

## Hallicrafters, Inc.

**Model: S22**

**Chassis:**

**Year: Pre October 1938**

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

### Resources

**Riders Volume 9 - HALLICRAFTERS 9-4**

**Riders Volume 9 - HALLICRAFTERS 9-5**

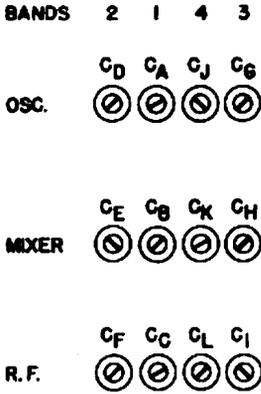
**Riders Volume 9 - HALLICRAFTERS 9-6**

MODEL S-22  
 Skyrider Marine  
 Socket, Trimmers

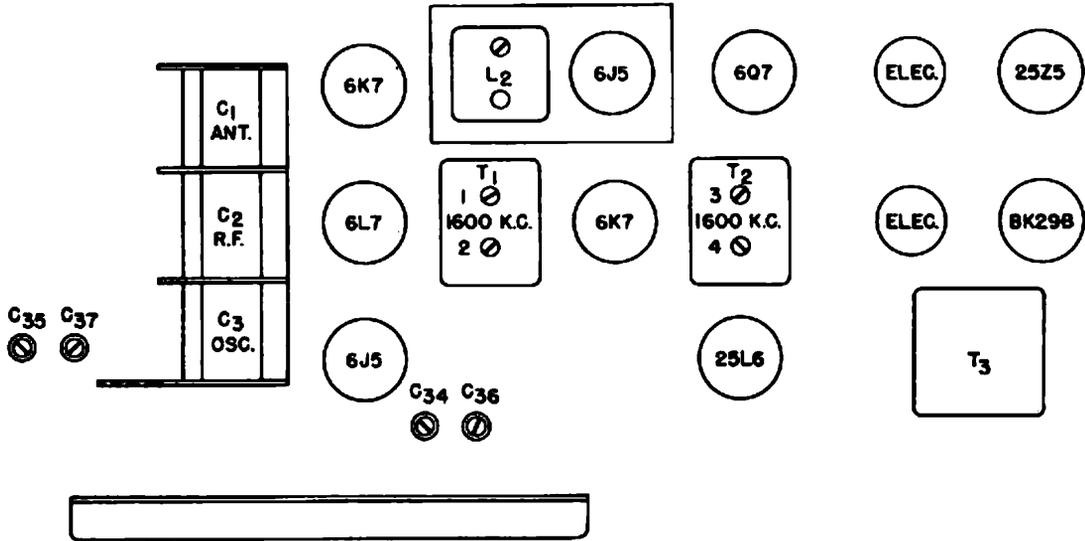
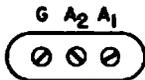
HALLICRAFTERS, INC.



# SKYRIDER MARINE MODEL S-22



- TUBES**
- 6K7 R.F. Amp.
  - 6L7 1st. Det.
  - 6J5 High Freq. Osc.
  - 6K7 I.F. Amp.
  - 6Q7 2nd. Det., A.V.C.  
1st Audio
  - 25L6 Output
  - 25Z5 Rectifier
  - 6J5 B.F.O.





**MODEL S-22**  
**Skyridor Marine**  
**Alignment, Parts**

**HALLICRAFTERS, INC**

**NOTE:** Because this receiver can be operated on either 110 volt AC or DC current the chassis is electrically placed above ground. DO NOT ground the receiver at any other point than the G terminal on the rear of the receiver.

**ALIGNMENT PROCEDURE FOR SKYRIDOR MARINE MODEL S22**

**Intermediate Frequency Alignment**

Have the controls set as follows:-

- A.V.C.-R.F.O. switches in the "off" position.
- Adjust A.F. and R.F. gain controls for maximum volume.
- Set Band Switch on #1 Band.

Set main dial at 495 KC or minimum capacity position.

Remove 6L7 grid cap - connect the signal generator through a .1 MFD condenser to the grid of this tube. Connect the ground of the signal generator to the G terminal of the receiver.

The chassis is insulated from the cabinet so do not ground the cabinet.

After the above adjustments have been made, set the signal generator for 1500 KC signal output.

Now adjust the trimmers on T1 and T2 transformers for exact resonance which will be indicated by maximum signal output. If you prefer an output meter an inductor it should be of the rectifier type and connected to the voice coil leads of the speaker, or to the plate of the 25L6 output tube through suitable coupling condenser.

**R.F. Alignment**

Replace the .1 MFD condenser in series with the generator leads with a 400 ohm resistor. Connect the generator to the A1 terminal on the strip mounted on the rear of the chassis. Leave the jumper between A2 and G connected. All pad adjustments are for the low frequency ends of the bands and are reached from the top of the chassis. All trimmer adjustments are for the high frequency ends of the bands and are adjusted through the bottom plate. Remove the guarantee card on the bottom of the cabinet by placing a knife under the small snap fasteners which hold it in place.

**Band #1**

Place the band switch on Band 1. Set generator for 350 KC output and adjust main dial for that frequency. Adjust oscillator trimmer CA, mixer trimmer, AB and antenna CC for maximum signal. Reset generator and receiver to 150 KC and rebalance pad 134 for maximum signal.

**Band #2**

Turn Band Switch to Band 2. Set generator and receiver to 1400 KC and adjust C1 CV for maximum output. Reset generator and receiver to 600 KC - add adjust Pad 135 for maximum signal.

**Band #3**

Adjust Band Switch to Band 3. Set generator and receiver to 4 MC and adjust CS CH C1 for maximum signal. Reset generator and receiver to 1.6 MC and tune pad 136 for maximum output.

**Band #4**

Set Band Switch on Band 4. Tune generator and receiver to 14 MC and adjust G1, G2, C1 for maximum signal. Reset generator and receiver to 6 MC and adjust pad 137 for maximum output.

**RESISTORS**

NO.	VALUE	WATTAGE	PARTS NO.
R1	100,000	1/3	20-093
2	25,000	R. F. Gain	25-039
3	600	1/3	22-125
4	1,000	1/3	20-033
5	100,000	1/3	20-093
6	200	1/3	20-016
7	1,000	1/3	20-033
8	100,000	1/3	20-093
9	600	1/3	22-125
10	1,000	1/3	20-033
11	100,000	1/3	20-093
12	1,000,000	1/3	20-124
13	1,000,000	1/3	20-108
14	500,000	Audio Gain	25-041
15	7,500	1/3	20-060
16	250,000	1/3	20-099
17	140	1/2	22-011
18	5,000	1/3	20-054
19	50,000	1/3	20-064
20	1,000	1/3	20-033
21	50,000	1/3	20-094
22	94	total - type BK 293 resistor tube	
23	500,000	Tune Control	25-040

**CONDENSERS**

NO.	CAPACITY	TYPE	VOLTAGE	PARTS NO.
C1				
2	400.	mfd.		43-022
3				
4	.05	mf4.	400	41-005
5	.01	"	400	41-001

**CONDENSERS - Continued**

NO.	CAPACITY	TYPE	VOLTAGE	PARTS NO.
06	.01	mf4.	400	41-001
7	10	mfd.		40-021
8	.01	mf4.	"	41-001
9	.01	"	"	41-001
10	.01	"	"	41-001
11	.01	"	"	41-001
12	.02	"	"	41-003
13	.01	"	"	41-001
14	.0001	mica		40-007
15	.0001	"		40-007
16	.06	"		41-005
17	.01	"		41-001
18	20.	electrolytic	25	42-026
19	.1	"	400	41-007
20	.00025	mica		40-024
21	.06	"		41-006
22	20.	electrolytic	25	42-026
23	.005	"	600	40-020
24	.005	"	"	40-020
25	.01	"	400	41-001
26	.01	"	"	41-001
27	10.	mfd.		40-021
28	.00025	mfd.		40-024
29	.0003	"		
30	.00025	in pitch control		
31	.01	pitch control		43-021
32	.002	mica		41-001
33	.0001	"		40-013
34		"		40-007
35	50.	mfd.		44-027
36	100.	"		44-028
37	375.	"		44-027
38	1,000.	"		44-026
39	40	mf4.	150	42-026
40	40	"	"	42-026
	.01	"	400	41-001