

MODEL S-22
 Skyrider Marine
 Socket, Trimmers

HALLICRAFTERS, INC.



SKYRIDER MARINE MODEL S-22

BANDS 2 1 4 3

OSC. C_D C_A C_J C_G

MIXER C_E C_B C_K C_H

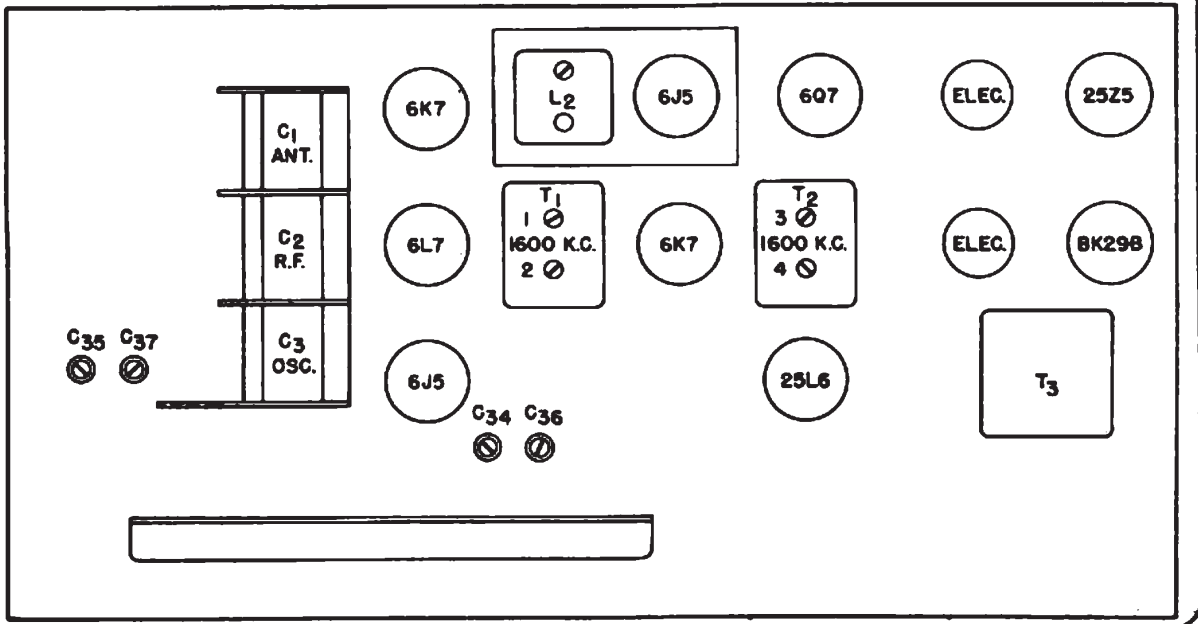
R.F. C_F C_C C_L C_I

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.

G A_2 A_1

A.C. CORD

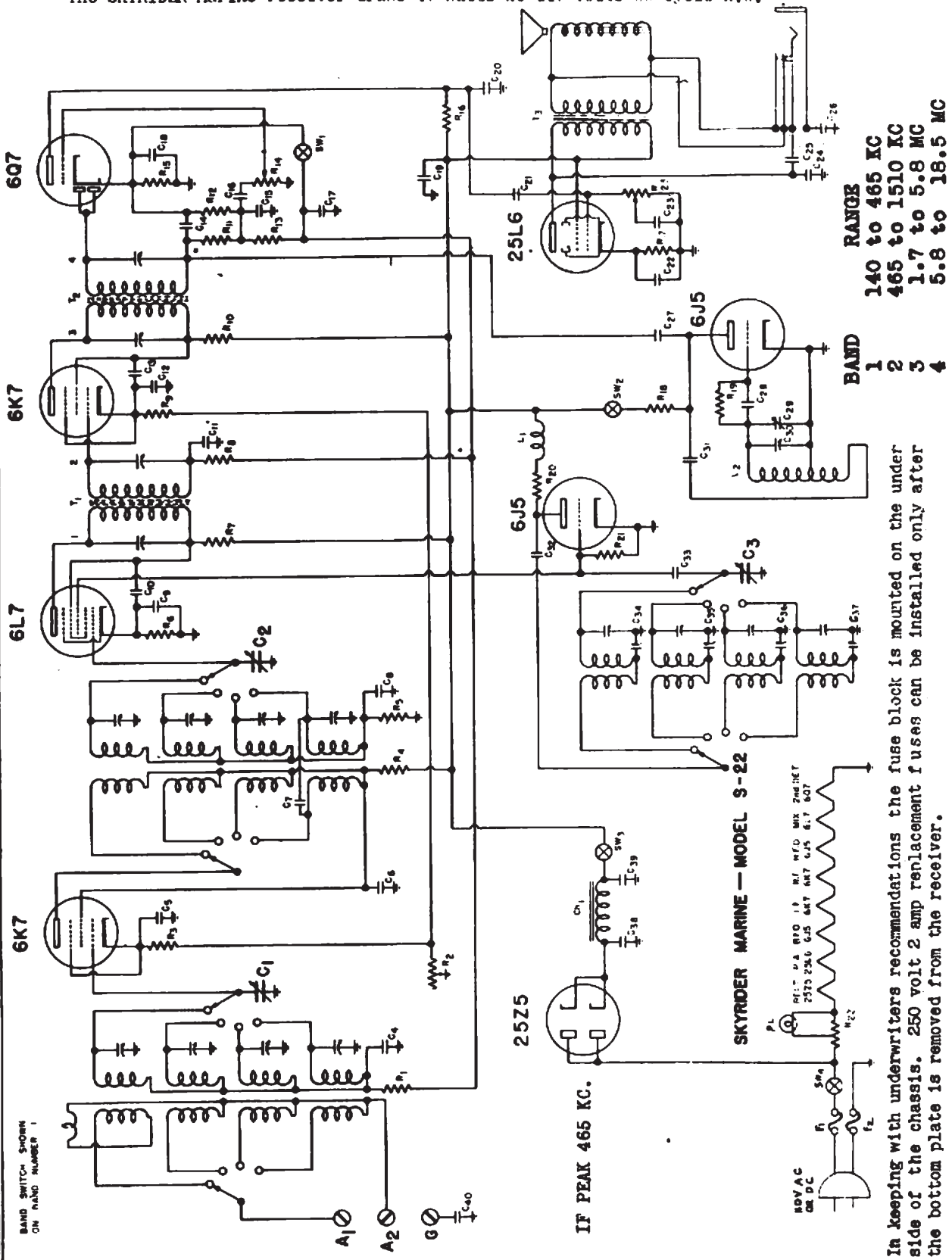


R.F. GAIN BAND SWITCH AUDIO GAIN MAIN TUNING TONE CONTROL PITCH CONTROL SEND REC.

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MODEL S-22
Skyrider Marine
Schematic

The SKYRIDER Marine receiver draws 47 watts at 117 volts .60 cycle A.C.



BAND SWITCH - SHOWN
ON BAND NUMBER 1

RANGE
140 to 465 KC
465 to 1510 KC
1.7 to 5.8 MC
5.8 to 18.5 MC

BAND
1 2 3 4

25Z5

IF PEAK 465 KC.

SKYRIDER MARINE - MODEL S-22

PL
REF: P.A. RFD 1P R1 RFD MIX 2ND NET
25Z5 25L6 6J5 6K7 6L7 6J5 6L7 6J5

In keeping with underwriters recommendations the fuse block is mounted on the under side of the chassis. 250 volt 2 amp replacement fuses can be installed only after the bottom plate is removed from the receiver.

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

Set main dial at 465 KC or minimum capacity position.

Remove 6L7 grid cap - connect the signal generator through a .1 MFD condenser to the G 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 as an indicator 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 pot 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 output. Reset generator and receiver to 150 KC and resonate pad L34 for maximum signal.

Band #2

Turn Band Switch to Band 2. Set generator and receiver to 1400 KC and adjust CI 27 CF for maximum output. Reset generator and receiver to 800 KC - add adjust Pad L35 for maximum signal.

Band #3

Adjust Band Switch to Band 3. Set generator and receiver to 4 MC and adjust 25 CH CI for maximum signal. Reset generator and receiver to 1.6 MC and tune pad L36 for maximum output.

Band #4

Set Band Switch on Band 4. Tune generator and receiver to 14 MC and adjust 25 CH CI for maximum signal. Reset generator and receiver to 6 MC and adjust pad L37 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	20-084
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	408.	mf.d.		48-022
3				
4	.05	mf.d.	400	41-005
5	.01	"	400	41-001

CONDENSERS - Continued

NO.	CAPACITY	TYPE	VOLTAGE	PARTS NO.
06	.01	mf.d.	400	41-001
7	10	mf.d.		40-031
8	.01	mf.d.	"	41-001
9	.01	"	"	41-001
10	.01	"	"	41-001
11	.01	"	"	41-001
12	.02	"	"	41-003
13	.01	"	"	41-001
14	.0001	"	"	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	"	"	40-024
21	.06	"	"	41-005
22	20.	electrolytic	25	42-025
23	.005	"	600	40-020
24	.005	"	"	40-020
25	.01	"	400	41-001
26	.01	"	"	41-001
27	10.	mf.d.		40-021
28	.00025	mf.d.		40-024
29	.0005	"		
30	.00025	"		
31	.01	"		
32	.002	"		
33	.0001	"		
34	50.	mf.d.		
35	100.	"		
36	375.	"		
37	1,000.	"		
38	40	mf.d.	150	42-025
39	40	"	"	42-026
40	.01	"	400	41-001