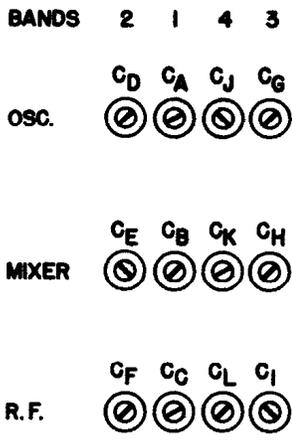


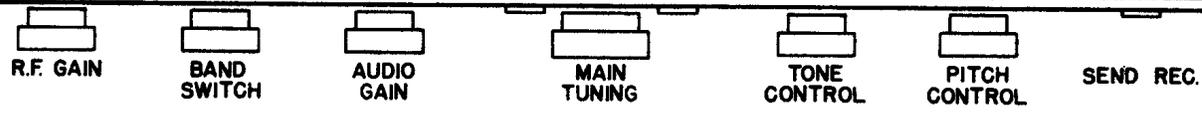
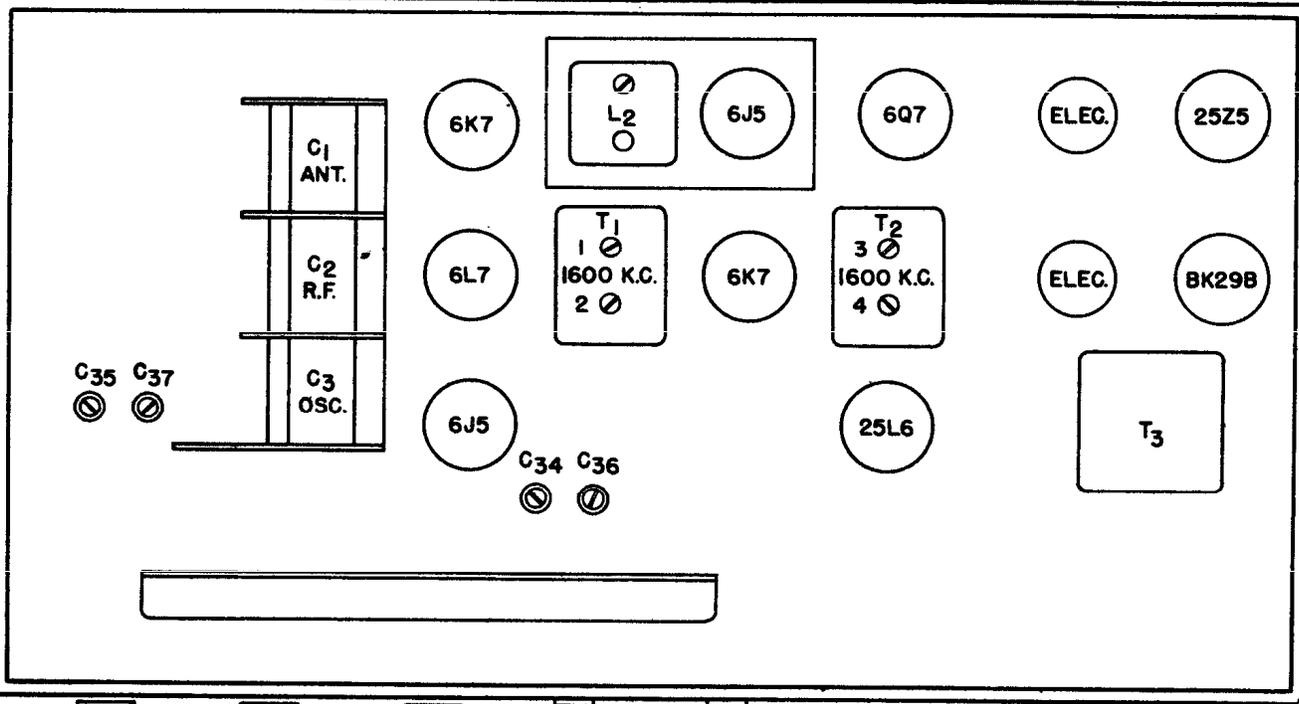
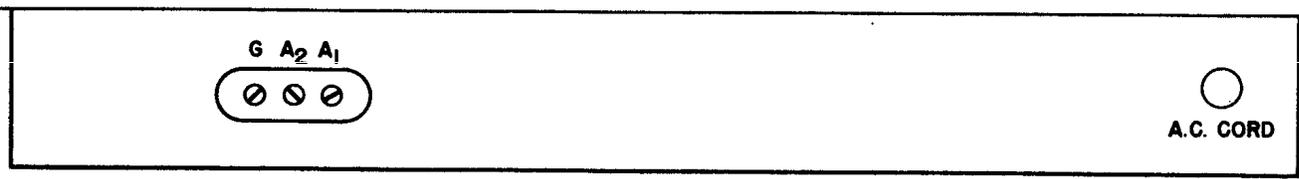
MODEL S-22
Skyrider Marine
Socket, Trimmers

HALLICRAFTERS, INC.

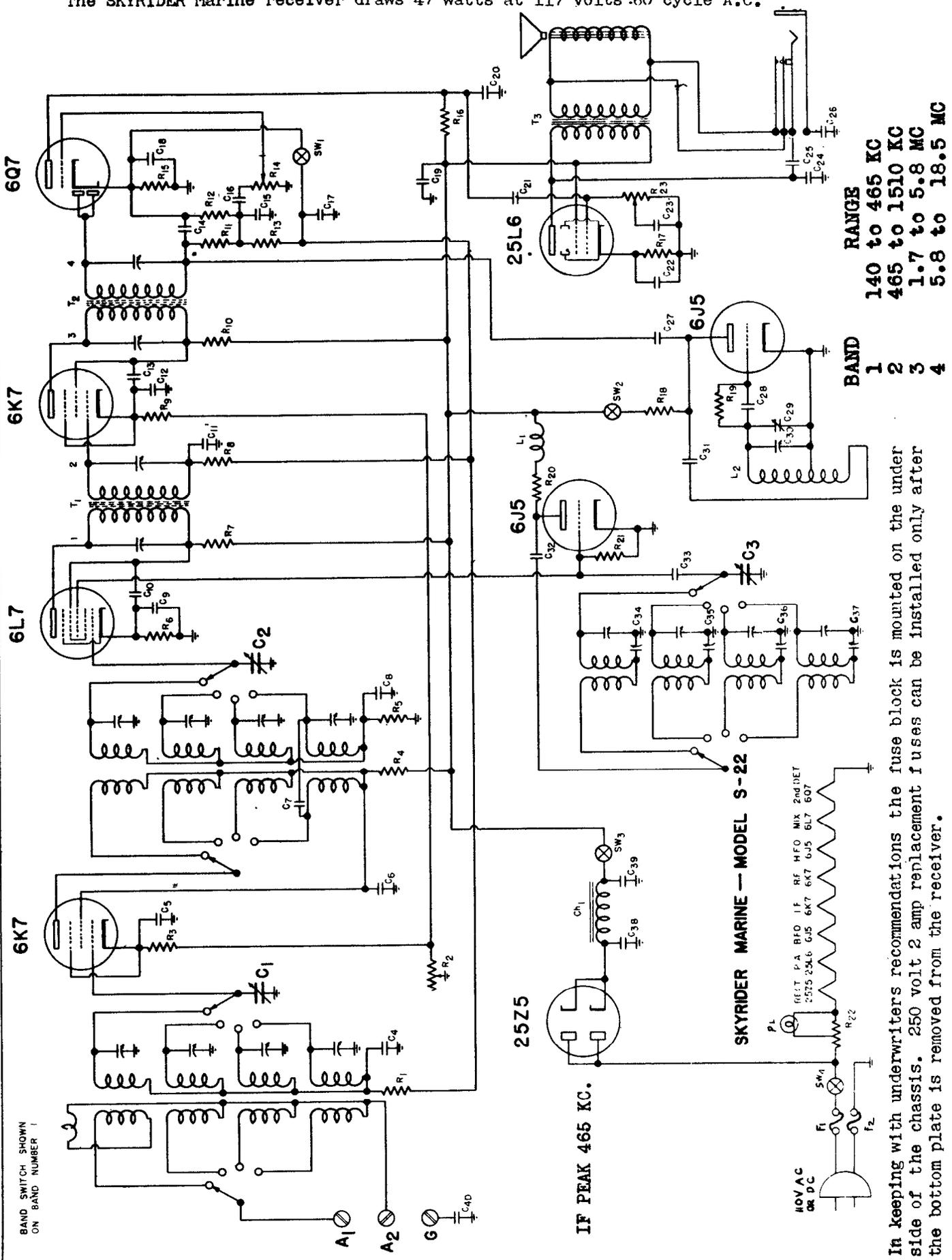


SKYRIDER MARINE MODEL S-22

- 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.



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



BAND SWITCH SHOWN ON BAND NUMBER 1

- RANGE**
- 1 140 to 465 KC
 - 2 465 to 1510 KC
 - 3 1.7 to 5.8 MC
 - 4 5.8 to 18.5 MC
- BAND**
- 1
 - 2
 - 3
 - 4

IF PEAK 465 KC.

SKYRIDER MARINE — MODEL S-22

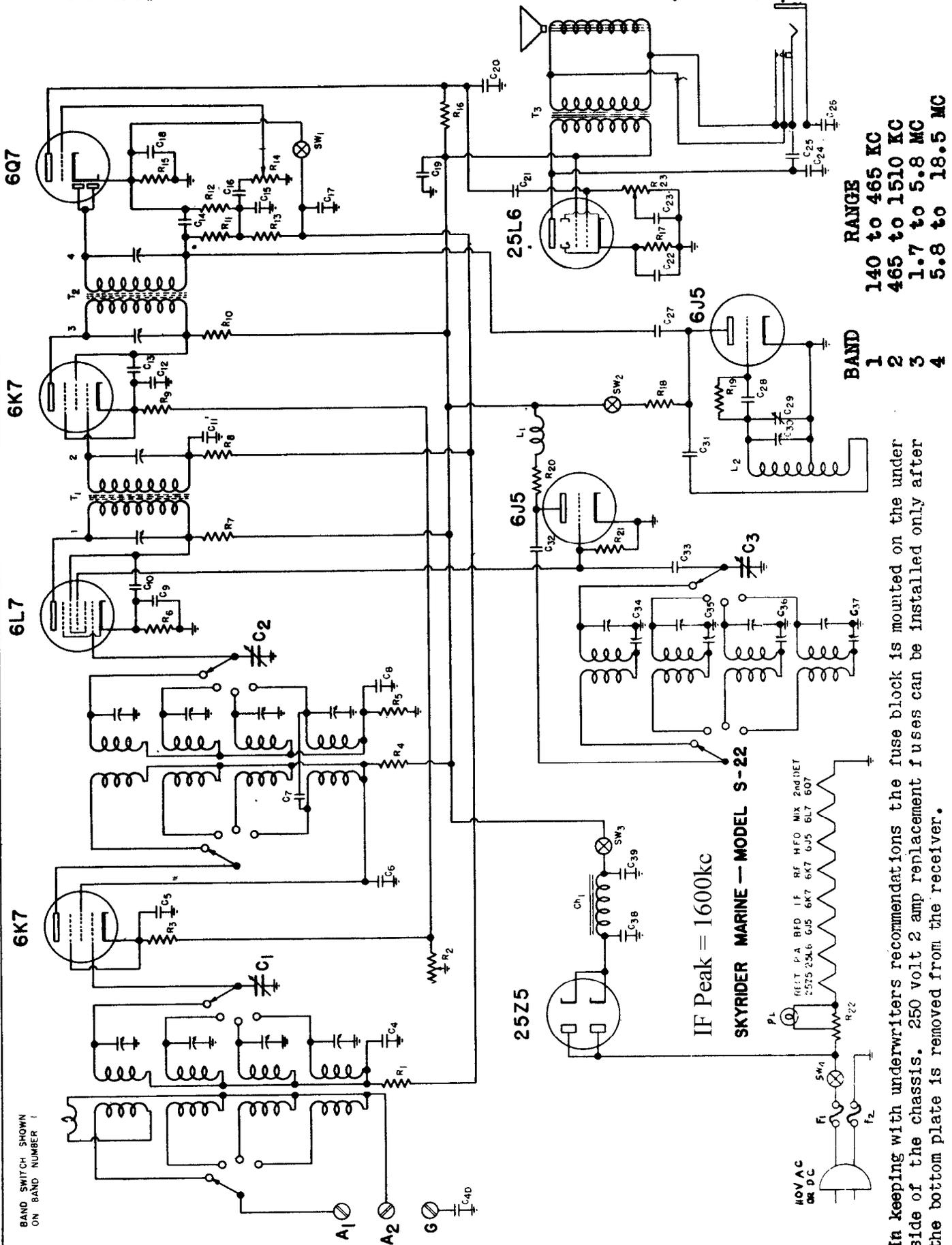
In keeping with underwriters recommendations the fuse block is mounted on the under side of the chassis. 250 volt 2 amp replacement fuses can be installed only after the bottom plate is removed from the receiver.

CORRECTED IF (1.600kc/s) HALLICRAFTERS, INC.

Manual Plus.com

MODEL S-22
Skyrider Marine
Schematic

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



RANGE

BAND

1	140 to 465 KC
2	465 to 1510 KC
3	1.7 to 5.8 MC
4	5.8 to 18.5 MC

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
Skyrider Marine
Alignment, Parts

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 SKYRIDER 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.F. 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 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 1600 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 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, CB and antenna CC for maximum signal. Reset generator and receiver to 150 KC and resonate pad C34 for maximum signal.

Band #2

Turn Band Switch to Band 2. Set generator and receiver to 1400 KC and adjust CD CF for maximum output. Reset generator and receiver to 600 KC - add adjust Pad C35 for maximum signal.

Band #3

Adjust Band Switch to Band 3. Set generator and receiver to 4 MC and adjust C9 CH CI for maximum signal. Reset generator and receiver to 1.6 MC and tune pad C36 for maximum output.

Band #4

Set Band Switch on Band 4. Tune generator and receiver to 14 MC and adjust CJ, CK, CL for maximum signal. Reset generator and receiver to 6MC and adjust pad C37 for maximum output.

RESISTORS

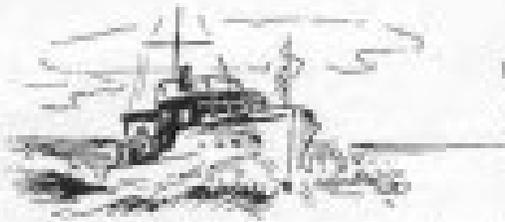
NO.	OHMS	WATTAGE	PARTS NO.
R1	100,000	1/3	20-093
2	25,000	R. F. Gain	25-039
3	600	1/3	22-125
4	1,000	1/3	20-033
5	100,000	1/3	20-093
6	200	1/3	20-016
7	1,000	1/3	20-033
8	100,000	1/3	20-093
9	600	1/3	22-125
10	1,000	1/3	20-033
11	100,000	1/3	20-093
12	1,000,000	1/3	20-108
13	1,000,000	1/3	20-108
14	500,000	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	20-084
22	94	total - type BK 29B resistor tube	
23	500,000	Tone Control	25-040

CONDENSER - Continued

NO.	CAPACITY	TYPE	VOLTAGE	PARTS NO.
C6	.01 mfd.		400	41-001
7	10 mmfd.	ceramic	"	40-021
9	.01 mfd.	"	"	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	42-025
19	.1	"	400	41-007
20	.00025	mica	"	40-024
21	.05	"	"	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. mmfd.	ceramic	"	40-021
28	.00025 mfd.	mica	"	40-024
29	.0003	"	"	
30	.00025	in pitch control	"	48-021
31	.01	"	"	41-001
32	.002	mica	"	40-013
33	.0001	"	"	40-007
34	50. mmfd.	Pad.	"	44-027
35	100.	"	"	44-026
36	375.	"	"	44-027
37	1,080.	"	"	44-026
38	40 mfd.	"	150	42-026
39	40	"	"	42-026
40	.01	"	400	41-001

CONDENSER

NO.	CAPACITY	TYPE	VOLTAGE	PARTS NO.
C1				
2	408. mmfd.	Main Gang		48-022
3				
4	.05 mfd.		400	41-005
5	.01	"	400	41-001



The SKYRIDER MARINE

Specifically designed for marine service, in the range from 16.2 to 2158 meters (18.5 ms. to 140 kc.). Improved image rejection at the higher frequencies is achieved through the use of 1600 kc. IF transformers. The directly calibrated main tuning dial eliminates the use of complicated charts and tables. An efficient mechanical hand-operated with separate dial provides easy logging. Built for 115 volt AC-DC operation. Also may be operated from 6 volt battery supply with the addition of a Model No. 304 Electronic Converter. Dimensions 18 $\frac{1}{2}$ " x 9 $\frac{1}{4}$ " x 4 $\frac{1}{2}$ " high. The SKYRIDER MARINE (Model 8-22)—Complete with tubes and speaker. 2867-86450 plug weight 31 lbs.....(SKYCU)



Available in U.S.A. on RadioShack's Factory-Sponsored Time Payment Plan