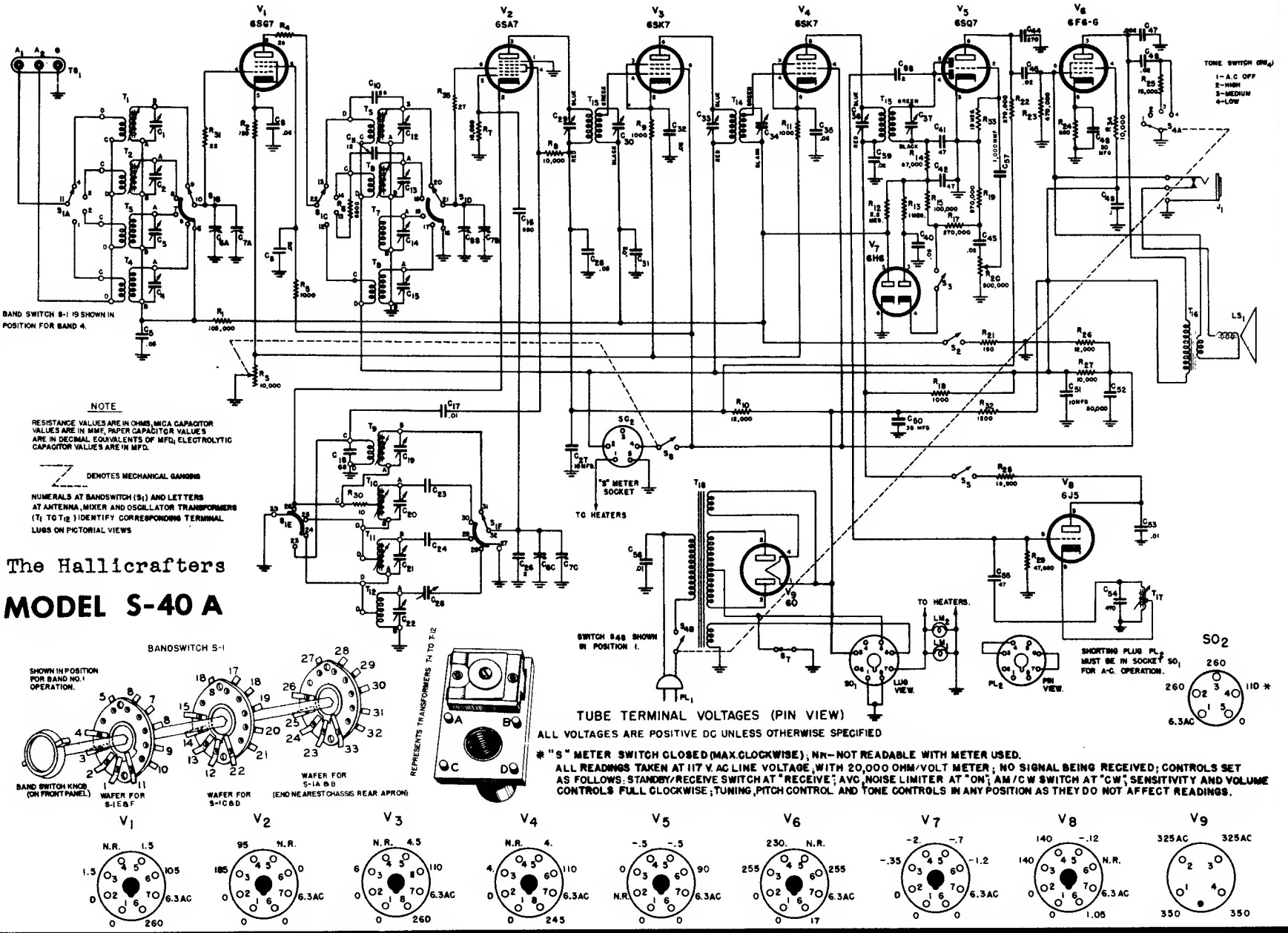


The Hallicrafters

MODEL S-40 A

TUBE TERMINAL VOLTAGES (PIN VIEW)

ALL VOLTAGES ARE POSITIVE DC UNLESS OTHERWISE SPECIFIED

* "S" METER SWITCH CLOSED (MAX. CLOCKWISE); NR—NOT READABLE WITH METER USED. ALL READINGS TAKEN AT 117 V. AC LINE VOLTAGE, WITH 20,000 OHM/VOLT METER; NO SIGNAL BEING RECEIVED; CONTROLS SET AS FOLLOWS: STANDBY/RECEIVE SWITCH AT "RECEIVE"; AVC, NOISE LIMITER AT "ON"; AM/CW SWITCH AT "CW"; SENSITIVITY AND VOLUME CONTROLS FULL CLOCKWISE; TUNING, PITCH CONTROL AND TONE CONTROLS IN ANY POSITION AS THEY DO NOT AFFECT READINGS.

SO2

The Hallicrafters Co.

MODEL S-40 A ALIGNMENT

EQUIPMENT:

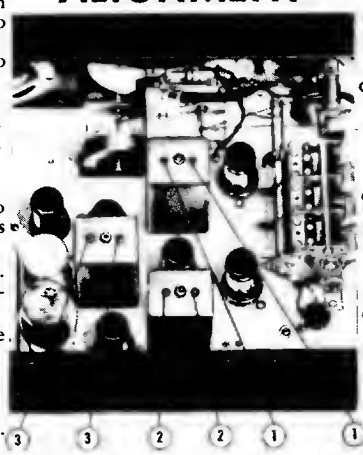
1. Signal Generator capable of the ranges indicated in the Alignment Chart, including a 400 cycle audio modulator.
2. Output meter capable of handling 1.5 watts of audio power.
3. Standard RMA dummy consisting of a 200 mmf condenser in series with a 20uh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.
4. Non-metallic screw driver.

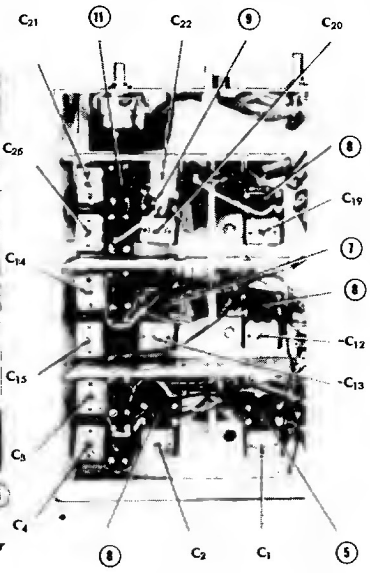
CONNECTIONS: Connect the Sig. Gen. "cold" lead to the receiver's chassis; the "hot" lead is connected as indicated in the Chart.

Connect the output meter across the speaker voice coil. 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:

SENSITIVITY control at full clockwise (maximum).
VOLUME control at full clockwise (maximum).
CW/AM switch at "AM" (except for BFO adjustment).
A.V.C. switch at "OFF."
NOISE LIMITER switch at "OFF."
TONE control at "HIGH".





Top and bottom views of the receiver locating slugs, padders and trimmers

DUMMY ANT. IN SERIES WITH SIG. GENERATOR	CONNECTION OF SIG. GENERATOR OUTPUT TO RECEIVER	SIGNAL GEN. FREQUENCY SETTING	BAND SWITCH SETTING	RECEIVER DIAL SETTING	ADJUST SLUG, PADDER, OR TRIMMER NO.	DESCRIPTION	TYPE OF ADJUSTMENT —MAKE ADJUSTMENT FOR:	STEP NO.
				IF ADJUSTMENT				
None	Stator plates of center sect. of tuning gang	455 kc	"1"	1000 kc	3 (both)	3rd IF	Maximum output	1
					2 (both)	2nd IF	Maximum output	2
					1 (both)	1st IF	Maximum output	3
							Repeat steps 1, 2 and 3	
BFO ADJUSTMENT—NOTE: Turn off Sig. Gen. 400 cycle modulation; set CW/AM switch at "CW"; remove Pitch Control knob adjust slotted screw shaft.								
None	Stator plates of center sect. of tuning gang	455 kc	"1"	1000 kc	T-17 slug (See Fig. 3 for location)	BFO slug	Zero heat	4
BAND #4 ADJUSTMENT—NOTE: Make sure 400 cycle audio modulator is turned on; AM/CW switch should be at "AM.								
STANDARD "A1" on antenna RMA Dummy strip		36 mc	"4"	36 mc	C-19	Osc. Trimmer	Maximum output	5
		18 mc		18 mc	8	Osc. Slug	Maximum output and repeat step 5	6
		36 mc		36 mc	†C-1	RF Trimmer	Maximum output	7
		36 mc		36 mc	†C-12	Mix.Trimmer	Maximum output	8
		18 mc		18 mc	*†5	RF Slug	Maximum output and repeat step 7	9
		18 mc		18 mc	*†6	Mix Slug	Maximum output and repeat step 8	10
				BAND #3 ADJUSTMENT				
STANDARD "A1" on antenna RMA Dummy strip		14 mc	"3"	14 mc	C-20	Osc. Trimmer	Maximum output	11
		10 mc		10 mc	* 9	Osc. Slug	Maximum output and repeat step 11	12
		14 mc		14 mc	†C-2	RF Trimmer	Maximum output	13
		14 mc		14 mc	†C-13	Mix. Trimmer	Maximum output	
		7 mc		7 mc	*† 4	RF Slug	Maximum output and repeat step 13	14 15
		7 mc		7 mc	*† 7	Mix. Slug	Maximum output and repeat step 14	16
				BAND #2 ADJUSTMENT				
STANDARD "A1" on antenna RMA Dummy strip		5 mc	"2"	5 mc	C-21	Osc. Trimmer	Maximum output	17
		3 mc		3 mc	* 11	Osc. Slug	Maximum output and repeat step 17	18
		5 mc		5 mc	C-3	RF Trimmer	Maximum output	19
		5 mc		5 mc	C-14	Mix. Trimmer	Maximum output	20
				BAND #1 ADJUSTMENT				
STANDARD "A1" on antenna RMA Dummy strip		1500 kc	"1"	1500 kc	C-22	Osc. Trimmer	Maximum output	21
		600 kc		600 kc	C-25	Osc. Padder	Maximum output and repeat step 21	22
		1500 kc		1500 kc	C-4	RF Trimmer	Maximum output	23
		1500 kc		1500 kc	C-15	Mix. Trimmer	Maximum output	24

*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.