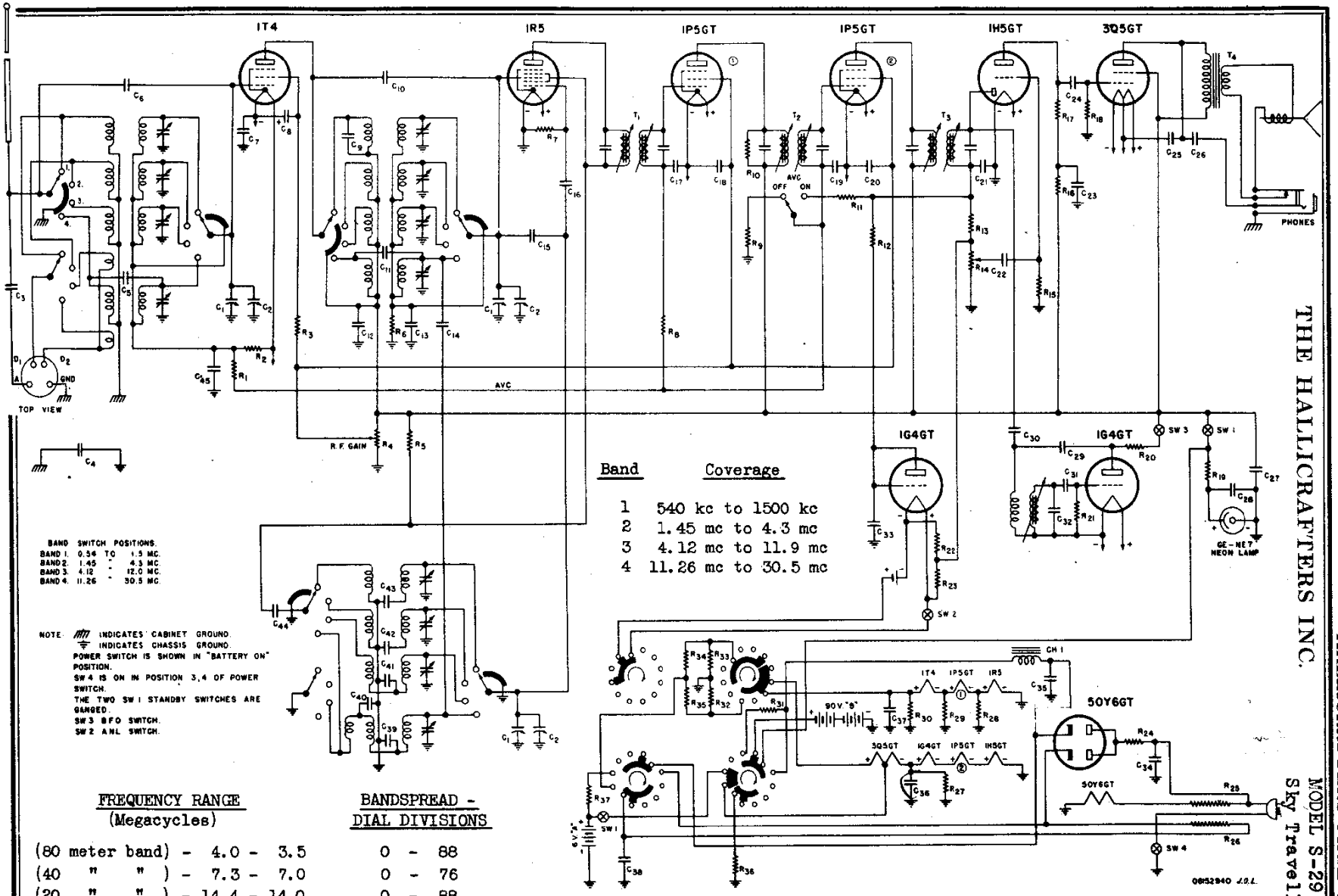
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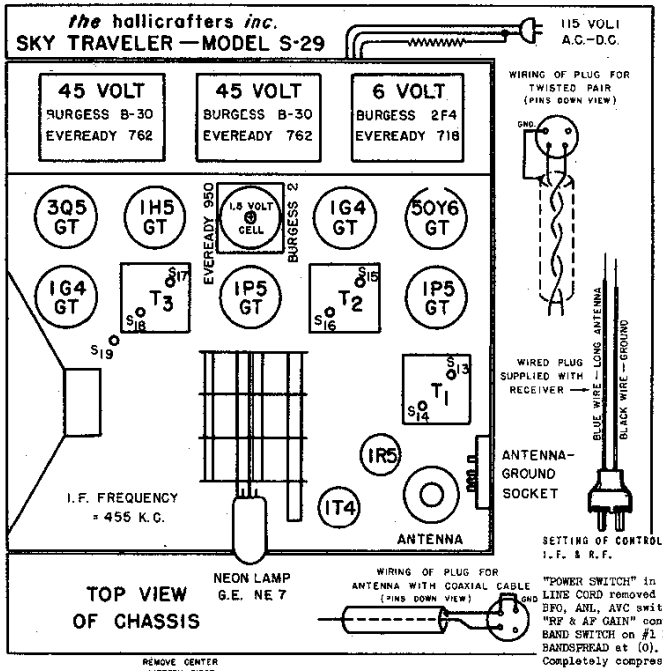


THE HALLICRAFTERS INC.

MODEL S-29

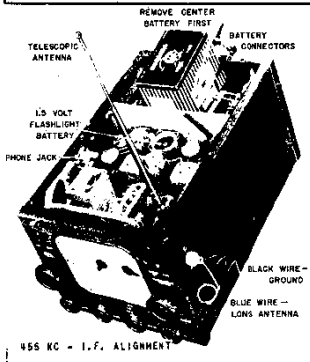
Sky Traveller

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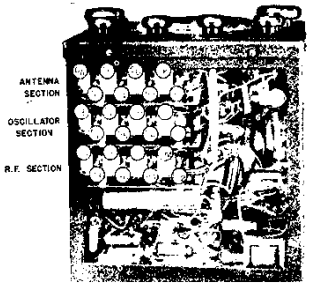
SETTING OF CONTROLS PRIOR TO ALIGNMENT I.F. & R.F.

"POWER SWITCH" in "BAT" position.
LINE CORD removed from outlet.
BFO, ANL, AVC switches "OFF".
"RF & AF GAIN" controls for maximum vol
BAND SWITCH on #1 Band.
BANDSPREAD at (0).
Completely compress the telescopic ant



455 KC - I.F. ALIGNMENT

Set "MAIN TUNING" control at 1500 kc.
Have antenna plug removed from antenna socket.
Tune generator to 455 kc.
Connect low side (GND) of generator to chassis.
Connect high side (HOT) of generator to lug on rear Stator section (R.F.) of main tuning condenser through a 0.1 mfd condenser.
Proceed to adjust the screws S_{13} to S_{18} inclusive protruding from the tops of the I.F. transformers, T_1, T_2 and T_3, for maximum output.



BOTTOM VIEW

Without changing the frequency of the generator after completing I.F. alignment - turn BFO switch "ON" and remove modulation from the signal generator. Adjust screw S_{19} to the desired tone (approximately 1000 cycles).

NOTE: - It is also possible to adjust the BFO without the aid of the signal generator by tuning a signal to exact resonance with the BFO switch "OFF" - with BFO "ON" adjust S_{19} to desired tone.

Insert "long-antenna" plug, furnished with receiver, into antenna socket and connect generator as indicated in chart below. A condenser in the receiver in series with the blue lead compensates for the reduction in capacity when the antenna is folded and the covers removed - thus, a dummy antenna is unnecessary.

NOTE: - On #3 and 4 Bands, it may be necessary to "rock" the main tuning condenser to compensate for slight shifts in oscillator frequency. When adjusting the trimmers and slugs for maximum gain, the oscillator frequency is 455 kc. less than the signal frequency on #4 band.

Connect hot lead of signal generator to BLUE wire of antenna plug and low side of generator to BLACK wire. A dummy antenna is unnecessary.

Band	Signal Generator Frequency and Receiver Dial Setting	Oscillator Frequency Relative to Signal	HIGH FREQUENCY END: Adjust Osc. with	HIGH FREQUENCY END: Adjust Trimmers For Max. Grain	LOW FREQUENCY END: Adjust Osc. with	LOW FREQUENCY END: Adjust Slugs For Max. Grain
1	1.4 mc	Above	C_B	C_A C_C		
	.6				S_2	S_1 S_3
2	4.0	Above	C_E	C_D C_F		
	1.6				S_5	S_4 S_6
3	11.0	Above	C_H	C_G C_J		
	5.0				S_8	S_7 S_9
4	28.0	Below	C_L	C_K C_M		
	14.0				S_{11}	S_{10} S_{12}

No.	Capacity	Voltage	Type
C1	Main Tuning Gang		air
2	Bandspread Gang		air
3	25 mmfd		ceramicon
4	0.1 mfd	400	paper
5	10 mmfd		ceramicon
6	6 mmfd		ceramicon
7	.05 mfd	200	paper
8	.01 mfd	400	paper
9	15 mmfd		ceramicon
10	5 mmfd		ceramicon
11	5 mmfd		ceramicon
12	.05 mfd	200	paper
13	.05 mfd	200	paper
14	3 mmfd		twisted pair
15	2 mmfd		twisted pair
16	50 mmfd		mica
17	.05 mfd	200	paper
18	.01 mfd	400	paper
19	.05 mfd	200	paper
20	.01 mfd	400	paper
21	50 mmfd		mica
22	.003 mfd	400	paper
23	0.1 mfd	200	paper
24	0.01 mfd	400	paper
25	.005 mfd	400	paper
26	.01 mfd	400	paper
27	60 mfd	150	electrolytic
28	.02 mfd	200	paper
29	.01 mfd	400	paper
30	2 mmfd		twisted pair
31	100 mmfd		mica
32	500 mmfd		mica
33	.05 mfd	200	paper
34	.05 mfd	400	paper
35	60 mfd	150	electrolytic
36	100 mfd	40	electrolytic
37	60 mfd	40	electrolytic
38	60 mfd	150	electrolytic
39	4230 mmfd		mica
40	250 mmfd		mica
41	2030 mmfd		mica
42	680 mmfd		mica
43	380 mmfd		mica
44	.01 mfd	400	paper
45	.05 mfd	700	paper

No.	Ohms	Wattage
R1	2 megs	1/3
2	2 megs	1/3
3	9000	1/3
4	500,000	R.F. Gain
5	5,000	1/3
6	2 megs	1/3
7	100,000	1/3
8	1 meg	1/3
9	2 megs	1/3
10	40,000	1/3
11	2 megs	1/3
12	1 meg	1/3
13	100,000	1/3
14	500,000	A.F. Gain
15	10 megs	1/3
16	100,000	1/3
17	500,000	1/3
18	500,000	1/3
19	400,000	1/3
20	50,000	1/3
21	50,000	1/3
22	300	1/3
23	1100	1/3
24	25	1
25	450	line cord
26	450	line cord
27	1100	1/3
28	500	1/3
29	550	1/3
30	600	1/2
31	9000	1/3
32	900	1/3
33	800	1
34	800	3
35	845	3
36	750	1/3
37	2000	2