

Hallicrafters, Inc.

Model: S-38A

Chassis:

Year: Pre 1951

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

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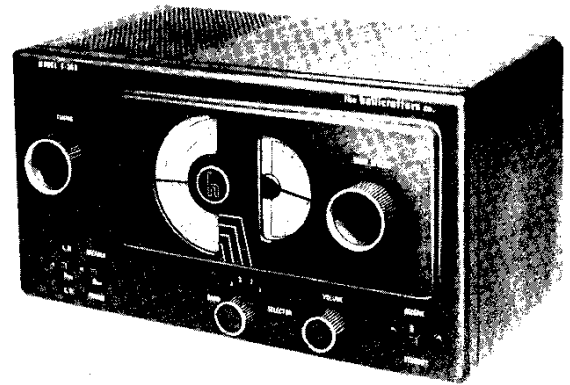
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MODELS S-38A,
S-38B

GENERAL

- Tubes Four plus rectifier.
- Speaker 5-inch PM.
- Voice Coil Impedance 3.2 ohms.
- Headset Output Low impedance.
- Antenna Provisions for external antenna with transmission line or single wire feed.
- Tuning Manual
- Tuning Range

Band Selector Position	Frequency Range
1	550 kc - 1650 kc.
2	1.7 mc - 5.1 mc.
3	5 mc - 14.5 mc.
4	13 mc - 31 mc.
- Intermediate Frequency..... 455 kc.
- Power Supply..... 105-125 V. DC or 60 cycles AC.
- Power Consumption 30 Watts



S2X1153

CAUTION - The four rubber grommets insulate the chassis from the cabinet. Check the condition of these grommets and replace if necessary.

The standard RMA dummy antenna specified in the alignment chart consists of a 200 mmf condenser in series with a 20 uh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.

Set the following controls before alignment.

- AM/CW Set at AM
- SPEAKER/PHONES Set at SPEAKER
- VOLUME Set at maximum
- RECEIVE/STANDBY..... RECEIVE
- BAND SPREAD Set at zero

For the settings of the remaining controls, see alignment chart.

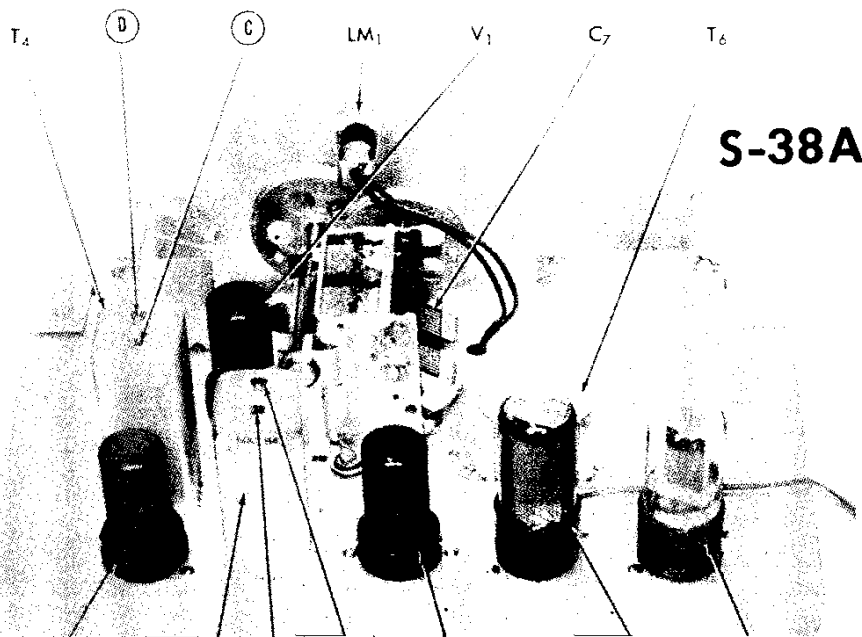
ALIGNMENT PROCEDURE

Holes in the bottom cover permit minor adjustment of the oscillator and mixer stage trimmers, however for complete alignment, the chassis will have to be removed from the cabinet. To separate the chassis from the cabinet, remove the back cover and bottom plate. The chassis is fastened to the cabinet by four front panel screws located near the slide switches and two cabinet screws located at the bottom rear of the cabinet.

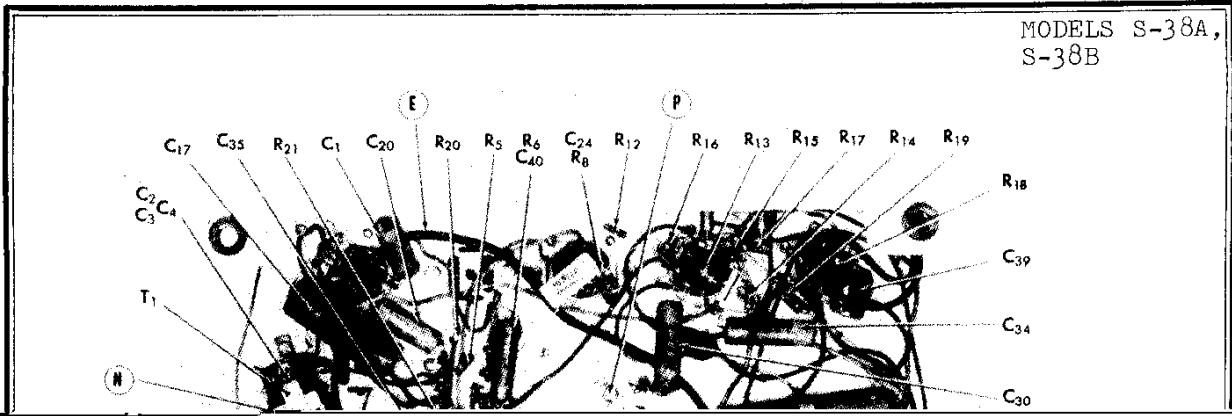
ALIGNMENT CHART

Step	Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Band Selector Setting	Receiver Dial Setting	Adjust	Remarks
1	.01 mfd cap.	Stator plates, front section of tuning gang.	455 kc	1	1000 kc	A,B,C,D	Adjust for max. audio output at speaker voice coil. Use just enough signal generator output to obtain a 50 mw signal level.
2**	See step 1	See step 1	455 kc (No ...)	1	1000 kc	E	Set the AM/CW switch at CW. (Reset the switch at AM when step 2 is completed.) Correct BFO operation is obtained by

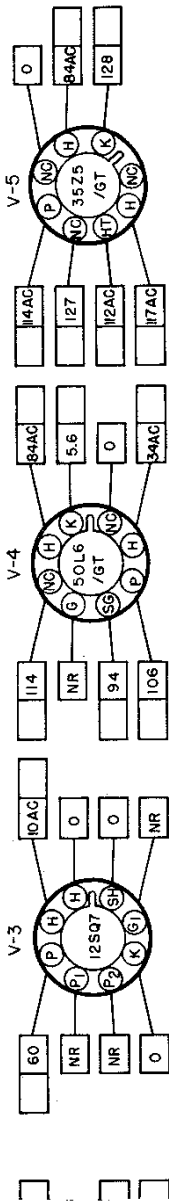
MODELS S-38A,
S-38B



MODELS S-38A,
S-38B



MODELS S-38A,
S-38B



1. SOCKET VIEWS ARE BOTTOM VIEWS.
2. ALL VOLTAGES ARE MEASURED BETWEEN TUBE SOCKET TERMINALS & CHASSIS, WITH ZERO SIGNAL INPUT.
3. LINE VOLTAGE—117 V. AC. AC VOLTAGES WILL BE DC VOLTAGES WHEN OPERATING FROM A DC SOURCE.
4. ALL VOLTAGES SHOWN ARE DC UNLESS OTHERWISE SPECIFIED.
5. DC VOLTAGES SHOWN WERE MEASURED WITH AN ELECTRONIC VOLTMETER.
6. "NC" NO CONNECTION. (VOLTAGES SHOWN FOR THIS TERMINAL ONLY WHEN TERMINALS ARE USED AS A TIE LUG.)
7. "NR" NOT READABLE (READING GENERALLY MEANINGLESS)
8. SPACE PROVIDED FOR SERVICE METER READINGS.

Fig. 5. Tube socket voltage chart.

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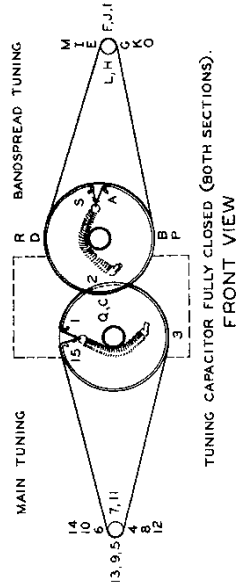
average tuning dial cord cut a 14-inch cord and tie one to the tension diagram. Follow the sequence "1" to "15" stretch the tension spring

and tuning dial cord, cut a 16-inch cord and tie one to the tension diagram. Follow the sequence "1" to "15" stretch the tension spring

tion of the dial lamp used in re-
 defective lamp, reach in through
 removed) and unclip the dial lamp
 e springs. The socket may then
 change the defective lamp. Re-
 8 V. Mazda #47 (Brown bead)

FRONT APRON

BOTTOM VIEW OF CHASSIS



92184

Fig. 1. Dial cable stringing procedure.

MODELS S-38A,
S-38B

SERVICE PARTS LIST

Ref. No.	Description	Manufacturer's Part Number	Ref. No.	Description	Manufacturer's Part Number
CONDENSERS			SWITCHES		
C-1,40	.01 mfd. 600 V., tubular	46AY103J	S-1	Bandswitch assembly	60C393
C-2,3,4	Trimmers, adjustable (Part of transformer T-1)		S-2	Switch, slide; RECEIVE-STANDBY	60A244
C-5	Trimmer, adjustable (For transformer T-2)	44A039	S-3,4	Switch, slide; SPST; AM-CW & SPEAKER-PHONES	60A243
C-6	2700 mmf 500 V, mica	47X30A272J	S-5	Switch, power (Part of VOLUME control R-7)	
C-7	Tuning condenser, 2 sections	48C162-1			
C-8	220 mmf 500 V, mica	47X20A221K			
C-9	3000 mmf 500 V, mica	47X30A302J			
C-10	Padder, adjustable (Band 1)	44A349			
C-11	2200 mmf 500 V, mica	47X30A222J			
C-12,13,14,15	Trimmers, adjustable (Part of transformer T-3)		PL-1	Line cord (Includes PL-2)	87B1668-1
C-16	.02 mfd 400 V, tubular	46AW203J	TS-1	Terminal strip, antenna	88A671
C-17	.25 mfd 200 V, tubular	46AT254J	TS-2	Headset, jack	88A071
C-20,35	.05 mfd. 200 V, tubular	46AU503J	SO-1	Socket, a-c	10A286
C-24	Capacitor, composite; 5,000, 2X220, and 2000 mmf; 500 V.; ceramic	46A151		Socket, octal (tube)	6A250
C-29	60-40-40 mfd 150 V, 20 mfd. 25 V, electrolytic	45B091		Socket, dial light	86A011
C-30,34	.02 mfd 600 V, tubular	46AY203J			
C-33	100 mmf. 500 V, mica	47X20B101K	V-1	Type 12SA7, mixer/oscillator	90X12SA7
C-36	1 mfd. 400 V tubular	46AV104T	V-2	Type 12SK7, i-f amplifier	90V12SK7
				TUBES, RECTIFIERS AND LAMPS	