

Hallicrafters, Inc.

Model: S-38

Chassis:

Year: Pre 1948

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

[Riders Volume 17 - CHANGES 17-3](#)

[Riders Volume 15 - HALLICRAFTERS 15-59](#)

[Riders Volume 15 - HALLICRAFTERS 15-60](#)

[Riders Volume 15 - HALLICRAFTERS 15-61](#)

[Riders Volume 15 - HALLICRAFTERS 15-62](#)

[Riders Volume 15 - HALLICRAFTERS 15-63](#)

[Riders Volume 15 - HALLICRAFTERS 15-64](#)

Farnsworth Models

The parts shortage has resulted in the substitution of various types of tuning capacitors without change in part numbers stamped on them. In ordering replacement tuning capacitors for ET-060, 061, 063, 064, 065, 066, 069; EK-263, 264, and 265 the following suggestions should be observed:

Gang Capacitor with 21 plate oscillator section requires the removal of trimmer from r-f section of gang if the loop antenna has a r-f trimmer located on it. This capacitor used B.C. oscillator coil #38483 and, if an S.W. oscillator coil is used requires S.W. oscillator coil #38549. Both of these coils have a white dot to indicate finish lug.

#26239 gang capacitor with 19

spring is used to provide tension on the cord by hooking in exactly as before. Use the cord originally on the set for this purpose, except cut it down to the required length.

Install the pointer cord supplied by routing it in the same fashion as before except that it does not go to the tuning shaft. Simply run it to the tuning capacitor pulley and apply light tension to it with the attached tension coil spring. There are several holes in the tuning capacitor pulley through which the tension spring may be hooked and/or adjusted.

To calibrate pointer, simply turn the tuning capacitor to the fully meshed position and set pointer to "V" notch or calibration mark provided.

Use a drop of household cement to fix

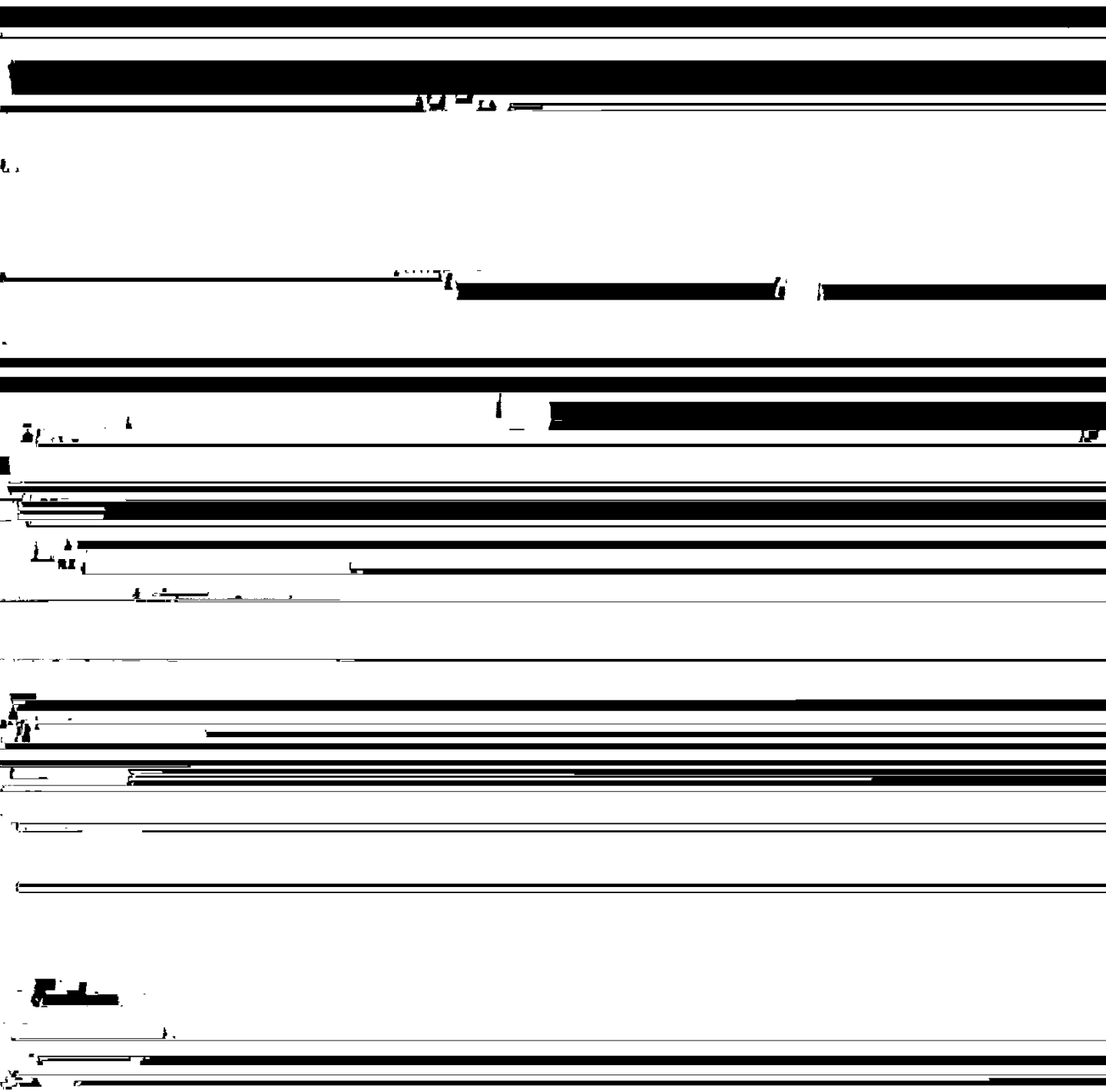
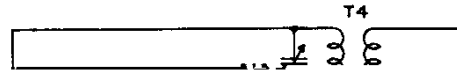
This usually develops through the rubber mounting grommets or through the switch mounting rivets. Occasionally it may be a defective 25- μ f capacitor (C36), which should be replaced if defective. It is possible that C36 is not of the correct value. **Check this point.**

If this set loses sensitivity after being in use for approximately a half hour, replace the 12SA7GT/G tube, as an investigation has revealed that this condition is due to a certain percentage of Hytron tubes of this type, of a particular production run marked 1/6, 2/6, 1A6, or 2A6. The replacement should have any other marking than those listed previously.

Hallicrafters S-40

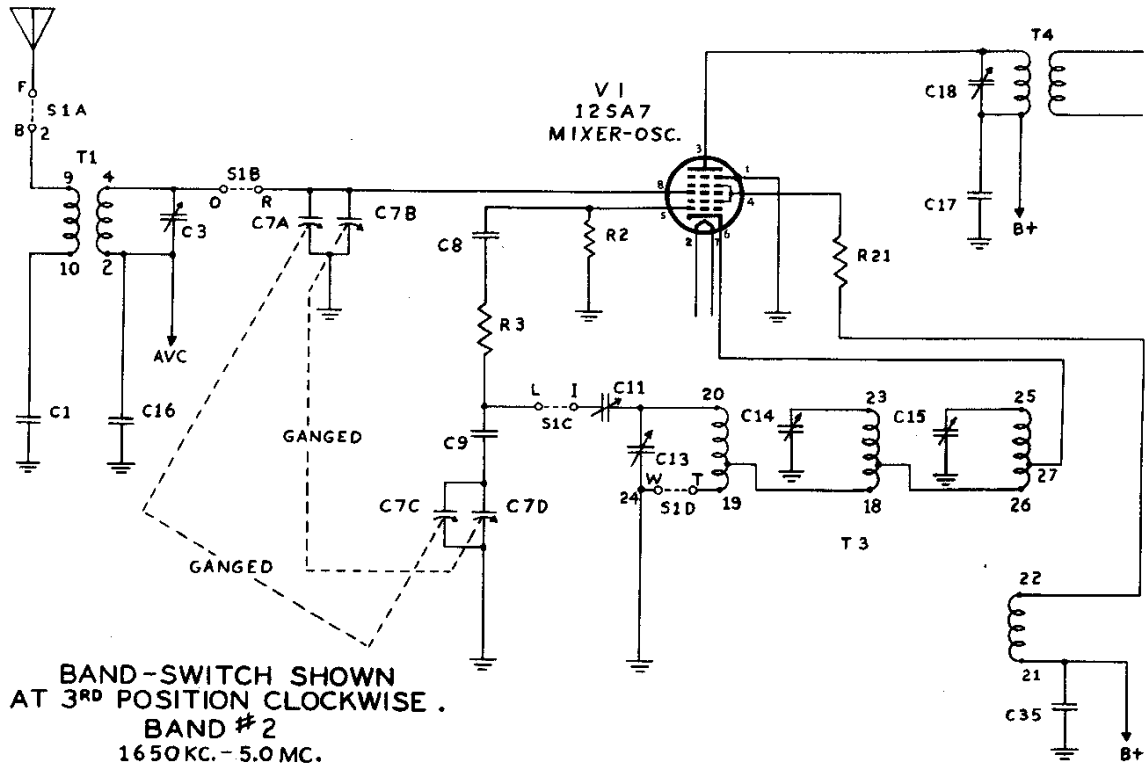
MODEL S-38, Early
and Revised

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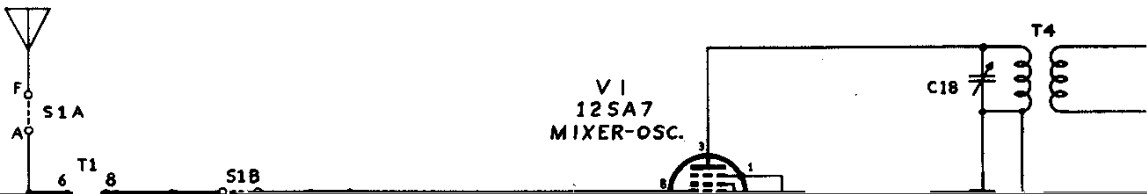


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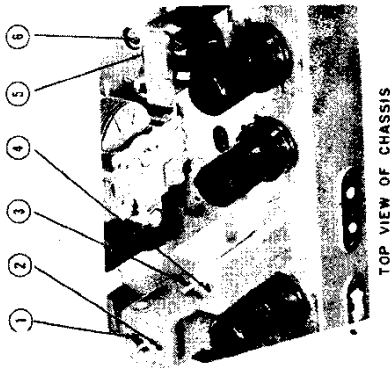


BAND-SWITCH SHOWN
AT 3RD POSITION CLOCKWISE .
BAND #2
1650 KC. - 5.0 MC.

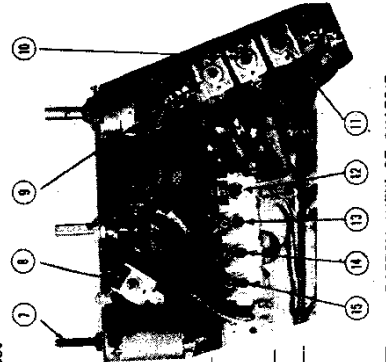


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TOP VIEW OF CHASSIS



BOTTOM VIEW OF CHASSIS

Fig. 5. Top and bottom views of the receiver locating slugs, padders and trimmers for alignment purposes.

IF FREQUENCY	IF SELECTIVITY	IMAGE RATIO	SENSITIVITY	AUDIO OUTPUT
455 kc	7 kc wide at 6 db down 65 kc wide at 60 db down (for 50 milliwatt output)	2.7:1 at 30 mc 6:1 at 14 mc 10:1 at 5 mc 35:1 at 1500 kc	12 microvolt at 600 kc 12 microvolt at 5 mc 11 microvolt at 14 mc 23 microvolt at 30 mc (for 50 milliwatt output)	675 milliwatt with less than 10% distortion at 400 cycles

EQUIPMENT:

- Signal Generator capable of the ranges indicated in the Alignment Chart, including a 400 cycle audio modulator.
 - Output meter capable of handling 1 watt of audio power.
 - Standard RMA dummy consisting of a 200 mmf condenser in series with a 20oh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.
 - Non-metallic screw driver.
- CONNECTIONS:** Connect the Sig. Gen. "cold" lead to "G" on the antenna strip; the "hot" lead is connected as indicated in the Chart.

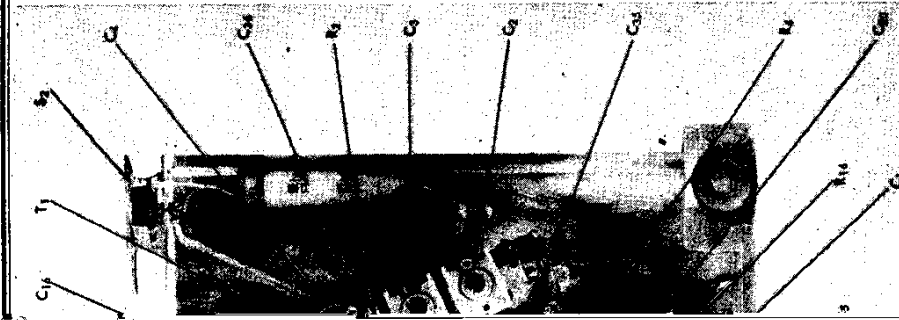
Connect the output meter across the terminals of socket SO-1 and remove the speaker plug from the socket and adjust the meter for 3 ohms impedance.
Caution: Set the meter at a sufficiently high range to prevent possible damage from overload.
CONTROL SETTINGS: After allowing about a ten minute warm up period, set the receiver's control as follows:
SPEAKER/PHONES switch at "SPEAKER."
VOLUME control at full clockwise (maximum).
CW/AM switch at "AM" (except for BFO adjustment).
NOISE LIMITER switch at "OFF."
BANDSPREAD TUNING control at "0," (min. cap.).
STANDBY/RECEIVE switch at "RECEIVE."

DUMMY ANT. IN SERIES WITH SIG. GENERATOR	CONNECTION OF SIGNAL GENERATOR OUTPUT TO RECEIVER	SIG. GEN. FREQUENCY SETTING	BAND SWITCH SETTING	RECEIVER ADJUST SLUG, DIAL PADDER, OR TRIMMER NO.	DESCRIPTION	TYPE OF ADJUSTMENT -- MAKE ADJUSTMENT FOR:	STEP NO.
None	Stator plates of rear sect. of tuning gang	455 kc	"1"	3 and 4 1 and 2	2nd IF 1st IF	Maximum output Maximum output Repeat steps 1 and 2	1 2
None	Stator plates of rear sect. of tuning gang	455 kc	"1"	7	BFO slug	Zero beat	3
BFO ADJUSTMENT — NOTE: Turn off Sig. Gen. 400 cycle modulation; set CW/AM switch at "CW"; remove Pitch Control knob and adjust slotted screw shaft.							
BAND #4 ADJUSTMENT — NOTE: Make sure 400 cycle audio modulator is turned on; AM/CW switch should be at "AM."							
STANDARD RMA Dummy strip	"A1" on antenna	30 mc 30 mc	"4"	12 † 8	Osc. Trimmer Mix. Trimmer	Maximum output Maximum output	4 5
BAND #3 ADJUSTMENT							
STANDARD RMA Dummy strip	"A1" on antenna	14 mc 14 mc	"3"	13 † 9	Osc. Trimmer Mix. Trimmer	Maximum output Maximum output	6 7
BAND #2 ADJUSTMENT							
STANDARD RMA Dummy strip	"A1" on antenna	5 mc 1.8 mc	"2"	14 6	Osc. Trimmer Osc. Padder	Maximum output Maximum output and repeat step 8	8 9
STANDARD RMA Dummy strip	"A1" on antenna	5 mc	"1"	† 10	Mix. Trimmer	Maximum output	10
BAND #1 ADJUSTMENT							
STANDARD RMA Dummy strip	"A1" on antenna	1500 kc 600 kc	"1"	15 5	Osc. Trimmer Osc. Padder	Maximum output Maximum output and repeat step 11	11 12
STANDARD RMA Dummy strip	"A1" on antenna	1500 kc	"1"	11	Mix. Trimmer	Maximum output	13

*It may be necessary to repeat the indicated adjustments several times.
†Rock the main tuning capacitor slightly (turn back and forth) when making these adjustments.

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Broadcast Band)	FUNCTION	SETTING
	Band selector	At "SPEAKER"
	Volume control	At "AM" (AVC on)
	AVC control	At "OFF"
	Tuning control	To local station freq. on main dial scale
	Waveband selector	To "0" on small dial scale

