources of heat such as radiators and heating vents. Allow for proper ventilation of the receiver by placing it at least two or three inches away from the wall.

ANTENNA - The terminals marked A1, A2 and G on the back of the receiver are for antenna and ground connections. Satisfactory results can be obtained in most localities with the 15 foot antenna wire included with your receiver. This wire should be uncoiled for maximum signal pickup. An outside antenna 30 to 60 feet long may be necessary if the receiver is to be operated in a steel constructed building or in an area surrounded by numerous steel structures. The antenna used should be connected to terminal A1 on the antenna terminal strip. The jumper provided on this strip should be connected between terminals A2 and G. In some locations, reception may be improved by connecting a lead from terminal G to a cold water pipe or other good ground.



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Fig. 1. Rear View of Receiver Showing Antenna and Ground Connections

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OPERATING INSTRUCTIONS

TUNING DIAL

1. The standard broadcast band is calibrated in kilocycles with a zero deleted for convenience. To convert the dial reading to the station frequency in kilocycles, add one zero.
2. The shortwave band is calibrated directly in megacycles.

STANDARD BROADCAST AND SHORTWAVE RECEPTION

1. Plug the power cord into a convenient electrical outlet which provides 105 to 125 volts DC or 50/60 cycles AC. If in doubt about your power supply, call your power company before plugging in the receiver. The wrong power source may cause damage to the receiver.
2. Set the SW/BC control to BC for standard broadcast reception or to SW for shortwave reception.
3. Turn the receiver on by turning the VOLUME control clockwise to the ON position. Allow about a minute for the receiver to warm up.

NOTE: If the receiver does not operate after the one minute warm up when connected to a DC source, the power plug should be reversed in the wall outlet to obtain proper polarity.

4. Rotate the VOLUME control clockwise about 1/2 turn as a preliminary setting. Turning this control clockwise increases volume.
5. Tune in the desired station by rotating the TUNING control slowly until the dial pointer indicates the station frequency.
6. After the station has been accurately tuned in, adjust the VOLUME control for the desired volume.
7. To turn the receiver off, turn the VOLUME control counterclockwise to the OFF position.

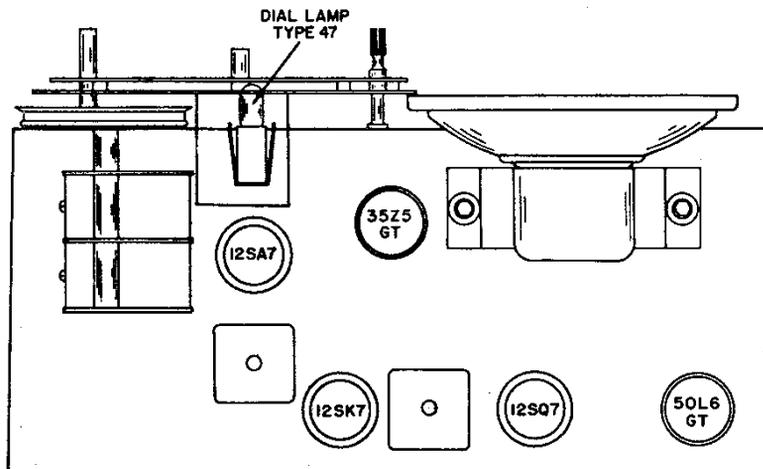


Fig. 2. Top View of Chassis Showing Location of Tubes and Dial Lamp

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SERVICE INSTRUCTIONS

SPECIFICATIONS

Tubes 5 including 1 rectifier
Speaker 5 inch PM
Voice Coil Impedance 3.2 ohms
Intermediate Frequency 455 KC
Antenna Single wire or doublet
Power Supply 105-125 volts DC or
50/60 cycles AC
Frequency Coverage 540-1620 KC
and 6-18 MC

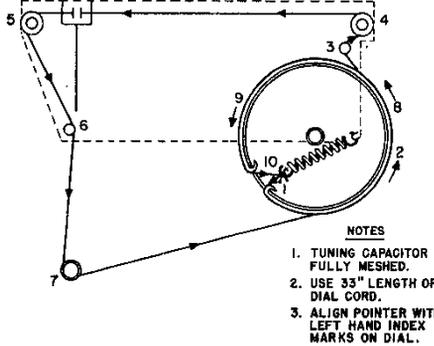


Fig. 3. Dial Cord Stringing Diagram

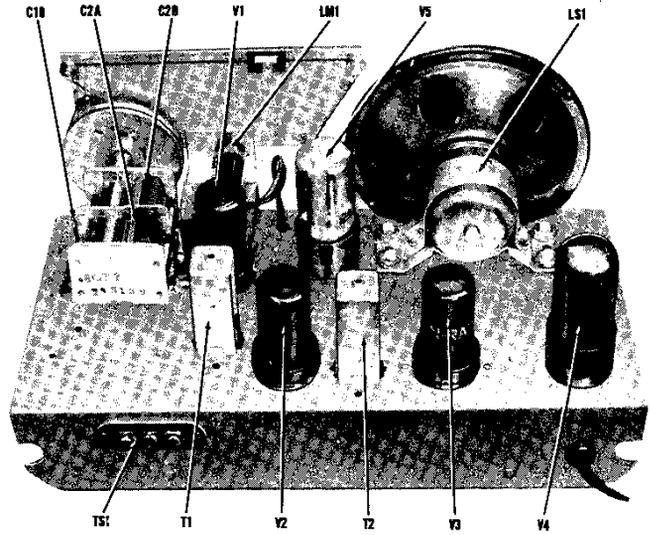


Fig. 4. Top View of Chassis Showing Component Location

TUBE AND DIAL LAMP REPLACEMENT - Refer to Fig. 2. for the location of the tubes and dial lamp used in the receiver. It will be necessary to remove the back cover from the cabinet to gain access to the tubes and dial lamp. To prevent damage to the tuning capacitor, set the TUNING control fully counterclockwise before making any replacement. When replacing tubes, check the tube type carefully and replace it with the correct type. The dial lamp and socket can be removed by compressing the side springs on the socket. Replacement of the dial lamp should be made with a 6-8 volt, Mazda #47 (brown bead) pilot lamp or equivalent.

ALIGNMENT PROCEDURE

- Connect output meter across speaker voice coil.
- Set volume control at maximum.
- Use a non-metallic alignment tool.
- Signal generator must have a modulated output and cover 455 KC, 600 KC, 1300 KC and 14 MC.
- Keep the generator output as low as possible to avoid AVC action.
- Refer to Figs. 6 and 7 for location of alignment adjustments.

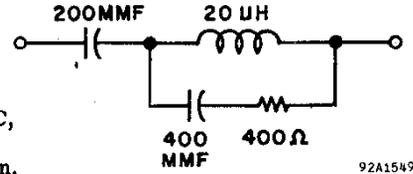
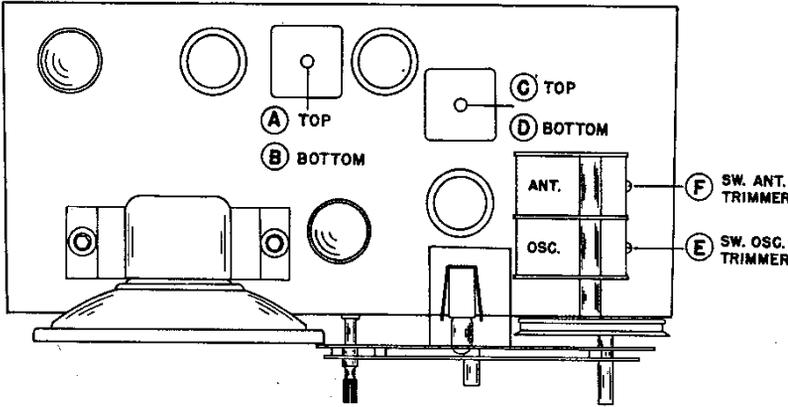


Fig. 5. RTMA Dummy Antenna

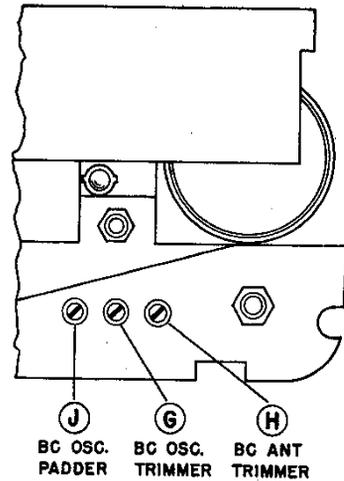
STEP	SIGNAL GENERATOR CONNECTIONS	SIGNAL GENERATOR FREQUENCY	BAND SWITCH SETTING	RECEIVER DIAL SETTING	ADJUST FOR MAXIMUM OUTPUT
1	High side to stator plates of rear section of tuning capacitor through a .01 mfd. capacitor. Low side to chassis.	455 KC	BROADCAST	1000 KC	A,B, C,D
2	High side to A1 on antenna terminal strip on rear of chassis through a standard RTMA dummy antenna (Fig.5). Low side to chassis. Connect the jumper between A2 and G.	14 MC	SHORTWAVE	14 MC	E,F
3	Same as STEP 2.	1300 KC	BROADCAST	1300 KC	G,H
4	Same as STEP 2.	600 KC	BROADCAST	600 KC	J

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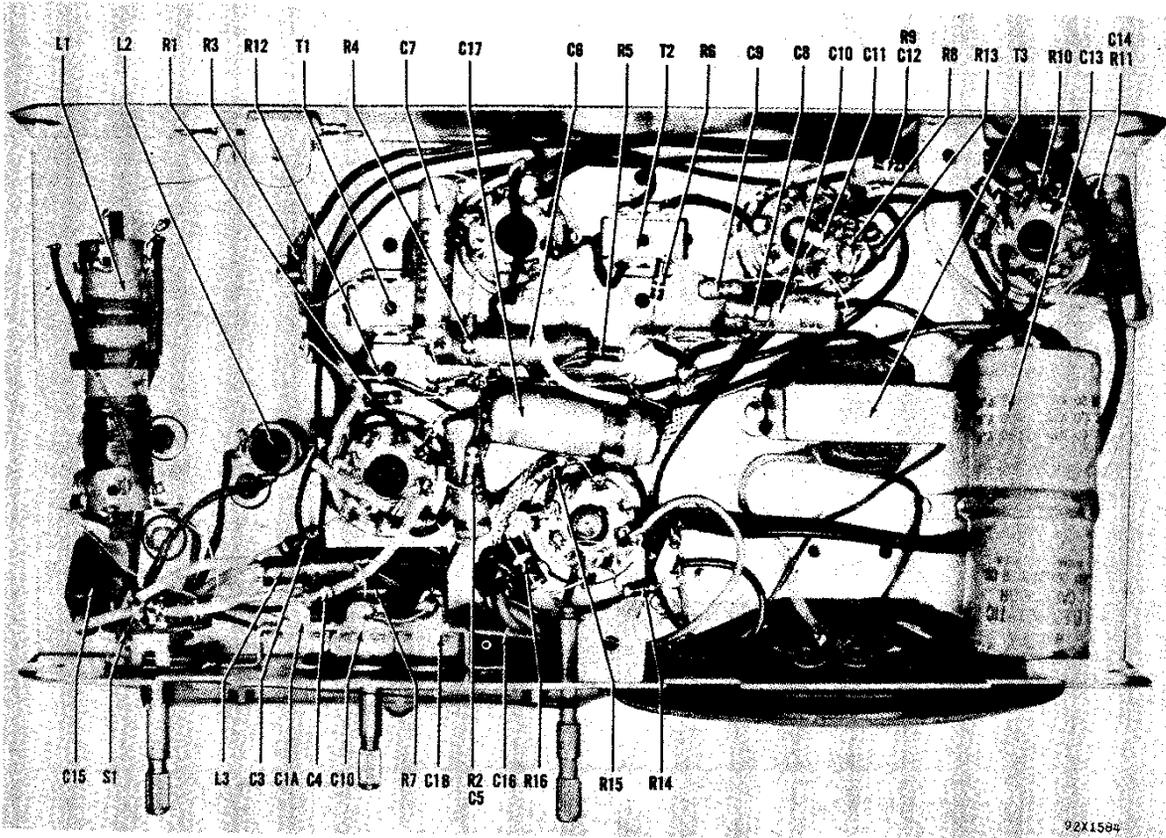
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Fig. 6. Top View of Chassis Showing Location of Alignment Adjustments



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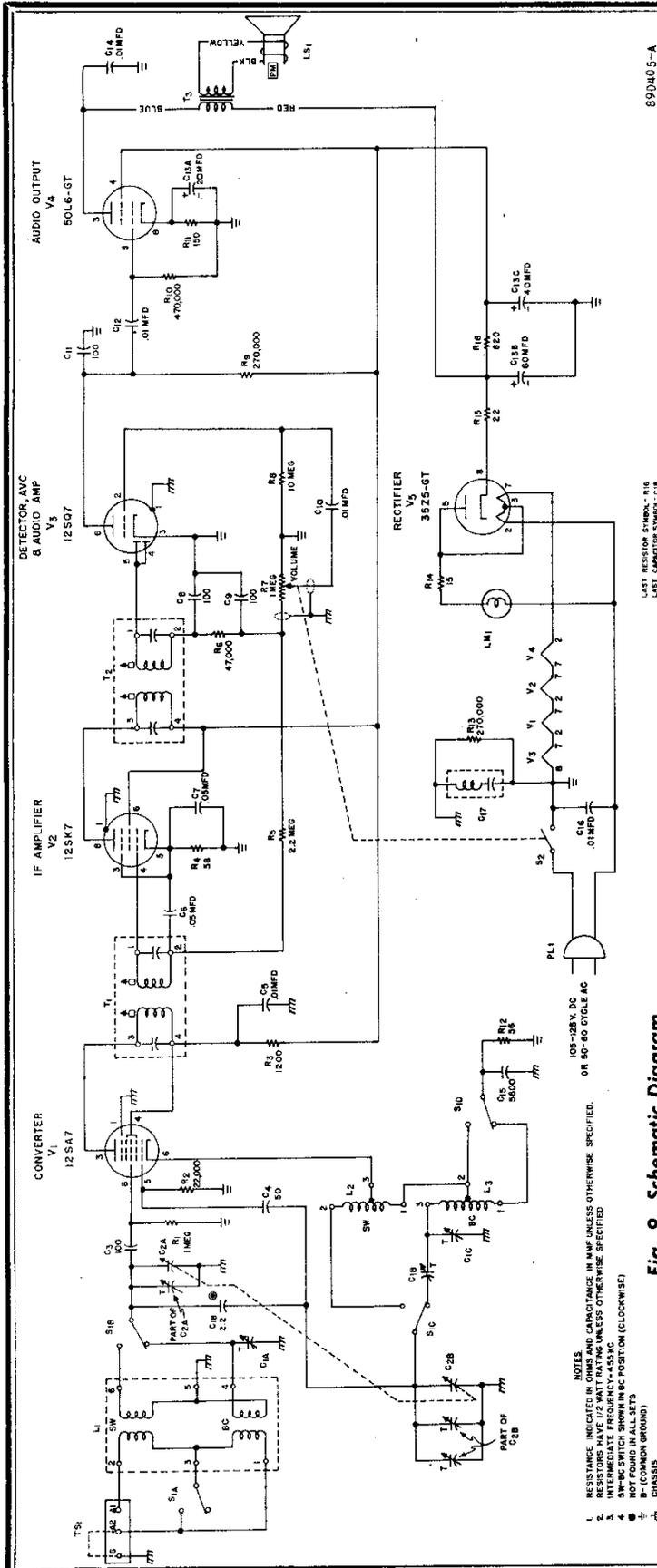
Fig. 7. Front Right View of Chassis Showing Location of Alignment Adjustments



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Fig. 8. Bottom View of Chassis Showing Component Location

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69D405-A

LAST RESISTOR SYMBOL: R10
LAST CAPACITOR SYMBOL: C18

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.

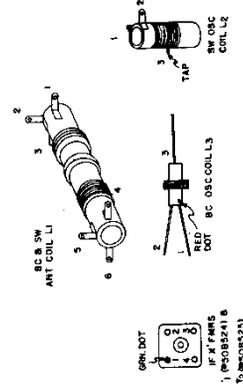


Fig. 10. Tube Socket Voltage Chart

Fig. 9. Schematic Diagram

- NOTES
- RESISTANCE INDICATED IN OHMS AND CAPACITANCE IN MUF UNLESS OTHERWISE SPECIFIED.
 - ALL VOLTAGES ARE MEASURED BETWEEN TUBE SOCKET TERMINALS AND COMMON GROUND UNLESS OTHERWISE SPECIFIED.
 - INTERMEDIATE FREQUENCY=455 KC
 - RESISTOR POSITIVE POSITION (CLOCKWISE)
 - NOT FOUND IN ALL SETS
 - B=COMMON GROUND
 - CHASSIS

- NOTE:
- SOCKET VIEWS ARE BOTTOM VIEWS.
 - ALL VOLTAGES ARE MEASURED BETWEEN TUBE SOCKET TERMINALS AND COMMON GROUND UNLESS OTHERWISE SPECIFIED. LINE VOLTAGE=117 VOLTS AC.
 - ALL VOLTAGES ARE DC AND POSITIVE UNLESS OTHERWISE SPECIFIED.
 - DC VOLTAGES WERE MEASURED WITH A VACUUM TUBE VOLTMETER (VTVM).

