

the hallicrafters co.

SERVICE BULLETIN FOR MODEL S-53

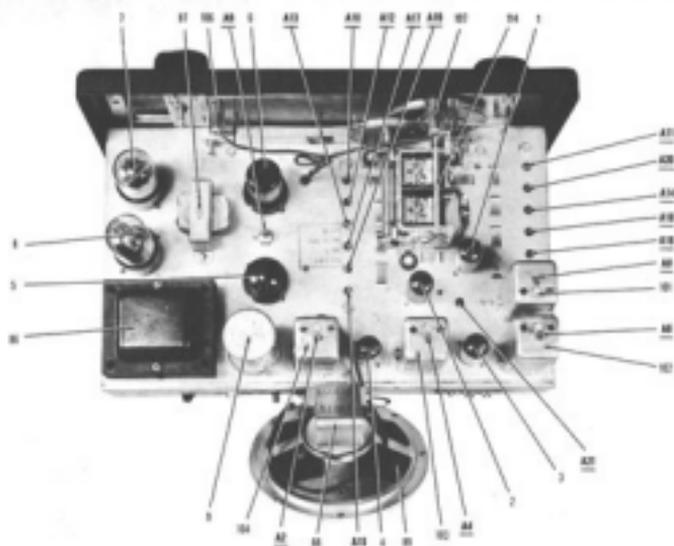


TRADE NAME: Hallicrafters, Model S-53
MANUFACTURER: Hallicrafters Co., 54th & Keastner, Chicago, Illinois
TYPE SET: AC Operated Multi-Band Superheterodyne Receiver
TUNES: Types, 6BA6 Mixer, 6C4 Det., 6BA6 1st IF Amp., 6BA6 2nd IF Amp., 6BE Noise Limiter-Detector, 6BE7 AF Amp., 6BE6, 6BE5 Power Output, 6Y5GT Rectifier.
POWER SUPPLY: 105-125 Volts AC RATING .45 Amp. @ 117 Volts AC
TUNING RANGE: Band "A" - 550-1600Kc, Band "B" - 2.6-5 .1Mc, Band "C" - 5.2-17Mc, Band "D" - 14-20Mc, Band "E" - 40-15Mc.

ALIGNMENT INSTRUCTIONS - READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer turn tuning caps. fully closed and set pointers to last reference marks of their respective dials.
 Band spread pointer must be set at 100 for Bands A,B,C, and D. For Band E turn main tuning cap. fully open and see band spread tuning cap. Set noise limiter to "OFF"; standby-receive switch to "Receive"; "CW-AM" switch to "AM"; IF Gain control to fully clockwise, and tone switch to "RE." Volume Control should be at maximum position, and output of signal generator no higher than necessary to obtain an output reading. Use an in-circuit alignment screwdriver for all adjustments.

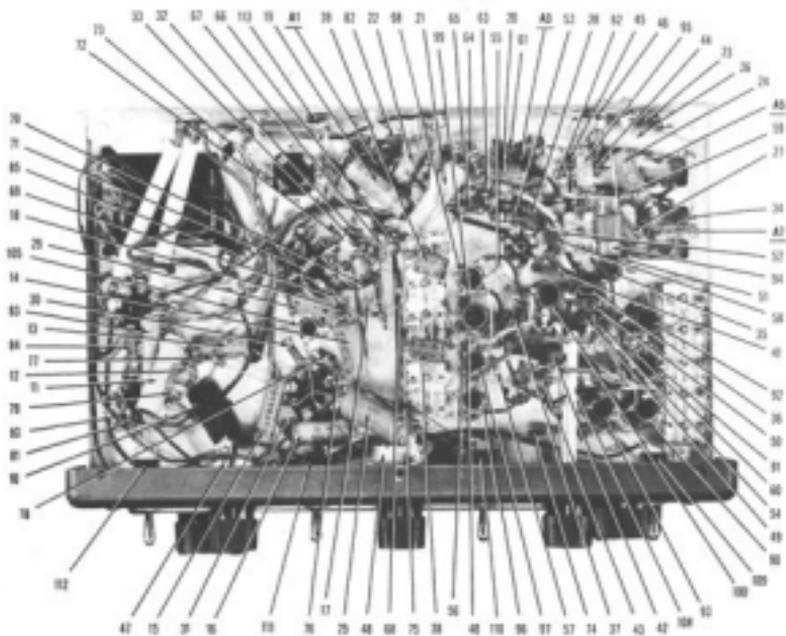
TUNING POINTS	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 Mc.	High side to front stub of tuning cap, low side to chassis	2,075Kc	A	Tuning cap. fully open	Across voice coil	A1, A2, A3, A4, A5, A6, A7, A8	Adjust for maximum output.
.1 Mc.	"	2,075Kc (unlabeled)	"	"	"	A9	Adjust for approximate 1000 cycle beat note.
300 Ohm Carbon Resistor	High side to an., terminal A1, low side to AF with link connected.	1500Kc	"	1500Kc	"	A10	Adjust for maximum output.



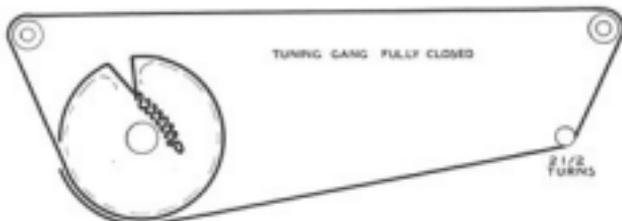
Top view showing alignment points.

300 Ohm Carbon Resistor	SIGNAL GENERATOR COUPLING	SIGNAL STRENGTH FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
	High side to ant., terminal A1, low side to A2 with link connected	1500KC	A	Tune for maximum output.	Across voice coil	A11	Adjust for maximum output.
*	*	6000C	*	6000C	*	A12	Rock tuning cap. and adjust for maximum output. Repeat steps 2, 3, and 4 until no further improvement can be made.
*	*	90C	B	90C	*	A13	Adjust for maximum output.
*	*	*	*	Tune for maximum output.	*	A14	* * *
*	*	150C	C	150C	*	A15	* * *
*	*	*	C	Tune for maximum output.	*	A16	Rock tuning cap. and adjust for maximum output.
*	*	3000C	D	3000C	*	A17	Adjust for maximum output.
300 Ohm Carbon Resistor	High side to ant., terminal A1, low side to A2 with link connected.	300C	D	Tune for maximum output.	Across voice coil	A18	Rock tuning cap. and adjust for maximum output.
*	*	500C	E	500C	*	A19	Adjust for maximum output.
*	*	*	E	Tune for maximum output.	*	A20	Rock tuning cap. and adjust for maximum output.

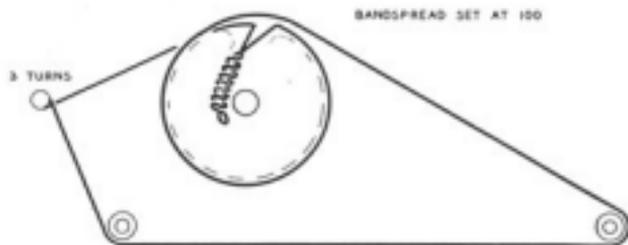
A11 is a wave trap to be adjusted to minimize interference caused by stations in Band X. Rock tuning cap. across interfering signal and adjust A11 for point of least interference.



Bottom view showing alignment points.



MAIN TUNING



BANDSPREAD

