THE HALLICRAFTERS

INC.

MODEL SX24, Skyrider Defiant

10-16 HALLICRAFTERS

Socket, Trimmers

Parts List

lignment

Mica

Paper

Paper

Mica

Mica

Paper

Mica

Ceramicon

Electrolytic

Electrolytic

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A CONTRACTOR			-	THE RESERVE OF THE PERSON NAMED IN	NAME AND ADDRESS OF TAXABLE PARTY.	
NO.	OHMS	WATTAGE	HO.	0HH3	WATTAGE	
1	30	1/3	18	1,000,000	1/3	
2	200	•	19	50,000	* The Control of the	
3	100,000	*	20	100		
4	10,000	R.F. Gain Control	21	250,000		
5	500	Variable	22	100,000		
6	400	1/3	23	250,000		
7	50,000		24	250,000	* T	
8	200	The state of the s	25	500	1	
0	15,000		26	500,000	1/3	
10	30,000		27	5,000	1	
11	2,000,000	1/3	28	500,000	A.F. Gain Control	
12	50,000		29	20,000	1	
13	500,000		30	50,000	1/3	
14	300	W	31	20,000	SEALON SEALON	
15	300		32	15,000	1	
16	1,000		33	150	1/3	
17	1,000,000		34	5,000		

ALIGNMENT PROCEDURE

B.F.O. switch in the "ON" position. Set band switch to #2 band.

455 KC, Intermediate-Frequency Alignment. Have the controls set as follows:

Set main dial to 2 megacycles, band spread to sero. Selectivity switch in "CW Sharp" position.

AF and RF gain controls for maximum volume. Selectivity switch in "CW Sharp" position. Remove 6K8 grid cap and connect the hot side of your 455 KC generator to this tube. Connect the ground terminal of the signal generator to the chassis of the receiver. Now feed a 455 KC signal into the receiver and set the pitch control to give a beat note of approximately 1000 cycles. Adjust all I.F. transformer trimmers for maximum gain with the exception of the secondary trimmer acquet and A.F. transformer to America for maximum gain when the exception of the secondary transformer to the secondary transformer that the output reaches a maximum goes through a dip and then back to maximum again. Wobbulate the IF frequency and align to the dip between the two maximum points. A distinct change in the crystal note sounding like an apparent broadening of the crystal action will be noted when the correct adjustment has been reached. Now repeak carefully the other trimmers for maximum gain.

R. F. ALIGNMENT

Re-connect the grid cap to the 6K8 tube. Connect the hot side of the generator to the Al antenna terminal on the rear of the chassis. Be sure a jumper is connected to A2 and G. Leave signal generator ground connected to the chassis of the receiver.

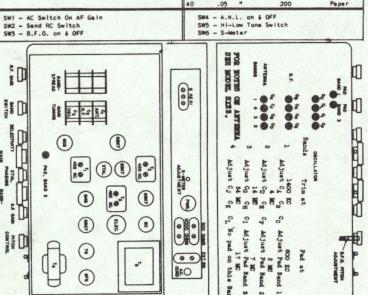
The location of the following trimmers and padders can be determined by referring to the top and g a bottom chassis views. All pad adjustments are for the low frequency end of each band while the trimmers are for the high frequency ends.

In order to get at the RF trimmers the guarantee card can be removed by placing a knife under the small snap fasteners holding it in place. So that most satisfactory adjustment of the trimmers and padders can be made, it is advisable to "Rock" the condenser gang across the signal as being delivered by the generator until that particular circuit has been accurately peaked.

"S" METER

When the R.F. gain control is advanced until a switch is heard to operate, a light will appear behind the translucent scale of the meter itself. Only when this light is on will the meter indicate in "S" units. With the R.F. gain control backed off from maximum the meter is still in the circuit but will not indicate carrier level accourately. When so adjusted the meter can be used as a resonance indicator. On the rear agree of the chassis is the "5" meter adjustment sorew. To set the "5" meter (discounce the antenna and have the R.F. Gain Control on full and the selectivity switch in the "I.F. sharp A.V.C. on" position. Now, adjust this knurled knob until the meter reads sero. Reconnecting the antenna and tuning in a station will show its relative carrier intensity.

The 500 and 5000 ohm terminals are for connections to a loud speaker or other load of those impedance values. The matching SX25 speaker should be connected to the 5000 ohm strip. When headphones are plugged into the phone jack the 5000 ohm speaker connection is automatically dis-



COMBENSERS

Paper

Caramicon

Mica

Paper

Alr

Paper

Mica

Electrolytic

Mica

Electrolytic

Paper

CAPACITY

.05

.05

.05

.02

.02

.05

100.

10. mfd

.002 mfd

mmfd

440

26

25.

10.

10 25.

12

19

20 10. VOLTAGE

200

Crystal Phasing

400

25

400

25

Twisted Pair

CAPACITY

.01

.02 .02

.01

.01 mfd "

.05

.002 mfd

-0005 "

. 05

100.

30.

10.

105

450

2200

31

32 10.

33 100

35

36 1400

38

39

VOLTAGE

400

400

350

400

200

350

Due ! Pac

400

<u>Mote:</u> The accuracy of the main dial calibration will hold only if the BAND SPREAD condenser is set at minimum sepacity, or the position indicated by "O" on the Band Spread dial which has been approached by turning the Band Spread Knob in a clockwise direction, or to the right, as far as it will go.

